







13<sup>th</sup> International Machine Tools Exhibition





19<sup>th</sup> International Foundry Fair



26<sup>th</sup> International Welding Engineering Fair



9<sup>th</sup> International Surface Technology Fair



7<sup>th</sup> International Plastics, Rubber and Composites Fair

# 8-11 October, 2024

Brno – Czech Republic

### The key marks will be

- Industry 4.0 and a Digital Factory
  - digitization of production

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MSV – 65 <sup>TH</sup> INTERNATIONAL ENGINEERING FAIR	PAGE
MINING, METALLURGICAL, CERAMIC AND GLASS ENGINEERING	. 3
MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING	.5
DRIVES, HYDRAULICS AND PNEUMATICS, COOLING TECHNOLOGY AND AIR-CONDITIONING	.8
PLASTICS, RUBBER TECHNOLOGY AND CHEMICAL INDUSTRY can be found in PLASTEX nomenclature	41
METAL-WORKING AND FORMING MACHINES, TOOLS can be found in IMT nomenclature	. 28
SURFACE FINISH, THERMAL TREATMENT can be found in PROFINTECH nomenclature	. 39
METAL WELDING, BRAZING AND GLUEING can be found in WELDING nomenclature	. 38
FOUNDRY INDUSTRY can be found in FOND-EX nomenclature	.36
POWER ENGINEERING AND HEAVY-CURRENT ELECTRICAL ENGINEERING	.11
ELECTRONICS, AUTOMATION AND MEASURING TECHNOLOGY	14
ECOLOGICAL TECHNOLOGY	. 21
RESEARCH, DEVELOPMENT, TRANSFER OF TECHNOLOGIES, FINANCIAL AND OTHER SERVICES	24
TRANSPORTATION, HANDLING, INDUSTRIAL PACKING, WAREHOUSING AND LOGISTICS	. 25
CHEMICALS FOR ENGINEERING	46
INDUSTRY 4.0 AND DIGITAL (SMART) FACTORY – INTEGRATED PROCESSES AND IT SOLUTIONS	.48
IMT – 13 <sup>TH</sup> INTERNATIONAL MACHINE TOOLS EXHIBITION	28
FONDEX – 19 <sup>TH</sup> INTERNATIONAL FOUNDRY FAIR	.36
WELDING – 26 <sup>™</sup> INTERNATIONAL WELDING ENGINEERING FAIR	.38
PROFINTECH – 9 <sup>TH</sup> INTERNATIONAL SURFACE TECHNOLOGY FAIR	.39
PLASTEX – 8 <sup>TH</sup> INTERNATIONAL PLASTICS, RUBBER AND COMPOSITES FAIR	41

### MINING, METALLURGICAL, CERAMIC AND GLASS ENGINEERING



Mining, bori	ng and dressing equipment	1.2.3.11	Special machines for rolling mills
		1.2.3.12	Handling machines for rolling and preparation plants
1.1.1	Machines and instruments for geological prospecting	1.2.3.13	Accessories of rolling and treatment mills
1.1.2	Instruments for geophysical prospecting	1.2.3.14	Auxiliary equipment for rolling mills
1.1.3	Machines and equipment for mining	1.2.3.15	Thin-walled profile production lines
1.1.4	Mining equipment for underground mines	1.2.3.99	Rolling mill and drawing plant equipment – other
1.1.5	Machines for open-cast mining		
1.1.6	Machines and equipment for coal and ore dressing,	1.2.4	Equipment for the production of non-ferrous metals
	accessories		
1.1.7	Machines and equipment for crude oil and natural gas	1.2.5	Heat treatment of metals
	exploitation	1.2.5.1	Accessories of equipment for heat treatment of metals
1.1.8	Machines and equipment for stone, sand and clay excavation	1.2.5.2	Hardening technology
1.1.9	Machines for mineral raw material processing	1.2.5.3	Annealing technology
1.1.10	Fuel transport equipment	1.2.5.4	Tempering technology
1.1.11	Storing equipment and tanks for fuels	1.2.5.5	Nitriding technology
1.1.12	Control systems of extraction machines	1.2.5.6	Carburizing technology
1.1.80	Measuring instruments for mining, boring and dressing	1.2.5.99	Heat treatment of metals – other
1.1.00	equipment		
1 1 07		1.2.6	Industrial furnaces for metal processing
1.1.87	CAD, CAM, CIM in mining processes and equipment	1.2.6.1	Accessories for industrial furnaces
1.1.88	Consultancy in mining processes and equipment	1.2.6.2	Industrial chamber furnaces for metal processing
1.1.89	Engineering and design service for metal production	1.2.6.3	Continuous furnaces for metal processing
	and processing	1.2.6.4	Vacuum, crucible, combustion, bell and other furnaces
.1.90	Service and repairs of mining, dressing and boring		
	equipment	1.2.6.5	Electric furnaces for metal processing
1.1.91	Refurbished mining, boring and dressing equipment	1266	Configuration for model managering
1.1.92	Technologies for mining processes	1.2.6.6	Gas furnaces for metal processing
.1.93	Implementation of complete mining, boring and preparation	1.2.6.6.1	Gas burners for metal heat treatment furnaces
	equipment plants		
1.1.99	Mining, boring and dressing equipment – other	1.2.6.7	Metal heat treatment equipment including controlled
			atmosphere
.2.1	Metal production and processing equipment – metallurgical	1.2.6.8	Vacuum furnaces for metal processing
	equipment	1.2.6.9	Melting furnaces for metal processing
	• •	1.2.6.10	Soldering furnaces
	Pig iron production	1.2.6.11	Plasma furnaces for metal processing
2.1.1	Accessories of pig iron production equipment	1.2.6.12	Fireclay brick formpieces for industrial furnaces
1.2.1.2	Blast furnaces	1.2.6.99	Furnaces and equipment for metal processing – other
.2.1.3	Gas cleaning equipment	1.2.0.33	ramaces and equipment for inclat processing – outer
.2.1.4	Auxiliary equipment for blast furnaces	1 2 7	Induction hosting agricument for matela
.2.1.5	Coking plant equipment	1.2.7	Induction heating equipment for metals
.2.1.6	Linings and refractory material for metallurgical production	1.2.7.1	High frequency generators for induction heating
1.2.1.7	Slag products		
		1.2.95	Heat treatment of metal components to order
1.2.1.99	Machines and equipment for bid fron broduction – other		
1.2.1.99	Machines and equipment for pig iron production – other		
	, , , , , , ,	1.2.99	Metal production and processing equipment – other
1.2.2	Steel works equipment		
1 <b>.2.2</b> 1.2.2.1	Steel works equipment Steel production equipment, furnaces, converters		Metal production and processing equipment – other d equipment for the ceramic and glass industries
1 <b>.2.2</b> 1.2.2.1 1.2.2.2	Steel works equipment Steel production equipment, furnaces, converters Converter steel works	Machines an	d equipment for the ceramic and glass industries
1.2.2 1.2.2.1 1.2.2.2 1.2.2.3	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works		
<b>2.2</b> 2.2.1 2.2.2 2.2.3	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works Automatic lines for casting production	Machines an	d equipment for the ceramic and glass industries
2.2 2.2.1 2.2.2 2.2.3 2.2.4 2.2.5	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works Automatic lines for casting production Electric steel production equipment	Machines an	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works Automatic lines for casting production Electric steel production equipment Additives and alloying additions	Machines an 1.3.1 1.3.1.1	d equipment for the ceramic and glass industries  Hot processing technologies  Components and accessories of drying equipment for the ceramic and glass industries
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works Automatic lines for casting production Electric steel production equipment	Machines an 1.3.1 1.3.1.1	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6 .2.2.7	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works Automatic lines for casting production Electric steel production equipment Additives and alloying additions	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems
2.2 2.2.1 2.2.2 2.2.3 2.2.4 2.2.5 2.2.6 2.2.7	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems
1.2.2 1.2.2.1 1.2.2.2 1.2.2.3 1.2.2.4 1.2.2.5 1.2.2.6 1.2.2.7	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting	Machines an  1.3.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials
1.2.2 1.2.2.1 1.2.2.2 1.2.2.3 1.2.2.4 1.2.2.5 1.2.2.6 1.2.2.7	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing	Machines an  1.3.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials Monitoring and control instruments for firing technologies
1.2.2 1.2.2.1 1.2.2.2 1.2.2.3 1.2.2.4 1.2.2.5 1.2.2.6 1.2.2.7 1.2.2.8 1.2.2.8.1	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works	Machines an  1.3.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally
2.2 2.2.1 2.2.2 2.2.3 2.2.4 2.2.5 2.2.6 2.2.7 2.2.8 2.2.8.1	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing	Machines an  1.3.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6 .2.2.7 .2.2.8 .2.2.8.1 .2.2.9 .2.2.99	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other	Machines an  1.3.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6 .2.2.7 .2.2.8 .2.2.81 .2.2.9	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8 1.3.1.9	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other
2.2 2.2.1 2.2.2 2.2.3 2.2.4 2.2.5 2.2.6 2.2.7 2.2.8 2.2.8.1 2.2.9 2.2.9	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8 1.3.1.9 1.3.2	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6 .2.2.7 .2.2.8 .2.2.8.1 .2.2.9 .2.2.99	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8 1.3.1.9	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6 .2.2.7 .2.2.8 .2.2.8.1 .2.2.9 .2.2.99 .2.3	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment Hot rolling mills	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8 1.3.1.9 1.3.2	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6 .2.2.7 .2.2.8 .2.2.8.1 .2.2.9 .2.2.99 .2.3 .2.3.1	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment Hot rolling mills  Cold rolling mills	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8 1.3.1.9 1.3.2 1.3.2	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other Raw material dressing in the ceramic industry
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6 .2.2.7 .2.2.8 .2.2.8.1 .2.2.9 .2.2.99 .2.3 .2.3.1	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment Hot rolling mills	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8 1.3.1.9 1.3.2 1.3.2.1 1.3.2.2 1.3.2.3	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other Raw material dressing in the ceramic industry Mass preparation in the ceramic industry Technology for mass moulding in the ceramic industry
2.2 2.2.1 2.2.2 2.2.3 2.2.4 2.2.5 2.2.6 2.2.7 2.2.8 2.2.8.1 2.2.9 2.2.99 2.3 2.3.1	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment Hot rolling mills Cold rolling mills Rolls for cold rolling	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8 1.3.1.9 1.3.2 1.3.2.1 1.3.2.2 1.3.2.3 1.3.2.4	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other Raw material dressing in the ceramic industry Mass preparation in the ceramic industry Technology for mass moulding in the ceramic industry Handling and transport technologies in the ceramic industry
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6 .2.2.7 .2.2.8 .2.2.8.1 .2.2.9 .2.2.99 .2.3 .2.3.1	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment Hot rolling mills  Cold rolling mills	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8 1.3.1.9 1.3.2 1.3.2.1 1.3.2.2 1.3.2.3 1.3.2.4 1.3.2.5	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other Raw material dressing in the ceramic industry Mass preparation in the ceramic industry Technology for mass moulding in the ceramic industry Handling and transport technologies in the ceramic industry Surface treatment of ceramic industry products
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.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6 .2.2.7 .2.2.8 .2.2.8.1 .2.2.9 .2.3.1 .2.3.2 .2.3.2 .2.3.2.1 .2.3.2	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment Hot rolling mills Cold rolling mills Rolls for cold rolling  Blooming mills Rolling mill drives Conveyers for rolling mills	Machines an  1.3.1 1.3.1.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8 1.3.1.9 1.3.2 1.3.2.1 1.3.2.2 1.3.2.3 1.3.2.4 1.3.2.5 1.3.2.6	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other Raw material dressing in the ceramic industry Mass preparation in the ceramic industry Technology for mass moulding in the ceramic industry Handling and transport technologies in the ceramic industry Surface treatment of ceramic industry products Machines and equipment for the processing of ceramics
.2.2 .2.2.1 .2.2.2 .2.2.3 .2.2.4 .2.2.5 .2.2.6 .2.2.7 .2.2.8 .2.2.8.1 .2.2.9 .2.3.1 .2.3.2 .2.3.2 .2.3.2.1 .2.3.2 .2.3.4 .2.3.5 .2.3.6	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment Hot rolling mills Cold rolling mills Rolls for cold rolling  Blooming mill drives Conveyers for rolling mills Separating and cutting machines for metallurgical production	Machines an  1.3.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8  1.3.2 1.3.2.1 1.3.2.2 1.3.2.3 1.3.2.4 1.3.2.5 1.3.2.6 1.3.2.7	d equipment for the ceramic and glass industries  Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials  Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other Raw material dressing in the ceramic industry Mass preparation in the ceramic industry Technology for mass moulding in the ceramic industry Handling and transport technologies in the ceramic industry Surface treatment of ceramic industry products Machines and equipment for the processing of ceramics Saws and grinding, milling and drilling machines for ceramics
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1.2.2 1.2.2.1 1.2.2.2 1.2.2.3 1.2.2.4 1.2.2.5 1.2.2.6 1.2.2.7 1.2.2.8 1.2.2.9 1.2.2.9 1.2.3.1 1.2.3.2 1.2.3.1 1.2.3.2 1.2.3.2 1.2.3.3 1.2.3.4 1.2.3.5 1.2.3.6 1.2.3.7 1.2.3.8	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment Hot rolling mills Cold rolling mills Rolls for cold rolling  Blooming mill drives Conveyers for rolling mills Separating and cutting machines for metallurgical production Tube rolling and drawing mills Tube treatment machines and tube insulation	Machines an  1.3.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8  1.3.2 1.3.2.1 1.3.2.2 1.3.2.3 1.3.2.4 1.3.2.5 1.3.2.6 1.3.2.7 1.3.2.8	Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other Raw material dressing in the ceramic industry Mass preparation in the ceramic industry Technology for mass moulding in the ceramic industry Handling and transport technologies in the ceramic industry Surface treatment of ceramic industry products Machines and equipment for the processing of ceramics Saws and grinding, milling and drilling machines for ceramics Materials for the production of moulds in the ceramic industry Machines and equipment for the glass industry
1.2.1.99 1.2.2 1.2.2.1 1.2.2.2 1.2.2.3 1.2.2.4 1.2.2.5 1.2.2.6 1.2.2.7 1.2.2.8 1.2.2.8.1 1.2.2.9 1.2.2.3 1.2.3.1 1.2.3.2 1.2.3.2 1.2.3.2 1.2.3.2 1.2.3.3 1.2.3.4 1.2.3.5 1.2.3.6 1.2.3.7 1.2.3.8 1.2.3.9	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment Hot rolling mills Cold rolling mills Rolls for cold rolling  Blooming mill drives Conveyers for rolling mills Separating and cutting machines for metallurgical production Tube rolling and drawing mills Tube treatment machines and tube insulation Wire-drawing machines for rolling and drawing mills	Machines an  1.3.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8  1.3.1.9  1.3.2 1.3.2.1 1.3.2.2 1.3.2.3 1.3.2.4 1.3.2.5 1.3.2.6 1.3.2.7 1.3.2.8  1.3.3 1.3.3.1	Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other Raw material dressing in the ceramic industry Mass preparation in the ceramic industry Technology for mass moulding in the ceramic industry Handling and transport technologies in the ceramic industry Surface treatment of ceramic industry products Machines and equipment for the processing of ceramics Saws and grinding, milling and drilling machines for ceramics Materials for the production of moulds in the ceramic industry Machines and equipment for the glass industry Hot processing technologies – glass melting
1.2.2 1.2.2.1 1.2.2.2 1.2.2.3 1.2.2.4 1.2.2.5 1.2.2.6 1.2.2.7 1.2.2.8 1.2.2.8.1 1.2.2.9 1.2.2.99 1.2.3.3 1.2.3.1 1.2.3.2 1.2.3.2.1 1.2.3.3 1.2.3.4 1.2.3.5 1.2.3.6 1.2.3.7 1.2.3.8	Steel works equipment Steel production equipment, furnaces, converters Converter steel works Continuous casting steel works  Automatic lines for casting production Electric steel production equipment Additives and alloying additions Special ceramics for continuous steel casting  Scrap treatment and processing equipment Hydraulic shears for scrap processing  Auxiliary equipment for steel works Steel works equipment – other  Rolling mill and drawing plant equipment Hot rolling mills Cold rolling mills Rolls for cold rolling  Blooming mill drives Conveyers for rolling mills Separating and cutting machines for metallurgical production Tube rolling and drawing mills Tube treatment machines and tube insulation	Machines an  1.3.1 1.3.1.2 1.3.1.3 1.3.1.4 1.3.1.5 1.3.1.6 1.3.1.7 1.3.1.8  1.3.1.9  1.3.2 1.3.2.1 1.3.2.2 1.3.2.3 1.3.2.4 1.3.2.5 1.3.2.6 1.3.2.7 1.3.2.8  1.3.3	Hot processing technologies Components and accessories of drying equipment for the ceramic and glass industries Firing kilns Firing tools Kiln burners and heating systems Kiln carriages and transport systems Refractory materials Monitoring and control instruments for firing technologies Technical equipment for the neutralization of environmentally undesirable substances Machines for hot processing technologies – other  Technologies for the ceramic industry – other Raw material dressing in the ceramic industry Mass preparation in the ceramic industry Technology for mass moulding in the ceramic industry Handling and transport technologies in the ceramic industry Surface treatment of ceramic industry products Machines and equipment for the processing of ceramics Saws and grinding, milling and drilling machines for ceramics Materials for the production of moulds in the ceramic industry Machines and equipment for the glass industry



### MINING, METALLURGICAL, CERAMIC AND GLASS ENGINEERING

1.3.3.4	Glass cooling technology
1.3.3.5	Special equipment and materials for the glass industry
1.3.3.6	Technologies for the glass industry – other
1.3.87	CAD, CAM, CIM for the glass and ceramic production
1.3.99	Machines and equipment for the ceramic and glass industry – other
1.4	Machines and equipment for powder metallurgy technologies

### MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING



Metallurgica	l semi-products and products of metals	2.1.10	Steel wires
		2.1.10.1	Corrosion-proof wires
2.1.1	Basic metallurgical semi-products		
2.1.1.1	Ingots	2.1.11	Rails
2.1.1.2	Billets	2,1,11	Nate
		Fauninas au	and marks
2.1.1.3	Blooms, slabs	Forgings, pro	
2.1.1.4	Continuous casts	2.2.1	Pressed, drawn and stamped parts
2.1.1.5	Slag		
		2.2.2	Open die forgings
2.1.2	Hot rolled steel	2.2.2.1	Open die forgings of steel
2.1.2.1	Hot extruded steel	2.2.2.2	Open die forgings of non-ferrous metals
		۷.۷.۷.۲	open die forgings of non-terrous metats
2.1.2.2	Bar steels and profiles		
		2.2.3	Drop forgings
2.1.3	Steel sheets	2.2.3.1	Drop forgings of steel
2.1.3.1	Hot rolled sheets	2.2.3.2	Drop forgings of non-ferrous metals
2.1.3.2	Cold rolled sheets		, 3 3
2.1.3.3	Zinc-coated steel sheets	2.2.4	Upset pieces
	Tinned steel sheets	2.2.5	· · · ·
2.1.3.4		2.2.5	Extruded pieces
2.1.3.5	Sheets, sections and strips of corrosion-proof steels		
2.1.3.6	Abrasion-resistant sheet metal	2.2.6	Metal pressed pieces
2.1.3.7	High-strength sheet metal	2.2.6.1	Cold pressed parts of sheet
2.1.3.8	Surface finished steel sheets	2.2.6.2	Hot pressed parts of sheet
2.1.3.9	Perforated steel sheets		, ,
2.1.3.10		2.2.99	Forgings, pressed parts – other
	Bands, strips	2.2.99	rorgings, pressed parts – other
2.1.3.11	Profiled sheets and strips		
2.1.3.12	Isotropic sheets and strips for electric engineering	2.4	Metal workpieces
2.1.3.13	Anisotropic sheets and strips for electric engineering	2.4.1	Fine metal workpieces
2.1.3.14	Steel foils	2.4.2	Turned, milled, drilled and threaded components
2.1.3.99	Steel sheets – other		ramed, miles, article and amedica components
2.1.3.99	Steet sileets – otilei	2.5	Cunstal alamanta, matal samt madusta
		2.5	Special elements – metal semi-products
2.1.4	Steel pipes, tubes, elbows, closed sections		
		Non-ferrous	metals and semi-products of non-ferrous metals
2.1.4.1	Seamless steel tubes and pipes	2.6.1	Non-ferrous metals and alloys
2.1.4.1.1	Seamless corrosion-proof tubes and pipes		·
	p	2.6.2	Semi-products of non-ferrous metals
2.1.4.2	Welded steel tubes and pipes	2.6.2.1	Semi-products of aluminium and aluminium alloys
2.1.4.2.1	Welded corrosion-proof tubes and pipes	2.6.2.1.1	Aluminium sheets, strips
		2.6.2.1.2	Aluminium foils
2.1.4.3	Centrifugally cast tubes and pipes	2.6.2.1.3	Aluminium pipes and rods
2.1.4.4	Thick-walled steel tubes and pipes	2.6.2.1.4	Aluminium wires
	, , , , , , , , , , , , , , , , , , ,	2.6.2.1.5	Aluminium sections
2.1.4.5	Thin-walled steel tubes and pipes	2.6.2.1.6	Aluminium foam
2.1.4.5.1	Precision thin-walled steel welded tubes and pipes	2.6.2.1.7	Aluminium bodies for central heating
2.1.4.5.2	Thin-walled corrosion-proof tubes		
		2.6.2.2	Sheets, rods, tubes and wires of copper
2.1.4.6	Surface finished tubes	2.6.2.3	Sheets, rods, tubes and wires of brass
2.1.4.7	Tube sleeves, couplings, elbows	2.6.2.4	Semi-products of bronze
2.1.4.99	Steel tubes and pipes – other	2.6.2.5	Semi-products of titanium
2.1.4.99	Steet tubes and pipes – other		•
		2.6.2.6	Semi-products of nickel alloys
2.1.5	Cold rolled steel	2.6.2.7	Semi-products of magnesium alloys
2.1.5.1	Cold extruded steel	2.6.2.8	Semi-products of lead alloys
2.1.5.2	Cold profiled steel	2.6.2.9	Semi-products of precious metals alloys
	· · · · · · · · · · · · · · · · · · ·		γ
2.1.6	Drawn steels	2.6.3	Thermal bimetals
		2.0.3	mermat binietats
2.1.6.1	Cold drawn steel		
2.1.6.2	Hot drawn steel	2.6.99	Non-ferrous metals and semi-products of non-ferrous
			metals – other
2.1.7	Forged steels		
	. 5. 954 51666	2.7	Metal powders and powder metallurgy products
2.1.0	High grade sheels	<b>L.</b> ,	rietat powders and powder metattargy products
2.1.8	High-grade steels		
2.1.8.1	Tool steels	2.8	Products of sintered carbides
2.1.8.2	High-speed steels	2.8.1	Sinter pressed pieces
2.1.8.3	Refractory steels		
2.1.8.4	Corrosion-proof steels	Some metal	elements and components for mechanical engineering
	·	Joine metat	eterienes and components for meetiameat engineering
2.1.8.5	High-alloy steels	201	Connecting materials
		2.9.1	Connecting materials
2.1.8.6	Special steels	2.9.1.1	Screws
2.1.8.6.1	Steels for low temperatures		
	•	2.9.1.2	Nuts
2.1.9	Peeled steel	2.9.1.2.1	Pressing and riveting nuts
<b></b>		,,	
		0040	Weekeye
		2.9.1.3	Washers



### MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING

W3V 2024			
2.9.1.4	Retaining rings	2.9.11.3	Armoured hose sets for product transport
2.9.1.5	Screws	2.9.11.5	Alliloured flose sets for product transport
2.9.1.6	Rivets	2.9.12	Chains
2.9.1.7	Bolts	2.9.13	Disk and other wheels
2.9.1.7	Clips	2.9.14	
2.9.1.8	•	2.9.14	Piston rings
2.9.1.99	Connecting materials – other		Distance rings
0.00	Familian	2.9.16	Pins
2.9.2	Forgings	2.9.17	Draw bars
2.9.3	Clamps / grips	2.9.18	Connecting rods
		2.9.19	Crankshafts
2.9.4	Springs		
2.9.4.1	Coiled springs	2.9.20	Absorbers
2.9.4.2	Telescopic springs	2.9.20.1	Hydraulic absorbers
2.9.4.3	Gas cylinders		
2.9.4.4	Polyurethane springs	2.9.99	Metal elements and components of general use – other
2.9.5	Expanded metal	Seals	
2.9.6	Gas struts	2.13.1	Metal seals
2.9.7	Wire products	2.13.2	Plastic seals
2.9.7.1	Wire nettings	2.13.2.1	Polymer-type sealing systems
2.9.7.2	Steel ropes		3 3, 3 3
	•	2.13.3	Rubber seals
2.9.7.3	Wire nets	2.13.4	Cork seals
2.9.7.3.1	Welded mesh / nets	2.13.5	Asbestos seals
2.5.7.5.1	wedea mesh / new	2.13.6	Asbestos-free seals
2.9.7.4	Wire fabrics	2.15.0	Assesses free seas
2.9.7.5	Bent wire components	2.13.7	Graphite seals
2.9.7.6	Brushes with steel wires	2.13.7.1	Graphite seats Graphite films and boards for sealing technology
2.9.7.99	Wire products – other	2.13.7.1	drapffice fittins and boards for seating technology
2.9.7.99	whe products – other	2.13.8	Shaped seals
200	Steel structures		Self-adhesive seals
2.9.8		2.13.9	
2.9.8.1	Components and structures (sub-supplies)	2.13.10	Shaft seal rings
2.9.8.2	Heavy structures (sub-supplies)	2.13.11	Flange seals
		2.13.12	Flat seals with metal reinforcements
2.9.8.3	Welded structures	2.13.13	Bearing seals
2.9.8.3.1	Welded pieces		
		2.13.14	Rotary seals
2.9.8.4	Poles	2.13.14.1	Seals for rotary shafts
2.9.8.4.1	Lighting towers		
		2.13.15	0-rings
2.9.8.5	Steel structures for waterworks (weirs, lock chambers)	2.13.16	Seal strips
2.9.8.6	Railway, road and pipeline steel bridges	2.13.17	Sealing cords
2.9.8.7	Steel containers, silos	2.13.18	Sealing sleeves
2.9.8.8	Steel gates, doors, barriers	2.13.19	Universal sealing systems
2.9.8.9	Steel pallets	2.13.99	Seals – other
2.9.8.10	Hot galvanized steel structures		
2.9.8.11	Assembly of steel structures	Glass and gla	ass products
2.9.8.99	Steel structures – other	2.14.1	Technical glass
		2.14.2	Optical glass, prisms, lenses
2.9.9	Tube structures	2.14.3	Illumination glass
2.9.9.1	Metal pipelines and tubes	2.14.4	Glass tubes
2.9.9.2	Fittings	2.14.5	Glass components for industry
2.9.9.2.1	Fittings for joining by pressing in		y
	·· 01	2.14.6	Glass fibres
2.9.9.3	Flanges for tube structures	2.14.6.1	Glass fibre products
2.9.9.4	Coils, corrugated pipes	2.11.0.1	dass have produces
2.9.9.99	Tube products – other	2.14.99	Glass products – other
2.3.3.33	Tube products – other	2.14.33	diass products – other
2.9.10	Apparatus, vessels, tanks	2.15	Porcelain and technical ceramics
	Steel bottles		
2.9.10.1	Sieer polities	2.15.1	Engineering ceramics
2 0 10 2	Droceure apparatus and vessels	2.15.2	Cutting ceramics
2.9.10.2	Pressure apparatus and vessels	2.15.3	Fibre-reinforced industrial ceramics
2.9.10.2.1	Pressure apparatuses and vessels	2.15.4	Ceramic fibres
2.9.10.2.2	Valves for pressure vessel safety	2.15.5	Ceramics for electronic components
0.0.46.5	N	2.15.6	Ceramic components
2.9.10.3	Non-pressure apparatuses and vessels	2.15.7	Porcelain components
2.9.10.4	Storage tanks	2.15.99	Technical ceramics – other
2.9.11	Metal hoses	2.16	Carbon components
2.9.11.1	Connecting and fixing elements of metal hoses		
2.9.11.2	Flexible hoses of high-grade steel		

### MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING



2.18	Technical fabrics	2.41.4.5	High-speed gearboxes
2.18.1	Fabric dilatation compensators	2.41.4.6	Gearboxes with stepless gear change
		2.41.4.7	High performance gearboxes
2.19	Ebonite products and semi-products	2.41.4.8	Gearboxes for lifting equipment
2.20	Paper products for industrial use	2.41.4.99	Mechanical gearboxes – other
2.21	Crystal-based products	2.41.5	Combined mechanical gearboxes
2.21.1	Sapphire products and semi-products	2.41.6	Hydraulic gearboxes
2.21.1	Sappline products and semi-products	2.41.7	Variable speed gearboxes
2.22	D		
2.22	Permanent magnets	2.41.8	Automatic gearboxes
		2.41.9	Turbogears
2.23	Marking devices for lettering and marking	2.41.10	Cam transmission mechanisms
2.23.1	Self-adhesive materials	2.41.11	Special gearboxes
2.23.2	Marking of industrial components by imprinting	2.41.99	Gears – other
2.24	Face labels	Clutches	
2.24.1	Aluminium, anodized and photolayer face labels	2.42.1	Components for clutches
2.24.2	Enamelled sheet metal plates and labels	2.42.2	Rigid clutches
	,	2.42.3	Flexible clutches
2.25	Covers, closures	2.42.4	Friction clutches
2.25.1	Folded covering bellows	2.42.5	Centrifugal clutches
2.25.2	Telescopic guards	2.42.6	Safety clutches
2.25.3	Roller guards	2.42.7	Controlled overload clutches
		2.42.8	Starting couplings
2.26	Modular systems for the manufacture of single-purpose	2.42.9	Idling couplings
	machines	2.42.10	Claw couplings
2.26.1	Cabins for machine operation	2.42.11	Hydraulic clutches and accessories
	the state of the s	2.42.12	Electromagnetic clutches
2.27	Work protection aids for industrial use	2.42.13	Shaft couplings
	•		, ,
2.28	Textile cleaning agents	2.42.14	Turboclutches
		2.42.15	Pneumatic clutches
2.29	Workshop equipment, industrial furniture	2.42.99	Clutches – other
2.29.1	Vaults		
2.29.2	Workbenches	Brakes and I	brake systems
2.29.3	Metal kit boxes	2.43.1	Brake accessories
2.29.4	Mats for industrial operation	2.43.2	Disk brakes
	·		
2.29.5	Ergonomic work chairs	2.43.3	Multi-plate brakes
		2.43.4	Drum brakes
2.30	Manufacture of prototypes, model design	2.43.5	Spring brakes
	(Rapid Prototyping)	2.43.6	Hydraulic brakes
2.30.1	Prototype production by means of stereolitography	2.43.7	Magnetic brakes
2.30.2	Prototype production by means of casting in silicon moulds	2.43.8	Eddy-current brakes
2.30.3	3D printers for prototyping	2.43.9	Safety brakes
	3D printers for prototyping		
2.50.5			· ·
		2.43.10	Electromagnetic brakes
	ntifriction bearings and their accessories	2.43.10 2.43.11	Electromagnetic brakes Brake systems
Sliding and an	ntifriction bearings and their accessories	2.43.10	Electromagnetic brakes
	ntifriction bearings and their accessories  Components and accessories of antifriction	2.43.10 2.43.11	Electromagnetic brakes Brake systems
Sliding and an	-	2.43.10 2.43.11	Electromagnetic brakes Brake systems
Sliding and an	Components and accessories of antifriction	2.43.10 2.43.11 2.43.99	Electromagnetic brakes Brake systems Brakes – other
Sliding and an	Components and accessories of antifriction bearings	2.43.10 2.43.11 2.43.99	Electromagnetic brakes Brake systems Brakes – other Final drives and accessories
Sliding and an	Components and accessories of antifriction bearings Bearing bodies	2.43.10 2.43.11 2.43.99 <b>2.44</b>	Electromagnetic brakes Brake systems Brakes – other Final drives and accessories
Sliding and an 2.40.1 2.40.1.1 2.40.2	Components and accessories of antifriction bearings Bearing bodies Sintered slide bearings	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices
Sliding and an 2.40.1 2.40.1.1 2.40.2 2.40.3	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1 2.45.2	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices
Sliding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1 2.45.2 2.45.3	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology
Sliding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1 2.45.2 2.45.3 2.45.4	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology
Stiding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1 2.45.2 2.45.3	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology
Stiding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1 2.45.2 2.45.3 2.45.4	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other
Stiding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1 2.45.2 2.45.3 2.45.4	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology
2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings	2.43.10 2.43.11 2.43.99 2.44 Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears
2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99 <b>2.87</b>	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears
Sliding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings	2.43.10 2.43.11 2.43.99 2.44 Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field
Stiding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99 <b>2.87</b>	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears
Stiding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11 2.40.12	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99 <b>2.87</b> <b>2.88</b> <b>2.89</b>	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears
Stiding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings	2.43.10 2.43.11 2.43.99 2.44 Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99 2.87 2.88 2.89	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears Service and repairs of bearings and gears
Sliding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11 2.40.12	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices	2.43.10 2.43.11 2.43.99 <b>2.44</b> <b>Lubrication</b> 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99 <b>2.87</b> <b>2.88</b> <b>2.89</b>	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears Service and repairs of bearings and gears Diagnostics of bearings and gears
Sliding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11 2.40.12	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices	2.43.10 2.43.11 2.43.99 2.44 Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99 2.87 2.88 2.89	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears Service and repairs of bearings and gears
Stiding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11 2.40.12 2.40.99	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices	2.43.10 2.43.11 2.43.99 2.44  Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99  2.87 2.88 2.89  2.90 2.90.1	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears Service and repairs of bearings and gears Diagnostics of bearings and gears
Stiding and an 2.40.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11 2.40.12 2.40.99 Gears 2.41.1	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices Bearings – other	2.43.10 2.43.11 2.43.99 2.44  Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99  2.87 2.88 2.89  2.90 2.90.1 2.90.2	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears  Service and repairs of bearings and gears Diagnostics of bearings and gears Spare parts for bearings and gears Reconstruction and refurbishment of bearings,
Sliding and an 2.40.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11 2.40.12 2.40.99 Gears 2.41.1 2.41.2	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices Bearings – other  Components for gears Gear wheels for gearings	2.43.10 2.43.11 2.43.99 2.44  Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99  2.87 2.88 2.89  2.90 2.90.1 2.90.2	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears  Service and repairs of bearings and gears Diagnostics of bearings and gears Spare parts for bearings and gears
Sliding and an 2.40.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11 2.40.12 2.40.99 Gears 2.41.1	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices Bearings – other	2.43.10 2.43.11 2.43.99  2.44  Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99  2.87 2.88 2.89  2.90 2.90.1 2.90.2 2.90.3	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears  Service and repairs of bearings and gears Diagnostics of bearings and gears Spare parts for bearings and gears Reconstruction and refurbishment of bearings, gears and couplings
2.40.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.10 2.40.11 2.40.12 2.40.99  Gears 2.41.1 2.41.2 2.41.3	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices Bearings – other  Components for gears Gear wheels for gearings Gear rods – ridges	2.43.10 2.43.11 2.43.99  2.44  Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99  2.87 2.88 2.89  2.90 2.90.1 2.90.2 2.90.3	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears  Service and repairs of bearings and gears Diagnostics of bearings and gears Spare parts for bearings and gears Reconstruction and refurbishment of bearings, gears and couplings  Assembly of machines and equipment
Sliding and an 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.10 2.40.11 2.40.12 2.40.99 Gears 2.41.1 2.41.2 2.41.3 Mechanical ge	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices Bearings – other  Components for gears Gear wheels for gearings Gear rods – ridges	2.43.10 2.43.11 2.43.99  2.44  Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99  2.87 2.88 2.89  2.90 2.90.1 2.90.2 2.90.3	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears  Service and repairs of bearings and gears Diagnostics of bearings and gears Spare parts for bearings and gears Reconstruction and refurbishment of bearings, gears and couplings  Assembly of machines and equipment Engineering of the assembly, servicing and repairs
2.40.1 2.40.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11 2.40.12 2.40.99  Gears 2.41.1 2.41.2 2.41.3  Mechanical geans 2.41.4.1	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices Bearings – other  Components for gears Gear wheels for gearings Gear rods – ridges  Barboxes Gearboxes with spur gear wheels	2.43.10 2.43.11 2.43.99  2.44  Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99  2.87 2.88 2.89  2.90 2.90.1 2.90.2 2.90.3	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears  Service and repairs of bearings and gears Diagnostics of bearings and gears Spare parts for bearings and gears Reconstruction and refurbishment of bearings, gears and couplings  Assembly of machines and equipment
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2.40.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6 2.40.7 2.40.8 2.40.9 2.40.10 2.40.11 2.40.12 2.40.99  Gears 2.41.1 2.41.2 2.41.3  Mechanical geans 2.41.4.1 2.41.4.2	Components and accessories of antifriction bearings Bearing bodies  Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings Antifriction spherical-roller bearings Sliding bearings Self-lubricating bearings Special bearings Bearing lubrication devices Bearings – other  Components for gears Gear wheels for gearings Gear rods – ridges  Barboxes Gearboxes with spur gear wheels Gearboxes with bevel gear wheels	2.43.10 2.43.11 2.43.99 2.44 Lubrication 2.45.1 2.45.2 2.45.3 2.45.4 2.45.99 2.87 2.88 2.89 2.90 2.90.1 2.90.2 2.90.3	Electromagnetic brakes Brake systems Brakes – other  Final drives and accessories  technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology Lubrication technology – other  CAD, CAM, CIM for bearings and gears Consultancy for bearings and gears Engineering and design services in the field of production of bearings and gears  Service and repairs of bearings and gears Diagnostics of bearings and gears Spare parts for bearings and gears Reconstruction and refurbishment of bearings, gears and couplings  Assembly of machines and equipment Engineering of the assembly, servicing and repairs



### DRIVES, HYDRAULICS AND PNEUMATICS, COOLING TECHNOLOGY AND AIR-CONDITIONING

Drives		3.10.11.4	Hydraulic hose terminals
3.1.1	Converters for drives	3.10.12	Hydraulic flow distributors
3.1.1	Converters for drives		· ·
2.4.0	Detetional alastria materia	3.10.13	Hydraulic filters
3.1.2	Rotational electric motors	3.10.14 3.10.15	Pumps for hydraulics Hydraulic fans
3.1.2.1	Electric motors with integrated gear box		,
		3.10.16	Pressure gauges for hydraulics
3.1.3	Stepping motors	3.10.17	Hydraulic control systems
3.1.4	Linear motors	3.10.18	Tests of hydraulic elements
3.1.5	Hydraulic devices for drives	3.10.19	Educational systems for hydraulics
3.1.6	Pneumatic equipment for drives	3.10.20	Hydraulic and telescopic cylinders
		3.10.21	Hydraulics – proportional technology
3.2	Linear moving units	3.10.22	Manufacture of hydraulic sets and systems on request
		3.10.99	Hydraulic elements – other
3.2.1	Linear drives and feeds		
3.2.1.1	Linear quides	3.15	Fans and compressors for air-condition equipment
3.2.1.2	Ball screws		
3.3	Adjustable systems	Compressors	s and industrial vacuum pumps
	<b>-</b>	3.20.1	Components for compressors and vacuum pumps
Belt and cha	in drives	3.20.2	Piston compressors
	<del></del>	3.20.3	Rotary compressors
3.4.1	Accessories of belt and chain drives		•
3.4.1.1	Pulley blocks	3.20.4	Screw compressors
	3	3.20.4.1	Oil-lubricated screw compressors
3.4.1.2	Indented belts	3.20.4.2	Oil-free screw compressors
3.4.1.3	V-belts		,
3.4.1.4	Flat belts	3.20.5	Diaphragm compressors
		3.20.6	High-pressure compressors
3.4.1.5	Driving chains	3.20.7	Turbo-compressors
3.4.1.5.1	Roller chains	3.20.8	Mobile compressors
3.4.1.5.2	Sleeve-type chains	3.20.9	Compressors for cooling equipment
		3.20.10	Oil-free air compressors
3.4.1.6	Chain wheels	3.20.11	Lubricated air compressors
		3.20.12	Compressors for technical gases
3.5	Shafts for drives	3.20.13	Industrial vacuum pumps
	5.10.10.10.10.10.10.10.10.10.10.10.10.10.	3.20.14	Booster compressors
3.5.1	Propeller shaft	3.20.15	Hydro-pneumatic accumulators
3.5.1.1	Cardan joints	3.20.16	Blowers
	•	3.20.17	Equipment for the drying, treatment and filtration
3.5.1.2	Homokinetic joints		of compressed gas
	EL 111 L 0	3.20.18	Condensate cleaners for oil compressors
3.5.2	Flexible shafts	3.20.19	Control devices for compressors
		3.20.99	Compressors and industrial vacuum pumps – other
3.6	High frequency spindles		
Hydraulic ele	ements and systems	Pneumatic e	······································
<b>3</b>		3.21.1	Components for pneumatic elements and devices
3.10.1	Components of hydraulic elements	3.21.2	Pneumatic motors
3.10.1.1	Hydraulic valves	3.21.3	Air pressure and flow control elements
3.10.1.1	Seals for hydraulics	3.21.4	Pneumatic pressure valves
	<b>3</b>	3.21.5	Pneumatic closing valves
3.10.1.3	Connecting elements for hydraulics	3.21.6	Pneumatic flow valves
3.10.1.4	Hydraulic heads	3.21.7	Rapid vent valves
		3.21.8	Pneumatic safety valves
3.10.2	Hydraulic generators	3.21.9	Pneumatic control, throttle valves
		3.21.10	Pneumatic special valves
3.10.3	Hydraulic motors	3.21.11	Pneumatic working units
3.10.3.1	High-torque low-speed hydraulic motors	3.21.12	Pressure converters
3.10.3.2	Hydrodynamic torque converters	3.21.12	Air treatment devices
3.10.3.3	Hydrodynamic couplings	3.21.14	Pneumatic distributors
3.10.3.4	Hydrodynamic retarders		
	<b>J</b>	3.21.15	Pneumatic cleaners and separators
3.10.4	Hydraulic turbines	3.21.16	Pneumatic filters
3.10.5	Hydraulic sets	3.21.17	Pneumatic gearboxes
3.10.5	Hydrostatic gearboxes	3.21.18	Pneumatic clutches
	Hydraulic clutches	3.21.19	Pneumatic control systems
3.10.7	•	3.21.20	Pneumatic cylinders
3.10.8	Hydraulic control elements	3.21.21	Micro-pneumatic components and systems
3.10.9	Hydraulic pressure switches	3.21.99	Pneumatic elements – other
3.10.10	Hydraulic liquid tanks		
		Cooling and	freezing equipment for industry
3.10.11	Hydraulic hoses with union nuts	3.22.1	Small cooling machines and equipment
3.10.11.1	Low-pressure hydraulic hoses	3.22.2	Freezing equipment for skating rings
3.10.11.2	High-pressure hydraulic hoses	3.22.3	Flake ice machines
3.10.11.3	Hose clamps for hydraulics	3.22.4	Special cooling and freezing equipment
	• •	3.22.4	special cooling and neezing equipment

### DRIVES, HYDRAULICS AND PNEUMATICS, COOLING TECHNOLOGY AND AIR-CONDITIONING



3.22.5	Industrial fluid coolers	3.32	Jets, nozzles
3.22.6	Evaporating condensers	3.32.1	Air nozzles
3.22.7	Cooling towers	3.32.2	Nozzles for liquids
3.22.8	Control and regulation instruments for cooling equipment	3.32.3	Low pressure jets
3.22.9	Components and accessories of cooling equipment	3.32.4	High pressure jets
3.22.99	Cooling and freezing equipment for industry – other	_	
		Pumps	
3.23	Driers	3.40.1	Components and accessories for pumps
		3.40.2	Pumps for nuclear power engineering
Industrial fitt	angs	3.40.3	Pumps for classical power engineering
2 20 4	Campananta and accessing for Ettings	3.40.4	Pumps for high pressures and temperatures
3.30.1	Components and accessories for fittings	3.40.5	Pumps for chemical engineering
3.30.1.1	Actuators for fittings and valves	3.40.5.1	Pumps for acids and lyes
3.30.1.1.1	Electric actuators for fittings and valves	3.40.5.2	Petrochemical pumps
3.30.1.1.2	Pneumatic actuators for fittings and valves	3.40.5.3	Pumps for flammable and explosive materials
3.30.1.1.3	Hydraulic actuators for fittings and valves	3.40.5.4	Ammonia pumps for cooling circuits
3.30.1.1.4	Manual actuators for fittings and valves		
	<b>3</b>	3.40.6	Pumps for the food industry
3.30.1.2	Hardware and software for the control of fittings	3.40.6.1	Pumps for thin flowing materials
		3.40.6.2	Pumps for sugar factories
3.30.2	Hydraulic valves		
3.30.3	Closing and check valves	3.40.7	Pumps for mines
3.30.4	Safety valves	3.40.8	Sludge pumps
3.30.5	Control valves	3.40.9	Pumps for mechanical engineering
3.30.6	Pressure reducing valves	3.40.10	Pumps for water management
3.30.7	Control servovalves	3.40.11	Drainage pumps
3.30.8	Electromagnetic valves	3.40.12	Waste water pumps
3.30.9	Thermostatic valves	3.40.13	Waste water pumping cranes
3.30.10	Ball cocks	3.40.14	Pumps for agriculture
3.30.11	Cocks – other	3.40.15	Irrigation technology
3.30.12	Gate valves	3.40.16	Potable water pumps
3.30.13	Flaps	3.40.17	Industrial pumps
3.30.13.1	Non-return flap valves	3.40.17.1	Pumps for the textile industry
3.30.13.2	Closing flaps	3.40.17.1	Pumps for cement production
3.30.13.3	Control flaps	3.40.17.2	Pumps for the paper industry
3.30.13.3	control naps	3.40.17.4	Oil pumps for industrial equipment
	The state of the s		a character and the house
3.30.14	Fittings for the chemical industry		
3.30.14 3.30.15	Fittings for the chemical industry Fittings for power engineering	3.40.18	Pumps for small-scale consumers
	Fittings for power engineering Fittings for vacuum technology	<b>3.40.18</b> 3.40.18.1	Plastic pumps
3.30.15	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials		Plastic pumps Hose pumps
3.30.15 3.30.16	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials	3.40.18.1 3.40.18.2 3.40.18.3	Plastic pumps Hose pumps Manual pumps
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials	3.40.18.1 3.40.18.2	Plastic pumps Hose pumps
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4	Plastic pumps Hose pumps Manual pumps Barrel pumps
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.22 3.30.23	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases Submersible pumps
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23 3.40.23.1	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases Submersible pumps Submersible pumps Controlled volume pumps
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps Submersible pumps Submersible pumps Self-priming pumps
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases Submersible pumps Submersible pumps Submersible pumps Submersible pumps Heating-system pumps
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps Submersible pumps Submersible pumps Self-priming pumps
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.20 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps Submersible pumps Self-priming pumps Heating-system pumps Pumps – other
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases Submersible pumps Submersible pumps Submersible pumps Submersible pumps Heating-system pumps
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99 Industrial pip	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  setines, tanks  Components for pipelines	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99 3.50	Plastic pumps Hose pumps Manual pumps Barrel pumps  High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps for borings  Controlled volume pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99 Industrial pip	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  Selines, tanks  Components for pipelines Flanges	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.20 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps Submersible pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices  CAD, CAM, CIM for drives, hydraulics, air-conditioning
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.29 Industrial pip 3.31.1 3.31.1.1 3.31.1.2 3.31.1.3	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coache fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  Teclines, tanks  Components for pipelines Flanges Shaped pieces Elbows T-pieces	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99 3.50	Plastic pumps Hose pumps Manual pumps Barrel pumps  High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps for borings  Controlled volume pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.29 Industrial pip	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  Teclines, tanks  Components for pipelines Flanges Shaped pieces Elbows	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99 3.50	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases Submersible pumps Submersible pumps Submersible pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices  CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99  Industrial pip  3.31.1 3.31.1.1 3.31.1.2 3.31.1.3 3.31.1.4 3.31.1.5	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other   **Relines**, tanks**  Components for pipelines Flanges Shaped pieces Elbows T-pieces Blinders	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99 3.50	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases Submersible pumps Submersible pumps Submersible pumps Submersible pumps Ferriming pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices  CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology Consultancy on drives, hydraulics, air-conditioning
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99  Industrial pip  3.31.1 3.31.1.1 3.31.1.2 3.31.1.3 3.31.1.4 3.31.1.5	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  setines, tanks  Components for pipelines Flanges Shaped pieces Elbows T-pieces Blinders  Shock absorbers for pipelines	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99 3.50 3.77 3.78	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases Submersible pumps Submersible pumps Submersible pumps Submersible pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices  CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology Consultancy on drives, hydraulics, air-conditioning and compressor technology
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99  Industrial pip  3.31.1 3.31.1.1 3.31.1.2 3.31.1.3 3.31.1.4 3.31.1.5	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for thin flowing materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  melines, tanks  Components for pipelines Flanges Shaped pieces Elbows T-pieces Blinders  Shock absorbers for pipelines Pipeline seating and suspensions	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99 3.50 3.77 3.78 3.78	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps Submersible pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices  CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology Consultancy on drives, hydraulics, air-conditioning and compressor technology Engineering and design of drives, hydraulics, air-conditioning and compression technology
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99  Industrial pip  3.31.1 3.31.1.1 3.31.1.2 3.31.1.3 3.31.1.4 3.31.1.5	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  selines, tanks  Components for pipelines Flanges Shaped pieces Elbows T-pieces Blinders  Shock absorbers for pipelines Pipeline seating and suspensions Centre drilling and ballooning sets for pipelines	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99 3.50 3.77 3.78	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps Submersible pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices  CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology Consultancy on drives, hydraulics, air-conditioning and compressor technology Engineering and design of drives, hydraulics, air-conditioning and compression technology  Service and repairs of drives, hydraulics, compressor
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99  Industrial pip  3.31.1 3.31.1.1 3.31.1.2 3.31.1.3 3.31.1.4 3.31.1.5	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  selines, tanks  Components for pipelines Flanges Shaped pieces Elbows T-pieces Blinders  Shock absorbers for pipelines Pipeline seating and suspensions Centre drilling and ballooning sets for pipelines Chemical and physical effect resistant lined pipelines	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99 3.50 3.77 3.78 3.79 3.80	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps Submersible pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices  CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology Consultancy on drives, hydraulics, air-conditioning and compressor technology Engineering and design of drives, hydraulics, air-conditioning and compressor technology  Service and repairs of drives, hydraulics, compressor technology, air-conditioning and cooling devices
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99  Industrial pip  3.31.1 3.31.1.1 3.31.1.2 3.31.1.3 3.31.1.4 3.31.1.5	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  setines, tanks  Components for pipelines Flanges Shaped pieces Elbows T-pieces Blinders  Shock absorbers for pipelines Pipeline seating and suspensions Centre drilling and ballooning sets for pipelines Chemical and physical effect resistant lined pipelines Pipelines with continual indication of leakage	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99 3.50 3.77 3.78 3.78	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps Submersible pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices  CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology Consultancy on drives, hydraulics, air-conditioning and compressor technology Engineering and design of drives, hydraulics, air-conditioning and compressor technology  Service and repairs of drives, hydraulics, compressor technology, air-conditioning and cooling devices Refurbished drives, hydraulic systems, HVAC and cooling units,
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99  Industrial pip  3.31.1 3.31.1.1 3.31.1.2 3.31.3 3.31.1.4 3.31.1.5  3.31.6	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for thin flowing materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  setines, tanks  Components for pipelines Flanges Shaped pieces Elbows T-pieces Blinders  Shock absorbers for pipelines Pipeline seating and suspensions Centre drilling and ballooning sets for pipelines Chemical and physical effect resistant lined pipelines Pipelines with continual indication of leakage of transported materials	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23.1 3.40.25 3.40.25 3.40.99 3.50 3.77 3.78 3.79 3.80	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps Submersible pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices  CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology Consultancy on drives, hydraulics, air-conditioning and compressor technology Engineering and design of drives, hydraulics, air-conditioning and compressor technology  Service and repairs of drives, hydraulics, compressor technology, air-conditioning and cooling devices  Refurbished drives, hydraulic systems, HVAC and cooling units, driers
3.30.15 3.30.16 3.30.17 3.30.18 3.30.19 3.30.20 3.30.21 3.30.22 3.30.23 3.30.24 3.30.25 3.30.26 3.30.27 3.30.28 3.30.99  Industrial pip  3.31.1 3.31.1.1 3.31.1.2 3.31.1.3 3.31.1.4 3.31.1.5	Fittings for power engineering Fittings for vacuum technology Fittings for aggressive materials Fittings for abrasive materials Fittings for flammable and explosive materials Fittings for thin flowing materials Fittings for waste and sludge water Fittings for long distance water distributions Plastic fittings Plastic coated fittings Corrosion-proof fittings Coaxial fittings Mixing fittings Special fittings Industrial fittings – other  setines, tanks  Components for pipelines Flanges Shaped pieces Elbows T-pieces Blinders  Shock absorbers for pipelines Pipeline seating and suspensions Centre drilling and ballooning sets for pipelines Chemical and physical effect resistant lined pipelines Pipelines with continual indication of leakage	3.40.18.1 3.40.18.2 3.40.18.3 3.40.18.4 3.40.19 3.40.20 3.40.21 3.40.22 3.40.23 3.40.23 3.40.23.1 3.40.24 3.40.25 3.40.26 3.40.99 3.50 3.77 3.78 3.79 3.80	Plastic pumps Hose pumps Manual pumps Barrel pumps High-pressure pumps Pumps for solid materials Pumps for abrasive materials Pumps for fluid gases  Submersible pumps Submersible pumps Submersible pumps Self-priming pumps Heating-system pumps Pumps – other  Diluting devices  CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology Consultancy on drives, hydraulics, air-conditioning and compressor technology Engineering and design of drives, hydraulics, air-conditioning and compressor technology  Service and repairs of drives, hydraulics, compressor technology, air-conditioning and cooling devices Refurbished drives, hydraulic systems, HVAC and cooling units,

MSV 2024	DRIVES, HYDRAULICS AND PNEUMATICS, COOLING TECHNOLOGY AND AIR-CONDITIONING
3.80.3	Reconstruction and upgrading of drives, air-conditioning and compressor equipment hydraulics
3.81	Re-worked drives, hydraulic systems, HVAC and cooling units, driers
3.82	Technology for drives, hydraulics, air-conditioning, cooling equipment and driers
3.83	Implementation of complete air conditioning, cooling equipment and driers plants
3.90	CAD, CAM, CIM for fittings, pumps, water management and irrigation technology
3.99	Water management equipment and irrigation

technology - other

### POWER ENGINEERING AND HEAVY-CURRENT ELECTRICAL ENGINEERING



Conventions	l and nuclear power engineering, heating plants	6.7.3	Petrol engines
Conventiona	it and nuclear power engineering, nearing plants	6.7.4	Double-fuel motors
Primary cour	rces for the power industry	6.7.5	Gas engines
6.1.1	Brown coal	6.7.99	Combustion engines – other
6.1.2	Bituminous coal	0.7.55	combastion engines other
6.1.3	Briquettes	6.8	Electric power sets (motor-generator back-up sources)
6.1.4	Coke		
6.1.5	Natural gas	6.9	Equipment for utilization of thermal power from thermal engines
6.1.6	Fuel oils		and turbines
6.1.7	Fuel cells for nuclear power plants	6.9.1	Cogeneration units
6.1.99	Primary sources for the power industry – other		
		6.10	Information and control technologies for the power industry
Industrial bo	pilers and their accessories		•
6.2.1	Components and accessories of industrial boilers	6.11	Equipment for sulphur and NOx reduction in flue gases
6.2.2	Industrial boilers	6.12	Auxiliary power plant equipment
6.2.3	Industrial steam boilers	6.13	Water treatment plants in power stations
6.2.4	Steam generators	6.14	Steam turbine condensers
6.2.5	Tanks and pipelines for industrial boilers	6.15	Steam condensate separators
6.2.6	Boiler burners	6.16	Equipment for electrical power distribution
Equipment f	or heat energy generation	6.17	Gas industry equipment
6.3.1	Components of equipment for heat energy generation	6.17.1	Gas regulating, measuring and safety fittings
		6.17.2	Compressors and turbo-compressors designed for natural gas
6.3.2	Furnaces		treatment and gas distribution systems
6.3.2.1	Grate furnaces	6.17.3	Gas regulation station
6.3.2.2	Dry pulverized coal furnaces		
6.3.2.3	Fluidizing furnaces	6.18	Equipment for thermal power distribution
		6.19	Heat insulating materials for power equipment
6.3.3	Equipment for chemical water treatment in the power		
	industry	6.20	Heating equipment
6.3.4	Equipment for thermal water treatment in the power industry	6.20.1	Components for heating equipment
6.3.5	Feed water preheaters	6.20.2	Heating components
6.3.6	Gas preheaters	6.20.3	Gas radiant heating for industrial applications
6.3.7	Boiler plants		
6.3.8	Heating plants	6.21	Recuperation units, recuperators
6.3.9	Waste incinerating plants	6.22	Equipment, systems and aids for provision of safety in nuclear
6 2 40	Fush and an analysis and the same	C 02	plants
6.3.10	Exchangers, exchanger stations	6.23	plants CAD, CAM, CIM in the power industry
6.3.10.1	Heat exchangers	6.24	plants  CAD, CAM, CIM in the power industry  Consultancy in the power industry
			plants  CAD, CAM, CIM in the power industry  Consultancy in the power industry  Engineering and design services in the field of power industry
6.3.10.1 6.3.10.2	Heat exchangers Exchanger stations	6.24	plants  CAD, CAM, CIM in the power industry  Consultancy in the power industry
6.3.10.1	Heat exchangers	6.24 6.25	plants  CAD, CAM, CIM in the power industry  Consultancy in the power industry  Engineering and design services in the field of power industry  equipment
6.3.10.1 6.3.10.2 <b>6.3.11</b>	Heat exchangers Exchanger stations  Machines and equipment for fuel handling	6.24 6.25 6.26	plants  CAD, CAM, CIM in the power industry  Consultancy in the power industry  Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment
6.3.10.1 6.3.10.2	Heat exchangers Exchanger stations	6.24 6.25 6.26 6.26.1	plants CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment Service and repairs of power industry equipment Diagnostics of power industry equipment
6.3.10.1 6.3.10.2 6.3.11 6.3.99	Heat exchangers Exchanger stations  Machines and equipment for fuel handling	6.24 6.25 6.26 6.26.1 6.26.2	plants CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment Service and repairs of power industry equipment Diagnostics of power industry equipment Spare parts for power industry equipment and machines
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other	6.24 6.25 6.26 6.26.1	plants CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment Service and repairs of power industry equipment Diagnostics of power industry equipment
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3	plants CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines	6.24 6.25 6.26 6.26.1 6.26.2	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.99	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.99 Complete poo	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other  wer plants	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30 6.30.1	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and heating plants
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.99 Complete por	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other  wer plants Steam power plants	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and heating plants Technology supplies for classic and nuclear power industry
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6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.1 6.5.99 Complete por 6.6.1 6.6.2	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other  wer plants Steam power plants Combined systems: power and district heating plant	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30 6.30.1 6.30.2 6.30.3	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and heating plants Technology supplies for classic and nuclear power industry and heating plants
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6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.99 Complete por 6.6.1 6.6.2 6.6.3 6.6.3.1	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other  wer plants Steam power plants Combined systems: power and district heating plant  Thermal power plants Thermal power plants Thermal power plants firing solid fuels	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30 6.30.1 6.30.2 6.30.3	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and heating plants Technology supplies for classic and nuclear power industry and heating plants  Execution of investment projects for classic and nuclear power industry and district heating plants
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.99 Complete por 6.6.1 6.6.2 6.6.3 6.6.3.1 6.6.3.2	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other  wer plants Steam power plants Combined systems: power and district heating plant  Thermal power plants Thermal power plants firing solid fuels Thermal power plants firing liquid fuels	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30 6.30.1 6.30.2 6.30.3	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and heating plants Technology supplies for classic and nuclear power industry and heating plants  Execution of investment projects for classic and nuclear power industry and district heating plants Manufacturers of electric power, gas and heat
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.99 Complete por 6.6.1 6.6.2 6.6.3 6.6.3.1 6.6.3.2 6.6.3.3	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other  wer plants Steam power plants Combined systems: power and district heating plant  Thermal power plants Thermal power plants firing solid fuels Thermal power plants firing gas	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30 6.30.1 6.30.2 6.30.3	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and heating plants Technology supplies for classic and nuclear power industry and heating plants  Execution of investment projects for classic and nuclear power industry and district heating plants Manufacturers of electric power, gas and heat Distributors of electric power, gas and heat
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6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.99 Complete por 6.6.1 6.6.2 6.6.3 6.6.3.1 6.6.3.2 6.6.3.3 6.6.3.4 6.6.3.5	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other  wer plants Steam power plants Combined systems: power and district heating plant  Thermal power plants firing solid fuels Thermal power plants firing gas Combined cycle power plants Thermal power plants Thermal power plants firing gas Combined cycle power plants Thermal power plants	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30 6.30.1 6.30.2 6.30.3	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and heating plants Technology supplies for classic and nuclear power industry and heating plants  Execution of investment projects for classic and nuclear power industry and district heating plants Manufacturers of electric power, gas and heat Distributors of electric power, gas and heat
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.99 Complete por 6.6.1 6.6.2 6.6.3 6.6.3.1 6.6.3.2 6.6.3.3 6.6.3.4	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other  wer plants Steam power plants Combined systems: power and district heating plant  Thermal power plants Thermal power plants firing solid fuels Thermal power plants firing gas Combined cycle power plants	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30 6.30.1 6.30.2 6.30.3 6.31 6.32 6.33 6.34	can, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and heating plants Technology supplies for classic and nuclear power industry and heating plants  Execution of investment projects for classic and nuclear power industry and district heating plants Manufacturers of electric power, gas and heat Distributors of electric power, gas and heat Classical and nuclear power industry and heating plants – other
6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.99 Complete por 6.6.1 6.6.2 6.6.3 6.6.3.1 6.6.3.2 6.6.3.3 6.6.3.4 6.6.3.5 6.6.3.6	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other  wer plants Steam power plants Combined systems: power and district heating plant  Thermal power plants firing solid fuels Thermal power plants firing liquid fuels Thermal power plants firing gas Combined cycle power plants Thermal power plants Thermal power plants incineration plants Nuclear power plants	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30 6.30.1 6.30.2 6.30.3 6.31 6.32 6.33 6.34	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and heating plants Technology supplies for classic and nuclear power industry and heating plants  Execution of investment projects for classic and nuclear power industry and district heating plants  Manufacturers of electric power, gas and heat Distributors of electric power, gas and heat Classical and nuclear power industry and heating plants – other
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6.3.10.1 6.3.10.2 6.3.11 6.3.99 Turbines 6.4.1 6.4.2 6.4.3 6.4.4 6.4.5 6.4.99 6.5. 6.5.1 6.5.99 Complete por 6.6.1 6.6.2 6.6.3 6.6.3.1 6.6.3.2 6.6.3.3 6.6.3.4 6.6.3.5 6.6.3.5	Heat exchangers Exchanger stations  Machines and equipment for fuel handling  Equipment for thermal energy generation – other  Components and accessories of turbines Steam turbines Expansion turbines Combustion turbines Gas turbines Turbines – other  Nuclear technology Components of nuclear equipment Nuclear technology – other  wer plants Steam power plants Combined systems: power and district heating plant  Thermal power plants firing solid fuels Thermal power plants firing liquid fuels Thermal power plants firing gas Combined cycle power plants Thermal power plants Thermal power plants incineration plants Nuclear power plants	6.24 6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30 6.30.1 6.30.2 6.30.3 6.31 6.32 6.33 6.34	plants  CAD, CAM, CIM in the power industry Consultancy in the power industry Engineering and design services in the field of power industry equipment  Service and repairs of power industry equipment  Diagnostics of power industry equipment Spare parts for power industry equipment and machines Turn-key general repairs of power industry equipment  Refurbishment and modernization of power industry equipment Civil and erection works for power industry Oil tank cleaning  Technology for classic and nuclear power industry and heating plants Technological projects for classic and nuclear power industry and heating plants Transfer of technologies for classic and nuclear power industry and heating plants Technology supplies for classic and nuclear power industry and heating plants  Execution of investment projects for classic and nuclear power industry and district heating plants  Manufacturers of electric power, gas and heat Distributors of electric power, gas and heat Classical and nuclear power industry and heating plants – other



### POWER ENGINEERING AND HEAVY-CURRENT ELECTRICAL ENGINEERING

6.25.2	Diaman Condition of the Condition of the	6440	Florence
	Biomass fired boiler plants, heating plants Solar heating systems	6.44.2 6.44.3	Fluorescent tubes Discharge lamps
	Photovoltaic electric power sources	0.44.3	Discharge lamps
	Hydro-electric power plants	6.44.99	Electric light sources – other
	Wind power plants and their accessories		
	Heat pumps and their accessories	Lighting fitting	S
6.35.9	Power industry equipment for biogas utilization	6.45.1	Outdoor lighting fittings
6.35.10	Equipment and accessories for geothermal energy utilization	6.45.2	Lighting fittings for dangerous and demanding
	Waste heat utilization, recovery		environments
6.35.12	Biofuels	6.45.3	Searchlights and headlights
6.35.13	Hybrid drives	6.45.99	Lighting fittings – other
6.35.14	Fuel cells using hydrogen, natural gas, alcohol for power generation	Transducers re	ctifiers and other electrotechnical elements
6.35.15	Electrical power distribution grids of Smart Grids type	ilalisuuceis, lei	ctiners and other electrotecrifficat elements
	Services, consultancy, financing in alternative power sources	6.47.1	Heavy-current power electronics (diodes, transistors,
	field		thyristors)
6.35.17	Institutions focused on renewable power sources field		,
6.35.99	Alternative power sources – other		Accessories of transducers, rectifiers, switches
		6.47.2.1	Transducers
	ries, in CO2 emissions	6.47.2.2	Rectifiers
	Trading in energies	6.47.2.3	Stabilizers
6.36.2	Trading in CO <sub>2</sub> emissions	6.47.2.4	Current inverters
Heavy-current a	electrical engineering	6.47.2.5 6.47.2.6	Electric current converters Frequency converters
ricavy carrent c	accertate engineering	6.47.2.7	DC voltage converters
Cables and cond	luctors	6.47.2.8	Electric current switches and controllers
6.40.1	High and very high voltage cables	01171210	2.000.10 out one smeeting and controllers
6.40.2	Power cables	6.48	Uninterruptible power supplies
6.40.3	Flame retarding cables		
6.40.4	Earth cables	Electric current	switchboards
	Self-supporting cables	6.49.1	Parts of switchboards
6.40.6	Flexible cables for machine control	6.49.2	LV switchboards
6.40.7	Connecting cables for instruments	6.49.3	HV switchboards
6.40.8 6.40.9	Cable couplers, eyes Cable connectors	6.49.4	Compensation switchboards I+C switchboards
6.40.10	Cable terminals	6.49.5 6.49.6	Cable switching cabinets
	Heavy current installation lines	6.49.7	Universal switchgear cubicles
6.40.12	Leads for electrotechnical windings	6.49.8	Switchboards to order
6.40.13	Insulated conductors	6.49.9	Distribution boards
6.40.14	Earthing materials		
	Cable lines (stands, supports, lines, trays, througs)	6.50	Plugs and adapter plugs
	Fastening materials for cables and conductors		
	Cable coils	-	and switching instruments
6.40.18 6.40.19	Superconductors Heating resistance materials	6.51.2 6.51.3	LV switches LV contactors and circuit breakers
6.40.20	Cable marking systems	6.51.4	Fuses
	Tools and equipment for working with cables and conductors	6.51.5	Starters
	Complete production programme of cables, conductors	6.51.6	Rheostats
	and accessories	6.51.7	LV electromagnets
6.40.99	Cables and conductors – other	6.51.8	Command devices
	l insulators and insulants	6.52	Power switching devices
6.41.1	Porcelain insulators	T	
	El. wiring and assembly porcelain Ceramic components for el. engineering – other	Transformers	LV transformers
	Electrotechnical insulants (excluding ceramic)	6.53.1 6.53.2	HV transformers
	Insulating tubes for high voltage technology	6.53.3	VHV transformers
6.41.99	Electrotechnical insulators and insulants – other	6.53.4	Capacitive voltage transformers
		6.53.5	Regulating (variable-voltage) transformers
6.42	Power capacitors	6.53.6	Measuring transformers
		6.53.7	Switches for transformers
	Electrochemical power supplies	6.53.8	Components and accessories of transformers
6.43.1	Batteries, electrochemical cells	6.53.9	Choke coils
	Accumulators	6.53.10	Service and repairs of HV and VHV transformers
	Accumulator charging systems Electrochemical power supplies – other	6.53.11	Kiosk (concrete) transformer stations
0.43.33	Electrochemical power supplies – other	6.54	Electric HV and VHV instruments
Electric light so	urces	6.54.1	HV and VHV switches
	<del></del>	6.54.2	HV contactors
6.44.1	Lamps	6.54.3	HV and VHV lightning arresters
	Tungsten-halogen lamps	6.54.4	HV and VHV disconnectors
6.44.1.2	LED lamps	6.54.5	HV vacuum circuit breakers

### POWER ENGINEERING AND HEAVY-CURRENT ELECTRICAL ENGINEERING



6.54.6	Protective and safety aids for HV technology	6.60.8	Industrial sockets and plugs
6.54.7	Static electricity protection equipment	6.60.9	Connecting wiring material
6.54.8	Earthing systems		ů ů
		6.61	Measuring transducers for heavy electrical engineering
<b>Electric motors</b>	S	6.62	Interference suppression filters
6.55.1	Components for electric motors	6.63	Electromagnets for mechanical engineering
6.55.2	Synchronous electric motors	6.64	Electric instruments for explosive environments
		6.65	Electrotechnical tools for heavy electrical engineering
6.55.3	Asynchronous electric motors	6.66	Protective aids for work on electric devices
6.55.3.1	Asynchronous electric motors up to 1 kW	6.67	Lightning rods, lightning stroke protection systems
6.55.3.2	Asynchronous electric motors in the range of 1 kW to 100 kW	6.68	Control systems for power plants, substations
6.55.3.3	Asynchronous electric motors of more than 100 kW		and transformer stations
6.55.3.4	Low-voltage asynchronous motors	6.77	CAD, CAM, CIM in heavy-current electrical engineering
6.55.3.5	High-voltage asynchronous motors	6.78	Consultancy in heavy-current electrical engineering
6.55.3.6	Asynchronous brakes	6.79	Engineering and design services in heavy-current electrical
65507		6.00	engineering
6.55.3.7	Starters for asynchronous motors	6.80	Service and repairs of machines and equipment in heavy-
6.55.3.7.1	Soft starters		current electrical engineering
6.55.4	Commutator electric motors		
6.55.5	DC electric motors		
6.55.5.1	DC electric motors up to 1 kW		
6.55.5.2	DC electric motors of more than 1 kW		
6.55.5.3	Brushless DC el. motors		
6.55.6	Stepping electric motors, micromotors		
6.55.7	Piezomotors		
6.55.8	Small gear motors		
6.55.9	Linear electric motors		
6.55.10	Servomotors DC		
6.55.11	Servomotors AC		
0.55.11	SCI VOIIIOCOTS AC		
6.55.12	Electric motors for special purposes		
6.55.12.1	Electric motors for explosive environments		
6.55.12.2	Electric motors designed for operation in extreme temperatures		
6 55 43	Customs made alectric metans		
6.55.13 6.55.14	Custom-made electric motors		
6.55.99	Repairs of electric motors  Electric motors – other		
0.55.55	Lectric motors offici		
6.56	Rotary power supplies		
6.56.1	Alternators		
6.56.2	Synchronous generators		
6.56.3	Power factor compensators		
6.56.4	Dynamos		
6.56.99	Rotary power supplies – other		
6.57	Dynamometers		
Electric industr	rial heating  Components for thermal electric equipment		
6.58.1 6.58.2	Electric arc and resistance furnaces		
6.58.2	Induction furnaces		
6.58.4 6.58.5	Dielectric equipment HF heating		
6.58.6	Microwave heating		
6.58.7	Infra-red heating		
6.58.8	Special electric heating		
6.58.9	Heating cables		
6.58.10	Induction heating equipment		
6.59	Electric rotary drives		
Wiring materia			
6.60.1	House switches and sockets		
6.60.2	Mounting boxes		
6.60.3	Terminal boards		
6.60.4	Electronic controllers and devices		
6.60.5 6.60.6	Support and fixing materials Plastic and metal cable terminals		
0.00.0	ו נמסטיב מווע ווופנמנ נמטוב נכוווווומנס		

6.60.7

Cable protectors



Machines and equipment for the electrical industry		7.2.1.5	Optical cables
		7.2.1.6	Assembled cables for transmission technology
7.1.1	Machines for manufacture of conductors and cables	7.2.1.99	Conductors – other
7.1.2	Winding machines		
7.1.3	Wire cutting and stripping machines	7.2.2	Passive electrical components
7.1.4	Cable, bunched cable and interconnecting system testing	7.2.2.1	Resistors for electronics
	equipment	7.2.2.2	Potentiometers for electronics
7.1.5	Pressing machines for the electrotechnical industry	7.2.2.3	Capacitors for electronics
7.1.6	Insulant production machines	7.2.2.4	Coils for electronics
7.1.7	Machines for insulation, impregnation and sealing	7.2.2.5	Piezo-electric crystal elements
,,	in electrical engineering	7.2.2.6	Ferrite cores
7.1.8	Bandaging machines	7.2.2.7	SMD passive elements
	5 5		•
7.1.9	Coil production lines	7.2.2.99	Passive electronic elements – other
7.1.10	Transformer production lines		
7.1.11	Electric motor production machines and equipment	7.2.3	Instrument batteries and accumulators
7.1.12	Resistor production machines		
7.1.13	Capacitor production machines	7.2.4	Semiconductor elements
		7.2.4.1	Diodes
7.1.14	Cleaning machines and equipment in electrical engineering	7.2.4.99	Semiconductor elements – other
7.1.14.1	Ultrasound cleaning devices		
	•	7.2.5	Analogue integrated circuits
7.1.15	Vacuum equipment for the electrotechnical industry	7.2.6	Digital integrated circuits
7.1.16	Machines for production of semiconductors, SMD elements and	7.2.7	IGBT modules
,,,,,,	hybrid circuits	7.2.8	Hybrid circuits
	nybria circuits	7.2.9	Electronic components other than semiconductor ones – other
7.1.17	Machines for printed circuit heard production	1.2.9	Liectionic components other than semiconductor ones – other
	Machines for printed circuit board production	7 2 40	Outing and autoplasticaria alamanta
7.1.17.1	Drilling machines for printed circuit boards	7.2.10	Optic and optoelectronic elements
7.1.17.2	Automatic and semi-automatic component mounting machines	7.2.10.1	Miniature bulbs
7.1.17.3	Soldering devices for classic, mixed and surface mounting (SMT)	7.2.10.2	Visualizing elements, indicators
		7.2.10.3	LED displays
7.1.18	Assembly devices for PCB technology	7.2.10.4	LCD displays
7.1.19	Printed circuit board assembly tools	7.2.10.5	Laser displays
7.1.20	Machines for installation of electrical part contacts	7.2.10.6	Plasma displays
7.1.21	Testing systems for printed circuit boards	7.2.10.7	Fluorescent displays
7.1.22	Handling modules for the electrotechnical industry	7.2.10.8	Solar cells
7.1.23	Automatic visual checking equipment	7.2.10.9	Connecting optical elements
7.1.24	Palletizing systems for electrotechnical industry	7.2.10.10	Optical signal processing elements
7.1.25	Systems for soldered component dismantling	7.2.10.10	Optoelectronical equipment
7.1.26		7.2.10.11	CCD elements
	Single-purpose machines for electrotechnical production		
7.1.27	Measuring and testing equipment for electrotechnical	7.2.10.13	Laser equipment
	production	7.2.10.14	SMD optic and optoelectronic elements
7.1.28	PCB repair systems	7.2.10.99	Optic and optoelectronic elements – other
7.1.29	Auxiliary equipment for electrical engineering and electronics		
7.1.30	Antistatic workplaces and aids	7.2.11	Converters
		7.2.12	Amplifiers
7.1.87	CAD, CAM, CIM in the electrotechnical industry	7.2.13	DC/DC converters
7.1.88	Consultancy for the electrotechnical industry	7.2.14	Vacuum elements (electron tubes, cathode ray tubes, other)
7.1.89	Engineering and design services for the electrotechnical		
	industry	7.2.15	Mechanical components for electronics
	<b>,</b>	7.2.15.1	Flat conductor connectors
7.1.90	Service and repairs of machines and equipment	7.2.15.2	Interface connectors
7.1.50	for the electrotechnical industry	7.2.15.3	Internal interconnecting components (printed circuits)
7.1.90.1	Diagnostics of machines and equipment in the electrotechnical	7.2.15.4	Connectors for PCB
7.1.90.1	, ,		
	industry	7.2.15.5	Connectors for optical waveguides
7.1.90.2	Spare parts for equipment in the electrotechnical industry	7.2.15.6	Mechanical elements of electronic structures (cabinets, coolers)
7.1.90.3	Refurbishment and upgrading of equipment in the	7.2.15.7	Cables, conductors for electronics
	electrotechnical industry	7.2.15.8	Electromechanical elements (motors, switches)
		7.2.15.9	Rotary switches
7.1.91	Reworked machines and equipment for the electrotechnical	7.2.15.10	Push-buttons
	industry	7.2.15.11	Microswitches
7.1.92	Technologies for the electrotechnical industry	7.2.15.12	Keys
· ·- =		7.2.15.13	Film keyboards
7.1.99	Machines and equipment for the electrotechnical industry –	7.2.15.14	Safety and security elements
	other	7.2.15.14	Elements for power supplies (ferrite cores, transformers)
	vuici		
Flanta.		7.2.15.16	Transmitters, communication transformers
Electronic com	ponents and elements	7.2.15.17	Toroidal transformers
		7.2.15.18	Instrument transformers
7.2.1	Conductors	7.2.15.19	Relays for electronics (SMD relays, relay sockets)
<b>7.2.1</b> 7.2.1.1	Communication cables		
		7.2.15.19	Relays for electronics (SMD relays, relay sockets)
7.2.1.1	Communication cables	7.2.15.19	Relays for electronics (SMD relays, relay sockets)



7.5.2.87 CAD. CAM. CM for electronic components and elements. 7.2.88 Consultancy for electronic components and elements. 7.2.89 Engineering and design services in the field of electronic components and elements. 7.2.99 Production of mask-to-order printed circuit beards. 7.5.1.24 Developing systems of trethnology process control. 7.5.1.25 Possible components and elements. 7.5.1.26 Production of mask-to-order printed circuit beards. 7.5.1.27 Roduction of mask-to-order printed circuit beards. 7.5.1.26 Production of mask-to-order printed circuit beards. 7.5.1.27 Roduction of mask-to-order printed circuit beards. 7.5.1.28 Production of mask-to-order printed circuit beards. 7.5.1.29 Components and elements - other 7.5.1.20 Components and elements - other 7.5.1.21 Process pages for technology process control. 7.5.1.26 Programs for translational process orders. 7.5.1.27 Roduction of the components of transmitters. 7.5.1.29 Components and elements - other 7.5.1.20 Components and elements - other 7.5.1.20 Process visualization. 7.5.1.20 Process visualization. 7.5.1.21 Process and into contrology Process simulation. 7.5.1.20 Process visualization. 7.5.21 Process and into control control control of productial data. 7.5.22 Process and into for foroadcasting technology Process and a decorate and process. 7.5.22 Process of electric and non-electric variables. 7.5.23 Process and into reproduction equipment. 7.5.24 Process and process. 7.5.25 Process of electric and non-electric variables. 7.5.26 Process of electric and non-electric variables. 7.5.27 Process of electric and non-electric variables. 7.5.28 Process of electric and non-electric variables. 7.5.29 Process of electric and non-electric variables. 7.5.20 Process of electric and non-electric variables. 7.5.21 Process of electric and non-electric variables. 7.5.22 Process of electric and non-electric variables. 7.5.23 Process of electric and non-electric variables. 7.5.24 Process of electric and non-electric variables. 7.5.25 Process of electric and non-electric variables	7.2.16 7.2.17	Piezoelectric sensors, controllers Power sources for electronics	7.5.1.22	Industrial information and control networks and their components
7.2.82 Counter for electronic components and elements 7.2.83 Consultanço for electronic components and elements 7.2.89 Engineering and design services in the field of electronic components and elements 7.2.99 Electronic components and elements 7.5.1.26 Production of made-to-order printed circuit boards 7.5.1.27 Developing systems and programs for process simulation 7.5.1.28 Developing systems and programs for process simulation 7.5.1.26 Production of made-to-order printed circuit boards 7.5.1.27 Repairs for technology process control 7.5.1.28 Programs for technology process control 7.5.1.29 Programs for technology process control 7.5.1.26 Programs for technology process control 7.5.1.27 Repairs for technology process control 7.5.1.27 Repairs for process simulation 7.5.1.28 Programs for technology process control 7.5.1.29 Repairs for technology requipment of missing process control 7.5.1.20 Components and accessories of transmitters 7.5.1.21 Repairs for process simulation 7.5.1.22 Intelligent sensor systems 7.5.2.21 Intelligent sensor systems 7.5.2.21 Intelligent sensor systems 7.5.2.22 Intelligent sensor systems 7.5.2.23 Repairs for technology 7.5.2.24 Intelligent sensor systems 7.5.25 Repairs for technology 7.5.26 Repairs for technology 7.5.27 Repairs for technology 7.5.28 Repairs for technology 7.5.29 Repairs for technology 7.5.20 Repairs for technology 7.5.20 Repairs for technology 7.5.21 Repairs for technology 7.5.22 Repairs for technology 7.5.23 Repairs for technology 7.5.24 Repairs for technology 7.5.25 Repairs for technology 7.5.26 Repairs for technology 7.5.27 Repairs for technology 7.5.28 Repairs for technology 7.5.29 Repairs for technology 7.5.29 Repairs for technology 7.5.20 Repairs for technology 7.5.20 Repairs for technology 7.5.21 Repairs for technology 7.5.22 Repairs for technology 7.5.23 Repairs for technology 7.5.24 Repairs for technology 7.5.25 Repairs for technology 7.5.26 Repairs for technology 7.5.27 Repairs for technology 7.5.28 Repairs for technology 7.5.29 Repairs for technology 7.5.20 R	742417	Total Sources for electronics	7.5.1.22.1	•
2,2,90   Engineering and design services in the field of electronic components and elements   2,2,90   Production of made-to-order printed circuit boards   2,2,90   Electronic components and elements   2,3,11   Components and elements   2,3,12   Components and elements   2,3,12   Components and ecossories of transmitters   2,3,13   Cables and lines for broadcasting electronic elements   2,3,13   Cables and lines for broadcasting electronic elements   2,3,14   Components and accessories of transmitters   2,3,15   Cables and lines for broadcasting technology   2,3,16   Cables and lines for broadcasting technology   2,3,17   Cables and lines for broadcasting technology   2,3,18   Cables and lines for broadcasting technology   2,3,18   Cables and lines for broadcasting technology   2,3,19   Call orelated in standard technology   2,3,10   Cables and lines for broadcasting technology   2,3,10   Cables and lines technology   2,3,10   Cables and lines technology   2,3,10   Cables technology   2,3,10   Cables and lines technology   2,3,11   Cables and lines technology   2,3,12   Cables and lines technology   2,3,13   Cables and lines technology   2,3,14   Cables technology   2,3,15   Cables technology   2,3,16   Cables technology   2,3,17   Cables technology   2,3,18   Cables technology   2,3,19   Call and telephone dispatcher systems   2,3,19   Cables technology   2,3,10   Ca	7.2.87	CAD, CAM, CIM for electronic components and elements		
omponents and elements  7.5.1.29 Policution of made to order printed circuit boards  7.5.1.26 Porgrams for exhological process order  7.5.1.27 Porgrams for exhological process order  7.5.1.28 Data Warehousing / Data Mining - for industrial data  7.5.1.29 Data Warehousing / Data Mining - for industrial data  7.5.1.20 Annopenets and accessories of transmitters  7.5.1.31 Components and accessories of transmitters  7.5.1.32 Policular and transmitters  7.5.3.3 Components and accessories of transmitters  7.5.3.4 Rodin certories  7.5.2 Introduced and advanced transmitters  7.5.3 Rodine randin-decommunication equipment  7.5.4 Remote checking and control  7.5.5 Remote checking and control  7.5.6 Remote checking and control  7.5.7 Remote checking and control  7.5.8 Remote control dispatcher systems  7.5.9 Communication modules for CSM / CPRS  7.5.1 Communication modules for CSM / CPRS  7.5.1 Remote control wireless systems  7.5.2 Remote control wireless systems  7.5.3	7.2.88	Consultancy for electronic components and elements		
7.2.99 Electronic components and elements – other 7.5.1.26 Programs for process valualization 7.5.1.26 Studies and broadcasting technology 7.5.1.26 Programs for process valualization 7.5.1.27 Studies and broadcasting technology 7.5.1.26 Data Warehousling / Data Ware	7.2.89	Engineering and design services in the field of electronic	7.5.1.23	Operation systems for technology process control
7.2.99 Poduction of made-to-order printed circuit boards 7.2.99 Electronic components and elements – other 7.2.91 Electronic components and elements – other 7.3.12 Annual proposed and threadcasting technology 7.3.13.1 Components and elements 7.3.1 Components and elements 7.3.1 Components and elements 7.3.1 Components and elements 7.3.2 Part of the elements 7.3.3 Television transmitters 7.3.4 Read on etworks 7.3.5 Mobile and - elegenomunication equipment 7.3.6 Read equipment 7.3.7 Read equipment 7.3.7 Read equipment 7.3.8 Boadcasting, telegraph and communication equipment 7.3.9 Components and an element elements 7.3.1 Television transmitters 7.3.2 Components and elements 7.3.3 Television transmitters 7.3.4 Remote electric and absolute encoders 7.3.5 Mobile and elephone dispatche systems 7.3.6 Read equipment 7.3.7 Read equipment 7.3.8 Boadcasting technology 7.3.9 Components and experiment elements 7.3.1 Components elements 7.3.2 Components elements 7.3.3 Feature elements 7.3.4 Remote control elements 7.3.5 Read equipment elements 7.3.6 Remote control elements 7.3.7 Remote electric measurement elements 7.3.1 Components elements 7.3.2 Remote electric measurement elements 7.3.3 Feature elements 7.3.4 Remote electric measurement elements 7.3.5 Read equipment elements 7.3.6 Remote control elements 7.3.7 Remote electric measurement 7.3.8 Remote electric measurement 7.3.9 Remote electric measurement 7.3.0 Remote electric measurement 7.3.0 Remote electric measurement 7.3.1 Remote electric measurement 7.3.1 Remote electric measurement 7.3.2 Remote elect		components and elements	7.5.1.24	
7.5.1.29   Electronic components and elements – other   7.5.1.27   Studio and broadcasting technology   7.5.1.28   Data Warehousing / Data Mining – for industrial data   7.5.1.29   Data Warehousing / Data Mining – for industrial data   7.5.1.29   Components for automation and control technology equipment – other   7.5.2.2   Intelligent sensor systems   7.5.2.2   In	7.2.90	Production of made-to-order printed circuit boards	7.5.1.25	
Studio and broadcasting technology 7.3.1. Components and accessories of transmitters 7.3.1.1 Components and accessories of transmitters 7.3.1.1 Components and accessories of transmitters 7.3.1.2 Anima arrays 7.3.1.3 Cables and times for troadcasting electronic elements 7.3.1.1 Components and accessories of transmitters 7.3.1.2 Anima arrays 7.3.1.2 Components for audomatical management 7.3.2 Bradecasting telepraph and communication transmitters 7.3.2 Elevation and communication equipment 7.3.3 Elevation internations 7.3.4 Sadio methods 7.3.5 Real price in the communication equipment 7.3.6 Real price 7.3.7 Real requipment 7.3.8 Real requipment 7.3.9 Real requipment 7.3.1 Counters for regulation 7.3.1 Counters for regulation 7.3.1 Counters for regulation 7.3.2 Real requipment 7.3.1 Counters for regulation 7.3.2 Real requipment 7.3.3 Real requipment 7.3.4 Real requipment 7.3.5 Real requipment 7.3.6 Real price 7.3.7 Real requipment 7.3.1 Counters for remote control of industrial technology 7.3.2 Real requipment 7.3.3 Real requipment 7.3.3 Real requipment 7.3.4 Real requipment 7.3.5 Real requipment 7.3.6 Real requipment 7.3.7 Real requipment 7.3.7 Real requipment 7.3.8 Real requipment 7.3.9 Real requipment 7.3.1 Counters for remote control of industrial technology 7.3.2 Real requipment 7.3.3 Real requipment 7.3.4 Real requipment 7.3.5 Real requipment requipment 7.3.6 Real requipment required reputation required reputation required reputation required required reputation required required reputation required required reputation required require			7.5.1.26	
Studio and broadcasting technology 7.3.1.2 Components and accessories of transmitters 7.3.1.1 Components and accessories of transmitters 7.3.1.2 Alterna arrays 7.3.1.2 Alterna arrays 7.3.1.2 Components and broadcasting electronic elements 7.3.1.2 Alterna arrays 7.3.1.2 Alterna arrays 7.3.1.2 Alterna arrays 7.3.1.2 Alterna arrays 7.3.2 Roadcasting, telegraph and communication transmitters 7.3.2 Roadcasting, telegraph and communication transmitters 7.3.3 Television transmitters 7.3.4 Road networks 7.3.5 Mobiler adio telecommunication equipment 7.3.6 Realy inks 7.3.7 Real ar equipment 7.3.8 Roadcasting studio technology 7.3.9 Call and telephone dispatcher systems 7.3.10 Television studio technology 7.3.10 Television studio technology 7.3.11 Collect ledvision (colles, other components) 7.3.12 Cosed-circuit television 7.3.13 Studie television (colles, other components) 7.3.14 Direction finders 7.3.15 Real Direction finders 7.3.16 Process incorporation technology 7.3.17 Read control of industrial technology 7.3.18 Real Control television 7.3.19 Readcasting equipment 7.3.10 Read control of industrial technology 7.3.10 Television studio technology 7.3.11 Collected control wireless systems 7.3.12 Read control of industrial technology 7.3.13 Stellet television technology 7.3.14 Direction finders 7.3.15 Procuration of the control of industrial technology 7.3.16 Procuration of the control of industrial technology 7.3.17 Read control wireless systems 7.3.18 Procuration of the control of industrial technology 7.3.19 Readcasting equipment – other 7.3.10 Process incorporations for broadcasting technology 7.3.10 Read control wireless systems 7.3.11 Stellet television mediate of the decircumagnetic controllers 7.3.12 Components for equipment of a attenuation and control 7.3.13 Stellet television mediate of the decircumagnetic controllers 7.3.14 Read process and memory memory decircumagnetic controllers 7.3.15 Components for equipment of the additional process of memory memory decircumagnetic controllers 7.3.16 Components for equ	7.2.99	Electronic components and elements – other	7.5.1.27	Remote computer management systems
7.3.1.1 Components and accessories of transmitters 7.3.1.1 Components and accessories of transmitters 7.3.1.1 Components and accessories of transmitters 7.3.1.2 Alterna arrays 7.3.1.2 Alterna arrays 7.3.1.3 Colbes and these for broadcasting technology 7.3.2 Broadcasting, telegraph and communication transmitters 7.3.3 Interest and an aboute encoders 7.3.4 Radio networks 7.3.5 Molitic radio-telecommunication equipment 7.3.6 Relay links 7.3.7 Radio requipment 7.3.7 Radio requipment 7.3.8 Broadcasting studio technology 7.3.9 Call and telephone dispatcher systems 7.3.10 Interest and an aboute encoders 7.3.11 Cable television (ables, other components) 7.3.12 Cable television (ables, other components) 7.3.13 Satellite television (ables, other components) 7.3.14 Organization 7.3.15 Cable television individual systems 7.3.16 Remote control wireless systems 7.3.17 Satellite television individual systems 7.3.18 Security of the systems 7.3.19 Cable television (ables, other components) 7.3.10 Remote control wireless systems 7.3.11 Cable television (ables, other components) 7.3.12 Consect-circuit television technology 7.3.13 Security of the systems 7.3.14 Processor and systems 7.3.15 Cable television individual systems 7.3.16 Remote control wireless systems 7.3.17 Remote control wireless systems 7.3.18 Processor and control 7.3.19 Broadcasting quipment – other 7.3.10 Cable television individual systems 7.3.10 Cable television individual systems 7.3.11 Cable television individual systems 7.3.12 Cable television individual systems 7.3.13 Security of the systems 7.3.14 Processor and control wireless systems 7.3.15 Processor and enony individual systems 7.3.16 Remote control wireless systems 7.3.17 Remote control wireless systems 7.3.18 Individual systems 7.3.19 Processor and menony modules 7.3.10 Cable television for equipment for automatic requirement for automatic remove f			7.5.1.28	
7.3.1 Components and accessories of transmitters 7.3.1.2 Antenna arrays 7.3.1.3 Colles and lines for broadcasting technology 7.3.1 (Section and Exercision Properties of P	Studio and b	proadcasting technology		
7.3.1.1 Generator and broadcasting electronic elements 7.3.1.2 Anterna arrays 7.3.1.2 Anterna arrays 7.3.2 Broadcasting, telegraph and communication transmitters 7.3.3 Television transmitters 7.3.4 Readio networks 7.3.5 Molie radio-telecommunication equipment 7.5.6 Relay links 7.5.7 Read requipment 7.5.7 Read requipment 7.5.8 Broadcasting studio technology 7.5.9 Call and telephone dispatcher systems 7.5.1 Call and telephone dispatcher systems 7.5.2 Readio retworks 7.5.3 Ready equipment 7.5.4 Remote checking and control 7.5.5 Readio retworks 7.5.5 Remote checking and control 7.5.6 Remote checking and control 7.5.6 Remote checking and control 7.5.7 Remote checking and control 7.5.4 Remote checking and control 7.5.5 Remote checking and control 7.5.4 Remote checking and control 7.5.5 Remote control wireless systems 7.5.5 Remote control wireless systems 7.5.5 Remote control wireless systems 7.5.5 Remote controllers 7.5.6 Remote cont	724	C	7.5.1.99	•
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7.3.13 Cables and lines for broadcasting technology 7.5.2.1 Intelligent sensor systems 7.5.2.2 Intelligent sensor systems 7.5.2.2 Intelligent sensor systems 7.5.2.2 Intelligent sensor systems 7.5.3.3 Television transmitters 7.5.4 Radio networks 7.5.4 Radio networks 7.5.5 Mobile radio-telecomunication equipment 7.5.4 Remote checking and control 7.5.4.2 Automatic central checking and control 7.5.4.3 Remote electric measurement / control 7.5.4.3 Remote electric measurement / control 7.5.4.3 Remote electric measurement / control 7.5.4.4 Automatic central checking and control 7.5.4.5 Automatic central checking and control 7.5.4.6 Automatic central checking and control 7.5.4.7 Remote electric measurement / control 7.5.4.7 Remote central checking and control 7.5.4.8 Automatic central checking and control 7.5.4.9 Automatic central checking and control 7.5.4.9 Automatic central checking and control 7.5.4.1 Remote electric measurement / control 7.5.4.2 Control devices 7.5.4.3 Telephone controlled devices 7.5.4.3 Telephone controlled devices 7.5.4.5 CSM / GPRS based data networks 7.5.4.5 Communication modules for GSM / GPRS 7.5.5 Control memore control of industrial technology 7.5.5.1 Electric and electromagnetic controllers 7.5.5.2 Electric and electromagnetic controllers 7.5.5.3 Penumatic controllers 7.5.5.5 Penumatic controllers 7.5.5.5 Penumatic controllers 7.5.5.6 Control systems with master computer 7.5.1.1 Components for equipment – other 7.5.1.2 Components for equipment for automation and control 7.5.5.1 Components for equipment for automation and control 7.5.6 Control systems for controllers 7.5.1.2 Processor and memory modules 7.5.1.3 Signal processors 7.5.1.4 RAV/ROM disc memories 7.5.1.5 Programmab		5		
7.3.2 Broadcasting, telegraph and communication transmitters 7.3.3 Television transmitters 7.3.4 Radio networks 7.3.5 Mobile radio-telecommunication equipment 7.3.6 Relay inks 7.3.7 Radar equipment 7.3.7 Readar equipment 7.3.8 Broadcasting studio technology 7.3.8 Broadcasting studio technology 7.3.9 Call and telephone dispatcher systems 7.3.10 Television studio technology 7.3.11 Calcite television (calcite, subtraction and control) 7.3.12 Closed-circuit television 7.3.13 Sarellite television (calcite, subtraction and control) 7.3.14 Direction finders 7.3.15 GPS 7.3.16 Remote control wireless systems 7.3.17 Measuring instruments for broadcasting technology 7.3.18 GPS 7.3.19 Broadcasting equipment – other 7.3.10 Remote control wireless systems 7.3.11 Communication modules for GSM (GPR) 7.3.12 GPS 7.3.13 Sarellite television candidate of the subtraction and control of technology 7.3.14 Direction finders 7.3.15 GPS 7.3.16 Remote control wireless systems 7.3.17 Measuring instruments for broadcasting technology 7.3.19 Broadcasting equipment – other 7.3.10 Remote control wireless systems 7.3.11 Components for equipment for automation and control 7.3.12 Components for equipment for automation and control 7.3.13 Single possessor 7.3.14 Direction finders 7.3.15 Components for equipment for automation and control 7.3.16 Remote control wireless systems 7.3.17 Programmable logic controllers 7.3.18 Industrial control computers 7.3.19 Control systems with master computer 7.3.10 Components for equipment for automation and control 7.3.11 Process microprocessors, microcontrollers 7.3.12 Processor and memory modules 7.3.13 Signal processors 7.3.14 Direction finders 7.3.15 Communication modules, I/O modules – cards 7.3.16 Remote control technology cabinets 7.3.17 Chassis, control technology cabinets 7.3.18 Industrial control computers 7.3.19 Processor and memory modules 7.3.10 Components for equipment for automation and control 7.3.11 Computer printers of modules, I/O modules – cards 7.3.11 Computer printers for modules for indust				
7.3.2   Broadcasting, telegraph and communication transmitters 7.3.3   Television transmitters 7.3.4   Radio networks 7.3.5   Mobile radio-telecommunication equipment 7.5.6   Ready links 7.5.7   Remote electric measurement / control 7.5.8   Remote electric measurement / control 7.5.9   Call and equipment   7.5.4   Remote electric measurement / control 7.5.4   Remote electric measurement / control 7.5.4   Remote electric measurement / control 7.5.5   Ready links 7.5.6   Ready links 7.5.6   Ready links 7.5.6   Ready equipment / 2.5.6   Ready equipment / 2.5.6	7.3.1.3	capies and times for broadcasting technology		
7.3.4 Radio networks 7.3.5 Mobile radio-telecommunication equipment 7.3.6 Regul plinks 7.3.6 Regul plinks 7.3.7 Radio networks 7.3.8 Remote checking and control 7.3.8 Remote checking and control 7.3.8 Radio requipment 7.3.8 Radio requipment 7.3.9 Call and telephone dispatcher systems 7.3.10 Call and telephone dispatcher systems 7.3.10 Television studio technology 7.3.10 Television studio technology 7.3.11 Cabbe television (cabbe, sother components) 7.3.11 Cabbe television (cabbe, sother components) 7.3.12 Closed-circuit television 7.3.13 Satellite television cladels, sother components) 7.3.14 Direction finders 7.3.15 GPS 7.3.15 GPS 7.3.16 Remote control wireless systems 7.3.17 Measuring instruments for broadcasting technology 7.3.19 Broadcasting equipment – other 7.3.19 Broadcasting equipment – other 7.3.10 Components for equipment for automation and control 7.3.11 Components for equipment for automation and control 7.3.11 Process microprocessors, microcontrollers 7.3.12 Control systems with fuzzy logic 7.3.13 Signal processors 7.3.14 Process microprocessors, microcontrollers 7.3.15 Components for equipment of automation and control 7.3.16 Remote control wire pulpment for automation and control 7.3.17 Chassis, control technology and the process of an amemory modules 7.3.18 Signal processors 7.3.19 Process microprocessors, microcontrollers 7.3.10 Components for equipment for automation and control 7.3.10 Chassis, control technology cabinets 7.3.11 Process microprocessors, microcontrollers 7.3.12 Components for equipment for automation and control 7.3.13 Signal processors 7.3.14 Direction finders 7.3.15 Components for equipment for automation and control 7.3.16 Remote control and control computers 7.3.17 Chassis, control technology cabinets 7.3.18 Outofat for automatic control computers 7.3.19 Components for equipment for automation and control of programmable logic controllers 7.3.10 Components for equipment for automation and control of programmable logic controllers 7.3.11 Components for equipment for automati	732	Broadcasting talegraph and communication transmitters	7.5.2.2	Incremental and absolute encoders
7.3.4 Radio networks 7.3.5 Mobile radio-electromunication equipment 7.3.6 Relay links 7.3.6 Relay links 7.3.7 Radar equipment 7.3.7 Radar equipment 7.3.8 Broadcasting studio technology 7.3.3 Reduce electric measurement / control 7.3.8 Broadcasting studio technology 7.3.3 Telephone controlled devices 7.3.10 Television studio technology 7.3.11 Cable television (ables, other components) 7.3.12 Closed-circuit television 7.3.13 Settleit television (ables, other components) 7.3.14 Direction finders 7.3.15 Consed-circuit television 7.3.16 Remote control wireless systems 7.3.17 Remote control wireless systems 7.3.18 Remote control wireless systems 7.3.19 Remote control wireless systems 7.3.10 Remote control wireless systems 7.3.11 Remote control wireless systems 7.3.12 Remote control wireless systems 7.3.13 Seal remote control wireless systems 7.3.14 Remote control wireless systems 7.3.15 Programmable logic controllers 7.3.16 Remote control wireless systems 7.3.17 Remote control wireless systems 7.3.18 Remote controllers 7.3.19 Remote control wireless systems 7.3.10 Remote control wireless systems 7.3.11 Remote control wireless systems 7.3.12 Remote control wireless systems 7.3.13 Segment of the wireless systems 7.3.14 Remote control wireless systems 7.3.15 Remote control wireless systems 7.3.16 Control remote systems with fuzzy logic remote control wireless systems for equipment of automation and control 7.3.18 Remote control wireless systems 7.3.19 Remote control wireless systems 7.3.10 Remote control wireless systems 7.3.11 Remote remote systems for equipment for automation and control 7.3.12 Remote control wireless systems 7.3.13 Remote remote systems for equipment for automation and control 7.3.14 Remote remote systems for equipment for automatic networks remote for controllers remote systems for equipment for automatic networks remote for programmable logic controller with master computer 7.3.1.10 Components for equipment for automation and control 7.3.1.20 Remote remote remote remote remote remote remote remote				
7.3.6 Relay links 7.3.6 Realy links 7.3.7 Readre equipment 7.3.6 Realy links 7.3.7 Readre equipment 7.3.8 Broadcasting studio technology 7.3.9 Call and telephone dispatcher systems 7.3.4 Television studio technology 7.3.1 Television studio technology 7.3.1 Television studio technology 7.3.1 Cable television (ables, other components) 7.3.1.1 Cable television (ables, other components) 7.3.1.2 Closed-circuit television 7.3.1.3 Satellite television technology 7.3.1.4 Direction finders 7.3.1.5 GPS 7.3.1.6 Remote control wireless systems 7.3.1.7 Measuring instruments for broadcasting technology 7.3.1.7 Measuring instruments for broadcasting technology 7.3.1.9 Broadcasting equipment – other 7.3.1.1 Components for equipment for automation and control 7.3.1.1 Process microprocessors, microcontrollers 7.3.1.1 Process microprocessors, microcontrollers 7.3.1.1 Process microprocessors, microcontrollers 7.3.1.1 Process microprocessors, microcontrollers 7.3.1.1 RAM/ROM disc memories 7.3.1.2 Processor and memory modules 7.3.1.3 Raming labus-bar systems 7.3.1.4 RAM/ROM disc memories 7.3.1.5 Chassis, control technology claims 7.3.1.6 Romound technology 7.3.1.7 Chassis, control technology 7.3.1.8 Industrial control computers 7.3.1.9 Montrol 7.3.1.1 Process microprocessors for industrial sites 7.3.1.1 Chassis, control technology claims 7.3.1.2 Processor and memory modules 7.3.1.3 Signal processors 7.3.1.4 RAM/ROM disc memories 7.3.1.5 Proparation modules, I/O modules – cards 7.3.1.6 Raming all processors 7.3.1.7 Chassis, control technology cabinets 7.3.1.8 Industrial control computers 7.3.1.9 Montrors 7.3.1.1 Proversion and technology cabinets 7.3.1.2 Projection and presentation equipment for control rooms 7.3.1.3 Single-board control computers 7.3.1.3 Industrial technology and trackballs for industrial sites 7.3.1.3 Industrial technology and trackballs for industrial sites 7.3.1.3 Projection and presentation equipment for control rooms 7.3.1.1 Provers upplies 7.3.1.1 Provers upplies 7.3.1.1 Provers upplies 7.3.1.1 Provers upplies			7.5.3	Counters for regulation
7.3.6 Relay links 7.3.7 Radar equipment 7.3.7 Radar equipment 7.3.7 Radar equipment 7.3.7 Radar equipment 7.3.8 Broadcasting studio technology 7.3.9 Call and telephone dispatcher systems 7.3.4 Remote electric measurement / control 7.3.4 Attomatic central cheding / control 7.3.4 Radio systems for remote control of industrial technology 7.3.1 Television studio technology 7.3.1 Cable television (ables, other components) 7.3.12 Closed-circuit television 7.3.13 Settletite television technology 7.3.14 Direction finders 7.3.15 Processor and television 7.3.16 Remote control wireless systems 7.3.17 Resulting television 7.3.18 Remote control wireless systems 7.3.19 Resolution industrial technology 7.3.10 Remote control wireless systems 7.3.10 Resolution industrial technology 7.3.11 Resolution industrial technology 7.3.12 Resolution industrial technology 7.3.13 Resolution industrial technology 7.3.14 Resolution industrial technology 7.3.15 Processor and control wireless systems 7.3.16 Resolution industrial technology 7.3.17 Resolution industrial technology 7.3.18 Resolution industrial technology 7.3.19 Resolution industrial technology 7.3.10 Resolution industrial technology 7.3.11 Resolution industrial technology 7.3.12 Resolution industrial technology 7.3.13 Resolution industrial technology 7.3.14 Resolution industrial technology 7.3.15 Resolution industrial technology 7.3.16 Resolution industrial technology 7.3.17 Resolution industrial technology 7.3.18 Resolution industrial technology 7.3.19 Resolution industrial technology 7.3.10 Resolution industrial technology 7.3.11 Resolution industrial technology 7.3.12 Resolution industrial technology cannot industrial technology 7.3.11 Resolution industrial technology 7.3.12 Resolution industrial technology 7.3.13 Resolution industrial technology 7.3.14 Resolution industrial technology 7.3.15 Resolution ind			75/	Pomoto checking and control
7.3.4 Radar equipment 7.3.8 Broadcasting studio technology 7.3.9 Call and telephone dispatcher systems 7.3.4 Radio systems for remote control of industrial technology 7.3.1 Telephone controlled devices 7.3.10 Television studio technology 7.3.11 Cable television (cables, other components) 7.3.12 Cosed-circuit television 7.3.13 Satellite television 7.3.13 Satellite television technology 7.3.14 Direction finders 7.3.15 GPS 7.3.15 GPS 7.3.16 Remote control wireless systems 7.3.17 Measuring instruments for broadcasting technology 7.3.18 Proadcasting equipment – other 7.3.19 Proadcasting equipment – other 7.3.10 Remote control wireless systems 7.3.11 Proaces microprocessors, microontrollers 7.3.12 Components for equipment for automation and control 7.3.14 Process microprocessors, microcontrollers 7.3.15 Processor and memory modules 7.3.16 Remoney modules 7.3.17 Process microprocessors, microcontrollers 7.3.18 Processor and memory modules 7.3.19 Processor and memory modules 7.3.10 Remove the modules, I/O modules – cards 7.3.11 Relaying the modules of the modules		• •		
7.3.9 Call and telephone dispatcher systems 7.3.10 Television studio technology 7.3.11 Cable television (cables, other components) 7.3.12 Cosed-circuit television 7.3.13 Satellite television technology 7.3.14 Direction finders 7.3.15 CPS 7.3.16 Remote control wireless systems 7.3.17 Agnatic and telephone dispatcher systems 7.3.18 Search and the systems of the systems of the systems of the systems for remote controllers 7.3.19 Measuring instruments for broadcasting technology 7.3.10 Remote control wireless systems 7.3.11 Search and the systems 7.3.12 Process microprocessors, microprotection and control 7.3.13 Signal processors and memory modules 7.3.14 Process microprocessors, microprotection and control 7.3.15 Process microprocessors, microprotection and control 7.3.16 Process microprocessors, microprotection and control 7.3.17 Process microprocessors and memory modules 7.3.18 Industrial tour-bar systems 7.3.19 Industrial tour-bar systems 7.3.19 Industrial tour-bar systems 7.3.10 Industrial tour-bar systems 7.3.11 Signal processor 7.3.12 Industrial tour-bar systems 7.3.13 Signal processor 7.3.14 Process microprocessors and memory modules 7.3.15 Industrial tour-bar systems 7.3.16 Industrial tour-bar systems 7.3.17 Process microprocessors and memory modules 7.3.18 Industrial tour-bar systems 7.3.19 Industrial tour-bar systems 7.3.19 Processor and memory modules 7.3.10 Industrial tour-bar systems 7.3.11 Process microprocessors and memory modules 7.3.12 Industrial tour-bar systems 7.3.13 Signal processor 7.3.14 Process microprocessors, microprocess				
7.3.10 Call and telephone dispatcher systems 7.3.11 Cable television (cables, other components) 7.3.11 Cable television (cables, other components) 7.3.12 Cable television technology 7.3.13 Satellite television 7.3.14 Direction finders 7.3.15 GPS 7.3.16 GPS 7.3.17 Measuring instruments for broadcasting technology 7.3.18 Measuring instruments for broadcasting technology 7.3.19 Broadcasting equipment – other 7.3.10 Components for equipment for automation and control 7.3.5.1 Process microprocessors, microcontrollers 7.3.17 Process microprocessors, microcontrollers 7.3.18 Process microprocessors, microcontrollers 7.3.19 Process microprocessors, microcontrollers 7.3.10 Process microprocessors, microcontrollers 7.3.11 Process microprocessors, microcontrollers 7.3.12 Process microprocessors, microcontrollers 7.3.13 Signal processor 7.3.14 Process microprocessors, microcontrollers 7.3.15 Communication modules, I/O modules – cards 7.3.16 Process microprocessors, microcontrollers 7.3.17 Process microprocessors, microcontrollers 7.3.18 Industrial control computers 7.3.19 Processor and memory modules 7.3.10 Components for equipment for automation and control 7.3.10 Signal processor 7.3.11 Process microprocessors, microcontrollers 7.3.12 Processor and memory modules 7.3.13 Signal processor 7.3.14 Components for equipment for automation and control 7.3.15 Communication modules, I/O modules – cards 7.3.16 Communication modules, I/O modules – cards 7.3.17 Chassis, control technology cabinets 7.3.18 Industrial control computers 7.3.19 Chassis, control technology cabinets 7.3.10 Communication modules, I/O modules – cards 7.3.11 Minipanel PC 7.3.12 Chassis, control technology cabinets 7.3.13 Control and measuring systems for company power engineering 7.3.14 Process microprocessor industrial sites 7.3.15 Control and measuring systems 7.3.16 Control and measuring systems 7.3.17 Chassis for automatic technological process control in mechanical engineering 7.3.11 Visualization panels for machine monitoring 7.3.12 Computer and for indu				<b>3</b> ,
7.3.10 Television studio technology 7.5.4.5 GSM / GPRS based data networks Cables to the components) 7.5.4.5 Communication modules for CSM / GPRS Communication for CSM / GPRS for CSM / GPRS Communication modules for CSM / GPRS for CSM / GPRS Communication for CSM / GPRS for CSM / GPRS Communication modules for CSM / GPRS				·
7.3.11 Cable television (cables, other components) 7.3.12 Closed-circuit television 7.3.13 Satellite television technology 7.3.14 Direction finders 7.3.15 GPS 7.3.16 Remote control wireless systems 7.3.17 Measuring instruments for broadcasting technology 7.3.18 Proaches and properties of the state of th			7.5.4.4	nadio systems for remote control of initiastrial technology
7.3.11 Cable television (cables, other components) 7.3.12 Closed-circuit television 7.3.13 Satellite television technology 7.3.14 Direction finders 7.3.15 GPS 7.3.16 Remote control wireless systems 7.3.17 Measuring instruments for broadcasting technology 7.3.18 Proaches and properties of the state of th	7.3.10	Television studio technology	7545	GSM / GPRS hased data networks
7.3.12 Closed-circuit television 7.3.13 Satellite television technology 7.3.14 Direction finders 7.3.15 GPS 7.3.16 PS 7.3.17 Measuring instruments for broadcasting technology 7.3.17 Measuring instruments for broadcasting technology 7.3.18 Process microprocessors, microcontroller 7.3.19 Broadcasting equipment – other 7.3.10 Components for equipment for automation and control 7.5.1 Components for equipment for automation and control 7.5.1 Process microprocessors, microcontrollers 7.5.1.1 Process microprocessors, microcontrollers 7.5.1.2 Process microprocessors, microcontrollers 7.5.1.3 Signal processors 7.5.1.4 RAM/ROM disc memories 7.5.1.5 Communication modules, I/O modules – cards 7.5.1.6 Industrial tub-star systems 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial istes 7.5.1.8.4 Industrial dus-based control computers 7.5.1.9 Monitors 7.5.1.10 Process microprocessors and memory modules 7.5.1.10 Process microprocessors and memory modules 7.5.1.2 Operation consoles for technology cabinets 7.5.1.3 Single-board control computers 7.5.1.4 Industrial control computers 7.5.1.5 Communication modules, I/O modules – cards 7.5.1.6 Communication modules, I/O modules – cards 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8 Industrial control computers 7.5.1.9 Single-board control computers 7.5.1.10 Process microprocess control computers 7.5.1.11 Visualization praces for industrial sites 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer cards for industrial control computers 7.5.1.17 Projection and presentation equipment for control rooms 7.5.1.19 Measuring peripherals for RPC 7.5.1.19 Measuring peripherals for RPC 7.5.1.10 Computer cards for industrial control computers 7.5.1.11 Output and interconnectin				
7.3.13 Satellite television technology 7.5.5 Electric and electromagnetic controllers 7.3.16 Processor American Systems 7.3.17 Agencies Controllers 7.3.17 Measuring instruments for broadcasting technology 7.5.5.2 Processor and memory modules 7.5.1 Components for equipment for automation and control 7.5.1 Process microprocessors, microcontrollers 7.5.1.1 Process microprocessors, microcontrollers 7.5.1.2 Processor and memory modules 7.5.1.3 Signal processors 7.5.1.4 RAM/ROM disc memories 7.5.1.5 Communication modules, 1/0 modules – cards 7.5.1.5 Communication modules, 1/0 modules – cards 7.5.1.6 Industrial bus-bar systems 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Industrial control computers 7.5.1.9 Monitors 7.5.1.9 Monitors 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Industrial data collection PC 7.5.1.12 Industrial keyboards 7.5.1.13 Industrial keyboards 7.5.1.14 Industrial keyboards 7.5.1.15 Computer cards for industrial sites 7.5.1.16 Computer cards for industrial sites 7.5.1.17 Panel and large-size alphanumerical displays 7.5.1.18 Industrial there in the projection and presentation equipment for control rooms 7.5.1.10 Projection and presentation equipment for control rooms 7.5.1.10 Projection and presentation equipment for control rooms 7.5.1.10 Computer cards for industrial sites 7.5.1.11 Projection and presentation equipment for control rooms 7.5.1.12 Operation consocial process control in mechanical engineering 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer grinters for industrial sites 7.5.1.17 Communication process control in mechanical engineering 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.10 Automatic control cystems for railway transport			7.5.4.5.1	communication modules for darry drives
7.3.14 Direction finders GPS 7.5.5.1 Magnetic controllers Phydrautic control systems with fuzzy logic controllers Phydrautic control systems with fuzzy logic controllers Phydrautic control systems with fuzzy logic controllers Phydrautic controllers Phydrautic control systems with fuzzy logic controllers Phydrautic Phydrautic Phydrautic Controllers Phydrautic Phydrautic Phyd			7.5.5	Flectric and electromagnetic controllers
7.3.15 GPS 7.5.5.2 Hydraulic controllers 7.3.16 Remote control wireless systems 7.5.5.3 Pneumatic controllers 7.5.17 Heasuring instruments for broadcasting technology 7.5.5.4 Electronic controllers Electronic controllers 7.5.5.5 PID controllers 7.5.5.5 PID controllers 7.5.5.5 PID controllers 7.5.5.6 Control systems with fuzzy logic 7.5.5.7 Programmable logic controllers (PLC) Instruments for automatic regulation and control 7.5.5.8 Interconnection of programmable logic controller with master computer with master computer with master computer controller with master computer (Programmable Logic controller) 7.5.5.9 Control systems PCC (Programmable Computer Controller) 7.5.5.1 Process microprocessors, microcontrollers 7.5.1.2 Process microprocessors microcontrollers 7.5.1.2 Processors and memory modules 7.5.6.1 Servomotors (pneumatic, integrated) 7.5.6.1 Servomotors (pneumatic, integrated) 7.5.6.2 Power units (actuators) 7.5.6.3 Selsyns 7.5.6.3 Selsyns 7.5.6.4 Power amplifiers 7.5.6.5 Relays 7.5.6.5 Relays 7.5.6.5 Switches for control Computers 7.5.6.6 Minipanel PC 7.5.6.6 Single-board control computers 7.5.6.7 Control rooms 7.5.6.8 Notebooks suitable for industrial sites 7.5.8 Control and measuring systems for company power engineering 7.5.1.1 Visualization panels for machine monitoring 7.5.1.1 Industrial terminals 7.5.1.1 Industrial terminals 7.5.1.1 Industrial keyboards 7.5.1.1 Projection and presentation equipment for control rooms 7.5.1.1 Computer printers for industrial sites 7.5.1.1 Industrial keyboards 7.5.1.1 Projection and presentation equipment for control rooms 7.5.1.1 Output and interconnecting cables, connectors 7.5.1.1 Output and interconnecting		55		
7.3.16 Remote control wireless systems 7.3.17 Measuring instruments for broadcasting technology 7.5.5.4 Electronic controllers 7.5.5.5 Pit Controllers 7.5.5.6 Control systems with fuzzy logic 7.5.5.7 Programmable logic controllers 7.5.5.8 Interconnection of programmable logic controller with mater computer 7.5.1.1 Process microprocessors, microcontrollers 7.5.1.2 Process microprocessors, microcontrollers 7.5.1.3 Signal processors 7.5.1.4 RAW,ROM disc memories 7.5.1.5 Communication modules 7.5.1.6 Controllers and power elements 7.5.1.7 Communication modules, 1/0 modules – cards 7.5.1.6 Industrial bus-bar systems 7.5.6.7 Control modules 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial abs-bar systems 7.5.1.8 Industrial control computers 7.5.1.8.1 Industrial data collection PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.8.1 Industrial data collection PC 7.5.1.1 Visualization panels for machine monitoring 7.5.1.1 Panel and large-size alphanumerical displays 7.5.1.1 Visualization panels for machine monitoring 7.5.1.1 Industrial terminals 7.5.1.1 Industrial terminals 7.5.1.1 Omputer printers for industrial sites 7.5.1.1 Omputer printers for industrial sites 7.5.1.1 Industrial terminals 7.5.1.1 Computer rainters for industrial sites 7.5.1.1 Computer rainters for industrial sites 7.5.1.1 Computer rainters for industrial sites 7.5.1.1 Computer printers for industrial sites 7.5.1.1 Computer rainters for industrial control computers 7.5.1.1 Computer rainters for industrial control computers 7.5.1.1 Computer rainters for industrial control computers 7.5.1.1 Computer rainters for industrial sites 7.5.1.1 Computer rainters for industrial control computers 7.5.1.1 Computer rainters for indust				
7.3.17 Measuring instruments for broadcasting technology 7.5.5.6 PID controllers 7.5.5.6 Control systems with fuzzy logic 7.5.5.7 Programmable logic controllers (PLC) 1.5.5.8 Intercenction of programmable logic controllers (PLC) 1.5.5.1 Components for equipment for automation and control 7.5.5.2 Control systems PCC (Programmable logic controller with master computer 7.5.1.1 Process microprocessors, microcontrollers 7.5.1.2 Process or and memory modules 7.5.1.3 Signal processors 7.5.1.4 RAM/ROM disc memories 7.5.1.5 Communication modules, I/O modules – cards 7.5.1.6 Industrial bus-bar systems 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8 Industrial control computers 7.5.1.8.1 Minjanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.9 Notebooks suitable for industrial sites 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial terminals 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Projection and presentation equipment for control rooms 7.5.1.18 Quetty and interconnecting cables, connectors 7.5.1.19 Projection and presentation equipment for control rooms 7.5.1.10 Computer printers for industrial sites 7.5.1.11 Output and interconnecting cables, connectors 7.5.1.12 Computer cards for industrial computers 7.5.1.13 Output and interconnecting cables, connectors 7.5.1.14 Output and interconnecting cables, connectors 7.5.1.15 Computer cards for industrial control computers 7.5.1.10 Computer cards for industrial control computers 7.5.1.10 Computer cards for industrial control computers 7.5.1.20 Computer cards for industrial control computers 7.5.1.2				· · · · · · · · · · · · · · · · · · ·
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7.5.1.1 Components for equipment for automation and control 7.5.1.2 Process microprocessors, microcontrollers 7.5.1.3 Signal processors 7.5.1.4 RAM/ROM disc memories 7.5.1.5 Communication modules, I/O modules – cards 7.5.1.6 Industrial bus-bar systems 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8.1 Minjanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.9 Monitors 7.5.1.1 Visualization panels for machine monitoring 7.5.1.1 Visualization panels for machine monitoring 7.5.1.1 Industrial keyboards 7.5.1.2 Ompure printers for industrial sites 7.5.1.3 Industrial keyboards 7.5.1.4 Rower amplifiers 7.5.5 Relays 7.5.6 Control noms 7.5.7 Control rooms 7.5.7 Control rooms 7.5.7.1 Operation consoles for technology control 7.5.8 Control and measuring systems 7.5.1.8.1 Industrial data collection PC 7.5.9 Systems for automatic production process control 7.5.1.1 Visualization panels for machine monitoring 7.5.1.1 Visualization panels for industrial sites 7.5.1.1 Industrial keyboards 7.5.1.1 Projection and presentation equipment for control rooms 7.5.1.1 Owner supplies 7.5.1.1 Owner supplies 7.5.1.1 Owner supplies 7.5.1.1 Owner supplies 7.5.1.2 Owner supplies 7.5.1.3 Output and interconnecting cables, connectors 7.5.1.3 Output and interconnecting cables, connectors 7.5.1.2 Ocomputer cards for industrial control computers 7.5.1.3 Output and interconnecting cables, connectors 7.5.1.4 Output and interconnecting cables, connectors 7.5.1.5 Output and interconnecting cables,	Instruments	s for automatic regulation and control	7.5.5.8	Interconnection of programmable logic controller
7.5.1.1 Process microprocessors, microcontrollers 7.5.1.2 Processor and memory modules 7.5.1.3 Signal processors 7.5.1.4 RAM/ROM disc memories 7.5.1.5 Communication modules, I/O modules – cards 7.5.1.5 Communication modules, I/O modules – cards 7.5.1.6 Communication modules, I/O modules – cards 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial bus-bar systems 7.5.1.8 Industrial control computers 7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial terminals 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Projection and presentation equipment for control rooms 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.10 Computer rointers for industrial sites 7.5.9.1 Systems for automatic technological process control in other industrial branches 7.5.9.2 Systems for automatic technological process control in chemical industry 7.5.9.4 Systems for automatic technological process control in other industrial branches		•		· · · · · · · · · · · · · · · · · · ·
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7.5.1.2 Processor and memory modules 7.5.1.2 Signal processors 7.5.1.3 Signal processors 7.5.6.1 Servomotors (pneumatic, integrated) 7.5.6.2 Power units (actuators) 7.5.1.5 Communication modules, I/O modules – cards 7.5.1.6 Industrial bus-bar systems 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.9 Monitors 7.5.1.0 Panel and large-size alphanumerical displays 7.5.1.1 Visualization panels for machine monitoring 7.5.1.1 Industrial terminals 7.5.1.1 Industrial terminals 7.5.1.1 Industrial terminals 7.5.1.1 Industrial terminals 7.5.1.1 Projection and presentation equipment for control rooms 7.5.1.1 Projection and presentation equipment for control rooms 7.5.1.17 Power supplies 7.5.1.18 Measuring peripherals for PC 7.5.1.19 Measuring peripherals for PC 7.5.1.10 Computer printers for industrial sites 7.5.1.2 Computer cards for industrial control computers 7.5.1.3 Output and interconnecting cables, connectors 7.5.1.4 Measuring peripherals for PC 7.5.1.5.1.2 Computer cards for industrial control computers 7.5.1.2 Automatic control systems for railway transport			7.5.5.10	Optimizing systems
7.5.1.2 Signal processors 7.5.1.4 RAM/ROM disc memories 7.5.1.5 Communication modules, I/O modules – cards 7.5.1.5 Communication modules, I/O modules – cards 7.5.1.6 Industrial bus-bar systems 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.2 Computer cards for industrial control computers 7.5.1.2 Computer cards for industrial control computers 7.5.1.3 Measuring peripherals for PC 7.5.1.4 Computer cards for industrial control computers 7.5.1.19 Measuring peripherals for PC 7.5.1.2 Computer cards for industrial control computers	7.5.1.1	Process microprocessors, microcontrollers		
7.5.1.3 Signat processors 7.5.1.4 RAM/ROM disc memories 7.5.1.5 Communication modules, I/O modules – cards 7.5.1.6 Industrial bus-bar systems 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Network servers for industrial sites 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Measuring peripherals for PC 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers	7.5.1.2	Processor and memory modules		
7.5.1.5 Communication modules, I/O modules – cards 7.5.1.6 Industrial bus-bar systems 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.8.6 Vontrol and measuring systems 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial terminals 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.10 Output and interconnecting cables, connectors 7.5.1.11 Measuring peripherals for PC 7.5.1.12 Output and interconnecting cables, connectors 7.5.1.13 Measuring peripherals for PC 7.5.1.14 Output and interconnecting cables, connectors 7.5.1.15 Measuring peripherals for PC 7.5.1.10 Computer cards for industrial control computers 7.5.1.10 Automatic control systems for railway transport	7.5.1.3	Signal processors		
7.5.1.5 Communication modules, 70 modules – Cards 7.5.1.6 Industrial bus-bar systems 7.5.1.7 Chassis, control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial terminals 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.10 Output and interconnecting cables, connectors 7.5.1.11 Output and interconnecting cables, connectors 7.5.1.12 Ocomputer cards for industrial control computers 7.5.1.15 Ocomputer cards for industrial control computers 7.5.1.16 Computer cards for industrial control computers 7.5.1.17 Own proving peripherals for PC 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Automatic control systems for automatic technological process control in other industrial branches	7.5.1.4	RAM/ROM disc memories		
7.5.1.0 Industrial control technology cabinets 7.5.1.8 Industrial control computers 7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Network servers for industrial sites 7.5.1.8.6 Notebooks suitable for industrial sites 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.2.3 Relays 7.5.7.5 Control rooms 7.5.7.7 Control rooms 7.5.7.7 Control and measuring systems 7.5.7.8 Control and measuring systems for control oms 7.5.8.1 Control and measuring systems for company power engineering 7.5.9.1 Systems for automatic technological process control in mechanical engineering 7.5.9.2 Systems for automatic technological process control in chemical industry 7.5.9.4 Systems for automatic technological process control in other industrial branches	7.5.1.5	Communication modules, I/O modules – cards		•
7.5.1.8 Industrial control computers 7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Automatic control systems for railway transport	7.5.1.6	Industrial bus-bar systems		
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7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Single-board control computers 7.5.1.3 Industrial technology control 7.5.1.4 Control and measuring systems 7.5.8 Control and measuring systems for company power engineering 7.5.8.1 Control and measuring systems for automatic production process control 7.5.8 Systems for automatic technological process control in mechanical engineering 7.5.9.2 Systems for automatic technological process control in chemical industry 7.5.9.3 Systems for automatic technological process control in power engineering 7.5.9.4 Systems for automatic technological process control in other industrial branches			7.5.0.6	Switches for control
7.5.1.8.1 Minipanel PC 7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Automatic control systems for railway transport	7.5.1.8	Industrial control computers	7 5 7	Control rooms
7.5.1.8.2 Single-board control computers 7.5.1.8.3 Network servers for industrial sites 7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Automatic control systems for railway transport		· · · · · · · · · · · · · · · · · · ·		
7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites 7.5.1.8.5 Nonitors 7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Computer cards for industrial control computers 7.5.2.3 Control and measuring systems for company power engineering 7.5.8.1 Control and measuring systems for automatic production process control control rooms 7.5.9.1 Systems for automatic technological process control in mechanical engineering 7.5.9.2 Systems for automatic technological process control in chemical industry 7.5.9.3 Systems for automatic technological process control in power engineering 7.5.9.1 Systems for automatic technological process control in chemical industry 7.5.9.2 Systems for automatic technological process control in power engineering 7.5.9.1 Systems for automatic technological process control in power engineering 7.5.9.2 Systems for automatic technological process control in power engineering 7.5.9.1 Systems for automatic technological process control in other industrial branches	7.5.1.8.2	Single-board control computers	7.5.7.1	operation consoles for technology control
7.5.1.8.4 Industrial data collection PC 7.5.1.8.5 Notebooks suitable for industrial sites  7.5.1.8.5 Notebooks suitable for industrial sites  7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Control and measuring systems for company power engineering 7.5.9.9 Systems for automatic production process control 7.5.9.1 Systems for automatic technological process control 7.5.9.2 Systems for automatic technological process control 7.5.9.3 Systems for automatic technological process control in power engineering 7.5.9.4 Systems for automatic technological process control in power engineering 7.5.9.5 Systems for automatic technological process control in other industrial branches 7.5.9.9 Systems for automatic technological process control in other industrial branches	7.5.1.8.3		758	Control and measuring systems
7.5.1.8.5 Notebooks suitable for industrial sites  7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.10 Systems for automatic technological process control in power automatic technological process control in power industrial branches 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.20 Computer cards for industrial control computers 7.5.1.10 Automatic control systems for railway transport	7.5.1.8.4			
7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.10 Systems for automatic technological process control in mechanical engineering 7.5.9.1 Systems for automatic technological process control in chemical industry 7.5.9.2 Systems for automatic technological process control in power engineering 7.5.9.3 Systems for automatic technological process control in power engineering 7.5.9.4 Systems for automatic technological process control in other industrial branches 7.5.9.99 Systems for automatic technological process control in other industrial branches 7.5.1.10 Automatic control systems for railway transport	7.5.1.8.5	Notebooks suitable for industrial sites	7.5.0.1	company power engineering
7.5.1.9 Monitors 7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.10 Systems for automatic technological process control in mechanical engineering 7.5.9.1 Systems for automatic technological process control in chemical industry 7.5.9.2 Systems for automatic technological process control in power engineering 7.5.9.3 Systems for automatic technological process control in power engineering 7.5.9.4 Systems for automatic technological process control in other industrial branches 7.5.9.99 Systems for automatic technological process control in other industrial branches 7.5.1.10 Automatic control systems for railway transport			7.5.9	Systems for automatic production process control
7.5.1.10 Panel and large-size alphanumerical displays 7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.10 Control systems for automatic technological process control in other industrial branches 7.5.1.10 Automatic control systems for railway transport	7.5.1.9			
7.5.1.11 Visualization panels for machine monitoring 7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Systems for automatic technological process control in power automatic technological process control in other industrial branches 7.5.1.20 Automatic control systems for railway transport				
7.5.1.12 Joysticks and trackballs for industrial sites 7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.17 Industrial keyboards 7.5.1.18 Systems for automatic technological process control in power engineering 7.5.1.19 Automatic control systems for railway transport			7.5.9.2	
7.5.1.13 Industrial terminals 7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.17 Automatic technological process control in power engineering 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Automatic control systems for railway transport				in mechanical engineering
7.5.1.14 Industrial keyboards 7.5.1.15 Projection and presentation equipment for control rooms 7.5.1.16 Computer printers for industrial sites 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.14 Industrial keyboards 7.5.9.4 Systems for automatic technological process control in power engineering 7.5.9.9 Systems for automatic technological process control in other industrial branches 7.5.1.19 Automatic control systems for railway transport			7.5.9.3	Systems for automatic technological process control
7.5.1.16 Computer printers for industrial sites engineering 7.5.1.17 Power supplies 7.5.1.18 Output and interconnecting cables, connectors 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.10 engineering 7.5.9.99 Systems for automatic technological process control in other industrial branches 7.5.1.19 Automatic control systems for railway transport		· · · · · · · · · · · · · · · · · · ·		
7.5.1.16 Computer printers for industrial sites Power supplies 7.5.1.17 Output and interconnecting cables, connectors 7.5.1.18 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 engineering 7.5.9.99 Systems for automatic technological process control in other industrial branches 7.5.9.99 Automatic control systems for railway transport			7.5.9.4	
7.5.1.18 Output and interconnecting cables, connectors industrial branches 7.5.1.19 Measuring peripherals for PC 7.5.1.20 Computer cards for industrial control computers 7.5.1.20 Automatic control systems for railway transport	7.5.1.16			
<ul> <li>7.5.1.19 Measuring peripherals for PC</li> <li>7.5.1.20 Computer cards for industrial control computers</li> <li>7.5.10 Automatic control systems for railway transport</li> </ul>			7.5.9.99	Systems for automatic technological process control in other
7.5.1.20 Computer cards for industrial control computers 7.5.1.0 Automatic control systems for railway transport	7.5.1.18			
7.5.1.21 UPS for control, automation and regulation technology 7.5.11 Automatic control systems for air service				
	7.5.1.21	UPS for control, automation and regulation technology	7.5.11	Automatic control systems for air service



7.5.12	Measuring and automation equipment for support	7.12.8	Production management
	and distribution	7.12.8.1	Operative workshop planning and management
7.5.13	GIS (Graphic Information Systems) for utility lines administration	7.12.8.2	APS (Advanced Planning System) systems for advanced production planning and scheduling
7.5.14	Data collecting and processing equipment for control	7.12.9	Quality monitoring, CAQ (Computer Aided Quality) systems
	computers	7.12.10	Norms setting
7.5.14.1	Bar code readers	7.12.11	Technology
7.5.14.2	RFID technologies	7.12.12	Service and maintenance
		7.12.13	Statistics and analysis for top management
7.5.15	Image processing systems	7.12.14	Information tracing and utilization for management
7.5.15.1	Robot vision for 2D images	7.12.15	Decision-support systems
7.5.15.2	Robot vision for 3D images	7.12.16	Business Intelligence (Data Warehausing/Data Mining)
,,,,,,,,,	Nobel Vision for 55 images	7.12.17	CRM (Customer Relationship Management) systems
7.5.16	Data distribution technology in buildings	7.12.18	Marketing
7.5.10 7.5.17	Redundant control systems with high reliability	7.12.19	Company processes modelling and optimizing (Workflow,
		7.12.19	
7.5.18	Explosion-proof components and systems for control, automation and regulation equipment	7.12.20	Reengineering) HelpDesk tools supporting business applications
	automation and regulation equipment	7.12.20	Hetpbesk toots supporting business applications
7.5.99	Instruments and equipment for automatic control – other	7.12.99	General software for business management – other
Warning an	d safety equipment	Software for	offices and institutions
7.6.1	Railway, air and road warning and safety equipment	7.13.1	Electronic mail
7.6.2	Mining safety equipment	7.13.2	Team work support software
7.6.3	Monitoring and warning systems for danger	7.13.3	Document processing
7.6.4	Fault reporting systems	7.13.4	Document archiving
7.6.99	Warning and safety equipment – other	7.13.5	Office automation support software
7.0.55	warning and safety equipment – other	7.13.6	DMS systems (Document Management System) for control
Cunomicina	and control ocuinment	7.13.0	and management of structured and unstructured documents
Supervising	and control equipment	7.13.99	Software for offices and institutions – other
7.7.1	Access checking		
7.7.1.1	Light barriers and other photoelectric devices	System inte	gration, complex solution of ERP systems
7.7.1.2	Access systems with magnetic and chip cards	7.14.1	Systems for complete document administration, flow management
			and storage (Workflow)
7.7.2	Personnel and luggage checking equipment	7.14.2	PLM systems for complex product lifecycle management
7.7.3	TV monitoring equipment	7.14.3	Integrated business system for companies
		7.14.4	Comprehensive production plant management system
7.8	Fire, gas detecting systems	7.14.5	Comprehensive non-production plant management system
		7.14.6	Comprehensive management system for budget and publicly
7.9	Antifire and antiexplosion safety equipment in industrial		funded organizations
,.,	plants	7.14.7	Comprehensive management system for production and business
7.9.1	Fire safety systems for machine-tools and forming machines		concerns
7.9.2	Spray booth fire safety systems	7.14.8	Comprehensive management for holding companies
7.9.2	Spray booth file safety systems	7.14.9	Company management network system
C	. 4 - 4	7.14.10	Modular system of business management
	detecting robberies, danger, entry of unauthorized persons	7.14.10	Comprehensive information system for crisis management
7.10.1	Systems with central security board	7.14.11	completiensive information system for crisis management
7.10.2	Electric and photoelectric supervision systems	7.14.99	System integration, complex solution of ERP – other
7.10.2.1	CCD camera systems		
7.10.2.2	Broken glass detectors	7.15	System integration in the sector of industrial information,
	TD	7 1 5 1	measuring and control systems
7.10.3	IR supervision systems	7.15.1	Made-to-order development of software and hardware in the field
7.10.4	Ultrasonic supervision systems		of automation
7.10.5	Microwave supervision systems		
7.10.6	Laser and radar supervision systems	7.16	Training machines and equipment
7.10.7	Seismic sensor systems (geophones)	7.17	CAD, CAM, CIM in control, automation and regulation
- 44	* 1	7 10	technology Consultancy in control, automation and regulation
7.11	Industrial robots and their assemblies	7.18	· · · · · · · · · · · · · · · · · · ·
7.11.1	Micro-positioning systems	7.40	technology
7.11.2	Robotic cells	7.19	Engineering design services in the field of control, automation
7.11.3	Turn-key integrated solutions of robotized production processes		and regulation technology
General soft	tware for business management	7.20	Service and repairs of equipment and instruments
7.12.1	Tangible and intangible property records		in control, automation and regulation technology
7.12.1	Invoicing	7.20.1	Diagnostics of control, automation and regulation technology
		7.20.1	Spare parts for control, automation and regulation technology
7.12.3	Book-keeping	7.20.2	Refurbishment and upgrading of control, automation
7.12.4	Human resources	7.20.3	
7.12.5	Wages and salaries		and regulation technology
7.12.6	Software supporting development of new industrial products	7.00	Florents and material to the first state of
	Tachnical propagation for production	7.29	Elements and systems in control, regulation and automation
7.12.7	Technical preparation for production		technology



	veighing technology	7.34.99	Equipment and measuring instruments for electric
7.31.1	Components and parts of scales		variables – other
7.31.2	Weighbridge		
7.31.3	Belt conveyer scales	7.35	Universal power supplies
.31.4	Crane scales	7.35.1	Universal supplies of stabilized voltage
.31.5	Dosing scales	7.35.2	Universal supplies of stabilized current
.31.6	Sack and filling scales		
7.31.7	Electronic balances and weighing	7.36	High voltage power supplies
7.31.8	Laboratory balances	7.37	Calibration standards for electrical engineering technology
.51.0	Euboratory battarices		
ima mascu	ring instruments	Sensors for a	picking up mechanical variables
7.32.1	Electric and electronic clocks	5013013101	prening up incentificate variables
7.32.2	Checking clocks	7.38.1	Sensors for picking up mechanical
		7.38.1.1	Pressure sensors
7.32.3	Timers	7.38.1.2	Pressure difference sensors
7.32.4	Time control displays	7.38.1.3	Speed sensors
.32.5	Special purpose time measuring instruments	7.38.1.4	Acceleration sensors
.32.6	Operation hour counters		
		7.38.1.5	Load sensors
	nical instruments	7.38.1.6	Position sensors
.33.1	Components for optomechanical instruments	7.38.1.7	Path sensors icluding gyroscopic systems
.33.2	Microscopes and accessories	7.38.1.8	Length, distance sensors
7.33.3	Geodetic and cartographic instruments	7.38.1.9	Shift / feed sensors
.33.4	Photogrammetric instruments and accessories	7.38.1.10	Thickness sensors
'.33.5	Telescopes, magnifiers	7.38.1.11	Angle sensors
.33.6	Astronomic instruments	7.38.1.12	Revolution sensors
.33.7	Optomechanical spectral analysers	7.38.1.13	Sensors of speed, velocity, acceleration
'.33.8	Fibre optics	7.38.1.14	Fluid flow sensors
'.33.9	Industrial endoscopes	7.38.1.15	Gas flow sensors
.33.10	Profile projectors	7.38.1.16	Fluid level sensors
.33.10 '.33.99		7.38.1.17	Fluid level measured value sensors
.55.99	Optomechanical instruments – other	7.38.1.18	Surface quality evaluating sensors
	- f	7.38.1.19	Force sensors
nstruments	s for measuring of electric variables	7.38.1.20	Sensors of force, strain, deformation and bending
		7.38.1.21	Vibration sensors
'.34.1	Multimeters	7.38.1.22	Torque sensors
<b>'.34.2</b>	Ammeters	7.38.1.99	Sensors for picking up mechanical quantities – other
.34.3	Digital avometers (multimeters)	7.50.1.99	Sensors for picking up mechanical quantities – other
7.34.4	Voltmeters	7.38.2	Concore for misling up alastric quantities and narameters
7.34.5	Voltage testers		Sensors for picking up electric quantities and parameters
7.34.6	Charging meters	7.38.3	Sensors for picking up acoustic quantities and parameters
7.34.7	R-L-C-Z meters	7.00 /	
7.34.8	Conductance meters	7.38.4	Sensors for picking up optical quantities and parameters
		7.38.4.1	Optical sensors
.34.9	Universal analyzers of analog and digital LF systems	7.38.4.2	Optoelectronic sensors
.34.9.1	Universal measuring instruments	7.38.4.3	Sensors of light signal parameters in glass fibres
.54.3.1	Offiversal measuring mistraments	7.38.4.4	Picture sensors
'.34.10	Instruments for measuring of voltage, current, resistance	7.38.4.5	Colour sensors
.34.10		7.38.4.99	Sensors for picking up optical quantities and parameters – other
	and output for HV		
.34.11	Switchboard measuring instruments	7.38.5	Temperature and thermal power sensors
.34.12	Oscilloscopes	7.38.5.1	Contactless temperature sensors
.34.13	Electric meters	7.38.5.2	Thermal power sensors
.34.14	Measuring bridges		·
.34.15	Measuring photoelectric instruments	7.38.6	Sensors for picking up magnetic quantities and parameters
.34.16	Measuring amplifiers	7.38.6.1	Sensors for measuring of magnetic quantities
.34.17	Measuring transducers	7.38.6.2	Magnetic field detectors
.34.18	Harmonic distortion analyzers	7.38.6.3	Sensors of magnetic field parameters
.34.19	Spectral analyzers of electric signals	7.50.0.5	23.3013 of magnetic fieta parameters
.34.20	Signal analyzers	7.38.7	Humidity sensors
	Electric network analyzers	7.38.7.1	
		7.38.7.1 7.38.7.2	Absolute humidity sensors Relative humidity sensors
.34.21	Local network cable analyzers		
'.34.21 '.34.22	Local network cable analyzers  Phase meters		
.34.21 .34.22 .34.23	Phase meters	7.38.7.3	Liquid leak detectors
7.34.21 7.34.22 7.34.23 7.34.24	Phase meters Attenuation level meters	7.38.7.3	Liquid leak detectors
7.34.21 7.34.22 7.34.23 7.34.24 7.34.25	Phase meters Attenuation level meters Noise meters		
7.34.21 7.34.22 7.34.23 7.34.24 7.34.25 7.34.26	Phase meters Attenuation level meters Noise meters Digital channel testers	7.38.7.3 7.38.8	Liquid leak detectors  Sensors for picking up chemical quantities and parameters
.34.21 .34.22 .34.23 .34.24 .34.25 .34.26 .34.27	Phase meters Attenuation level meters Noise meters Digital channel testers HF power meters	7.38.7.3 7.38.8	Liquid leak detectors
.34.21 .34.22 .34.23 .34.24 .34.25 .34.26 .34.27 .34.28	Phase meters Attenuation level meters Noise meters Digital channel testers HF power meters Electronic component testers	7.38.7.3 7.38.8	Liquid leak detectors  Sensors for picking up chemical quantities and parameters
.34.21 .34.22 .34.23 .34.24 .34.25 .34.26 .34.27 .34.28	Phase meters Attenuation level meters Noise meters Digital channel testers HF power meters	7.38.7.3 7.38.8	Liquid leak detectors  Sensors for picking up chemical quantities and parameters
.34.21 .34.22 .34.23 .34.24 .34.25 .34.26 .34.27 .34.28 .34.29	Phase meters Attenuation level meters Noise meters Digital channel testers HF power meters Electronic component testers	7.38.7.3 7.38.8 Measuring i	Liquid leak detectors  Sensors for picking up chemical quantities and parameters  instruments of physical quantities  Measuring instruments for length, angle, thread
.34.21 .34.22 .34.23 .34.24 .34.25 .34.26 .34.27 .34.28 .34.29 .34.30	Phase meters Attenuation level meters Noise meters Digital channel testers HF power meters Electronic component testers Digital integrated circuit testers	7.38.7.3 7.38.8 Measuring in 7.39.1 7.39.1.1	Liquid leak detectors  Sensors for picking up chemical quantities and parameters  Instruments of physical quantities  Measuring instruments for length, angle, thread  Length meters
7.34.21 7.34.22 7.34.23 7.34.24 7.34.25 7.34.26 7.34.27 7.34.28 7.34.29 7.34.30 7.34.31	Phase meters Attenuation level meters Noise meters Digital channel testers HF power meters Electronic component testers Digital integrated circuit testers Logic analyzers Data interface analyzers	7.38.7.3 7.38.8  Measuring in 7.39.1 7.39.1.1 7.39.1.2	Liquid leak detectors  Sensors for picking up chemical quantities and parameters  Instruments of physical quantities  Measuring instruments for length, angle, thread  Length meters  Angle meters
7.34.21 7.34.22 7.34.23 7.34.24 7.34.25 7.34.26 7.34.27 7.34.28 7.34.29 7.34.30 7.34.31 7.34.32	Phase meters Attenuation level meters Noise meters Digital channel testers HF power meters Electronic component testers Digital integrated circuit testers Logic analyzers Data interface analyzers Computer cards for PC logic analyzer	7.38.7.3  7.38.8  Measuring in 7.39.1  7.39.1.1  7.39.1.2  7.39.1.3	Liquid leak detectors  Sensors for picking up chemical quantities and parameters  Instruments of physical quantities  Measuring instruments for length, angle, thread  Length meters  Angle meters  Thread gauges
7.34.21 7.34.22 7.34.23 7.34.24 7.34.25 7.34.26 7.34.27 7.34.28 7.34.29 7.34.30 7.34.31 7.34.31 7.34.32 7.34.33	Phase meters Attenuation level meters Noise meters Digital channel testers HF power meters Electronic component testers Digital integrated circuit testers Logic analyzers Data interface analyzers	7.38.7.3 7.38.8  Measuring in 7.39.1 7.39.1.1 7.39.1.2	Liquid leak detectors  Sensors for picking up chemical quantities and parameters  Instruments of physical quantities  Measuring instruments for length, angle, thread  Length meters  Angle meters



7.39.1.7	Laser levelling instruments	7.39.19	Detectors of underground supply lines
7.39.1.8	Equipment for contactless size measurements	7.39.20	X-ray and nuclear radiation measuring instruments
	• •	7.39.21	Viscosity meters
7.39.2	Velocity meters	7.39.22	Surface tension and contact angle meters
7.39.2	Acceleration meters	7.39.23	Systems and instruments for physical quantity calibration
7.39.3	Acceleration meters		
		7.39.24	Testing and calibration measuring instruments and standards for
7.39.4	Flow meters		physical quantities
7.39.4.1	Flow meters for liquids		
7.39.4.2	Water meters for cold water	7.39.99	Measuring instruments for other physical parameters
7.39.4.3	Water meters for hot water		
7.39.4.4	Gas flow meters	Measuring ir	nstruments for chemical quantities
7.39.4.5	Gas meters (diaphragm, turbine)	7.40.1	Measuring instruments for pH, redox potential
7.55.4.5	das meters (diapmagni, tarbine)	7.40.1	and conductance
7 20 5	Manageria de la compansión de la compans	7 /0 0	
7.39.5	Measuring instruments of phenomenon abundance	7.40.2	Measuring instruments and analyzers of harmful gases
7.39.5.1	Pulse counters with and without preselection	7.40.3	Oxygen meters
		7.40.4	Stationary and portable detectors of flammable gases
7.39.6	Speed indicators	7.40.5	Exhaust gas analyzers
		7.40.6	Gas analysis and monitoring instruments
7.39.7	Temperature meters	7.40.7	Measuring instruments and analyzers of toxic substances
7.39.7.1	Digital temperature meters	7.40.8	Ion meters
7.39.7.2	Contactless temperature meters	7.40.9	Devices for fast chemical analysis
7.39.7.2		7.40.99	Instruments for measurements of chemical quantities – other
	Pyrometers, infrapyrometers	7.40.99	This duffierts for measurements of chemical quantities – other
7.39.7.4	Temperature meters with thermocouples		
7.39.7.5	Resistance thermometers	7.41	Laser measuring instruments
7.39.7.6	Measured temperature recorders		
7.39.7.7	Pointer thermometers	Measuring sy	ystems and instruments
		7.42.1	Measuring instruments for meteorology
7.39.8	Thermal power and output meters		
7.39.8.1	Industrial temperature monitoring systems		Measuring instruments for mechanical engineering
7.39.8.2	Cameras for infra-red thermography	7.42.2.1	Gauges for mechanical engineering
		7.42.2.2	Micrometers
7.39.8.3	Instruments for thermal analysis		Inside micrometers
7.39.8.4	Calorimeters	7.42.2.3	Triside inicronieters
7.39.8.5	Heat meters		
		7.42.2.4	Coordinate measuring devices and accessories
7.39.9	Optical measuring instruments	7.42.2.4.1	3D coordinate measuring devices and elements
7.39.9.1	UV and IR radiation meters		
7.39.9.2	Measuring instruments for optical waveguides	7.42.2.5	Measuring instruments for bearings
7.39.9.3	Luxmeters	7.42.2.6	Measuring instruments for gear wheels
7.39.9.4	Optoelectronic measuring instruments	7.42.2.7	Balancing machines
		7.42.2.8	Operational balancing machines
7.39.9.5	Color meters	7.42.2.9	Diagnostics of gears and bearings
7.39.9.6	Gloss meters	7.42.2.10	Vibration diagnostics
7.39.9.7	Optical sources with defined characteristics		
		7.42.2.11	Monitoring of rotary machine condition
7.39.10	Force measuring instruments	7.42.2.12	Surface roughness and roundness measuring devices
		7.42.2.13	Instruments for destructive and non-destructive testing of weld
7.39.11	Pressure measuring instruments		joinst
7.39.11.1	Gas pressure measuring instruments	7.42.3	Measuring instruments for civil engineering
7.39.11.1	Vacuum meters	7.42.4	Measuring instruments for agriculture
7.39.11.1.1	vacuum meters		
		7.42.5	Measuring devices for plastics and rubbers
7.39.11.2	Liquid pressure meters	7.42.5.1	Rheometers for measurements of rheological plastics properties
7.39.11.3	Dynamic pressure meters	7.42.5.1	<b>3</b> , , ,
			Viscometers for plastics and rubbers Plastometers
7.39.12	Mass, thickness, area meters	7.42.5.3	Plastometers
7.39.12.1	Equipment for continuous mix density measurements		
7.39.12.2	Filling level sensors, liquid level sensors	7.42.6	Testing and calibration instruments and systems
, 10011212	r taing to recombons, aquia to recombons	7.42.7	Measuring instruments for metrology
7.39.13	Measuring instruments and analyzers of vibrations	7.42.8	Universal modular measuring devices with replaceable
7.39.13	Measuring instruments and analyzers of vibrations		pickups
		7.42.9	Automatic samplers
7.39.14	Acoustic measuring instruments		<b>'</b>
7.39.14.1	Noise dosimeters	7.42.99	Measuring instruments and systems for other branches
7.39.14.2	Sound level meters	7.72.33	
7.39.14.3	Noise monitoring instruments	I shavata	nd scientific instruments
7.39.14.4	Hydroacoustic instruments	•	and scientific instruments
7.39.14.5	Ultrasonic measuring instruments	7.43.1	Laboratory glass
55.17.5	ota asome measaring instruments	7.43.2	Laboratory china
7 20 15	Filling lovel and surface height measuring instruments		
7.39.15	Filling level and surface height measuring instruments	7.43.3	Pipettes and liquid dosing devices
7.39.16	Torque measuring instruments	7.43.3.1	Titrators
7.39.17	Moisture measuring instruments		
		7.43.4	Laboratory thermometers
7.39.18	Measuring instruments of magnetic quantities	7.43.5	Laboratory driers
7.39.18.1	Metal detectors	7.43.6	Laboratory cooling equipment
		/ .43.0	Laboratory Cooling Equipment



7.43.7 7.43.8	Lyophylizers (freeze driers) Distilling and extraction devices	7.43.37 7.43.38	Laboratory handling devices Laboratory cleaning machines
.43.9	Emulgation, homogenization and dispersing equipment	7.43.39	Laboratory tools of precious metals
	for laboratories	7.43.40	Equipment for school laboratories, school measuring
.43.10	Laboratory autoclaves		instruments
<b>43.11</b> 43.11.1	Climatic and temperature chambers for laboratories Thermostats	7.43.99	Laboratory and scientific instruments – other
43.12	Laboratory furnaces and accessories	7.44	Laboratory furniture
.43.12	•	Instruments	for checking material properties and faults
.43.13	Vacuum technology for laboratories	7.45.1	Components of equipment for checking material properties
.43.13.1	Laboratory vacuum pumps		and faults
43.13.2	Laboratory vacuum meters		
43.13.99	Vacuum technology – other	7.45.2	Equipment for static tests of material properties
/a aa		7.45.2.1	Material and layer thickness testing equipment
43.20	Laboratory instrumentation	7.45.2.2	Surface roughness testing equipment
(2.00.4		7.45.2.3	Porosity testing equipment
43.20.1	Laboratory analyzers	7.45.2.4	Roughness meters
43.20.1.1	Polarographs		<b>3</b>
43.20.1.2	X-ray fluorescence equipment	7.45.3	Equipment for dynamic tests of material properties
43.20.2	Filtration instruments for laboratories	<b>,</b> :	Marketta de la companya de la compa
43.20.3	Separation equipment for laboratories	7.45.3.1	Material hardness testing equipment
43.20.4	Laboratory centrifuges	7.45.3.2	Material testing equipment for tension, pressure, bending
43.20.5	Laboratory separators		and shear
	<b>,</b>	7.45.3.3	Adhesion detectors
43.20.6	Laboratory screening machines	7.45.3.4	Tensile testing machines
43.20.7	Laboratory colouring instruments	7.45.3.5	Wear testing equipment, simulation of operating stress
43.20.8	Special scientific instruments	7.45.3.6	Equipment for testing of fatigue cracks and fatigue toughness
.43.21	Optical laboratory instruments	7.45.3.7	Material elasticity testing equipment
43.21.1	Polarimeters	7.45.3.7.1	Spring testers
43.22	Spectrometers	7.45.3.8	Equipment for testing thermal properties of material
.43.22.1	X-ray spectrometers		
.43.22.1	Infra-red spectrometers	7.45.3.9	Dilatometers
43.22.2	·	7 /5 /	
	UV spectrometers Atomic absorption spectrometers	7.45.4	Material structure testing devices
.43.22.4	Mass spectrometers	7.45.4.1	Ultrasonic testing instruments
.43.22.5 .43.22.6	Spark spectrometers	7.45.4.2	Non-destructive testing instruments (flaw/crack detection)
43.22.7	Spectrum database	7.45.4.3	Building material property testing equipment
			March Land
(2.22	Laborator, misrosomos	7.45.5	Material crack testing
.43.23	Laboratory microscopes	7.45.5 7.45.6	Material crack testing Pipeline, valve and tank leak testing
.43.23.1	Electron microscopes		
.43.23.1 .43.23.2	Electron microscopes Infra-red microscopes	7.45.6	Pipeline, valve and tank leak testing
43.23.1 43.23.2	Electron microscopes	7.45.6	Pipeline, valve and tank leak testing
43.23.1 43.23.2 43.23.3	Electron microscopes Infra-red microscopes	7.45.6 7.45.7	Pipeline, valve and tank leak testing Cable fault localization
.43.23 .43.23.1 .43.23.2 .43.23.3	Electron microscopes Infra-red microscopes Laser microscopes	7.45.6 7.45.7 7.45.8 7.45.8.1	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers
.43.23.1 .43.23.2 .43.23.3	Electron microscopes Infra-red microscopes Laser microscopes	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers
43.23.1 43.23.2 43.23.3 43.24 43.25	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)	7.45.6 7.45.7 7.45.8 7.45.8.1	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10 7.45.10.1	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10 7.45.10.1	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10 7.45.10.1 7.45.11.1	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices
.43.23.1 .43.23.2 .43.23.3	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10 7.45.10.1	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31 43.32	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10 7.45.10.1 7.45.11.1 7.45.11.1 7.45.11.2 7.45.11.3	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries
43.23.1 43.23.2 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31 43.32	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10 7.45.10.1 7.45.11.1 7.45.11.1	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor
43.23.1 43.23.2 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10 7.45.10.1 7.45.11.1 7.45.11.1 7.45.11.2 7.45.11.3	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries
43.23.1 43.23.2 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31 43.32	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry Devices for multicomponent analysis of oils and gases without	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10 7.45.11.1 7.45.11.1 7.45.11.2 7.45.11.3	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries Testing equipment for the automotive industry
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31 43.32 43.32.1	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry Devices for multicomponent analysis of oils and gases without	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10.1 7.45.11.1 7.45.11.1 7.45.11.2 7.45.11.3	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31 43.32 43.32.1	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry Devices for multicomponent analysis of oils and gases without separation  Measuring instruments for interphase chemistry	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10.1 7.45.11.1 7.45.11.1 7.45.11.2 7.45.11.3 7.45.11.4 7.45.11.5 7.45.11.6	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering Diagnostics of electric motors
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31 43.32 43.32.1	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry Devices for multicomponent analysis of oils and gases without separation  Measuring instruments for interphase chemistry  Equipment for work with radioactive substances	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10.1 7.45.11.1 7.45.11.2 7.45.11.3 7.45.11.4 7.45.11.5 7.45.11.6 7.45.11.7	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering Diagnostics of electric motors Testing equipment for plastic and rubber products
.43.23.1 .43.23.2 .43.23.3 .43.24 .43.25 .43.25.1 .43.26 .43.27 .43.28 .43.29 .43.30	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry Devices for multicomponent analysis of oils and gases without separation  Measuring instruments for interphase chemistry	7.45.6 7.45.7 7.45.8 7.45.8.1 7.45.9 7.45.9.1 7.45.10.1 7.45.11.1 7.45.11.2 7.45.11.3 7.45.11.4 7.45.11.5 7.45.11.6 7.45.11.7	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering Diagnostics of electric motors Testing equipment for plastic and rubber products Casting tightness testing machines  Testing and checking equipment for testing of material
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31 43.32 43.32.1 43.33 43.34.1	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry Devices for multicomponent analysis of oils and gases without separation  Measuring instruments for interphase chemistry  Equipment for work with radioactive substances	7.45.6 7.45.8 7.45.8 7.45.9 7.45.9 7.45.10 7.45.10.1 7.45.11.1 7.45.11.2 7.45.11.3 7.45.11.4 7.45.11.5 7.45.11.6 7.45.11.7	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering Diagnostics of electric motors Testing equipment for plastic and rubber products Casting tightness testing machines
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31 43.32 43.32.1 43.33 43.34.1 43.35	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry Devices for multicomponent analysis of oils and gases without separation  Measuring instruments for interphase chemistry  Equipment for work with radioactive substances Instruments for isotope analysis  Linear accelerators	7.45.6 7.45.7 7.45.8 7.45.8 7.45.9 7.45.9 7.45.10 7.45.10.1 7.45.11.1 7.45.11.2 7.45.11.3 7.45.11.4 7.45.11.5 7.45.11.8 7.45.99  Systems for l	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering Diagnostics of electric motors Testing equipment for plastic and rubber products Casting tightness testing machines  Testing and checking equipment for testing of material properties and faults – other
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31 43.32 43.32.1 43.33 43.34 43.34 43.35 43.36	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry Devices for multicomponent analysis of oils and gases without separation  Measuring instruments for interphase chemistry  Equipment for work with radioactive substances Instruments for isotope analysis  Linear accelerators  Auxiliary laboratory instruments	7.45.6 7.45.7 7.45.8 7.45.8 7.45.9 7.45.9.1 7.45.10 7.45.10.1 7.45.11.1 7.45.11.2 7.45.11.3 7.45.11.4 7.45.11.5 7.45.11.8 7.45.99  Systems for 17.46.1	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering Diagnostics of electric motors Testing equipment for plastic and rubber products Casting tightness testing machines  Testing and checking equipment for testing of material properties and faults – other  PC-based data measurement and analysis Measured value collection systems, loggers
43.23.1 43.23.2 43.23.3 43.24 43.25 43.25.1 43.26 43.27 43.28 43.29 43.30 43.31 43.32 43.32.1	Electron microscopes Infra-red microscopes Laser microscopes  Instruments for chromatography (liquid, gas, accessories)  Diffractometers Particle size analyzers  Refractometers Spectrophotometers Colorimeters Turbidity meters Metallography devices High-pressure laboratory devices  Laboratory equipment for the petrochemical and oil industry Devices for multicomponent analysis of oils and gases without separation  Measuring instruments for interphase chemistry  Equipment for work with radioactive substances Instruments for isotope analysis  Linear accelerators	7.45.6 7.45.7 7.45.8 7.45.8 7.45.9 7.45.9 7.45.10 7.45.10.1 7.45.11.1 7.45.11.2 7.45.11.3 7.45.11.4 7.45.11.5 7.45.11.8 7.45.99  Systems for l	Pipeline, valve and tank leak testing Cable fault localization  Corrosion testing and analysis equipment Corrosion chambers  Sun radiation effect testers Sun simulating chambers  Equipment for vibration effect testing Vibration chambers  Product testing equipment Industrial X-ray devices Equipment for continuous quality checking in production Testing equipment for the semiconductor and microprocessor industries Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering Diagnostics of electric motors Testing equipment for plastic and rubber products Casting tightness testing machines  Testing and checking equipment for testing of material properties and faults – other



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### **ECOLOGICAL TECHNOLOGY**



Air-condition	ing equipment	8.2	Pumping stations
8.1.1	Components for air-conditioning equipment	Technologie	s for the treatment of drinking, service and technological water
8.1.1.1	Air pipelines	recimologies	s for the treatment of armking, service and technological water
		0.2.1	Danium of water twenty alouts
8.1.1.2	Pneumatic haulage equipment	8.3.1	Design of water treatment plants
8.1.1.3	Air distribution equipment	8.3.2	Water treatment plant sedimentation and filtration units
		8.3.3	Aeration equipment for water treatment plants
8.1.2	Fans and accessories	8.3.4	Flocculation equipment for water treatment plants
8.1.2.1	Axial fans	8.3.5	Filters for the removal of mechanical impurities during water
8.1.2.2	Radial fans	0.0.0	treatment
8.1.2.99	Fans – other	8.3.6	Screens and sieves for water treatment plants
0.1.2.99	raiis – Otilei		
		8.3.7	Centrifugal impurity separators
8.1.3	Air and gas dedusting equipment		
8.1.3.1	Centrifugal dust separators	8.3.8	Chemical and physical water treatment
8.1.3.2	Accessories for air and gas dedusting equipment	8.3.8.1	Dosing equipment for water treatment plants
8.1.3.3	Air cleaners	8.3.8.2	Equipment for the elimination of iron and manganese during
			water treatment
8.1.4	Solid particle separators	8.3.8.3	Water softening and demineralization equipment
8.1.4.1	Electrostatic separators	8.3.8.4	Water desalting equipment
		8.3.8.5	Water decarbonization equipment
8.1.5	Solid particle filters	8.3.8.6	Water dechlorination equipment
8.1.5.1	Filtration textiles	8.3.8.7	Filters for the elimination of unpleasant water odours
8.1.5.2	Cloth filters		and flavours
		8.3.8.8	Equipment for the elimination of radon from water
8.1.6	Exhaust and flue gas cleaning equipment	0.5.0.0	242. Principle of the committee of reach from water
0.1.0	Exhaust and fide gas cleaning equipment	0000	
		8.3.8.9	Equipment for membrane separation processes
8.1.7	Heat exchangers for air-conditioning	8.3.8.9.1	Microfiltration
8.1.7.1	Heat recycling exchangers	8.3.8.9.2	Ultrafiltration
		8.3.8.9.3	Reverse osmosis
8.1.8	Air-conditioning equipment for clean rooms		
8.1.8.1	Ventilation equipment	8.3.8.10	Ionex systems for water treatment plants
			Equipment for water disinfection in treatment plants
8.1.8.2	Air heating	8.3.8.11	···
8.1.8.3	Exhausters	8.3.8.12	Magnetic water treatment
8.1.8.4	Industrial air cleaning systems for machine-tools, forming	8.3.8.13	Degasifying equipment
	machines and production rooms	8.3.8.99	Chemical and physical water treatment – other
8.1.9	Equipment for separation of polluted gaseous substances from	8.3.9	Treatment of household water
	air and combustion products	8.3.9.1	Household water treatment filters
8.1.9.1	Absorptive equipment for the purification of pollutant-loaded air		
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8.1.9.2	Adsorptive equipment for the purification of pollutant-loaded air	8.3.10	Auxiliary equipment and accessories for water treatment plants
8.1.9.2 8.1.9.3	Biological equipment for the removal of waste substances from	8.3.11	Turn-key water treatment plants
	Biological equipment for the removal of waste substances from pollutant-loaded air		
	Biological equipment for the removal of waste substances from	8.3.11	Turn-key water treatment plants
8.1.9.3	Biological equipment for the removal of waste substances from pollutant-loaded air Catalytic incineration equipment for pollutant-loaded air purity	8.3.11	Turn-key water treatment plants Production of clean and ultra-clean water
8.1.9.3 8.1.9.4 8.1.9.5	Biological equipment for the removal of waste substances from pollutant-loaded air Catalytic incineration equipment for pollutant-loaded air purity Thermal equipment for pollutant-loaded air purity	8.3.11 8.3.12	Turn-key water treatment plants Production of clean and ultra-clean water Technology for the treatment of drinking, service
8.1.9.3 8.1.9.4 8.1.9.5 8.1.9.6	Biological equipment for the removal of waste substances from pollutant-loaded air Catalytic incineration equipment for pollutant-loaded air purity Thermal equipment for pollutant-loaded air purity Condensation equipment for pollutant-loaded air purity	8.3.11 8.3.12	Turn-key water treatment plants Production of clean and ultra-clean water
8.1.9.3 8.1.9.4 8.1.9.5 8.1.9.6 8.1.9.7	Biological equipment for the removal of waste substances from pollutant-loaded air Catalytic incineration equipment for pollutant-loaded air purity Thermal equipment for pollutant-loaded air purity Condensation equipment for pollutant-loaded air purity Dust recycling equipment for working rooms	8.3.11 8.3.12 8.3.99	Turn-key water treatment plants Production of clean and ultra-clean water  Technology for the treatment of drinking, service and technological waters – other
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8.1.9.3 8.1.9.4 8.1.9.5 8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99	Biological equipment for the removal of waste substances from pollutant-loaded air Catalytic incineration equipment for pollutant-loaded air purity Thermal equipment for pollutant-loaded air purity Condensation equipment for pollutant-loaded air purity  Dust recycling equipment for working rooms Oil and emulsion fog exhausting equipment Equipment for separation of polluted gaseous substances from air and combustion products – other  Equipment for desulphurization and denitrification of combustion products	8.3.11 8.3.12 8.3.99 8.4 Technology f	Turn-key water treatment plants Production of clean and ultra-clean water  Technology for the treatment of drinking, service and technological waters – other  Water reservoirs, tanks For sewage water treatment plants  Design of sewage water treatment plants
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8.1.9.3 8.1.9.4 8.1.9.5 8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99 8.1.10 8.1.11 8.1.12 8.1.13 8.1.14 8.1.14.1 8.1.14.2 8.1.14.3 8.1.15 8.1.16 8.1.17	Biological equipment for the removal of waste substances from pollutant-loaded air Catalytic incineration equipment for pollutant-loaded air purity Thermal equipment for pollutant-loaded air purity Condensation equipment for pollutant-loaded air purity Dust recycling equipment for working rooms Oil and emulsion fog exhausting equipment Equipment for separation of polluted gaseous substances from air and combustion products – other  Equipment for desulphurization and denitrification of combustion products Combustion product treatment plants for communal and industrial waste incinerators Chimneys and accessories thereof Breathing apparatuses and respirators  Air-conditioning equipment Air-conditioning units Equipment for creating certain climatic conditions Air moisteners and demoisteners  Gas media driers Solenoid and pneumatic controlled valves for flow control Aerating equipment	8.3.11 8.3.12 8.3.99 8.4 Technology f 8.5.1 8.5.2 8.5.2.6 8.5.2.99 8.5.3 8.5.3.1 8.5.3.2 8.5.3.3 8.5.3.4 8.5.3.5 8.5.3.6	Turn-key water treatment plants Production of clean and ultra-clean water  Technology for the treatment of drinking, service and technological waters – other  Water reservoirs, tanks  For sewage water treatment plants  Design of sewage water treatment plants  Equipment for mechanical clarification of sewage water Filters, filtration equipment for sewage water treatment plants Equipment for mechanical clarification of sewage water – other  Equipment for biological purification of waste waters Aerobic equipment for the purification of sewage waters (aeration, biodisc) Nitrification and denitrification equipment Equipment for removing phosphorus from sewage waters Biologically active filters Biodegradation of crude oil substances and their derivatives in sewage waters Anaerobic plants for the purification of sewage waters
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8.1.9.3 8.1.9.4 8.1.9.5 8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99 8.1.10 8.1.11 8.1.12 8.1.13 8.1.14 8.1.14.1 8.1.14.2 8.1.14.3 8.1.15 8.1.16 8.1.17 8.1.45 8.1.46 8.1.47	Biological equipment for the removal of waste substances from pollutant-loaded air Catalytic incineration equipment for pollutant-loaded air purity Thermal equipment for pollutant-loaded air purity Condensation equipment for pollutant-loaded air purity  Dust recycling equipment for working rooms Oil and emulsion fog exhausting equipment Equipment for separation of polluted gaseous substances from air and combustion products – other  Equipment for desulphurization and denitrification of combustion products Combustion product treatment plants for communal and industrial waste incinerators Chimneys and accessories thereof Breathing apparatuses and respirators  Air-conditioning equipment Air-conditioning units Equipment for creating certain climatic conditions Air moisteners and demoisteners  Gas media driers Solenoid and pneumatic controlled valves for flow control Aerating equipment Consultancy in air purity protection Air purity planning Reconstruction and upgrading of equipment for air treatment	8.3.11 8.3.12 8.3.99 8.4 Technology f 8.5.1 8.5.2 8.5.2.6 8.5.2.99 8.5.3 8.5.3.1 8.5.3.2 8.5.3.3 8.5.3.4 8.5.3.5 8.5.3.6 8.5.3.99 8.5.4	Turn-key water treatment plants Production of clean and ultra-clean water  Technology for the treatment of drinking, service and technological waters – other  Water reservoirs, tanks  For sewage water treatment plants  Design of sewage water treatment plants  Equipment for mechanical clarification of sewage water Filters, filtration equipment for sewage water treatment plants Equipment for mechanical clarification of sewage water – other  Equipment for biological purification of waste waters Aerobic equipment for the purification of sewage waters (aeration, biodisc) Nitrification and denitrification equipment Equipment for removing phosphorus from sewage waters Biologically active filters Biodegradation of crude oil substances and their derivatives in sewage waters Anaerobic plants for the purification of sewage waters Equipment for biological purification of sewage waters Equipment for biological purification of sewage waters  Chemical and physical purification of sewage waters
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8.1.9.3 8.1.9.4 8.1.9.5 8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99 8.1.10 8.1.11 8.1.12 8.1.13 8.1.14 8.1.14.1 8.1.14.2 8.1.14.3 8.1.15 8.1.16 8.1.17 8.1.45 8.1.46 8.1.47	Biological equipment for the removal of waste substances from pollutant-loaded air Catalytic incineration equipment for pollutant-loaded air purity Thermal equipment for pollutant-loaded air purity Condensation equipment for pollutant-loaded air purity Dust recycling equipment for working rooms Oil and emulsion fog exhausting equipment Equipment for separation of polluted gaseous substances from air and combustion products – other  Equipment for desulphurization and denitrification of combustion products Combustion products Combustion product treatment plants for communal and industrial waste incinerators Chimneys and accessories thereof Breathing apparatuses and respirators  Air-conditioning equipment Air-conditioning units Equipment for creating certain climatic conditions Air moisteners and demoisteners  Gas media driers Solenoid and pneumatic controlled valves for flow control Aerating equipment Consultancy in air purity protection Air purity planning Reconstruction and upgrading of equipment for air treatment Maintenance and repairs of pollutant-loaded air cleaning	8.3.11 8.3.12 8.3.99 8.4 Technology f 8.5.1 8.5.2 8.5.2.6 8.5.2.99 8.5.3 8.5.3.1 8.5.3.2 8.5.3.3 8.5.3.4 8.5.3.5 8.5.3.6 8.5.3.99 8.5.4 8.5.4.1	Turn-key water treatment plants Production of clean and ultra-clean water  Technology for the treatment of drinking, service and technological waters – other  Water reservoirs, tanks  For sewage water treatment plants  Design of sewage water treatment plants  Equipment for mechanical clarification of sewage water Filters, filtration equipment for sewage water treatment plants Equipment for mechanical clarification of sewage water – other  Equipment for biological purification of waste waters Aerobic equipment for the purification of sewage waters (aeration, biodisc) Nitrification and denitrification equipment Equipment for removing phosphorus from sewage waters Biologically active filters Biodegradation of crude oil substances and their derivatives in sewage waters Anaerobic plants for the purification of sewage waters Equipment for biological purification of sewage waters Equipment for biological purification of sewage waters Flotation and flocculation units



### **ECOLOGICAL TECHNOLOGY**

8.5.4.3	Separators of crude oil substances	8.20.2.8	Waste presses
8.5.4.3.1	Separators of oils, emulsions, diluents	8.20.2.8.1	Waste baling presses
8.5.4.4	Microfiltration and ultra-filtration units for sewage water	8.20.2.99	Machines and equipment for waste treatment – other
0.51.11	treatment plants	0.20.2.33	The state of the s
8.5.4.5	Units for electrical dialysis	8.20.3	Recovery of raw materials from waste, recycling
8.5.4.6	Reverse osmosis units for the purification of sewage waters	8.20.3.1	Recycling of metal-containing waste
8.5.4.7	Plants with ion exchangers for the purification of sewage waters	8.20.3.2	Recycling of electrotechnical scrap
8.5.4.8	Equipment for disinfection and oxidation of sewage waters	8.20.3.3	Recycling of used cars
8.5.4.9	Thermal equipment for the purification of sewage waters	8.20.3.4	Recycling of used cooling equipment and refrigerators
8.5.4.99	Chemical and physical sewage water purification – other	8.20.3.5	Recycling of plastic waste
		8.20.3.6	Recycling of textile waste
8.5.5	Equipment for sewage sludge processing	8.20.3.7	Recycling of used tyres, rubber
8.5.5.1	Bioreactors	8.20.3.8	Recycling of used glass
8.5.5.2	Digestion tanks	8.20.3.9	Recycling of used paper
8.5.5.3	Gas holders for sludge gas	8.20.3.10	Recycling of building debris
8.5.5.4	Equipment for sludge thickening and dewatering	8.20.3.11	Processing of waste from the food industry into animal feed
8.5.5.5	Biogas engines	8.20.3.12	Recycling of pollutant loaded air and gases
8.5.5.6	Equipment for the production of sewage sludge granulation	8.20.3.13	Recycling of liquid waste
	products		
8.5.5.7	Sludge management	8.20.4	Composting lines
8.5.5.8	Transportation and storage of sludge	8.20.5	Fermentation plants
8.5.5.99	Equipment for the processing of sewage – other		
		8.20.6	Thermal processing of waste
8.6	Pumps, blowers, agitators for water management	8.20.6.1	Communal waste incinerators
8.7	Power plants for water management	8.20.6.2	Industrial waste incinerators
8.8	Construction components for water management	8.20.6.3	Hospital waste incinerators
8.9	Chemical products for water treatment and purification	8.20.6.4	Equipment for pyrolysis
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Sewage water	er treatment plants	8.20.7	Waste storage
		8.20.7.1	Engineering and geological investigation
8.10.1	Communal sewage treatment plants	8.20.7.2	Design of dumping sites
8.10.2	Industrial sewage water treatment plants	8.20.7.3	Geotextiles
8.10.3	Complete deliveries of sewage treatment plants	8.20.7.4	Insulation and sealing films and materials for dumping sites
8.11	Sewerage networks and sewers	8.20.7.5	Tubes for degasification and drainage of dumping sites
8.12	Water reservoirs for water accumulation	8.20.7.6	Biogas stations
			5
8.13	Advisory service for water purity protection	8.20.7.7	Weighing equipment for dumping sites
8.14	Reconstruction and upgrading of unsuitable sewage water	8.20.7.8	Monitoring systems for dumping sites
	treatment plants	8.20.7.9	Trenchless drainage of existing dumping sites
8.15	Service and repair of water treatment and sewage plants equipment	8.20.7.10	Operation of dumping sites
8.16	Technology for the reduction of technological water	8.20.8	Elimination of waste by solidification
	consumption	8.20.9	Elimination of waste by biodegradation
		8.20.10	Hazardous waste elimination technology
Waste proces	ssing and utilization	8.20.11	Advisory service for waste disposal
maste proces	sang and activation	8.20.12	Elaboration of waste management studies
8.20.1	Collection and transportation of waste		
	·	8.20.13	Transportation of hazardous waste and substances
8.20.1.1	Waste bins	8.20.14	Comprehensive solutions in waste disposal
8.20.1.2	Containers for the collection of communal waste	8.20.15	Complex waste management by own staff to order
8.20.1.3	Containers for the collection of industrial waste	8.20.16	Reduction of waste production
8.20.1.4	Containers and barrels for the collection of hazardous waste		
8.20.1.5	Silos and industrial tanks for waste	8.20.99	Waste processing and utilization – other
8.20.1.6	Hospital waste bins		
8.20.1.7	Mobile and ecological toilets	8.21	Soil and landscape protection
8.20.1.8	Equipment for waste compaction and compression		
8.20.1.9	Waste loading and handling equipment	Fnvironment	t-friendly technologies for and industry
8.20.1.10	Transport equipment for waste transportation	8.22.1	Alternative power sources
		8.22.2	Energy-saving devices and technologies
8.20.1.11	Complete programme for storing and handling of hazardous		
	materials	8.22.3	Packaging engineering and materials harmless
8.20.1.99	Equipment for the collection and transportation of waste –		for the environment
	other	8.22.4	Environment-sound chemicals
		8.22.5	Waste free technologies
8.20.2	Machines and equipment for waste treatment	8.22.99	Environment-friendly technologies for industry other
8.20.2.1	High-pressure water cutting and demolition systems		
8.20.2.2	Hydraulic shears	Removal of o	old environmental burden and consequences
8.20.2.3	Cutting mills	of ecological	The state of the s
8.20.2.4	Waste crushers	8.25.1	Equipment for the detection of contaminants
8.20.2.5	Bulk transport conveyers and waste feeders		in soil and soil air
8.20.2.6	Waste-storage bins	8.25.2	Equipment for the detection of contaminants in water
8.20.2.7	Waste sorting plants	8.25.3	Hydrogeological research for the detection of bedrock

### **ECOLOGICAL TECHNOLOGY**



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8.25.4	Elimination of contaminants from geological environment	8.50.2.8	Projects of ecological business management systems
8.25.5	Cleaning of soils	8.50.2.9	Consultancy in the introduction of ISO 14000 Standards
8.25.6	Maintenance and recultivation of old landfills	8.50.2.10	Advisory service for environmental legislation
8.25.7	Removal of contaminants from ground and underground	8.50.2.11	Legal representation
0.23.7	5		
0.05.0	waters	8.50.2.12	Patents, licences, know-how in environmental protection
8.25.8	Maintenance of chemical plants	8.50.2.13	Product certification complying with environmental protection
8.25.9	Maintenance of contaminated industrial zones	8.50.2.14	Assessment of environmental damages
8.25.10	Elimination of waste generated in the process of reclamation	8.50.2.15	Financing of environmental projects
8.25.11	Elimination of organic contamination		
8.25.12	Equipment for signalling ecological disasters	8.50.3	Environment monitoring
8.25.13	Equipment preventing emergency leakage of contaminants		•
8.25.14	Protective clothes and aids for work with hazardous	8.50.4	Accredited testing laboratories for the environment
	and toxic substances	8.50.4.1	Accredited soil and waste analyses
8.25.15	Advisory service for old environmental burden and ecological		
0.23.13	incidents	8.50.4.2	Accredited water analyses
0.05.16		8.50.4.3	Accredited analyses of emissions and air pollution
8.25.16	Decontamination projects		
8.25.99	Removal of old environmental burden and consequences	8.50.5	Environment research
	of ecological incidents – other	8.50.6	Environmental organisations
Noise redu		8.50.99	Literature, services, research, environmental organisations –
8.30.1	Soundproof insulation materials		other
8.30.2	Sound protection absorption walls and panels		
8.30.3	Sound protection booths, sheaths, walls, barriers	Circular ecor	nomy
8.30.4	Sound mufflers		
8.30.5	Impact and vibration suppressors	8.60. 1	Recycling of water, nutrients and energy
8.30.6	Soundproof windows		contained in it
8.30.7		8.60. 2	Recirculation of water in enterprises
	Design of sound protection measures	8.60.3	Application of greywater in construction
8.30.99	Noise reduction – other	8.60.4	Rain water management systems
		8.60.5	Energy self-sufficient systems for households
	tation for environment control	8.60.6	New energy sources
8.33.1	Control and regulating systems for environmental technology	8.60. 7	Biogas stations of a new generation
8.33.2	Instrumentation for air and flue gas analysis	8.60.8	Circular economy systems for civil engineering
8.33.3	Equipment for ionizing radiation measurements		
8.33.4	Instrumentation for noise and vibration measurements	8.60. 9	New building materials
8.33.5	Instrumentation for soil analysis	8.60.10	Circular economy systems for waste management
8.33.6	Monitoring in the environmental sector	8.60.11	Innovative sorting systems
	· · · · · · · · · · · · · · · · · · ·	8.60.12	New waste recycling technologies
8.33.7	Accredited test laboratories	8.60.13	Materials from waste in general
8.33.8	Production of measuring devices for the environmental sector	8.60.14	Materials from waste flows
	to order	8.60.15	Products from secondary raw materials
8.33.9	Complex equipment of laboratories	8.60.16	Digital technologies in circular economy
8.33.10	Hardware and software for environmental protection	8.60.17	Smart systems for effective source usage control
8.33.11	Communication engineering for data transmission		
8.33.99	Instrumentation for environment control other	8.60.18	Refurbishment and repair systems
0.55.55	2.15th difference in the control of	8.60.19	Circular economy services
Machines f	or industrial cleaning and washing	8.60.20	Consultancy in the field of circular economy
riacillies i	or industrial cleaning and washing	8.60.21	Rent of systems and equipment in circular economy
0.701	Classina mashinas	8.60.22	Circular economy research and development
8.40.1	Cleaning machines	8.60.23	Other circular economy
8.40.2	Baling presses for waste separation and handling		·
8.40.3	Industrial cleaning machines		
8.40.3.1	High-pressure cleaning equipment		
8.40.3.2	Ultrasonic washing equipment		
8.40.3.3	Industrial washing tables		
8.40.3.4	Industrial vakuum cleaners		
8.40.4	Sweeping and floor washing machines		
8.40.5	Machines for the cleaning of roads and airports		
0.40.5	riacinites for the cleaning of roads and an ports		
8.40.99	Machines for industrial cleaning and washing – other		
Literature,	services, research, environmental organizations		
0.50.4	1 Strong and and death and		
8.50.1	Literature and periodicals on the environment		
	ntal services		
8 50 2 1	Flahoration of environmental audits		

8.50.2.5 Dispersion studies 8.50.2.6

Risk analysis

Energy audit elaboration

8.50.2.1 8.50.2.2

8.50.2.3 8.50.2.4

 $\begin{tabular}{ll} Assessment of project impact on the environment \\ \end{tabular}$ 8.50.2.7 Expert opinions for the State Environmental Fund

Elaboration of environmental audits

Investigation of environmental burden



Testing

Quality control

9.2.29 9.2.30

### RESEARCH, DEVELOPMENT, TRANSFER OF TECHNOLOGIES, FINANCIAL AND OTHER SERVICES

Science and res	search	9.2.31 9.2.32	Operation and equipment control FM (Facility Management) services
9.1.1	Basic and applied research		, ,
9.1.1.1	Research in the field of raw materials and power resources	Organisations	institutions
9.1.1.2	Research in the field of materials	9.2.33.1	
		9.2.33.1	State authorities, governmental institutions
9.1.1.3	Research in the field of nanotechnologies		
9.1.1.4	Research in the field of physics	9.2.33.2	Non-governmental institutions
9.1.1.5	Research in the field of nuclear engineering	9.2.33.2.1	Chambers of commerce
9.1.1.6	Research in the field of electrical engineering	9.2.33.2.2	Interest unions, interest associations
9.1.1.7	Research in the field of information processing		,
	and communication	9.2.33.3	Multinational institutions
9.1.1.8	Research in the field of industrial automation	9.2.33.3.1	European institutions
			•
9.1.1.9	Research in the field of machine and equipment design	9.2.33.3.2	Cooperation and assistance programmes
9.1.1.10	Research in the field of traffic and transport		
9.1.1.11	Research in the field of economics and management	9.2.34	Schools
9.1.1.99	Basic and applied research in other technical fields	9.2.99	Services – other
Economic, fina	ncial, advertising and other services, institutions	Offer of indus 9.3.1	trial real estates and localities, regional development Land planning
9.2.1	Banks and financial institutions	9.3.2	Programmes for regional development
9.2.2	Financial consulting	9.3.3	Presentation of development and investment plans
9.2.3	Organizational, economic and entrepreneurial consultancy	9.3.4	Technology parks, business centres, free trade areas
		9.3.5	Offer of development localities for industrial construction
9.2.4	Financing		•
9.2.5	Leasing	9.3.6	Offer of industrial real estates
9.2.6	Insurance	9.3.7	Demand for investors
9.2.7	Export consultancy	9.3.8	Financial institutions, project financing, services
9.2.8	Searching of business contacts abroad	9.3.99	Business and investment activities – other
9.2.9	Assessment of company's financial standing		
	Securing import – export		
9.2.10	3 1 1		
9.2.11	Representation of foreign companies		
9.2.12	Evaluation of patents, patent representation		
9.2.13	Know-how		
9.2.14	Licensing		
9.2.15	Trade marks		
9.2.16	Standards		
9.2.17	Product certification		
9.2.18	Quality certification		
9.2.18.1	Consultancy in the field of introduction of ISO 9 000 and ISO 14 000 Standards		
0.2.10	Take over tests		
9.2.19	Take-over tests		
9.2.20	Product and package design		
9.2.21	Marketing		
9.2.21.1	Market research		
9.2.21.2	Market information		
9.2.21.3	Addresses of prospective customers		
	• •		
9.2.21.4	Information data banks		
9.2.21.5	Direct mailing		
Advertising and	l publicity services		
9.2.22.1	Advertising articles and gifts		
9.2.22.2	Advertising services abroad		
9.2.22.3	Advertising printed matter		
	÷,		
9.2.22.4	Internet-based advertising services		
9.2.23	Publishing houses		
9.2.23.1	Specialist newspapers and journals		
9.2.23.2	Specialist publications		
9.2.24	Technical information		
9.2.25	Seminars and special training		
9.2.26	Support of trading and export		
9.2.27	Engineering services		
9.2.27.1	Product development		
0 2 28	Technical services		

### TRANSPORTATION, HANDLING, INDUSTRIAL PACKING, WAREHOUSING AND LOGISTICS



10.1	Ships	Transport and	
10.1.1	Parts and accessories for ships	10.6.1	Truck parts
		10.6.2	Hand trucks
10.2	Aircraft and aero instruments		
10.2.1	Airplane parts and accessories	10.6.3	Battery trucks
10.2.2	Aviation instruments	10.6.3.1	Batteries and accessories for battery trucks
10.2.3	Security aircraft technology		
		10.6.4	Gas-operated trucks
10.2.4	Airport equipment	10.6.5	I.C. engine equipped trucks
		10.6.6	Driverless trucks, induction trucks
Rail vehicles			
		10.6.7	Attachments for transport trucks
10.3.1	Parts and accessories for rail vehicles	10.6.7.1	Attachments for high-lift trucks
10.3.1.1	Remote control of locomotives		,
		10.6.99	Transport and lift trucks – other
10.3.2	Locomotives		
10.3.3	Carriages	10.7	Lifts
10.3.4	Special carriages	10.7	
10.3.5	Undercarriages	Transport e	quinment
10.3.6	Tramways	iransport e	quipment
10.3.90	Overhauls, upgrading and reconstructions	10.8.1	Parts and accessories of transport equipment
10.3.90	of rail vehicles	10.8.1.1	Conveyer parts and accessories
10.3.91		10.6.1.1	conveyer parts and accessories
10.3.91	Turnouts and superstructures	Communers for	r looso matorials transport
Cunnan		-	r loose materials transport
Cranes		10.8.2.1	Band conveyers
		10.8.2.2	Worm conveyers
10.4.1	Parts and accessories for cranes	10.8.2.3	Vibratory conveyers
10.4.1.1	Remote control of cranes	10.8.2.4	Chain/Redler conveyers
10.4.1.2	Binding ropes, eyes and hooks	10.8.2.5	Bucket elevators
10.4.1.3	Crane tracks	10.8.2.99	Conveyers for loose materials transport – other
10.4.1.4	Suspension equipment		
		10.8.3	Conveyers for lump materials transport
10.4.2	Bridge cranes	10.8.3.1	Roller conveyers
10.4.3	Crane wagons	10.8.3.2	Wheel conveyers
10.4.4	Tower cranes	10.8.3.3	Ball conveyers
10.4.5	Full-portal gantry cranes	10.8.3.4	Overhead conveyers incl. overhead grooves
10.4.6	Pillar and mast cranes	10.8.3.99	Conveyers for lump materials transport – other
10.4.7	Truck cranes		
10.4.8	Jib cranes	10.8.4	Pneumatic transport
10.4.9	Bracket cranes	10.8.99	Transport equipment – other
10.4.10	Erecting cranes		
10.4.11	Grab cranes	10.9	Rope conveyers
10.4.12	Telescopic cranes		
10.4.13	Cable cranes	Handling ed	nuinment
10.4.14	Rotary cranes	nanating co	14. Pinene
10.4.15	Metallurgical industrial cranes	10.10.1	Equipment for loading and unloading lump materials
10.4.16	Cranes for works on electrical lines	10.10.1.1	Arm loaders
10.4.17	Cranes for harbours and shipyards	10.10.1.1	Hydraulic arms
10.4.90	Overhauls, upgrading and reconstructions of cranes	10.10.1.2	riyurdutic ariiis
10.4.99	Cranes – other	10.10.2	Equipment for loading and unloading loose materials
10.4.55	ciulics other	10.10.2	Equipment for toating and untoating toose materials
Lifting mech	anieme	10.10.3	Transport means
Litting inecii	anisins	10.10.3	Pallets
10.5.1	Pulley blocks	10.10.3.1	Pallet superstructures
	•		
10.5.1.1	Rope pulley blocks	10.10.3.3	Storing cases
10.5.1.2	Chain pulley blocks	10.10.3.4	Crates
40.5.0	1-4-	10.10.3.5	Rolltainers
10.5.2	Jacks	10.10.3.6	Containers incl. ISO
10.5.3	Pneumatic lifting mechanisms	10.10.3.7	Containers for the transport of liquids
		10.10.3.8	Omnitainers
10.5.4	Hydraulic lifting mechanisms	10.10.3.9	Cistern semi-trailers
10.5.4.1	Hydraulic jacks	10.10.3.99	Transport means – other
10.5.5	Lifting platforms and ramps	10.10.4	Storing and disassembling machines
10.5.6	Lifting electromagnets	10.10.4.1	Palletizing and depalletizing machines
10.5.7	Permanent lifting magnets	10.10.4.2	Stacking and destacking equipment
10.5.8	Hand-operated lifting equipment	10.10.4.9	Storing and disassembling machines – other
10.5.9	Load grasping equipment		
10.5.10	Winches	10.10.5	Machines for adjusting handling equipment
10.5.11	Vacuum gripping and hoisting devices	10.10.5.1	Bundling equipment
10.5.99	Lifting mechanisms – other		



### TRANSPORTATION, HANDLING, INDUSTRIAL PACKING, WAREHOUSING AND LOGISTICS

10.10.5.2	Strapping equipment	10.15.7	Parking systems
10.10.5.2.1	Strappings	10.15.7.1	Automated parking houses
10.10.5.3 10.10.5.3.1	Binding equipment Chain, textile and rope binding means	10.15.8	Warehouse fire and explosion security
		10.15.99	Storing technology and operation equipment – other
10.10.5.4	Baling presses	10.15	
10.10.5.5 10.10.5.9	Handling equipment contour checking devices Machines for adjusting handling equipment – other	10.16 10.16.1	Industrial gates, bolts, automatic and turnstile doors Gate packings and screens
10.10.6	Single purpose and municipal vehicles with superstructures	10.17	CAD, CAM, CIM in transport, handling and assembly
10.10.0			technology
10.10.7.1	Handling aids Hand clamps	10.18	Engineering and design services in transport, handling and assembly technology
10.10.7.2	Vacuum, magnetic suction equipment		and assembly commonly
.0.10.7.3	Crowbars		epairs in transport, handling and assembly technology
10.10.7.4	Slide rails incl. wagon slide rails	10.19.1	Diagnostics in transport, handling and assembly technology
10.10.7.5	Displacing rollers	10 10 2	Coorse annute for two reasons to and the send accountly to about any
10.10.7.6 10.10.7.7	Rolling undercarriages Lifting wheels	<b>10.19.2</b> 10.19.2.1	Spare parts for transport, handling and assembly technology Travelling wheels and rollers
10.10.7.7	Stands	10.19.2.1	Tyres for transport and handling equipment
10.10.7.8	Steps	10.19.2.2	Tyres for dansportand handling equipment
10.10.7.3	Ladders	10.19.3	Reconstructions and upgrading in transport, handling
10.10.7.99	Handling aids – other	10.13.3	and assembly technology
10.10.8	Automated handling systems	10.20	Refurbished transport, handling and assembly technology
10.10.9	Container-type transport systems	10.21	Technologies for transport, handling and assembly
10.10.99	Handling equipment – other	10.21	technology Technological projects for transport, handling and assembly
10.11	Scaffolds		technology
10.11.1	Mobile scaffolds	10.21.2	Technological supplies for transport, handling and assembly technology
10.12	Working, safety and evacuation technology for work		-
	at heights	10.22	Execution of investment units for transport, handling and assembly technology
Assembly m	achines and equipment		
			aterials and packages, packaging machines for the industry
10.13.1	Accessories for assembly machines	10.23.1	Materials for the production of packages
10.13.2	Assembly machines	10.23.2	Packages for industrial packaging
10.13.3	Assembly lines	10.23.2.1	Anticorrosive paper
10.13.3	Benches for assembly lines	10.25.2.1	Anticorrosive paper
10.13.3.1	benefics for assembly times	10.23.3	Packing machines and equipment
10.13.4	Unit-construction assembly lines	10.23.3.1	Barrier film packaging machines
10.13.5	Assembly controls	10.23.3.2	Machines for container forming, filling and sealing
10.13.6	Assembly riveting machines	10.23.3.3	Group packaging machines
10.13.7	Automatic and control instruments for assembly machines and		11 3 3
	equipment	10.23.4	Marking machines and equipment for packaging
	A. P. S. S.	10.23.5	Turn-key packaging solutions
10.13.99	Assembly machines and equipment – other	10.23.6	Custom-made packaging
	• • • • • • • • • • • • • • • • • • • •	10.23.9	Packaging materials and packages, packaging machines
10.14 10.14.1	Assembly and handling robots for industrial production Robot peripherals and accessories		for the industry – other
		Services by	carriers and forwarding agents
toring tech	nnology and operation equipment	10.07.1	Domonatic funichat tunffi -
10 15 1	Chahaa	10.24.1	Domestic freight traffic
<b>10.15.1</b>	Shelves Pallet shelves	10.24.2	International freight traffic
10.15.1.1 10.15.1.2	Rack shelves	10.24.3	Special loads transport
10.15.1.2	Bracket shelves	10.24.3	Transport of heavy and oversize loads
10.15.1.3	Paternoster shelves	10.24.3.1	Transport of Heavy and oversize todds Transport of dangerous loads based on ADR
10.15.1.4	Pull-out shelves for long materials	10.24.3.2	Transport of dangerous todas based on Abit
10.15.1.5	Mobile shelves	10.24.4	Tubular transport
10.15.1.0	Library, archives and office shelves	10.24.5	City logistics
10.15.1.7	Storing and wardrobe systems	10.24.6	Storage rooms and storing services
	Storming and mararouse systems	10.24.7	Packing of transport consignments
10.15.2	S/R machines (storage and retrieval machines)	10.24.8	Forwarding services
10.15.2	Storage tanks	10.24.9	Collecting services
10.15.4	Balance for logistics and transport	10.24.10	Loading and securing services in transport
10.15.5	Ramps and bridges	10.24.11	Customs services
10.15.6	Automated storing systems	10.24.12	Express transport of lump consignments
-311310	. a.t mateu storing systems		

Consultancy in customs affairs

Services for railway engineering

Drivers' training

and transport

Logistic system audit

Design of logistic systems

and logistics - other

Reengineering of logistic systems

Outsourcing of logistic systems Turnkey supplies of logistic systems

Consultancy in dangerous loads transport

Consultancy in organizing assembly lines

**Customer solutions of storing equipment** 

Training, education and requalification in logistics

Finance and insurance in logistics and transport

Literature, consultancy, training, service in transport

Research and development in logistics and transport

Security services in storage and transport

Information and service equipment for passengers' transport

Organizations, associations, unions for logistics and transport

#### TRANSPORTATION, HANDLING, INDUSTRIAL PACKING, WAREHOUSING AND LOGISTICS

10.28.4



Freight terminals  10.25.1 Airports 10.25.2 Harbours  10.25.4 Logistic (distribution) centers, areals 10.25.4.1 Logistic providers  Services in transport 10.26.1 Services for truck crews abroad 10.26.2 Insurance in transport 10.26.3 Postal services 10.26.4 Providing permits for special load transport abroad 10.26.5 Banking services in transport 10.26.9 Services in transport 10.26.99 Services in transport 10.27.1.1 Printing, labelling and marking equipment 10.27.2. Data collecting equipment 10.27.2.1 Data collecting equipment 10.27.2.1 Data collecting equipment for storage rooms and logistics  10.27.4 Identification equipment and systems 10.27.4.1 Bar code based identification equipment and systems 10.27.4.2 RFID based identification equipment and systems 10.27.4.3 RTLS (Real Time Location Systems) and their accessories 10.27.5 Dashboard PCs and their peripherals 10.27.6 GPS (Global Positioning System) 10.27.7 Systems for tracing vehicle movement 10.27.8 Systems for tracing vehicle movement 10.27.9 Satellite systems for truck traffic control 10.27.1 Application software for transport and forwarding 10.27.11.2 Application software for provisioning 10.27.11.3 Application software for provisioning 10.27.11.1 Application software for managing storage rooms 10.27.11.2 Software for transport, storage and materials handling - other 10.27.1 Software for transport, storage and materials handling - other 10.27.1.1 Software for provisioning 10.27.11.2 Software for transport and forwarding 10.27.11.3 Software for unsport, storage and materials handling - other 10.27.13 Software for order flow management - SCM 10.27.13 Software for order flow management - SCM 10.27.13 Software for order flow management and for production automation  10.27.19 Telematics, communication, information and control systems for logistics - other		
10.25.1 Airports 10.25.2 Harbours 10.25.3 Container transshipment terminal 10.25.4 Logistic (distribution) centers, areals 10.25.4.1 Logistic providers  Services in transport 10.26.1 Services for truck crews abroad 10.26.2 Insurance in transport 10.26.3 Postal services 10.26.4 Providing permits for special load transport abroad 10.26.5 Banking services in transport 10.26.9 Services in transport 10.26.99 Services in transport – other  Telematics, communication, information and control systems in logistics  10.27.1 Printing, labelling and marking equipment 10.27.1.1 Bar code printers  10.27.2 Data collecting equipment 10.27.2.1 Data collecting terminals 10.27.3 Communication equipment for storage rooms and logistics  10.27.4 Identification equipment and systems 10.27.4.1 Bar code based identification equipment and systems 10.27.4.2 RTD based identification equipment and systems 10.27.4.3 RTLS (Real Time Location Systems) and their accessories  10.27.5 Dashboard PCs and their peripherals 10.27.6 GFS (Global Positioning System) 10.27.7 Navigation systems 10.27.7 Systems for tracing vehicle movement 10.27.9 Satellite systems for truck traffic control 10.27.10 Geographic information systems (GIS)  10.27.11.2 Software for transport, storage and materials handling 10.27.11.2 Application software for provisioning 10.27.11.2 Software for controlling material and commodity flows  10.27.11.3 Application software for managing storage rooms 10.27.11.4 Mylication software for managing storage rooms 10.27.11.5 Software for controlling material and commodity flows  10.27.11.1 Software for transport, storage and materials handling - other  10.27.11.2 Software for supply chain management – SCM 10.27.13.3 Software for supply chain management – SCM 10.27.13.4 Software for customer relationship management – CRM 10.27.13.5 Software for supply chain management and for production automation	10.24.99	Services by carriers and forwarding agents – other
10.25.2 Harbours 10.25.3 Container transshipment terminal 10.25.4 Logistic (distribution) centers, areals 10.25.4.1 Logistic providers  Services in transport 10.26.1 Services for truck crews abroad 10.26.2 Insurance in transport 10.26.3 Postal services 10.26.4 Providing permits for special load transport abroad 10.26.5 Banking services in transport 10.26.99 Services in transport – other  Telematics, communication, information and control systems in logistics  10.27.1 Printing, labelling and marking equipment 10.27.2. Data collecting equipment 10.27.2.1 Data collecting equipment for storage rooms and logistics  10.27.4 Identification equipment and systems 10.27.4.1 Bar code based identification equipment and systems 10.27.4.2 RTID based identification equipment and systems 10.27.4.3 RTIS (Real Time Location Systems) and their accessories  10.27.5 Dashboard PCs and their peripherals 10.27.6 GFS (Global Positioning System) 10.27.7 Navigation systems 10.27.9 Satellite systems for truck traffic control 10.27.1 Geographic information systems (GIS)  10.27.1.1 Application software for transport and forwarding  10.27.1.1.2 Application software for transport and materials handling  10.27.1.1.3 Application software for provisioning 10.27.1.1 Software for controlling material and commodity flows  10.27.1.1 Software for deal printing  10.27.1.1 Software for controlling material and commodity flows  10.27.1.1 Software for deal printing  10.27.1.1 Software for customer relationship management – CRM 10.27.1.1 Software for order flow management and for production automation	Freight termin	nals
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**Technical information in logistics** 

Consultancy in transport and distribution

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MACHINE-TO	OLS	11.1.5.5	Vertical bed type milling machines
		11.1.5.6	Universal bed type milling machines
11.1.1	Lathes	11.1.5.7	Multi-head bed type milling machines
11.1.1.1	Bench lathes	11.1.5.8	Copying milling machines
11.1.1.2	Production lathes (for lot production)	11.1.5.9	Circular able milling machines
11.1.1.3	Universal centre lathes	11.1.5.10	Drum type milling machines
11.1.1.4	Multi-tool production lathes	11.1.5.11	Die-sinking machines
11.1.1.5	Vertical turning lathes	11.1.5.12	Universal tool milling machines
11.1.1.6	Copying lathes	11.1.5.13	Milling and boring machines
11.1.1.7	Short-bed lathes (second operation lathes)	11.1.5.14	Universal milling and boring machines
11.1.1.8	Facing lathes with tailstock	11.1.5.15	Machining centres
11.1.1.9	Facing lathes with bench	11.1.5.16	Bench hand-controlled knee-type milling machines
11.1.1.10	Cutting-off lathes	11.1.5.17	Open-side gantry milling machines
11.1.1.11	Watchmakers' lathes	11.1.5.18	Slot and keyway milling machines
11.1.1.12	Precision bench lathes	11.1.5.19	Crankshaft and camshaft milling machines
11.1.1.13	Relieving lathes	11.1.5.20	Chamfering and pointing milling machines
11.1.1.14	Oval turning lathes	11.1.5.21	Engraving machines
11.1.1.15	Wheel set lathes	11.1.5.99	Milling machines – other
11.1.1.16	Wheelset tyre profiling lathes	11 1 6	Coar outting and finishing machines
11.1.1.17 11.1.1.18	Axle turning lathes Axle journal turning and roller burnishing lathes	11.1.6	Gear cutting and finishing machines Gear hobbing machines
11.1.1.10	Crankshaft turning lathes	11.1.6.1 11.1.6.2	5
11.1.1.19	Camshaft turning lathes	11.1.6.2	Rack milling machines Gear shaping machines
11.1.1.21	Piston lathes	11.1.6.4	Bevel gear hobbing and shaping machines
11.1.1.22	Roll turning lathes	11.1.6.5	Gear rolling machines
11.1.1.23	Bar turning and peeling machines	11.1.6.6	Gear grinding machines
11.1.1.23	Lathes – other	11.1.6.7	Gear shaving machines
11.1.1.99	Latries – Otrier	11.1.6.8	Gear polishing and lapping machines
11.1.2	Automatic lathes	11.1.6.9	Gear tooth rounding and deburring machines
11.1.2.1	Single-spindle universal automatic lathes	11.1.6.10	Automatic multioperational gear cutting machines with
11.1.2.2	Single-spindle chucking automatic lathes	11.1.0.10	tool magazine (gear cutting centres)
11.1.2.3	Single-spindle bar automatic lathes	11.1.6.99	Gear cutting machines – other
11.1.2.4	Multi-spindle chucking automatic lathes		
11.1.2.5	Multi-spindle bar automatic lathes	11.1.7	Screwing and threading machines
11.1.2.6	Lathes with driven tool		3
11.1.2.7	Vertical turning automatic lathes	11.1.8	Planing, shaping, slotting and broaching machines
11.1.2.8	High-speed automatic lathes	11.1.8.1	Planing machines with other operation options
11.1.2.0		11.1.0.1	rtaning macrimes with other operation options
11.1.2.9	Automatic multioperational lathes with tool magazine	11.1.8.2	Horizontal shaping machines
	Automatic multioperational lathes with tool magazine	11.1.8.2	Horizontal shaping machines  Vertical shaping machines  Plate edge planing machines
11.1.2.9	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5	Horizontal shaping machines  Vertical shaping machines  Plate edge planing machines  Copy shaping machines
11.1.2.9	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6	Horizontal shaping machines  Vertical shaping machines  Plate edge planing machines  Copy shaping machines  Keyseating, broaching and slotting machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7	Horizontal shaping machines  Vertical shaping machines  Plate edge planing machines  Copy shaping machines  Keyseating, broaching and slotting machines  Planing and shaping machines – other
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8	Horizontal shaping machines  Vertical shaping machines  Plate edge planing machines  Copy shaping machines  Keyseating, broaching and slotting machines  Planing and shaping machines – other  Internal broaching machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.99	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines – other
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.8	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.99 11.1.8.19	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, filing and abrasive cutting-off machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.9 11.1.3.10	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.99 11.1.9	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping and abrasive cutting-off machines Band sawing machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.8	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.99 11.1.9 11.1.9.1	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines – other  Sawing, filing and abrasive cutting-off machines Band sawing machines Hack sawing machines
11.1.2.9 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.9 11.1.3.10 11.1.3.11	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres)	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.99 11.1.9.1 11.1.9.1 11.1.9.2 11.1.9.3	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines – other  Sawing, filing and abrasive cutting-off machines Band sawing machines Hack sawing machines Circular sawing machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.9 11.1.3.10	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9.1 11.1.9.1 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines – other  Sawing, filing and abrasive cutting-off machines Band sawing machines Hack sawing machines Circular sawing machines Cutting-off machines, with abrasive discs
11.1.2.9 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.9 11.1.3.10 11.1.3.11	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines – other	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.99 11.1.9.1 11.1.9.1 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4 11.1.9.5	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping, slotting and broaching machines Band sawing machines Band sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines
11.1.2.9 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.9 11.1.3.10 11.1.3.11	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines – other  Boring machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9.1 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.9 11.1.3.10 11.1.3.11	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines Fine boring machines, horizontal	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9.1 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6 11.1.9.7	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines
11.1.2.9 11.1.2.99 11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.9 11.1.3.10 11.1.3.11 11.1.3.99 11.1.4 11.1.4.1 11.1.4.2	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines Fine boring machines, horizontal Fine boring machines, vertical	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9.1 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines
11.1.2.9  11.1.2.99  11.1.3  11.1.3.1  11.1.3.2  11.1.3.3  11.1.3.4  11.1.3.5  11.1.3.6  11.1.3.7  11.1.3.8  11.1.3.9  11.1.3.10  11.1.3.11  11.1.3.99  11.1.4  11.1.4.1  11.1.4.2  11.1.4.3	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, fixed column	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9.1 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Aswing, filing and abrasive cutting-off machines Band sawing machines Circular sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other
11.1.2.9  11.1.2.99  11.1.3  11.1.3.1  11.1.3.2  11.1.3.3  11.1.3.4  11.1.3.5  11.1.3.6  11.1.3.7  11.1.3.8  11.1.3.9  11.1.3.10  11.1.3.11  11.1.3.99  11.1.4  11.1.4.1  11.1.4.2  11.1.4.3  11.1.4.4	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines – other  Boring machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, fixed column Bed type boring and milling machines, moving column	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9.1 11.1.9.1 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines – other  Sawing, filing and abrasive cutting-off machines Band sawing machines Circular sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines
11.1.2.9  11.1.2.99  11.1.3  11.1.3.1  11.1.3.2  11.1.3.3  11.1.3.4  11.1.3.5  11.1.3.6  11.1.3.7  11.1.3.8  11.1.3.9  11.1.3.10  11.1.3.11  11.1.3.99  11.1.4  11.1.4.1  11.1.4.2  11.1.4.3  11.1.4.3  11.1.4.4  11.1.4.5	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines – other  Boring machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, fixed column Bed type boring and milling machines, moving column Boring and milling machines, gantry type	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.11 11.1.8.12 11.1.8.99 11.1.9 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines – other  Sawing, filing and abrasive cutting-off machines Band sawing machines Circular sawing machines Circular sawing machines Cirtular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines Horizontal spindle surface-grinding machines
11.1.2.9  11.1.2.99  11.1.3  11.1.3.1  11.1.3.2  11.1.3.3  11.1.3.4  11.1.3.5  11.1.3.6  11.1.3.7  11.1.3.8  11.1.3.9  11.1.3.10  11.1.3.11  11.1.3.99  11.1.4  11.1.4.1  11.1.4.2  11.1.4.3  11.1.4.4	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines – other  Boring machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, fixed column Bed type boring and milling machines, moving column Boring and milling machines, gantry type Jig boring machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.11 11.1.8.12 11.1.8.99 11.1.9 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines – other  Sawing, filing and abrasive cutting-off machines Band sawing machines Circular sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines Horizontal spindle surface-grinding machines Vertical spindle surface-grinding machines
11.1.2.9  11.1.2.99  11.1.3  11.1.3.1  11.1.3.2  11.1.3.3  11.1.3.4  11.1.3.5  11.1.3.6  11.1.3.7  11.1.3.8  11.1.3.9  11.1.3.10  11.1.3.11  11.1.3.99  11.1.4  11.1.4.1  11.1.4.2  11.1.4.3  11.1.4.3  11.1.4.4  11.1.4.5  11.1.4.6	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, fixed column Bed type boring and milling machines, moving column Boring and milling machines, gantry type Jig boring machines (coordinate boring and milling machines)	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.11 11.1.8.12 11.1.8.99 11.1.9 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines – other  Sawing, filing and abrasive cutting-off machines Band sawing machines Circular sawing machines Circular sawing machines Circular sawing machines Cirtular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines Horizontal spindle surface-grinding machines Vertical spindle surface-grinding machines (with adjustable
11.1.2.9  11.1.3  11.1.3.1  11.1.3.2  11.1.3.3  11.1.3.4  11.1.3.5  11.1.3.6  11.1.3.7  11.1.3.8  11.1.3.9  11.1.3.10  11.1.3.11  11.1.3.99  11.1.4  11.1.4.1  11.1.4.2  11.1.4.3  11.1.4.3  11.1.4.5  11.1.4.6	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, fixed column Boring and milling machines, gantry type Jig boring machines (coordinate boring and milling machines) Cylinder block reboring machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.11 11.1.8.12 11.1.8.99 11.1.9 11.1.9.1 11.1.9.3 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99 11.1.0 11.1.10.1 11.1.10.1	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Circular sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines Horizontal spindle surface-grinding machines Vertical spindle surface-grinding machines Universal spindle surface-grinding machines (with adjustable wheelhead)
11.1.2.9  11.1.2.99  11.1.3  11.1.3.1  11.1.3.2  11.1.3.3  11.1.3.4  11.1.3.5  11.1.3.6  11.1.3.7  11.1.3.8  11.1.3.9  11.1.3.10  11.1.3.11  11.1.3.99  11.1.4  11.1.4.1  11.1.4.2  11.1.4.3  11.1.4.3  11.1.4.4  11.1.4.5  11.1.4.6	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, fixed column Bed type boring and milling machines, moving column Boring and milling machines, gantry type Jig boring machines (coordinate boring and milling machines)	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99 11.1.9.99 11.1.10.1 11.1.0.1	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Circular sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines Horizontal spindle surface-grinding machines Universal spindle surface-grinding machines Universal spindle surface-grinding machines (with adjustable wheelhead) Horizontal surface-grinding machines with rotary table
11.1.2.9  11.1.3  11.1.3.1  11.1.3.2  11.1.3.3  11.1.3.5  11.1.3.6  11.1.3.7  11.1.3.8  11.1.3.9  11.1.3.10  11.1.3.11  11.1.3.99  11.1.4  11.1.4.1  11.1.4.2  11.1.4.3  11.1.4.4  11.1.4.5  11.1.4.6  11.1.4.7  11.1.4.99	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines – other  Boring machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, fixed column Boring and milling machines, gantry type Jig boring machines (coordinate boring and milling machines) Cylinder block reboring machines Boring machines – other	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.99 11.1.9 11.1.9.1 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99 11.1.9.99 11.1.10.1 11.1.10.1 11.1.10.1	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Circular sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines Horizontal spindle surface-grinding machines Universal spindle surface-grinding machines Universal spindle surface-grinding machines (with adjustable wheelhead) Horizontal surface-grinding machines with rotary table Vertical surface-grinding machines with rotary table
11.1.2.9  11.1.3  11.1.3.1  11.1.3.2  11.1.3.3  11.1.3.4  11.1.3.5  11.1.3.6  11.1.3.7  11.1.3.8  11.1.3.9  11.1.3.10  11.1.3.11  11.1.3.99  11.1.4  11.1.4.1  11.1.4.2  11.1.4.3  11.1.4.3  11.1.4.5  11.1.4.6	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines – other  Boring machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, fixed column Boring and milling machines, gantry type Jig boring machines (coordinate boring and milling machines) Cylinder block reboring machines Boring machines – other  Milling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.4 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99 11.1.9.99 11.1.10.1 11.1.0.1	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines Horizontal spindle surface-grinding machines Vertical spindle surface-grinding machines Universal spindle surface-grinding machines Wertical surface-grinding machines with rotary table Vertical surface-grinding machines with rotary table Plain cylindrical grinding machines
11.1.2.9  11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.9 11.1.3.10 11.1.3.11 11.1.3.99 11.1.4 11.1.4.1 11.1.4.2 11.1.4.1 11.1.4.2 11.1.4.3 11.1.4.6 11.1.4.7 11.1.4.99 11.1.5	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines – other  Boring machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, moving column Boring and milling machines, gantry type Jig boring machines (coordinate boring and milling machines) Cylinder block reboring machines Boring machines – other  Milling machines Horizontal knee-type milling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9 11.1.9.1 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99 11.1.9.99 11.1.10.1 11.1.10.1 11.1.10.1 11.1.10.2 11.1.10.3	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines Planing and shaping machines Surface broaching machines Surface broaching machines Transfer broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Circular sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines Horizontal spindle surface-grinding machines Universal spindle surface-grinding machines Universal spindle surface-grinding machines Vertical surface-grinding machines with rotary table Vertical surface-grinding machines with rotary table Plain cylindrical grinding machines Production plain cylindrical grinding machines with possible
11.1.2.9  11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.9 11.1.3.10 11.1.3.11 11.1.3.99 11.1.4 11.1.4.1 11.1.4.2 11.1.4.1 11.1.4.2 11.1.4.3 11.1.4.6 11.1.4.7 11.1.4.99 11.1.5 11.1.5.1	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines – other  Boring machines Fine boring machines, horizontal Fine boring machines, vertical Bed type boring and milling machines, fixed column Boring and milling machines, gantry type Jig boring machines (coordinate boring and milling machines) Cylinder block reboring machines Boring machines – other  Milling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9 11.1.9.1 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99 11.1.9.99 11.1.10.1 11.1.10.1 11.1.10.1 11.1.10.2 11.1.10.3	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines – other Internal broaching machines Surface broaching machines Transfer broaching machines Broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines Horizontal spindle surface-grinding machines Vertical spindle surface-grinding machines Universal spindle surface-grinding machines Wertical surface-grinding machines with rotary table Vertical surface-grinding machines with rotary table Plain cylindrical grinding machines
11.1.2.9  11.1.3 11.1.3.1 11.1.3.2 11.1.3.3 11.1.3.4 11.1.3.5 11.1.3.6 11.1.3.7 11.1.3.8 11.1.3.9 11.1.3.10 11.1.3.11 11.1.3.99 11.1.4 11.1.4.1 11.1.4.2 11.1.4.1 11.1.4.2 11.1.4.3 11.1.4.6 11.1.4.7 11.1.4.99 11.1.5 11.1.5.1 11.1.5.2	Automatic multioperational lathes with tool magazine (turning centres) Automatic lathes – other  Drilling machines Bench type drilling machines Pillar type drilling machines Column type drilling machines Gang drilling machines Multi-spindle drilling machines Radial drilling machines Precision coordinate drilling machines Deep hole drilling and boring machines Turret head drilling machines Horizontal drilling machines Automatic multioperational drilling machines with tool magazine (drilling centres) Drilling machines – other  Boring machines Fine boring machines, horizontal Fine boring and milling machines, moving column Bed type boring and milling machines, moving column Boring and milling machines, gantry type Jig boring machines (coordinate boring and milling machines) Cylinder block reboring machines Boring machines Horizontal knee-type milling machines Vertical knee-type milling machines Vertical knee-type milling machines	11.1.8.2 11.1.8.3 11.1.8.4 11.1.8.5 11.1.8.6 11.1.8.7 11.1.8.8 11.1.8.9 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.19 11.1.9 11.1.9.1 11.1.9.2 11.1.9.3 11.1.9.5 11.1.9.6 11.1.9.7 11.1.9.99 11.1.10.1 11.1.10.1 11.1.10.1 11.1.10.2 11.1.10.3 11.1.10.4 11.1.10.5 11.1.10.6 11.1.10.7	Horizontal shaping machines Vertical shaping machines Plate edge planing machines Copy shaping machines Keyseating, broaching and slotting machines Planing and shaping machines Planing and shaping machines Surface broaching machines Transfer broaching machines Broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Auning, shaping, slotting and broaching machines Band sawing machines Circular sawing machines Circular sawing machines Circular sawing machines Cutting-off machines, with abrasive discs Friction sawing machines Filing machines Automatic cutting lines Sawing, filing and abrasive cutting-off machines – other  Grinding machines Horizontal spindle surface-grinding machines Vertical spindle surface-grinding machines Universal spindle surface-grinding machines Vertical surface-grinding machines with rotary table Vertical surface-grinding machines with rotary table Plain cylindrical grinding machines Production plain cylindrical grinding machines with possible recess grinding (for lot production)



11.1.10.10	Centreless grinding machines	11.1.14.12	Polishing machines – other
11.1.10.11	Copying grinding machines	11.1.14.13	Electromechanical deburring machines
11.1.10.12	High speed grinding machines	11.1.14.14	Thermal deburring machines
11.1.10.13	Abrasive band grinding machines	11.1.14.15	Ultrasonic polishing machines
11.1.10.14	Double-spindle surface-grinding machines		•
11.1.10.15	Jig grinding machines	11.1.15	Special production machines and modular units
11.1.10.16	Automatic grinding machines with tool magazine (grinding centres)	11.1.15.1	Special production machines with rotating tools
		11.1.15.2	Rotary indexing table machines
11.1.11	Special purpose grinding machines	11.1.15.3	Positioning units with rotary table and drum
11.1.11.1	Electrolytic grinding machines	11.1.15.4	Transfer lines
11.1.11.2	Superfinishing grinding machines	11.1.15.5	Special production machines – other
11.1.11.3	Profile grinding machines	11.1.15.6	Turning units
11.1.11.4	Cylindrical grinding machines	11.1.15.7	Drilling units
11.1.11.5	Oval grinding machines	11.1.15.8	Milling units
11.1.11.6	Polygon grinding machines	11.1.15.9	Special modular units – other
11.1.11.7	Spline shaft grinding machines	11.1.15.10	Finishing machines – centring and end facing
11.1.11.8	Calliper gauge grinding machines (surfaces, parallelity)		
11.1.11.9	Centre hole grinding machines	11.1.16	Electroerosion machine tools
11.1.11.10	Slideway grinding machines	11.1.16.1	Electrochemical machine tools
11.1.11.11	Cam grinding machines	11.1.16.2	Electrolytic machine tools
11.1.11.12	Camshaft grinding machines	44 4 46 2	Consideration and the stants
11.1.11.13	Crankshaft grinding machines	11.1.16.3	Spark erosion machine tools
11.1.11.14	Valve grinding machines	11.1.16.3.1	Spark erosion sinking machines
11.1.11.15	Piston grinding machines	11.1.16.3.2 11.1.16.3.3	Spark erosion cutting machines Spark erosion boring machines
11.1.11.16 11.1.11.17	Axle journal grinding machines Roller bearing race grinding machines	11.1.10.3.3	Spark erosion borning macrimes
11.1.11.17	Grinding machines with flexible shaft	11.1.17	Laser machine tools
11.1.11.99	Grinding machines special – other	11.1.17.1	Laser tube and profile processing machine tools
11.1.11.55	difficulty fluctimes special other	11.1.17.2	Laser metal sheet processing machine tools
11.1.12	Tool grinding and sharpening machines	11.1.17.3	Laser cutting machines
11.1.12.1	Universal tool and cutter grinding machines	11.1.17.13	Laser catcing macrimes
11.1.12.2	Single point cutting tool sharpening machines	11.1.18	Machine tools with parallel kinematic structure
11.1.12.3	Carbide tool sharpening machines	11.1.19	Micro-machine tools
11.1.12.4	Broaching tool sharpening machines		
11.1.12.5	Twist drill sharpening machines	11.1.99	Machine tools – other
11 1 10 6			
11.1.12.6	Cutter and reamer sharpening machines		
11.1.12.7	Sharpening machines for saw blades	Forming mad	hines
		Forming mad	hines
11.1.12.7	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines	Forming mac	Mechanical presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines	11.2.1 11.2.1.1	Mechanical presses Open gap non-inclinable eccentric presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines	11.2.1 11.2.1.1 11.2.1.2	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.1	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.1 11.1.13.2 11.1.13.3	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.1	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.1 11.1.13.2 11.1.13.3	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14	Mechanical presses  Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4 11.1.13.5	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4 11.1.13.5	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15	Mechanical presses  Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Hand lever presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4 11.1.13.5 11.1.13.5	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15 11.2.1.16	Mechanical presses  Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Hand lever presses Wide frame crank drawing presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4 11.1.13.5 11.1.13.5 11.1.13.6	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders  Synthetic diamond powder	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15 11.2.1.16 11.2.1.16	Mechanical presses  Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Hand lever presses Wide frame crank drawing presses Four-point drawing presses Turntable mechanical presses Calibrating presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4 11.1.13.5 11.1.13.5.1 11.1.13.6 11.1.13.7	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders  Synthetic diamond powder Superfinishing materials	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15 11.2.1.16 11.2.1.17 11.2.1.17	Mechanical presses  Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Hand lever presses Wide frame crank drawing presses Four-point drawing presses Turntable mechanical presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4 11.1.13.5 11.1.13.5.1 11.1.13.6 11.1.13.7 11.1.13.8	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders  Synthetic diamond powder Superfinishing materials Blast media	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15 11.2.1.16 11.2.1.17 11.2.1.18 11.2.1.19	Mechanical presses  Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Hand lever presses Wide frame crank drawing presses Four-point drawing presses Turntable mechanical presses Calibrating presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4 11.1.13.5 11.1.13.5.1 11.1.13.6 11.1.13.7 11.1.13.8	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders  Synthetic diamond powder Superfinishing materials Blast media Grinding tools and accessories – other  Honing, lapping, polishing and deburring machines	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.15 11.2.1.15 11.2.1.16 11.2.1.17 11.2.1.18 11.2.1.19 11.2.1.19	Mechanical presses  Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Hand lever presses Wide frame crank drawing presses Four-point drawing presses Turntable mechanical presses Calibrating presses Fine blanking presses Special purpose mechanical presses – other
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4 11.1.13.5 11.1.13.5 11.1.13.6 11.1.13.7 11.1.13.8 11.1.13.99 11.1.14 11.1.14.1	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders  Synthetic diamond powder Superfinishing materials Blast media Grinding tools and accessories – other  Honing, lapping, polishing and deburring machines Honing machines	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15 11.2.1.16 11.2.1.17 11.2.1.18 11.2.1.19 11.2.1.19 11.2.1.20 11.2.1.99	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Geared drawing presses Hand lever presses Wide frame crank drawing presses Four-point drawing presses Turntable mechanical presses Calibrating presses Special purpose mechanical presses – other  Hydraulic presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4 11.1.13.5 11.1.13.5 11.1.13.6 11.1.13.7 11.1.13.8 11.1.13.99 11.1.14 11.1.14.1 11.1.14.1	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders  Synthetic diamond powder Superfinishing materials Blast media Grinding tools and accessories – other  Honing, lapping, polishing and deburring machines Honing machines Cylinder honing machines	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15 11.2.1.16 11.2.1.17 11.2.1.18 11.2.1.19 11.2.1.19 11.2.1.19 11.2.1.19	Mechanical presses  Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Hand lever presses Wide frame crank drawing presses Tourn-point drawing presses Turntable mechanical presses Calibrating presses Fine blanking presses Special purpose mechanical presses – other  Hydraulic presses Double-action presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.4 11.1.13.5 11.1.13.5 11.1.13.6 11.1.13.7 11.1.13.8 11.1.13.99 11.1.14 11.1.14.1 11.1.14.1	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders  Synthetic diamond powder Superfinishing materials Blast media Grinding tools and accessories – other  Honing, lapping, polishing and deburring machines Honing machines Cylinder honing machines Surface lapping and cylindrical lapping machines	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15 11.2.1.16 11.2.1.17 11.2.1.18 11.2.1.19 11.2.1.19 11.2.1.19 11.2.1.19	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Geared drawing presses Hand lever presses Wide frame crank drawing presses Four-point drawing presses Turntable mechanical presses Calibrating presses Special purpose mechanical presses – other  Hydraulic presses Double-action presses Double-action presses Double- and four-column hydraulic presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.5 11.1.13.5 11.1.13.6 11.1.13.7 11.1.13.8 11.1.13.99 11.1.14 11.1.14.1 11.1.14.1 11.1.14.1 11.1.14.2 11.1.14.3 11.1.14.4	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders  Synthetic diamond powder Superfinishing materials Blast media Grinding tools and accessories – other  Honing, lapping, polishing and deburring machines Honing machines Cylinder honing machines Surface lapping and cylindrical lapping machines Lapping machines – other	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.9 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15 11.2.1.16 11.2.1.17 11.2.1.18 11.2.1.19 11.2.1.20 11.2.1.99 11.2.2 11.2.2.1 11.2.2.2 11.2.2.3	Mechanical presses  Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Hand lever presses Wide frame crank drawing presses Four-point drawing presses Turntable mechanical presses Calibrating presses Fine blanking presses Fine blanking presses Special purpose mechanical presses – other  Hydraulic presses Double-action presses Double- and four-column hydraulic presses Wide frame drawing presses
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11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.12 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.5 11.1.13.5 11.1.13.6 11.1.13.7 11.1.13.8 11.1.13.99 11.1.14 11.1.14.1 11.1.14.2 11.1.14.1 11.1.14.2 11.1.14.3 11.1.14.3 11.1.14.4 11.1.14.5 11.1.14.6 11.1.14.7 11.1.14.8 11.1.14.8 11.1.14.9	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders  Synthetic diamond powder Superfinishing materials Blast media Grinding tools and accessories – other  Honing, lapping, polishing and deburring machines Honing machines Cylinder honing machines Surface lapping and cylindrical lapping machines Lapping machines – other Polishing machines, abrasive belt Polishing machines, abrasive disc Centreless polishing machines Double ended grinding and polishing machines Grinding, polishing and tumbling barrels	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15 11.2.1.16 11.2.1.17 11.2.1.18 11.2.1.19 11.2.1.19 11.2.1.20 11.2.1.99  11.2.2 11.2.2.1 11.2.2.2 11.2.2.3 11.2.2.4 11.2.2.5 11.2.2.6 11.2.2.7 11.2.2.8	Mechanical presses Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Hand lever presses Wide frame crank drawing presses Four-point drawing presses Calibrating presses Calibrating presses Fine blanking presses Special purpose mechanical presses – other  Hydraulic presses Double-action presses Double-and four-column hydraulic presses Hydraulic transfer presses Hydraulic transfer presses Straight double sided presses Open gap presses Embossing/stamping hydraulic presses
11.1.12.7 11.1.12.8 11.1.12.9 11.1.12.10 11.1.12.11 11.1.12.13 11.1.12.14 11.1.12.99 11.1.13 11.1.13.1 11.1.13.2 11.1.13.3 11.1.13.5 11.1.13.5 11.1.13.6 11.1.13.7 11.1.13.8 11.1.13.8 11.1.13.99 11.1.14 11.1.14.1 11.1.14.2 11.1.14.3 11.1.14.3 11.1.14.4 11.1.14.5 11.1.14.6 11.1.14.7 11.1.14.8	Sharpening machines for saw blades Gear cutting tool sharpening machines Tap grinding machines Tool sharpening and lapping machines Threading die and chaser grinding machines Milling head sharpening machines Shear blade and machine knife sharpening machines Swing-frame grinding machines Tool grinding and sharpening machines – other  Abrasives Bonded abrasives Coated abrasives Grinding and polishing pastes Abrasive products with diamond  Grinding and polishing wheels, discs and belts Flexible grinders  Synthetic diamond powder Superfinishing materials Blast media Grinding tools and accessories – other  Honing, lapping, polishing and deburring machines Honing machines Cylinder honing machines Surface lapping and cylindrical lapping machines Lapping machines, abrasive belt Polishing machines, abrasive disc Centreless polishing machines Double ended grinding and polishing machines	11.2.1 11.2.1.1 11.2.1.2 11.2.1.3 11.2.1.4 11.2.1.5 11.2.1.6 11.2.1.7 11.2.1.8 11.2.1.10 11.2.1.11 11.2.1.12 11.2.1.13 11.2.1.14 11.2.1.15 11.2.1.16 11.2.1.17 11.2.1.18 11.2.1.19 11.2.1.19 11.2.1.20 11.2.1.99  11.2.2 11.2.2.1 11.2.2.2 11.2.2.3 11.2.2.4 11.2.2.5 11.2.2.6 11.2.2.7	Mechanical presses  Open gap non-inclinable eccentric presses Inclinable eccentric presses Straight sided presses Two-point crank presses Toggle lever presses Crank presses Transfer presses Mechanical table presses High-duty mechanical presses with automatic feed Friction screw presses Fly presses Mechanical column presses Embossing/stamping presses Geared drawing presses Hand lever presses Wide frame crank drawing presses Four-point drawing presses Calibrating presses Calibrating presses Fine blanking presses Special purpose mechanical presses – other  Hydraulic presses Double- and four-column hydraulic presses Wide frame drawing presses Hydraulic transfer presses Hydraulic table presses Straight double sided presses Open gap presses

## IMT 2024

11.2.2.11	Die spotting presses	11.2.8.9	Swing-arm bending machines
11.2.2.12	Fine blanking presses	11.2.8.10	Mechanical press brakes
11.2.2.13	Special purpose hydraulic presses	11.2.8.11	Hydraulic press brakes
11.2.2.14	Deep-drawing presses	11.2.8.12	Sheet bending rolls
11.2.2.15	Pneumatic and hydropneumatic presses	11.2.8.13	Knurling, flanging, ribbing and curling machines
	3 1 1	11.2.8.14	Seaming machines
11.2.3	Presses for special applications	11.2.8.15	Marking machines
11.2.3.1	Trimming presses	11.2.8.16	Can making machines
11.2.3.2	Coining presses	11.2.8.17	Riveting machines
11.2.3.3	Powder compacting presses	11.2.8.17	Winding devices
11.2.3.4	Calibrating presses for special applications	11.2.8.19	Pressure compression and joining machines and tools
11.2.3.5	Scrap baling and briquetting presses	11.2.8.99	Sheet and strip working machines – other
11.2.3.6	Flanging presses		
11.2.3.7	Stamping presses	11.2.9	Shears, press dies, blanking machines
11.2.3.8	Bending and straightening presses	11.2.9.1	Metal forming centres for punching and pressing
		11.2.9.2	Mechanically driven table shears
11.2.4	Forging machines and hammers	11.2.9.3	Hydraulically driven table shears
11.2.4.1	Hammers	11.2.9.4	Circular shears
11.2.4.2	Forging machines and presses	11.2.9.5	Gang slitting and circular tool shears
11.2.4.3	Automatic transfer forging machines	11.2.9.6	Combined curve-cutting and nibbling machines
11.2.4.99	Forging machines – other	11.2.9.7	Universal shearing and punching (and/or notching)
11.2.4.55	rorging machines other	11.2.5.7	machines
11.2.5	Bar, section and tube working machines	11.2.9.8	
			Concrete reinforcing bar cutters
11.2.5.1	Straightening machines	11.2.9.9	Notching machines
11.2.5.2	Bar and section bending machines	11.2.9.10	Nibbling machines
11.2.5.3	Bending machines for reinforcing bars	11.2.9.11	Punching presses
11.2.5.4	Roller finishing and deep rolling machines	11.2.9.99	Shearing, nibbling, notching and punching machines – other
11.2.5.5	Section roll bending machines		
11.2.5.6	Ring rolling machines	11.2.10	Micro-forming machines
11.2.5.7	Tube forming, welding and cutting-off machines		•
11.2.5.8	Tube bending machines	11.2.99	Forming machines – other
11.2.5.9	Tube reducing and flaring machines		
11.2.5.10	Tube finishing machines	Machines fo	or unconventional and special machining and forming
11.2.5.11	Automatic transfer bar, profile and tube forming lines	technologie	
11.2.5.99	Bar, section and tube working machines – other	11.3.1	Rapid prototyping devices
		11.3.2	Ultrasonic machine tools
11.2.6	Wire forming machines	11.3.3	Water jet cutting machines
11.2.6.1	Wire drawing machines	11.3.4	Electron beam working machines
11.2.6.2	Wire straightening and cutting-off machines	11.3.5	Plasma beam working machines
11.2.6.3	Wire bending machines	11.3.6	Machines for unconventional machining – other
11.2.6.4	Spring coiling machines and devices	11.3.7	Laminating (sandwiching) machines and equipment
11.2.6.5	Chain making machines		for composites
11.2.6.6	Wire netting and weaving machines	11.3.8	Die casting machines
11.2.6.7	Threading, screwing and bolt rolling machines	11.3.9	Longitudinal and circular dividing machines
11.2.6.8	Rope and cable making machines	11.3.10	Finishing (make-up) machines
	•		
11.2.6.9	Nail making machines	11.3.11	Embrossing, stamping and marking equipment
11.2.6.99	Wire forming machines – other	11.3.12	Laser lettering machines
		11.3.13	Coating machines
11.2.7	Bolt, screw, nut and rivet making machines	11.3.99	Machines for unconventional and special machining
11.2.7.1	Hot and cold pressing machines for bolts and screws		and forming technologies – other
11.2.7.2	Bolt shears		
11.2.7.3	Bolt and screw chamfering machines		
11.2.7.4	Nut presses		
11.2.7.5	Nut tapping machines		
11.2.7.6	Screw and bolt threading machines		
11.2.7.7	Thread, screw and bolt rolling machines		
11.2.7.8	Screw head turning and slotting machines		
11.2.7.9	Bolt, nut and rivet deburring (trimming) machines		
11.2.7.10	Wood screw making machines		
11.2.7.11	Multistation-Partformer		
11.2.7.99	Bolt, screw, nut and rivet making machines – others		
11.2.8	Sheet working machines, laser based equipment		
11.2.8.1	Sheet metal machining centers, incl. laser based machines or		
	plasma units		
11.2.8.2	Nibbling machines		
11.2.8.3	Strip levelling and cutting-off machines		
11.2.8.4	Cutting-to-length and slitting lines		
11.2.8.5	Sheet-straightening machines		
11.2.8.6	Sheet forming machines		
11.2.8.7	Sheet metal forming machines		
11.2.8.8	Spinning machines		

### **13<sup>TH</sup> INTERNATIONAL MACHINE TOOLS EXHIBITION**



#### QUALITY CONTROL IN METAL-WORKING AND FORMING SECTOR

11.4.1	Measuring and checking instruments for machining and forming
11.4.1.1	Length measuring instruments
11.4.1.2	Angle and inclination measuring instruments
11.4.1.3	Vibration measuring instruments
11.4.1.4	Speed measuring instruments
11.4.1.5	Surface quality measuring instruments
11.4.1.6	Layer thickness measuring instruments
11.4.1.7	Noise level measuring instruments
11.4.1.8	Temperature measuring instruments for machining and forming
11.4.1.9	Force and torque measuring instruments
11.4.1.10	Clamping force measuring instruments
11.4.1.11	Pressure measuring instruments for machining and forming
11.4.1.12 11.4.1.13	Profile and shape measuring instruments Thread measuring instruments
11.4.1.14	Circularity measuring instruments
11.4.1.15	Gauges and meters for machining and forming
11.4.1.16	Measuring and testing devices, machining and forming
	standards
11.4.1.17	Mechanical precision measuring instruments for machining and forming
11.4.1.18	Optical precision measuring instruments
	for machining and forming
11.4.1.19	Electric precision measuring instruments
	for machining and forming
11.4.1.20	Electronic precision measuring instruments
	for machining and forming
11.4.1.21	Pneumatic precision measuring instruments
11 / 1 22	for machining and forming
11.4.1.22 11.4.1.23	Laser measuring instruments for machining and forming Measured value transducers for machining and forming
11.4.1.24	Measured value amplifiers for machining and forming
11.4.1.25	Measuring tables for machining and forming
11.4.1.26	Digital read out systems
11.4.1.27	Breakage and wear detection systems
11.4.1.28	Measuring microscopes for machining and forming
11.4.1.29	Surface plates and flatness testing equipment
11 / 2	Maaayyiyaayaabiyaa
<b>11.4.2</b> 11.4.2.1	Measuring machines Measuring and marking machines
11.4.2.2	Computerized measuring machines for machining
11.4.2.2	and forming sector
11.4.2.3	Tool setting devices
11.4.2.4	Hob testing instruments
11.4.2.5	Gear testing equipment
11.4.2.6	Sorting machines and equipment
11.4.2.7	Measuring robots
11.4.2.8	Measuring machines for lot production in machining
11 ( 0 0	and forming sector
11.4.2.9	Measuring projectors Coordinate and multicoordinate measuring machines
11.4.2.10 11.4.2.11	Systems for 3D scanning
11.4.2.12	Measuring machine accessories
	Theasaring machine accessories
11.4.3	Testing machines for machining and forming sector
11.4.3.1	Testing machines for tension, compression, bending
	and other features
11.4.3.2	Tension testing machines
11.4.3.3	Pendulum impact testing machines
11.4.3.4	Drop hammers for material testing
11.4.3.5	Hardness testing machines and devices
11.4.3.6 11.4.3.7	Spring testing machines Material fatigue testing machines
11.4.3./	(tension, compression, bending)
11.4.3.8	Torsion testing machines
11.4.3.9	Deep-drawing testers
11.4.3.10	Machines and devices for non-destructive material testing
11.4.3.11	Gear testing machines
11.4.3.12	Balancing machines for machining and forming

11.4.3.13 11.4.3.14 11.4.3.15 11.4.3.16 11.4.3.17 11.4.3.18 11.4.3.99	Electronic balancing equipment for machining and forming Ultrasonic testing machines for machining and forming Power test benches for machining and forming Surface testing machines for machining and forming Stereomicroscopes Eddy current testers Testing machines for machining and forming sector – other
11.4.4	Image data processing in machining and forming sector
11.4.4.1	Image processing systems in machining and forming sector
11.4.4.2	Video systems and endoscopes
11.4.4.3	Sensor systems for image and signal pattern recognition
	for machining and forming sector
11.4.4.4	Visual geometry measuring devices
11.4.4.5	Measuring microscopes with digital image processing
11.4.5	Quality assurance software in machining and forming sector
11.4.5.1	Software for acquisition of measured electrical data
11.4.5.1	in machining and forming sector
11.4.5.2	Software for acquisition of measured non-electrical
11.4.5.2	data in machining and forming sector
11.4.5.3	Software for processing and evaluation of measured
	data in machining and forming sector
11.4.5.4	Diagnostic systems for machining and forming sector
11.4.5.5	Quality assurance software in machining and forming sector
11.4.5.6	Software for failure mode and effects analysis (FMEA)
	applications
11.4.5.7	Software for technological data acquisition
	in machining and forming sector
11.4.5.8	Software for operating data acquisition
	in machining and forming sector
11.4.5.9	Quality information and control systems
11 / 5 10	in machining and forming sector
11.4.5.10	Software for testing equipment supervision and management in machining and forming sector
11.4.5.11	Software for test scheduling and test data evaluation
11.4.5.11	in machining and forming sector
	and totaling sector
11.4.99	Quality control for machining and forming sector – other



### **13**<sup>TH</sup> INTERNATIONAL MACHINE TOOLS EXHIBITION

FLEXIBLE MA	NUFACTURING SYSTEMS (FMS)	11.5.4	Electrical and electronic equipment for machine tools
11.5.1	Computer systems and peripherals for flexible	11.5.4.1	and metal forming machines Electric motors for machine tools and forming machines
11.5.1	manufacturing systems	11.5.4.2	Generators
11.5.1.1	FMS data processing systems	11.5.4.3	Converters
11.5.1.2	Turnkey computer systems for flexible manufacturing	11.5.4.4	Rectifiers for electrical and electronic equipment of machine
11.3.1.2	systems	11.5.1.1	tools and metal forming machines
11.5.1.3	CAD workstations	11.5.4.5	Electric, electronic and magnetic switching and control gear
11.5.1.4	Servers for flexible manufacturing systems	11.5.4.6	Electric and electronic measuring and counting devices
11.5.1.5	Data network elements for flexible manufacturing systems	11.5.4.7	Electric and electronic detecting, measuring, testing
11.5.1.6	Communication adapters		and protecting devices
11.5.1.7	Operator workplaces for flexible manufacturing systems	11.5.4.8	Electric and electronic C1797components and assemblies
11.5.1.8	Input devices for flexible manufacturing systems		in flexible manufacturing systems
11.5.1.9	Interactive terminals for flexible manufacturing systems	11.5.4.9	Piezoelectric motors, controllers, systems in flexible
11.5.1.10	Digitizers, tablets for flexible manufacturing systems		manufacturing systems
11.5.1.11	Scanners for flexible manufacturing systems	11.5.4.10	Optoelectronic parts for laser machine tools
11.5.1.12	Plotters for flexible manufacturing systems	11.5.4.11	Power electronics, closed-loop electronic systems
11.5.1.13	Printers for flexible manufacturing systems		in flexible manufacturing systems
11.5.1.14	NC-programming systems	11.5.4.12	Flexible energy supplies
11.5.1.99	Computer systems and peripheral units for flexible manufacturing	11.5.4.13	Flexible control and power-supply cables for flexible
	systems – other		manufacturing systems
		11.5.4.14	Electric control panels and cubicles in flexible
11.5.2	Software for flexible manufacturing systems		manufacturing systems
		11.5.4.15	Electrical equipment for induction heating plants
11.5.2.1	CAD/CAM systems for machine tools and metal forming	11.5.4.99	Electric and electronic equipment for machine tools and metal
	machines		forming machines – other
11.5.2.1.1	CAD/CAM systems for machine tools		
11.5.2.1.2	CAD/CAM systems for metal forming machines	11.5.5	Assembling and industrial robots in flexible
	C C		manufacturing systems
11.5.2.2	Software for TPV and PDM (Product Data Management)	11.5.5.1	Flexible assembling systems
11.5.2.3	Software for CNC control	11.5.5.2	Individual assembling workplaces
11.5.2.4	Software for PLC control	11.5.5.3	Assembling equipment and automatic machines
11.5.2.5	Software for calculation of stress analysis, dynamic design	11.5.5.4	Assembling lines in flexible manufacturing systems
11 5 2 6	and heat balance by the finite-element method Software for electrical design	11.5.5.5	Modular units for assembling systems
11.5.2.6	S Comments	11.5.5.6	Handling equipment for warehousing, input and delivery of work
11.5.2.7	Software for production planning and management in flexible manufacturing systems	11.5.5.7	pieces, semi-products in flexible manufacturing systems Handling equipment for aligning and positioning
11.5.2.8	Software for flexible assembling systems	11.5.5.7	of workpieces
11.5.2.9	Software for operating data processing in flexible	11.5.5.8	Feeding equipment for machine tools
11.5.2.9	manufacturing systems	11.5.5.9	Gripping tools and automatic fixtures
11.5.2.10	Software for capacity and production date scheduling in flexible	11.5.5.10	Exchangeable devices for robot grippers
111312110	manufacturing systems	11.5.5.11	Manipulators in flexible manufacturing systems
11.5.2.11	Software for stock management	11.5.5.12	Industrial robots in flexible manufacturing systems
11.5.2.12	Software for warehousing and material management	11.5.5.13	Working tools for industrial robots
11.5.2.13	Software for material database	11.5.5.99	Manipulators, feeding and sorting equipment – other
11.5.2.14	Software for industrial robots in flexible manufacturing		, , , , , , , , , , , , , , , , , , , ,
	systems	11.5.6	Automation of warehousing and transportation
11.5.2.15	Software for simulation calculations in flexible		for machining and forming
	manufacturing systems	11.5.6.1	Conveying systems for machining and forming
11.5.2.16	Software for warehousing and conveyor systems in flexible	11.5.6.2	Conveyers for workpieces for machining and forming
	manufacturing systems	11.5.6.3	Driverless ground conveyors for machining and forming
		11.5.6.4	Driverless warehouse conveyors for machining and forming
11.5.2.99	Software for flexible manufacturing systems – other	11.5.6.5	Components to interlink separate production stages
		11.5.6.6	Magazines for workpieces, pressed pieces and semi-products
11.5.3	Control and drive systems	11.5.6.7	Warehousing systems for machining and forming
11.5.3.1	CNC control systems	11.5.6.8	Palletizing systems of workpieces and tools
11.5.3.2	Programmable logic controllers (PLC)	11.5.6.9	Warehousing systems of workpieces and tools
11.5.3.3	Programming systems for CNC training	11.5.6.10	Palletizing systems for machining and forming
11.5.3.4	Axis position measuring systems	11.5.6.11	Warehousing equipment for manufacturing plants
11.5.3.5	Robot controllers in flexible manufacturing systems		for machining and forming
11.5.3.6	Feed drives in flexible manufacturing systems	11.5.6.12	Metal chip crushers in flexible manufacturing systems
44.5.2.5	Main daine in Grathle Co. 1	11.5.6.13	Chip conveyers for flexible manufacturing systems
11.5.3.7	Main drives in flexible manufacturing systems	11.5.6.14	Chip deoiling equipment
11.5.3.7.1	Servo drives for machine tools and metal forming+C2034	44 5 00	Florible manufacture (
	machines	11.5.99	Flexible manufacturing systems – other
11 5 2 0	Actuators		
11.5.3.8	Actuators  Hazar duty electronics for machine tool and motal working		
11.5.3.9	Heavy-duty electronics for machine tool and metal working machine control and drives		
	machine control and arrives		
11.5.3.99	Control and drives – other		
_1.0.0.0	22.13.2.2.11W WITTOO V WITO		



PRECISION TO	noi s	11.6.3	Chucking tools
I KLCISION IC	JOLS	11.6.3.1	Standard fixture parts and clamping elements
11.6.1	Machining tools	11.6.3.2	Control elements for jigs and machines
11.6.1.1	Reamers	11.6.3.3	Collet chucks
11.6.1.2	Boring bars	11.6.3.4	Machine vices
11.6.1.3	Tool bits	11.6.3.5	Drill chucks
11.6.1.4	Broaching tools	11.6.3.6	Manual chucks for grinding machines
11.6.1.5	Gear tools	11.6.3.7	Power chucks for grinding machines
11.6.1.6	Threading dies	11.6.3.8	Lathe chucks, hand operated
11.6.1.7	Threading tools, cutting	11.6.3.9	Lathe chucks, power operated
11.6.1.8	Milling cutters and gear shaping cutters, disc-type	11.6.3.10	Centers, carriers for lathes
11.6.1.9	Countersinks and core drills	11.6.3.11	Expanding mandrels
11.6.1.10	Circular saw blades, incl. metal carbide discs and tips	11.6.3.12	Magnetic chucks
11.6.1.11	Metal hacksaw blades	11.6.3.13	Milling arbors
11.6.1.12	Metal band saw blades	11.6.3.14	Sleeves
11.6.1.13	Inserted tooth saw blades	11.6.3.15	Dividing fixing heads
11.6.1.14	Cylindrical saws, slitting saws	11.6.3.16	Magnetic fixing plates
11.6.1.15	Cutting ceramics inserts	11.6.3.17	Vacuum fixing plates
11.6.1.16	Carbide tipped tools and cutting tips	11.6.3.18	Fixture plates
11.6.1.17	Twist drills and center drills	11.6.3.19	Rotary holders
11.6.1.18	Spade drills	11.6.3.20	Tool holders
11.6.1.19	Step drills	11.6.3.21	Rotary tables, also NC-controlled
11.6.1.20	Gun drills	11.6.3.22	Cross slide tables, also NC-controlled
11.6.1.21	Boring tools	11.6.3.23	Chucking tools with code
			Chucking tools with code Chucking systems, incl. modular
11.6.1.22	Fine boring tools	11.6.3.24	3 3
11.6.1.23	Turning tools and tool holders	11.6.3.99	Clamping tools – other
11.6.1.24	Diamond tools, diamond paste, industrial diamonds		<b>-</b>
11.6.1.25	Dressing tools	11.6.4	Tool systems
11.6.1.26	Shaving cutters, deburring tools	11.6.4.1	Tool systems, modular
11.6.1.27	Planing and shaping tools	11.6.4.2	Tool turrets
11.6.1.28	Honing, lapping and polishing tools	11.6.4.3	Tool changers and magazines
11.6.1.29	Cutting tools, coated	11.6.4.4	Tool management software
11.6.1.30	Cutting tools with integrated code	11.6.4.5	Multi-spindle heads
11.6.1.31	Power tools	11.6.4.6	Boring and facing heads
11.6.1.32	Graphite materials for EDM – Electro discharge machining	11.6.4.7	Turret heads
11.6.1.33	Electrodes, cutting wires, consumables for electro discharge	11.6.4.8	Slotting heads
	machine tools	11.6.4.9	Inserted blade milling cutters
11.6.1.34	Special tools for machining	11.6.4.10	Toolholder with coupleable drive
11.6.1.35	Tool care products for machining	11.6.4.11	Copying devices
11.6.1.99	Tools for machining – other	11.6.4.12	Relieving devices
	<b>3</b>	11.6.4.13	Grinding wheel trueing, dressing and forming devices
11.6.2	Forming tools	11.6.4.14	Threading devices
11.6.2.1	Cutting tools	11.6.4.15	Milling devices
11.6.2.2	Shear knives, machine knives	11.6.4.16	Boring devices
11.6.2.3	Blanking and punching dies	11.6.4.17	Grinding devices
11.6.2.4	Forming dies	11.6.4.18	Tool identification systems
11.6.2.5	Stamping dies, embossing dies	11.6.4.19	Tool breakage identification devices
11.6.2.6	Markers	11.6.4.20	Tool measuring and setting units
11.6.2.7	Punches	11.6.4.21	Tool maintenance systems
11.6.2.8 11.6.2.9	Knurling tools Thread rolling dies	11.6.4.22 11.6.4.99	Spherical turning attachments Tool systems – other
11.0.2.9	inread rolling dies	11.0.4.99	ioot systems – other
11.6.2.10	Thread cutting tools (forming)	11.6.99	Precision tools – other
11.6.2.10.1	Heads for thread cold rolling		
11.6.2.11	Roller burnishing tools, smoothing and straining tools		
11.6.2.12	Drawing dies		
11.6.2.13	Die blocks		
11.6.2.14	Deep drawing dies		
11.6.2.15	Forming tools coated		
11.6.2.16	Quick-action fixtures for press tools		
11.6.2.17	Press tool changing systems		
11.6.2.18	Special tools for forming		
11.6.2.19	Die-casting dies		
11.6.2.20	Guide racks		
11.6.2.21	Standardized parts for forming tools and moulds		
	(punching, stamping tools, posts, sleeves)		
11.6.2.22	Wedge units		
11.6.2.99	Forming tools – other		



ACCESSORIES	FOR METAL-WORKING AND FORMING	11.7.3.22	Pneumatic drives, control engineering, components
			for machine tools and metal forming machines
11.7.1	Lubrication and cooling of metal-working and forming	11.7.3.23	Compressors for machine tools and metal forming machines
11.7.1	machines	11.7.3.24	Compressed air conditioning unit
11 7 1 1			
11.7.1.1	Lubricating oils and consumables for metal-working	11.7.3.25	Small electric hoists, conveyance rollers
	and forming machines	11.7.3.26	Pneumatic and oil pneumatic jacks
11.7.1.2	Coolants and lubricants	11.7.3.27	Winding and unwinding devices
11.7.1.3	Central lubricating systems	11.7.3.28	Bar magazines and feeders
11.7.1.4	Oiling and greasing systems	11.7.3.29	Sheet metal containers and loaders
11.7.1.5	Cooling systems	11.7.3.30	Grinding spindles
11.7.1.6	Separators for coolants and lubricants, filters, centrifuges	11.7.3.31	High frequency spindles for machine-tools
11.7.1.7	Metal cleaning and deoiling devices	11.7.3.32	Main spindles for turning, milling, drilling
		11./.3.32	
11.7.1.8	Spraying attachment for forging machines		and boring machines
11.7.1.9	Cask cleaning equipment	11.7.3.33	Guide way wipers for machine tools
11.7.1.10	Coolant hoses	11.7.3.34	Columns, beds and parts of machines
			by polymerized concrete
11.7.2	Waste disposal in machining and forming sector	11.7.3.35	Machine lighting
11.7.2.1	Air purity protection systems and components	11.7.3.36	Personal protective equipment
11.7.2.2	Exhaust systems in machining and forming sector	11.7.3.37	Protective devices
11.7.2.3			
	Dust collection equipment, filtering systems, filters	11.7.3.38	Guards for machine-tools, slideways and lead screws
11.7.2.4	Wastewater treatment equipment and components	11.7.3.39	Safety and protective equipment for machine tools
	in machining and forming sector		and metal forming machines
11.7.2.5	Water treatment equipment and components in machining	11.7.3.40	Antiskid mats for machines
	and forming sector	11.7.3.41	Tool cabinets for machine tools
11.7.2.6	Emulsion recovery equipment	11.7.3.42	Equipment of workshops for metal-working and forming sector
11.7.2.7	Processing of coolants and lubricants	11.7.5.12	Equipment of Workshops for metalt working and forming sector
		11 7 00	Accessories for motal working and forming other
11.7.2.8	Oil separation, oil mist separation	11.7.99	Accessories for metal working and forming – other
11.7.2.9	Waste oil collecting tanks		
11.7.2.10	Filtration, ultrafiltration		
11.7.2.11	Chip breakers		
11.7.2.12	Chip conveyors		
11.7.2.13	Chip briquetting presses		
11.7.2.14	Oil recovery equipment (chip separators)		
11.7.2.15	Tipping containers for chip removal		
11.7.2.16	Industrial dust collectors for cleaning of machines		
11.7.2.17	Process water treatment for superfinishing systems		
11.7.3	Mechanical components and accessories for construction of		
	machine-tools and forming machines		
11.7.3.1	Fittings for machine tools and metal forming machines		
11.7.3.2	Seals / gaskets for machine tools and metal forming		
11.7.5.2	machines		
11.7.3.3	Flexible washers, levelling components		
11.7.3.4	Springs for machine tools and metal forming machines		
11.7.3.5	Drive components for machine tools and metal forming		
	machines		
11.7.3.6	Gear units for machine tools and metal forming machines		
11.7.3.7	Infinitely variable speed gears for machine tools		
11.7.5.7	and metal forming machines		
44 7 2 0			
11.7.3.8	Reducing gears for machine tools and metal forming		
	machines		
11.7.3.9	Couplings for machine tools and metal forming machines		
11.7.3.10	Friction couplings for machine tools and metal forming		
	machines		
11.7.3.11	Brakes for machine tools and metal forming machines		
11.7.3.12	Plain and antifriction bearings for machine tools		
11.7.3.12			
	and metal forming machines		
11.7.3.13	Linear lines for machine tools and metal forming machines		
11.7.3.14	Ball and roller slides, pneumatic slides		
11.7.3.15	Ball screws and nuts		
11.7.3.16	Machine elements for machine tools and metal forming		
	machines		
11.7.3.17	Hydraulic power units, pumps, motors, cylinders, drives,		
	assemblies		
11 7 2 10			
11.7.3.18	Hydraulic control engineering for machine tools		
	and metal forming machines		
11.7.3.19	High pressure lines and hoses, flexible tubing		
11.7.3.20	Fittings, connections for machine tools and metal forming		
	machines		
11.7.3.21	High-pressure pumps and their accessories		
	for water-jet cutting machines		

#### 13<sup>™</sup> INTERNATIONAL MACHINE TOOLS EXHIBITION



#### SERVICE AND REPAIRS OF MACHINE-TOOLS AND FORMING MACHINES, INSTITUTIONS, LITERATURE AND SERVICES IN METAL-WORKING REWORKED MACHINES AND FORMING SECTOR 11.8.1 Spare parts for machine tools 11.11.1 Associations, organizations in metal-working and forming 11.8.2 Spare parts for forming machines 11.11.2 Technical publishing houses, literature, specialized 11.8.3 General overhauls of machine tools and forming periodicals 11.8.3.1 General overhauls of machine tools 11.11.3 Consultancy in the field of machine tools 11.8.3.2 General overhauls of metal forming machines and metal-forming machines 11.8.4 Redesign and upgrading of machine tools 11.11.4 Engineering and design services in the field and metal forming machines of machine tools and metal-forming machines 11.8.4.1 Upgrading of el. equipment of machine tools 11.11.4.1 Engineering and design services in the field and metal forming machines of machine tools Upgrading of peripheral units for NC and CNC machines Engineering and design services in the field 11.8.4.2 11.11.4.2 11.8.4.3 Redesign and upgrading of machine tools of metal-forming machines 11.8.4.4 Redesign and upgrading of metal forming machines 11.11.5 Technologies for metal working and forming Reworked machine tools 11.8.5 Reworked metal forming machines Custom manufacture of single-purpose machine 11.8.6 11.11.6 tools and metal forming machines 11.8.99 Service and repairs of metal working and forming machines, 11.11.6.1 Custom manufacture of single-purpose machine tools reworked machines - other Custom manufacture of single-purpose metal forming 11.11.6.2 machines Hand-operated tools 11.11.7 Execution of investments in the field of metal working Pneumatic hand-operated tools 11.9.1 and forming 11.9.1.1 Hand-operated pneumatic drills Business services in the field of machine tools 11.11.8 11.9.1.2 Hand-operated pneumatic thread-cutting machines and metal forming machines 11.9.1.3 Hand-operated pneumatic nut runners and screwdrivers Leasing of metal working and forming machines 11.11.9 11.9.1.4 Hand-operated pneumatic grinding machines, angle grinders and 11.11.10 Custom coating of metal cutting and forming tools polishing machines 11.9.1.5 Hand-operated pneumatic shears Custom tool renovation and reconditioning 11,11,11 11.9.1.6 Manual pneumatic rivet guns 11.11.11.1 Compression mould refurbishment Hand-operated pneumatic tools and accessories – other 11.9.1.99 11.11.12 Reverse engineering services 11.9.2 Electric hand-operated tools, incl. cordless programme **Custom rapid prototyping** 11.11.13 Hand-operated electric drills and hammers 11.9.2.1 Hand-operated electric grinders, angle grinders and polishing 11.9.2.2 11.11.14 Offer of production capacities in the metal-working and forming sector 11.9.2.3 Hand-operated electric saws, shears and milling machines 11.11.14.1 Custom material cutting Hand-operated electric nut runners, screwdrivers and threading 11.9.2.4 11.11.14.2 Custom sheet-metal processing machines 11.11.14.3 Custom metal-working manufacturing 11.9.2.5 Hand-operated electric staplers Manual electric rivet guns 11.9.2.6 11.11.14.4 Offer of production capacities in the metal 11.9.2.7 Microtools working sector 11.9.2.99 Hand-operated electric tools and sets – other Custom CNC machining 11.11.14.4.1 11.11.14.4.2 Custom high-speed (HSC) machining 11.9.3 Hand-operated hydraulic tools 11.11.14.4.3 Custom machining of hard-to-work materials 11.9.4 Hand-operated tools driven by internal combustion engine 11.11.14.4.4 Custom laser marking, lettering, engraving Mobile and suspension hand-operated tools 11.9.5 11.11.14.4.5 Custom piece polishing Hand-operated tools and parts - others 11,9,99 Offer of production capacities in the metal forming sector 11.11.14.5 Manual non-mechanized tools 11.11.99 Services in the sector of metal working and forming - other 11.10.1 Hand hammers 11.10.2 Pliers, alligator wrenches 11.10.3 Manual deburring tools, files 11.99 Metal working and forming machines, manual tools, 11.10.4 Chisels, axes others 11.10.5 Screwdrivers Wrenches, torque wrenches 11.10.6 11.10.7 Hand cutting tools 11.10.8 Vices 11.10.9 Clamps (cramps) 11.10.10 Pullers/removers 11.10.11 Hand-operated jacks Cases and bags for tools 11.10.12 11.10.99 Manual non-mechanized tools - other



### 19<sup>™</sup> INTERNATIONAL FOUNDRY FAIR

CHARGE RAW M.	ATERIALS FOR FOUNDRIES	12.9.1.6	Equipment for manufacturing shell moulds
		12.9.1.7	Equipment for vacuum hardening of moulds (V-process)
12.1.1	Pig irons	12.9.1.8	Equipment mould manufacturing without binder with wax
12.1.2	Nonferrous metals, their alloys and master alloys		patterns
12.1.3	Waste metal (scrap)	12.9.1.99	Equipment of moulding shops and their accessories – other
12.1.4	Deoxidizing additives		
1215	Alloying additives	12.9.2	Equipment of core shops
<b>12.1.5</b> 12.1.5.1	<b>Alloying additives</b> Feroalloys	12.9.2.1	Shooting machines
12.1.5.1	reroatioys	12.9.2.2	Equipment for core shooting from self-setting mixtures
12.1.6	Lag-forming additives	12.9.2.3	Equipment for thermohardening of cores
12.1.7	Foundry coke	12.9.2.4	Equipment for manufacturing Cold Box cores
12.1.99	Charge raw materials for foundries – other	12.9.2.5	Automated lines and their accessories for core manufacturing
		12.9.2.99	Equipment of core shops and their accessories – other
12.2	EQUIPMENT OF MELTING PLANTS		
12.2.1	Equipment of cast iron melting plants	12.9.3	Driers, drying chambers
12.2.2	Equipment of steel melting plants	12.9.4	Aids, auxiliary tools for moulding shops
12.2.3	Equipment of nonferrous metals metal plants		and core shops
		12.9.5	Auxiliary materials and accessories for risers
REFRACTORY MA		EOLIND DV MEI	ITING AND HOLDING ELIDNACES
12.3.1	Non-shaped refractory materials	FUUNDKT ME	LTING AND HOLDING FURNACES
12.3.2	Shaped refractory materials, shaped pieces	12.10.1	Foundry fuel heated furnaces
12.3.3	Ceramic filters, sieves for the foundry industry	12.10.1	Foundry fuel-heated furnaces
12.3.4	Melting and holding crucibles of furnaces and ladles	12.10.2	Foundry electric furnaces
12.3.5	Chemical raw materials and additives for manufacturing	12.10.2.1	Foundry induction crucible and channel-type furnaces
	refractory products	12.10.2.1	(low and mid frequency)
12.3.99	Refractory materials – other	12.10.2.2	Foundry arc furnaces
		12.10.2.3	Foundry resistance furnaces
12.4	TECHNICAL GASES FOR FOUNDRY INDUSTRY	12.10.2.5	Touristy resistance furnaces
DATTEDNI MAIKT	NC FOLITOMENT	12.10.3	Foundry vacuum furnaces
PATTERN MAKIN	NG EQUIPMENT	12.10.4	Foundry plasma furnaces
12.5.1	Pattorn making aguinment (nattorns sero hoves sucon	12.10.5	Foundry electron-beam furnaces
12.5.1	Pattern making equipment (patterns, core boxes, sweep patterns)		•
12.5.1.1	Pattern making equipment from wood	12.10.6	Accessories of foundry furnaces
12.5.1.2	Pattern making equipment from plastics, resin	12.10.6.1	Fuel burners
12.5.1.3	Pattern making equipment from metal	12.10.6.2	Coils for induction furnaces
12.5.1.4	Pattern making equipment from wax		
12.5.1.99	Pattern making equipment (patterns, core boxes, sweep patterns)	12.10.99	Foundry melting and holding furnaces – other
	- other	CACTING MAG	THINKS AND FOURTHANDS ACCESSORIES
		CASTING MAC	HINES AND EQUIPMENT, ACCESSORIES
12.5.2	Machines and aids for manufacturing pattern making	12.11.1	Casting machines and equipment
	equipment		
12.5.3	Manufacturing patterns with the help	12.11.1.1	Pouring ladles
	Manufacturing patterns with the help of Rapid Prototyping System	12.11.1.1 12.11.1.2	Pouring ladles Machines and equipment for tipping and gravity casting
	Manufacturing patterns with the help	12.11.1.1 12.11.1.2 12.11.1.3	Pouring ladles  Machines and equipment for tipping and gravity casting  Machines and equipment for low-pressure casting
12.5.3 12.5.4	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines
12.5.3 12.5.4	Manufacturing patterns with the help of Rapid Prototyping System	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines
12.5.3 12.5.4 MATERIALS FOR	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment MOULDING AND CORE MIXTURES	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories
12.5.3 12.5.4	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories Automated casting equipment
12.5.3 12.5.4 MATERIALS FOR 12.6.1	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment MOULDING AND CORE MIXTURES Grog	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories Automated casting equipment Casting machines and equipment – other
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories Automated casting equipment Casting machines and equipment – other  Permanent moulds
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.1	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Additives into sand and core mixtures	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.1	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Additives into sand and core mixtures	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.2 12.11.2.99	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders Additives into sand and core mixtures Sand and core mixtures	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.2 12.11.2.99	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders Additives into sand and core mixtures Sand and core mixtures	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99  12.11.2 12.11.2.1 12.11.2.99 12.11.3	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Auxiliary materials and accessories for casting machines and equipment
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.2 12.11.2.99 12.11.3	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.2 12.11.2.99 12.11.3 12.11.3.1 12.11.3.2	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.2 12.11.2.99 12.11.3 12.11.3.1 12.11.3.2	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7 12.7.1 12.7.2	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  R MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation Magnets, separators and metal detectors	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99  12.11.2 12.11.2.1 12.11.2.2 12.11.2.99  12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.3.99	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds  Casting machines and equipment, accessories – other
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7 12.7.1 12.7.2 12.7.3	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99  12.11.2 12.11.2.1 12.11.2.2 12.11.2.99  12.11.3 12.11.3.1 12.11.3.2 12.11.3.3	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7 12.7.1 12.7.2 12.7.3 12.7.3.1	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment R MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation Magnets, separators and metal detectors for foundry industry	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99  12.11.2 12.11.2.1 12.11.2.2 12.11.2.99  12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.3.99	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds  Casting machines and equipment, accessories – other
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7 12.7.1 12.7.2 12.7.3	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  R MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation Magnets, separators and metal detectors	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99  12.11.2 12.11.2.1 12.11.2.2 12.11.2.99  12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99  12.11.99	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds  Casting machines and equipment, accessories – other  EQUIPMENT AND AIDS FOR CASTING KNOCK-OUT FROM MOULDS
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7 12.7.1 12.7.2 12.7.3 12.7.3.1	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Equipment for sand and core mixtures  Equipment for treatment of binding mixtures  Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation Magnets, separators and metal detectors for foundry industry  Runner and gate technology	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99  12.11.2 12.11.2.1 12.11.2.2 12.11.2.99  12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.3.99	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds  Casting machines and equipment, accessories – other  EQUIPMENT AND AIDS FOR CASTING KNOCK-OUT FROM MOULDS  EQUIPMENT AND ACCESSORIES FOR FINISHING RAW
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7 12.7.1 12.7.2 12.7.3 12.7.3.1	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment R MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation Magnets, separators and metal detectors for foundry industry	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.1 12.11.2.99 12.11.3 12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99 12.12	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds  Casting machines and equipment, accessories – other  EQUIPMENT AND AIDS FOR CASTING KNOCK-OUT FROM MOULDS  EQUIPMENT AND ACCESSORIES FOR FINISHING RAW CASTINGS
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7 12.7.1 12.7.2 12.7.3 12.7.3.1 12.8 EQUIPMENT OF I	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  R MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation Magnets, separators and metal detectors for foundry industry  Runner and gate technology  MOULDING SHOPS AND CORE SHOPS	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99  12.11.2 12.11.2.1 12.11.2.99  12.11.3 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99  12.12  12.13 12.11.3.1	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds  Casting machines and equipment, accessories – other  EQUIPMENT AND AIDS FOR CASTING KNOCK-OUT FROM MOULDS  EQUIPMENT AND ACCESSORIES FOR FINISHING RAW CASTINGS Equipment and accessories for surface cleaning of castings
12.5.3 12.5.4  MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7 12.7.1 12.7.2 12.7.3 12.7.3.1 12.8  EQUIPMENT OF I	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment  R MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Organic binders  Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation Magnets, separators and metal detectors for foundry industry  Runner and gate technology  MOULDING SHOPS AND CORE SHOPS  Equipment of moulding shops	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.1 12.11.2.99 12.11.3 12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99 12.12	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds  Casting machines and equipment, accessories – other  EQUIPMENT AND AIDS FOR CASTING KNOCK-OUT FROM MOULDS  EQUIPMENT AND ACCESSORIES FOR FINISHING RAW CASTINGS Equipment and accessories for surface cleaning of castings Gating and feeding system separator equipment
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7 12.7.1 12.7.2 12.7.3 12.7.3.1 12.8 EQUIPMENT OF I 12.9.1 12.9.1.1	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment R MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation Magnets, separators and metal detectors for foundry industry  Runner and gate technology  MOULDING SHOPS AND CORE SHOPS  Equipment of moulding shops Machines for bentonite mixture moulding in flasks	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.99 12.11.3 12.11.3.1 12.11.3.2 12.11.3.3 12.11.3.1 12.11.3.2 12.11.3.3	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds  Casting machines and equipment, accessories – other  EQUIPMENT AND AIDS FOR CASTING KNOCK-OUT FROM MOULDS  EQUIPMENT AND ACCESSORIES FOR FINISHING RAW CASTINGS Equipment and accessories for surface cleaning of castings Gating and feeding system separator equipment and accessories
12.5.3  12.5.4  MATERIALS FOR  12.6.1  12.6.2  12.6.2.1  12.6.2.2  12.6.3  12.6.4  12.7  12.7.2  12.7.3  12.7.3  12.8  EQUIPMENT OF I  12.9.1  12.9.1.1  12.9.1.2	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment R MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation Magnets, separators and metal detectors for foundry industry  Runner and gate technology  MOULDING SHOPS AND CORE SHOPS  Equipment of moulding shops Machines for bentonite mixture moulding in flasks Automatic moulding lines with flasks and their accessories	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99  12.11.2 12.11.2.1 12.11.2.99 12.11.3 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99 12.12  12.13 12.11.3.1	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds  Casting machines and equipment, accessories – other  EQUIPMENT AND AIDS FOR CASTING KNOCK-OUT FROM MOULDS  EQUIPMENT AND ACCESSORIES FOR FINISHING RAW CASTINGS Equipment and accessories for surface cleaning of castings Gating and feeding system separator equipment
12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2 12.6.3 12.6.4 12.7 12.7.1 12.7.2 12.7.3 12.7.3.1 12.8 EQUIPMENT OF I 12.9.1 12.9.1.1	Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment R MOULDING AND CORE MIXTURES  Grog  Binders Inorganic binders Organic binders Additives into sand and core mixtures Sand and core mixtures  EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES  Equipment for treatment of binding mixtures Equipment for treatment of non-binding mixtures  Equipment for sand mixtures reclamation Magnets, separators and metal detectors for foundry industry  Runner and gate technology  MOULDING SHOPS AND CORE SHOPS  Equipment of moulding shops Machines for bentonite mixture moulding in flasks	12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6 12.11.1.7 12.11.1.99 12.11.2 12.11.2.1 12.11.2.99 12.11.3 12.11.3.1 12.11.3.2 12.11.3.3 12.11.3.1 12.11.3.2 12.11.3.3	Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting Metal die casting machines Pressure die casting machines Centrifugal metal casting machiness and accessories  Automated casting equipment Casting machines and equipment – other  Permanent moulds Permanent moulds made of metal Permanent moulds made of ceramic materials Permanent moulds made of other materials Permanent moulds made of other materials  Auxiliary materials and accessories for casting machines and equipment Tools for casting machines and equipment Chemicals for casting and casting machines Malleablizing equipment for pressure die casting moulds  Casting machines and equipment, accessories – other  EQUIPMENT AND AIDS FOR CASTING KNOCK-OUT FROM MOULDS  EQUIPMENT AND ACCESSORIES FOR FINISHING RAW CASTINGS Equipment and accessories for surface cleaning of castings Gating and feeding system separator equipment and accessories

### 19<sup>™</sup> INTERNATIONAL FOUNDRY FAIR



12.14	EQUIPMENT AND MATERIALS FOR WELDING, CUTTING AND REPAIRS OF CASTINGS	12.24.4	Engineering and design services in area of the foundry industry
12.15	EQUIPMENT AND MATERIALS FOR TREATMENT AND MACHINING OF CASTINGS	12.24.5	Service and repairs of machines and equipment in the foundry industry
12.16	AIR CONDITIONING FOR FOUNDRIES	12.24.6	Refurbishment and modernization of machines and equipment
12.17	TRANSPORT AND STORAGE EQUIPMENT FOR THE FOUNDRY		in the foundry industry
	INDUSTRY	12.24.7	Overhauled machines and equipment for the foundry industry
12.18	ROBOTS, MANIPULATORS, HANDLING EQUIPMENT	12.24.8	Manufacturing of prototype and single-purpose equipment for
	AND THEIR ACCESSORIES FOR THE FOUNDRY INDUSTRY		the foundry industry
12.19	CONTROL AND REGULATION TECHNOLOGY FOR THE	12.24.9	Technology for the foundry industry
	FOUNDRY INDUSTRY	12.24.10	Execution of investment projects for the foundry industry
12.20	MEASURING AND TESTING TECHNOLOGY FOR THE FOUNDRY INDUSTRY	12.24.11	Professional literature, periodicals in area of the foundry industry
		12.24.12	Institutions and organizations in area of the foundry industry
12.21	COMPUTER EQUIPMENT, CONTROL, CALCULATIONS,	12.24.13	Vocation schools in area of the foundry industry
12.21.1	SIMULATION CAD, CAM, CIM FOR THE FOUNDRY INDUSTRY	12.24.14	Professional courses and education in area of the foundry
16.61.1	CAD, CAPI, CIPTION THE FOORDIN TROUGHN		industry
12.22	ENVIRONMENT PROTECTION AND WASTE DISPOSAL IN THE FOUNDRY INDUSTRY WASTE	12.24.99	Research, services, literature, institutions for foundry industry

#### CASTINGS

12.23.99

12.23.1	Cast iron castings
12.23.1.1	Grey cast iron castings
12.23.1.2	Nodular cast iron castings
12.23.1.3	Malleable cast iron castings
12.23.1.4	Compacted graphite cast iron castings
12.23.1.5	White cast iron castings
12.23.1.6	Hardened cast iron castings
12.23.1.7	Alloyed cast iron castings
12.23.2	Steel castings
12.23.2.1	Carbon steel castings
12.23.2.2	Alloy steel castings
12.23.3	Nonferrous metal and alloy castings
12.23.3.1	Aluminium alloy castings
12.23.3.2	Magnesium alloy castings
12.23.3.3	Copper alloy castings
12.23.3.4	Zinc alloy castings
12.23.3.99	Castings of other nonferrous metals and alloys
12.23.4	Castings for selected branches of industry
	and end consumption
12.23.4.1	Castings for the automotive industry
12.23.4.2	Castings for agricultural machines
12.23.4.3 12.23.4.4	Castings for general engineering Castings for the chemical and petrochemical industries
12.23.4.4	Castings for the chemical and performent industries  Castings for the food processing industry
12.23.4.6	Castings for building industry
12.23.4.7	Castings for power engineering
12.23.4.8	Castings for electrical engineering, aviation, medical equipment
12.23.4.9	Castings for domestic appliances, garden machinery, hobby
12.23.4.10	Art castings, statues, statuettes, decorative objects
12.23.4.99	Castings for selected branches of industry and end consumption – other

# RESEARCH, SERVICES, INSTITUTIONS, LITERATURE IN AREA OF THE FOUNDRY INDUSTRY

Castings – other

12.24.1	Research in area of the foundry industry
12.24.2	Offer of manufacturing capacities in area of the foundry industry
12.24.2.1	Manufacturing patterns to order
12.24.2.2	Manufacturing cores to order
12.24.2.3	Manufacturing moulds to order
12.24.2.4	Manufacturing castings to order
12.24.3	Consultancy in area of the foundry industry



13.8.1 13.8.2 13.8.3

13.8.4

#### **26<sup>TH</sup> INTERNATIONAL WELDING ENGINEERING FAIR**

13.1	FLAME WELDING, SURFACING AND OXYGEN CUTTING MACHINERY AND EQUIPMENT	13.9.1	OMPONENTS, MACHINERY AND EQUIPMENT – OTHER Exhaust and filtration equipment for welding areas
		13.9.2	Work protection aids (masks, goggles, working and protective
13.2	ARC-WELDING, SURFACING ANG CUTTING MACHINERY AND EQUIPMENT	13.9.3	garments, etc.) Tools, fixtures and elements of machinery and equipment
13.2.1	Hand-operated welding, surfacing and cutting machinery and equipment		for welding and related technologies (pneumatic, hydraulic elements, etc.)
13.2.2	Machinery and equipment for gas shielded electric arc welding and surfacing (MIG, MAG)	13.9.4	Machinery and equipment for treating welded structures (vibration treatment, thermal treatment, etc.)
13.2.3	Inert gas-shielded arc welding and surfacing machinery	13.9.5	Defectoscopic technology for destructive
	and equipment by using	1206	and non-destructive weld tests
13.2.4	nonconsumable electrode (WIG or TIG) Submerged-arc welding and surfacing	13.9.6 13.9.99	Driers of consumables in welding areas Other elements, machines and consumables for welding, others
13.2.4	machinery and equipment	13.9.99	other eternents, machines and consumables for wetting, others
13.2.99	Machinery and equipment for welding,	13.10	METAL BONDING MACHINES
1512.55	surfacing and arc cutting, others	15.10	1121/12 201121101 110121122
		13.11	WELDED STRUCTURES, SUB-SUPPLIES
13.3	THERMAL SPRAY MACHINERY AND EQUIPMENT		OF WELDED PARTS
-5.5		13.11.1	Weldments
13.3.99	Thermal spray machinery and equipment, others		
13.4	RESISTANCE-WELDING MACHINERY AND EQUIPMENT	RESEARCH, S	SERVICES AND INSTITUTIONS IN WELDING, CUTTING, SOLDERING
13.4.1	Machinery and equipment for spot welding	AND METAL	BONDING
13.4.2	Seam welding machinery and equipment	13.12.1	Research in welding, cutting, soldering
13.4.3	Machines and equipment for resistance projection welding		and metal bonding
13.4.4	Contact and flash welding machinery	13.12.2	Offers of manufacturing facilities in the areas of welding,
	and equipment		cutting, soldering and metal bonding
13.4.5	Fused-slag welding machinery and equipment	13.12.3	Consulting in welding, cutting, soldering
13.4.99	Resistance welding machinery and equipment, others	40.40.4	and metal bonding
		13.12.4	Engineering and design services in welding, cutting, soldering
13.5	MACHINERY AND EQUIPMENT FOR PRESSURE WELDING	12 12 5	and metal bonding
	(FRICTION, DIFFUSION, COLD, ULTRASOUND WELDING)	13.12.5	Welding, cutting, soldering and metal bonding machines
		13.12.6	and equipment service and repair Refurbished machines and equipment for welding, cutting,
	ND EQUIPMENT FOR OTHER METHODS	13.12.0	soldering and metal bonding
	CUTTING AND SOLDERING	13.12.7	Manufacture of prototype and single-purpose equipment
13.6.1	Equipment for aluminothermic welding	13.12.7	for welding, cutting, soldering and metal bonding
13.6.2	Plasma welding machinery and equipment	13.12.8	Technologies for welding, cutting, soldering and metal bonding
13.6.3	Laser-beam welding machinery and equipment	13.12.9	Execution of investment projects for welding, cutting,
13.6.4	Electron-beam welding machinery	1311213	soldering and metal bonding
1265	and equipment	13.12.10	Specialist literature, publications in the areas
13.6.5 13.6.6	Stud welding machinery and equipment Root-penetration welding machinery		of welding, cutting, soldering and metal bonding
13.0.0	and equipment	13.12.11	Institutions and organisations in the areas
13.6.7	Machinery and equipment for welding plastics		of welding, cutting, soldering and metal bonding
13.6.8	Soldering machinery and equipment	13.12.12	Vocational schools in the areas of welding, cutting, soldering
13.6.9	Machinery and equipment for special methods of cutting		and metal bonding
13.6.10	Machinery and equipment for plasma cutting	13.12.13	Specialist courses and training in the areas
13.6.99	Machinery and equipment for other methods of welding,		of welding, cutting, soldering and metal bonding
	surfacing, cutting and soldering, others	13.12.99	Research, services and institutions in welding, cutting,
ADDITIONAL A	AND AUXILIARY MATERIALS		soldering, and metal bonding – other
13.7.1	Welding and cutting electrodes		
13.7.2	Welding wires, tube electrodes, strips and rods		
13.7.3	Solders		
13.7.4	Fluxes for welding and soldering		
13.7.5	Gases for welding, cutting and soldering		
13.7.6	Agents for pickling and passivating alloyed corrosion-proof		
	steel welds		
13.7.7	Liquids, oils and sprays for welding and soldering		
13.7.99	Consumables and auxiliary materials, others		
13.8	ROBOTS, MANIPULATORS AND ACCESSORIES FOR WELDING		

Welding robots
Single-purpose welding, material separating and positioning manipulators

Control, measurement, management

and sensor systems, additional systems and subsystems Hardware and software for welding technologies

## 9<sup>™</sup> INTERNATIONAL SURFACE TECHNOLOGY FAIR



EQUIPMENT FOR CLEANING AND TREATMENT OF SURFACES		LACQUERING SYSTEMS, ENAMELLING SYSTEMS, PLASTIC COATING SYSTEMS			
14.1.1	Tumbling machines				
14.1.2	Blasting machines	14.3.1	Equipment for pneumatic spraying of coating materials		
14.1.2.1	High-pressure water jet blasting machines	14.3.2	Equipment for high-pressure spraying of coating materials		
4/43	Donah was skile as	4/22			
<b>14.1.3</b> 14.2.3.1	Brush machines Equipment for electrolytic oxidation of aluminium	14.3.3	Equipment for spraying of heated coating materials		
		14.3.4	Equipment for dip coating		
14.1.4	Degreasing and cleaning equipment	14.3.5	Equipment for glazing		
14.1.4.1	Degreasing and cleaning equipment using	14.3.6	Drum coating machines		
	organic solutions	14.3.7	Roller coating equipment		
14.1.4.2	Degreasing and cleaning equipment using aqueous solutions	14.3.8	Electrostatic wet coating equipment		
14.1.4.3	Vacuum degreasing plants	14.3.9	Powder coating equipment		
14.1.4.4	Rust-removing equipment	14.3.9.1	Spray guns for electrostatic powder coating		
14.1.4.5	Laser equipment for cleaning	14.3.9.2	Baking kilns for powder coating materials		
14.1.4.6	Ultrasound equipment for cleaning	1,101512	and their accessories		
14.1.4.7	Micro-organism based cleaning and degreasing equipment		and then accessories		
14.1.4.99	Degreasing and cleaning equipment, other	14.3.10	Equipment for electrophoretic coating		
14.1.5	Pickling plants	14.3.11	Booths for lacquering, drying and coat baking		
14.1.6	Passivating plants	14.3.11.1	Fire protection for lacquering boots		
14.1.7	Phosphatizing plants	14.3.11.2	IR radiation baking of coating materials		
14.1.8	Chromating plants	14.3.11.3	Induction baking of coating materials		
14.1.9	Varnish layer stripping and devarnishing plants	14.3.11.4	UV radiation curing of coating materials		
	Talling and an applied and action and plants	14.3.11.5	Electron-beam curing of coating materials		
14.1.10	Agents and consumables for surface cleaning and		• •		
	treatment equipment	14.3.12	Equipment for enamelling		
14.1.10.1	Abrasive media for tumblers and blasting	14.3.13	Equipment for surface coating with plastics and rubber		
	machines	14.3.14	Conveyors for lacquering equipment		
14.1.10.2	Cleaning and degreasing agents	14.3.15	Robots, manipulators and accessories		
14.1.10.3	Rust removers		for surface treatment		
14.1.10.4	Varnish removers	14.3.16	Compressors and pumps for lacquering		
14.1.10.5	Antirust agents		equipment		
14.1.10.6	Pickling agents				
14.1.10.7	Chromating and phosphatazing agents	14.3.17	Coating materials and putties		
14.1.10.99	Agents and consumables for surface cleaning	14.3.17.1	Synthetic coating materials		
	and treatment equipment, other	14.3.17.2	Oil coating materials		
		14.3.17.3	Bitumen coating materials		
14.1.99	Surface cleaning and treatment equipment, other	14.3.17.4	Acrylate coating materials		
	<b>3</b>	14.3.17.5	Acrylurethane coating materials		
		14.3.17.6	Epoxy resin coating materials		
FI FCTROPI AT	TING EQUIPMENT	14.3.17.7	Epoxy ester coating materials		
LLLCTROT LA	THO EQUI FIEM	14.3.17.8	Epoxy acrylate coating materials		
14.2.1	Electroplating equipment	14.3.17.8	Polyurethane coating materials		
14.2.2	Equipment for galvanic cleaning and polishing	14.3.17.10	Water-soluble paints		
	Equipment for electrolytic oxidation				
14.2.3	· · ·	14.3.17.11	Powder coating materials		
	and colouring	14.3.17.12	Thinners and solvents		
14.2.4	Equipment for electroforming	14.3.17.13	Putties for surface finishing		
14.2.5	Electric etching equipment	14.3.17.14	Masking materials for lacquering plants		
14.2.6	Electroplating systems for printed boards	14.3.17.99	Coating materials and putties, other		
14.2.7	Strip galvanizing equipment				
14.2.8	Galvanizing lines	14.3.18	Nano-varnishes		
14.2.9	Equipment for electroless (chemical) plating	14.3.19	Dyestuffs, pigments		
		14.3.20	Enamels		
14.2.10	Attachments and accessories for electroplating equipment	14.3.21	Foil for product surface finish		
14.2.10.1	Electric current sources for electroplating equipment		F		
14.2.10.2	Control and regulation devices for electroplating equipment	<b>EOUIPMENT F</b>	OR CHEMICAL AND HEAT METAL TREATMENT		
14.2.10.3	Containers for electroplating	-40			
14.2.10.4	Bath heaters for electrodeposition	14.4.1	Equipment for diffusion saturation		
14.2.10.5	Baskets for electroplated products	170701	of steel surface		
	·	1, , 1 1			
14.2.10.6	Centrifuge drums for electroplating equipment	14.4.1.1	Case hardening equipment		
14.2.10.7	Filtering equipment for electroplating equipment	14.4.1.2	Nitriding equipment		
14.2.10.8	Recycling equipment for electroplating	14.4.1.3	Nitrocarburizing equipment		
14.2.10.99	Accessories for electroplating equipment, other	14.4.1.4	Equipment for carbonitriding		
		14.4.1.5	Equipment for sulpho-nitriding		
14.2.11	Anodes for electroplating equipment	14.4.1.6	Equipment for boriding		
14.2.12	Chemicals for electroplating technology	14.4.1.7	Equipment for alitizing		
14.2.99	Electroplating equipment, other				



### **9<sup>TH</sup> INTERNATIONAL SURFACE TECHNOLOGY FAIR**

14.4.2	Furnaces for chemical and thermal treatment of surfaces and their accessories	COMPUTER, M FOR SURFACE	EASURING AND TESTING DEVICES TREATMENT
14.4.3	Solid, liquid and gaseous substances for chemical	TOR SORTACE	INCAPPLINI
17.7.3	and thermal treatment of surfaces	14.9.1	Computer management systems for surface treatment enterprises
14.4.99	Equipment for chemical and thermal treatment of surfaces, other	14.9.2	Software for support of quality assurance and management (CAQ)
		14.9.3	CAD, CAM and CIM for surface treatment
LASER AND P	LASMA COATING TECHNOLOGIES	14.9.4	Regulation and control equipment for surface treatment
14.5.1	Laser coating technologies		technologies
14.5.2	Physical Vapour Deposition (PVD) plants		
14.5.3	Chemical Vapour Deposition (CVD) plants	14.9.5	Measuring and testing devices for surface treatment
14.5.4	Plasma technologies for ion beam coating		applications
14.5.5	Vacuum components and accessories	14.9.5.1	Nano-technologies testing and measuring
	for laser and plasma coating technologies		instruments
14.5.99	Laser and plasma coating technologies, other		
		14.9.99	Computer, measuring and testing devices
14.6	EQUIPMENT FOR THERMAL SPRAYING		for surface treatment, other
14.6.1	Flame metal spraying equipment		ior our race a custilional, ourse
14.6.2	Arc metal spraying equipment	RESEARCH, SE	RVICES AND INSTITUTIONS IN SURFACE TREATMENT SECTOR
14.6.3	Plasma metal spraying equipment		
14.6.99	Plants for thermal spraying, other	14.10.1	Research in surface treatment technologies
SPECIAL SYST	TEMS FOR SURFACE TREATMENT	14.10.2	Offers of production facilities in surface treatment sector
		14.10.2.1	Custom cleaning and pre-treatment of surfaces
14.7.1	Thermal surface treatment systems	14.10.2.2	Custom electroplating
14.7.1.1	Annealing plants		
14.7.1.2	Hardening and tempering plants	14.10.2.3	Custom heat treatment of metals
14.7.1.3	Annealing, hardening and tempering furnaces and their accessories	14.10.2.3.1	Customized quenching and annealing
14.7.1.4	Hardening baths and materials	14.10.2.4	Custom chemical and heat treatment of metals
14.7.2	Browning and black-finishing plants	14.10.2.5	Custom technical coating applications
14.7.3	Equipment for metal spraying	14.10.2.5.1	Custom PVD and CVD coating of tools
14.7.4	Hot galvanization plants		3
14.7.5	Hot-dip tinning plants	14.10.2.6	Custom lacquering
14.7.6	Polishing, grinding and lapping equipment	14.10.2.7	Custom hexabasic chromium free corrosion protection
	and accessories	14.10.2.8	Custom metal spraying of surfaces
14.7.7	Non-thermal surface hardening systems	14.10.2.9	Customized hot galvanizing
14.7.8	Tampon printing, silkscreen printing	14.10.2.10	Customized thermal coating
140710	iampon princing, statected princing	14.10.2.11	Customized cladding
14.7.9	Industrial surface marking systems	1111012111	545357771254 544441119
14.7.9.1	Equipment for electro-chemical marking	14.10.2.12	Custom application of plastic coatings
14.7.9.2	Micro-impact marking machines	14.10.2.12.1	Custom fluoroplastic coating
14.7.9.3	Equipment for surface marking by film application	14.10.2.12.1	custom ruoroptastic coating
14.7.9.4	Self-adhesive materials	14.10.3	Consultancy in surface treatment technologies
14.7.9.4	Sett-duffestive materials	14.10.4	Surface treatment engineering and design services
14.7.9.5	Scribing and engraving machines	14.10.5	Service and repair of machines and equipment
14.7.3.3	and equipment	14.10.5	for surface treatment applications
1/7051	• •	14.10.6	Refurbished machines and equipment
14.7.9.5.1	Laser marking and scribing machines	14.10.0	• •
14.7.9.6	Marking printers	14.10.7	for surface treatment  Manufacture of prototype and single-purpose equipment
	5,	14.10./	
14.7.9.7	Labelling devices		for surface treatment
14.7.9.8	Embossing dies		
14.7.9.9	Embossing guns	14.10.8	Surface treatment technologies
14.7.9.10	Embossing presses	14.10.8.1	Surface treatment technology projects
14.7.9.99	Industrial equipment for surface marking, other	14.10.8.2	Technological supplies for the surface treatment industry
14.7.99	Special surface treatment systems, other	14.10.9 14.10.10	Execution of investment projects in surface treatment sector Financial services and leasing in surface
<b>ENVIRONMEN</b>	ITAL PROTECTION SYSTEMS		treatment sector
<b>FOR SURFACE</b>	TREATMENT TECHNOLOGIES	14.10.11	Technical literature and publications
14.8.1	Water treatment plants for surface technology		for surface treatment applications
14.8.2	Waste water treatment plants for surface	14.10.12	Institutions and organisations in surface treatment sector
	technologies	14.10.13	Vocational training schools specializing
14.8.3	Waste gas cleaning plants for surface		in surface treatment systems
	treatment technology	14.10.14	Specialist courses and education in surface treatment
14.8.4	Surface treatment waste disposal		systems
14.8.5	Consultancy in environmental protection		-3
	systems for surface treatment technologies	14.10.99	Research, services, institutions in surface treatment
14.8.99	Environmental protection systems for surface treatment technologies, other		sector, other

### **8<sup>TH</sup> INTERNATIONAL PLASTICS, RUBBER AND COMPOSITES FAIR**



#### **POLYMERS - RAW MATERIALS AND AUXILIARIES**

POLYMERS - R	AW MATERIALS AND AUXILIARIES		
		15.1.2	Thermoplastic elastomers (TPE)
15.1.1	Thermoplastics	45.4.0	The same of the sa
		15.1.3	Thermosetting plastics
15.1.1.1	Polyolefins	15.1.3.1	Phenol moulding compounds (PF)
45 4 4 4 4	D         (DE)	15.1.3.2	Aminoplastic moulding compounds
15.1.1.1.1	Polyethylenes (PE)	15.1.3.3	Polyester resins unsaturated (UP)
15.1.1.1.1.1	Ultra low density polyethylenes (ULDPE)	15.1.3.4	Epoxy resins (EP)
15.1.1.1.1.2	Low density polyethylenes (LDPE)	15.1.3.5	Highly heat-resistant thermosetting plastics
15.1.1.1.3	Linear low density polyethylenes (LLDPE)	15.1.3.99	Thermosetting plastics – other
15.1.1.1.4	Medium-density polyethylenes (MDPE)		D. I
15.1.1.1.5	High-density polyethylenes (HDPE)	15.1.4	Polyurethanes (PUR)
15.1.1.1.6	High molecular weight high-density polyethylenes	15.1.4.1	Unextended polyurethanes
45 4 4 4 4 7	(HMW-HDPE)	15.1.4.2	PUR flexible foam systems
15.1.1.1.7	Ultra-high molecular weight high-density polyethylenes	15.1.4.3	PUR rigid foam systems
45 4 4 4 4 0	(UHMW-HDPE)	15.1.4.4	PUR integral foam systems
15.1.1.1.1.8	Modified PE, copolymers, degradable types	15.1.4.5	Polyurethane elastomers
15.1.1.1.1.99	Polyethylenes, other	15.1.4.99	Polyurethanes (PUR) – other
15 1 1 1 2	Dolumenulanas (DD)	15.1.5	Rubbers and vulcanized rubbers
15.1.1.1.2	Polypropylenes (PP) Polybutene (PB) and polyisobutylene (PIB)	15.1.5	Rubbers and vulcamized rubbers
15.1.1.1.3	Polyolefins – other	15 1 6	Daluman makaniala fan manufastura af aastinu makaniala
15.1.1.1.99	Polyolenns – otner	15.1.6	Polymer materials for manufacture of coating materials
15.1.1.2	Polyetyrone plastics	15.1.6.1 15.1.6.2	Polymers for manufacture of transparent lacquers
	Polustyrene plastics Polystyrene (PS)	15.1.0.2	Polymers for manufacture of pigmented paints and enamels
15.1.1.2.1		15 1 7	Daluman materials for manufacture of adhesius
15.1.1.2.2	Expandable polystyrene (EPS)	15.1.7	Polymer materials for manufacture of adhesives
15.1.1.2.3	Rigid polystyrene (S/B, HIPS)	15 1 0	Delumers and fillers for manufacture of coments
15.1.1.2.4	Styrene-acrylonitrile copolymers (SAN)	15.1.8	Polymers and fillers for manufacture of cements
15.1.1.2.5	Acrylonitrile-butadiene-styrene (ABS) Styrene copolymers, multipolymers and blends – other	15.1.8.1	Polymers for manufacture of thermoplastic cements
15.1.1.2.99	Styrene copolymers, multipolymers and blends – other	15.1.9	Additives and fillers for processing of plastics and rubber
15 1 1 2	Vinul chlorido plactico	15.1.9	Additives and fillers for processing of plastics and rubber blends
15.1.1.3	Vinyl chloride plastics		blenus
15.1.1.4	Fluoroplastics	15.1.9.1	Additives and fillers for processing of plastics
15.1.1.4	Polytetrafluorethylene (PTFE)	15.1.9.1.1	Dyestuffs, pigments for plastics
15.1.1.4.1	Fluoroplastics, other	15.1.9.1.2	Dyestuffs and additives for plastics in the form
15.1.1.4.99	rtuoroptastics, other	15.1.9.1.2	of concentrates (masterbatches)
15.1.1.5	Acrylates	15.1.9.1.3	Fillers
	•		Plasticizers
15.1.1.5.1	Polymethylmetacrylate (PMMA) Copolymers and acrylate blends	15.1.9.1.4	
15.1.1.5.2	copolymers and acrytate blends	15.1.9.1.5 15.1.9.1.6	Stabilizers (thermo-oxidation, etc.) Antistatic agents
15.1.1.6	Polyoxymethylene (POM)		
15.1.1.0	rotyoxymethytene (rom)	15.1.9.1.7	Flame retarding agents
15 1 1 7	Polyamidas (PA)	15.1.9.1.8	Crosslinking agents
15.1.1.7 15.1.1.7.1	Polyamides (PA) Polyamides PA 6	15.1.9.1.9	Nucleating agents
	Polyamides PA 66	15.1.9.1.10	Agents facilitating preparation of polymer blends (compatibilizators)
15.1.1.7.2	· ·	15 1 0 1 11	· '
15.1.1.7.3	Polyamides PA 11 Polyamides PA 12	15.1.9.1.11	3 3
15.1.1.7.4	3	15.1.9.1.12	Dispersing agents Not genuine solvents
15.1.1.7.5	Polyamides PA 46, 610, 612	15.1.9.1.13	5
15.1.1.7.6	Polyamides – other types Aromatic polyamides (polyarylamides)	15.1.9.1.14	Lubricants, waxes for processing of plastics
15.1.1.7.7		15.1.9.1.15	Separating agents
15.1.1.7.8	Copolymers and polyamide alloys	15.1.9.1.99	Additives and fillers for processing of plastics – other
15 1 1 0	Polyarylactors	15 1 0 2	Additives and fillers for proceeding of with an blanda
15.1.1.8	Polyarylesters	15.1.9.2	Additives and fillers for processing of rubber blends
15.1.1.8.1	Polycarbonates (PC) Conclumers and polyarylester blands	15 1 10	Rionalymers
15.1.1.8.2	Copolymers and polyarylester blends	15.1.10	Biopolymers
15.1.1.8.3	Polyethylen terephthalate (PETP, PET)	15.1.11	Synthetic polymer-based ion exchange resins
15.1.1.8.4	Polybutylene terephthalate (PBTP)	15 1 00	Dalumana wassumatantala and additional ather
15.1.1.8.5	Polyarylates (PAR, PEC)	15.1.99	Polymers – raw materials and additives – other
45 4 4 0	Dalum IS day		
15.1.1.9	Polysulfides	MACHINECA	NO COLUMN TO DESCRIPTION OF DIACTICS AND DURDEDS
15.1.1.9.1	Polyphenylene sulfide (PPS)	MACHINES AI	ND EQUIPMENT FOR PROCESSING OF PLASTICS AND RUBBERS
15 1 1 10	Deluculfance	15 2 4	Machines for treatment of national metalli-
15.1.1.10	Polysulfones The grant and string and string (PT)	15.2.1	Machines for treatment of polymer materials
15.1.1.11	Thermoplastic polyimides (PI)	15.2.1.1	Mixing and kneading machines
15.1.1.12	Liquid crystal polymers (LCP)	15.2.1.2	Crushing machines
15.1.1.13	Polyphenylene oxides (POP, PPE) and their blends	15.2.1.3	Filtration systems
15.1.1.14	Polyetheretherketone (PEEK)	15.2.1.4	Machines for manufacture of plastics and rubbers mixtures
15.1.1.15	Cellulose derivatives	15.2.1.99	Machines for treatment of polymer materials – other
15.1.1.16	Highly heat-resistant thermoplastics		
15 1 1 00	Thermonlastics other		
15.1.1.99	Thermoplastics, other		



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15.2.2	Calenders – rolling machines	15.2.14.10	Digital scales
15.2.2.1	Machines and lines for production of plastic sheets	15.2.14.11 15.2.14.12	Equipment for separation of gate and culls from castings Robots and handling devices for plastics
	and floorings	15.2.14.12	and rubber processing machines
15.2.3	Extruders – extruding machines for plastic and rubber	15.2.14.13	Systems for automatic mould changing
13.2.3	blends	15.2.14.14	Belt conveyors for mouldings
	blenus	15.2.14.14	Ancillary machines and equipment for plastics and rubber
15.2.3.1	Extruders for plastic materials	13.2.14.33	industries – other
15.2.3.1.1	Machines and lines for production of boards, sheets, pipes		maustres – other
15.2.5.1.1	and sections of thermoplastics	15.2.15	Dying units for plastic materials
	and sections of thermoptastics	15.2.16	Equipment for intake and treatment of air
15.2.3.2	Extruders for rubber industry	1512110	and other gases for technological purposes
15.2.3.2.1	Extruding equipment for rubber	15.2.17	Deflashing machines for plastic and rubber components
	3 . July 1	15.2.18	Plastics thermoforming machines
15.2.4	Moulding machines for thermosetting plastics		<b>,</b>
	and rubber	15.2.19	Machines and fixtures for welding of plastics
15.2.4.1	Injection moulding machines for thermosetting plastics	15.2.19.1	Machines for welding plastic sheets
	and rubber blends		
15.2.4.2	Multibank presses for manufacture of laminated materials	15.2.20	Machines for chip working of plastics
		15.2.21	Machines and equipment for finishing operations
15.2.5	Injection moulding machines	15.2.22	Machines, equipment and materials for finishing,
15.2.5.1	Hydraulic injection moulding machines		decorating, printing and marking plastic and rubbers
15.2.5.2	Hybrid (electrical and hydraulic) injection moulding		products
	machines	15.2.23	Equipment and technologies for Rapid Prototyping, Rapid
15.2.5.3	Electrical injection moulding machines		Tooling and Room Temperature Vulcanization
15.2.5.4	Multi-colour and multi-component injection moulding	15.2.24	Process control equipment of machines
	machines		for plastics and rubber industries
15.2.5.5	Injection moulding machines for thermosetting plastics		
15.2.5.6	Injection moulding machines for technical rubber	15.2.25	Parts and components of machines for plastics and rubber
	articles		industries
15.2.5.7	Injection moulding machines with pressurized	15.2.25.1	Screws
	inert gas	15.2.25.2	Hydraulic and pneumatic rollers
15.2.5.8	Power injection ioulding (PIM) machines	15.2.25.3	Rollers for calenders
15.2.5.99	Injection moulding machines – other	15.2.25.4	Pumps for plastics and rubber processing machines
45.0.6		15.2.25.5	Nozzles
15.2.6	Machinery for manufacture of foamed materials	15.2.25.6	Heating elements
45.07	and processing of reactive resins	15.2.25.7	Machine blades
15.2.7	Curing presses	15.2.25.8	Clutches
15.2.8 15.2.9	Machines for manufacture of tyres Machines for manufacture of rubber hoses	15.2.25.9	Electric motors and drives
15.2.9	machines for manufacture of rubber noses	15.2.25.99	Parts and components of machines for plastics and rubber industries, other
15.2.10	Blow moulding machines for manufacture		illuusti les, otilei
13.2.10	of hollow articles	15.2.26	Equipment for neutralization and use of static electricity in
15.2.10.1	Extruding blow moulding machines	13.2.20	manufacture
15.2.10.1	Injection blow moulding machines		manuracture
13.2.10.2	injection blow moduling macrimes	15.2.99	Machines and equipment for processing
15.2.11	Casting machines and equipment for liquid polymer	13.2.99	of plastics and rubber, other
13.2.11	processing		or plastics and rubber, other
	processing	COMPOSITE N	MATERIALS
15.2.12	Equipment for plastic or rubber coating	COMITOSITE	in Edines
	-qp	15.3.1	Composite reinforcements
15.2.13	Moulds, tools and jigs	_3 <b></b>	p
15.2.13.1	Injection moulds	15.3.1.1	Reinforcing fibres
15.2.13.2	Blow moulds		J
15.2.13.3	Compression moulds	15.3.1.1.1	Glass fibres
15.2.13.4	Moulds, tools and jigs for extruders	15.3.1.1.1.1	
15.2.13.5	Standardized parts for moulds, tools and jigs	15.3.1.1.1.2	
15.2.13.6	Heated injection systems	15.3.1.1.1.3	
15.2.13.7	Hot air-channel systems		ž
15.2.13.99	Moulds, tools and jigs, other	15.3.1.1.99	Reinforcing fibres, other
15.2.14	Ancillary machines and equipment for plastics	15.3.1.99	Composite reinforcements, other
	and rubber industries		
15.2.14.1	Silos and their accessories	15.3.2	Materials for polymer matrices
15.2.14.2	Granulate driers	15.3.3	Machines and equipment for manufacture
15.2.14.3	Conveyors		of prepregs
15.2.14.4	Metal separators		
15.2.14.5	Granulate suction equipment	15.3.4	Technologies, machines and equipment for manufacture of
15.2.14.6	Dosing equipment		thermosetting matrix fibre composites
15.2.14.7	Heating technology	15.3.4.1	Hot pressing technologies (BMC or DMC)
15.2.14.8	Cooling technology	15.3.4.2	Manual wet coating
15.2.14.9	Flow meters	15.3.4.3	Winding technologies (rovings, fabric strips)

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15.3.4.4	Resin Transfer Moulding (RTM) technologies	15.4.2.25	Linings and panelling of plants, equipment for transport
15.3.4.5	Vacuum Assisted RTM (VARTM) technologies		and storage of bulk and abrasive materials
15.3.4.6	Seeman Composite Resin Infusion Moulding Process (SCRIMP)	15.4.2.26	Masts
	technologies	15.4.2.27	Sound protecting, thermal and waterproofing parts, panels
15.3.4.7	Pultrusion technologies		and fillings
15.3.4.8	Sheet Moulding Composed (SMC) technologies	15.4.2.28	Facade lining and decorative panels, roofing
15.3.4.99	Technologies, machines and equipment for manufacture of	15.4.2.29	Electric insulation boards and components
13.3.1.33	thermosetting matrix fibre composites, other	15.4.2.30	Oversize and small boxes, covers and lids
	thermosetting matrix ribre composites, other	15.4.2.31	Fillets, furniture strips and components
15.3.5	Technologies, machines and equipment for manufacture of	15.4.2.32	Sacks, bags
15.5.5	thermosetting matrix fibre composites		
45.2.6		15.4.2.33	Cups, mugs, plates, trays and kitchen utensils
15.3.6	Technology of particle composites with polymer matrix	15.4.2.34	Floor coverings, industrial carpets
15.3.7	Technology of composites with metal matrix	15.4.2.35	Synthetical leather, plastic coated paper or textile products
15.3.8	Technology of composites with ceramic matrix	15.4.2.36	Protective and safety aids
15.3.9	Nanocomposites		
		15.4.2.99	Plastic products, other
15.3.10	Semi-finished composite products		
15.3.10.1	Composite structural sections, rods, pipes, boards	15.4.3	Plastic constructional units
15.3.10.2	Composite panels with sandwich core	15.4.3.1	Injection moulded plastic constructional units
		15.4.3.2	Pressed plastic constructional units
15.3.11	Composite products	15.4.3.3	Blown plastic constructional units
15.3.11.1	Glass-fibre reinforced plastic products	15.4.3.4	Structural parts of thermoformed plastics
		15.4.3.5	Expanded plastic structural parts
15.3.99	Composites, other	15.4.3.6	Structural parts of polycarbonates
		15.4.3.7	Polyamide structural parts
		15.4.3.8	Polyoxymethylene structural parts
SEMI-FINISH	ED AND FINISHED PLASTIC PRODUCTS	15.4.3.9	Structural parts with inserts
		15.4.3.10	Reinforced structural parts
15.4.1	Semi-finished plastic products	15.4.3.11	Plastic machined structural parts
15.4.1.1	Films, sheets, strips, bands	15.4.3.12	Sliding and wear-resistant structural parts
15.4.1.2	Blocks, boards	15.4.3.99	Plastic constructional units, other
15.4.1.3	Sections	13.4.3.33	rtustic constructional ames, other
15.4.1.4	Rods		
15.4.1.5	Fibres, lines, strings	15.4.4	Plastic parts and products for selected industries and end
15.4.1.6	Pipes, hoses	13.4.4	users
15.4.1.7	Semi-finished plastic castings		users
	Semi-inishen hiashic cashings		
		15 / / 1	Distinguish and another for market in leading
15.4.1.99	Semi-finished plastic products, other	15.4.4.1	Plastic parts and products for mechanical engineering
15.4.1.99	Semi-finished plastic products, other	15.4.4.1 15.4.4.2	Plastic parts and products for mechanical engineering Plastic parts and products for transport
15.4.1.99 <b>15.4.2</b>	Semi-finished plastic products, other  Plastic products	15.4.4.2	Plastic parts and products for transport
15.4.1.99 <b>15.4.2</b> 15.4.2.1	Semi-finished plastic products, other  Plastic products Bearings and parts thereof	15.4.4.2 15.4.4.3	Plastic parts and products for transport  Plastic parts and products for the automotive industry
15.4.1.99 15.4.2 15.4.2.1 15.4.2.2	Semi-finished plastic products, other  Plastic products  Bearings and parts thereof  Gears	15.4.4.2 15.4.4.3 15.4.4.3.1	Plastic parts and products for transport  Plastic parts and products for the automotive industry  Motor vehicle components for interior fittings
15.4.1.99 15.4.2 15.4.2.1 15.4.2.2 15.4.2.3	Semi-finished plastic products, other  Plastic products  Bearings and parts thereof  Gears  Shaft couplings	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2	Plastic parts and products for transport  Plastic parts and products for the automotive industry  Motor vehicle components for interior fittings  Motor vehicle components for exterior fittings
15.4.1.99 15.4.2 15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4	Plastic products  Bearings and parts thereof  Gears  Shaft couplings  Springs and flexible elements	15.4.4.2 15.4.4.3 15.4.4.3.1	Plastic parts and products for transport  Plastic parts and products for the automotive industry  Motor vehicle components for interior fittings
15.4.1.99 15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5	Plastic products  Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3	Plastic parts and products for transport  Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets
15.4.1.99 15.4.2 15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3	Plastic parts and products for transport  Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering
15.4.1.99 15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry
15.4.1.99 15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection
15.4.1.99 15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3 15.4.4.4 15.4.4.5	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3 15.4.4.4 15.4.4.5 15.4.4.6	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for agriculture
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for agriculture Plastic parts and products for the food industry
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for agriculture Plastic parts and products for the food industry Plastic parts and products for the printing and packaging
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts	15.4.4.2 15.4.4.3 15.4.4.3.2 15.4.4.3.3 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for agriculture Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14 15.4.2.15	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.3.3 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for electronics
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for agriculture Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14 15.4.2.15 15.4.2.16	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps Castor wheels, rollers, pulleys, sheaves	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery Plastic parts and products for health services
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14 15.4.2.15 15.4.2.16	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps Castor wheels, rollers, pulleys, sheaves  Assembling elements	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery Plastic parts and products for health services Plastic parts and products for the textile and clothing
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14 15.4.2.15 15.4.2.16	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps Castor wheels, rollers, pulleys, sheaves  Assembling elements Joining elements – screws, nuts, rivets, pins	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12 15.4.4.13	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for the food industry Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery Plastic parts and products for health services Plastic parts and products for the textile and clothing industries
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14 15.4.2.15 15.4.2.16	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps Castor wheels, rollers, pulleys, sheaves  Assembling elements Joining elements – screws, nuts, rivets, pins Leveling elements – distance columnes, articulated supporting	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12 15.4.4.12 15.4.4.13 15.4.4.14	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for agriculture Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery Plastic parts and products for health services Plastic parts and products for the textile and clothing industries Plastic parts and products for the textile and clothing industries
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14 15.4.2.15 15.4.2.16	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps Castor wheels, rollers, pulleys, sheaves  Assembling elements Joining elements – screws, nuts, rivets, pins Leveling elements – distance columnes, articulated supporting feet, leveling screws	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12 15.4.4.12 15.4.4.13 15.4.4.14 15.4.4.15 15.4.4.16	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for agriculture Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery Plastic parts and products for health services Plastic parts and products for the textile and clothing industries Plastic parts and products for the textile and clothing industries Plastic parts and products for the furniture-making industry Plastic parts and products for the furniture-making industry Plastic parts and products for home appliances, households
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14 15.4.2.15 15.4.2.16  15.4.2.17 15.4.2.17 15.4.2.17 15.4.2.17.1	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps Castor wheels, rollers, pulleys, sheaves  Assembling elements Joining elements – screws, nuts, rivets, pins Leveling elements – distance columnes, articulated supporting feet, leveling screws Protective elements – caps, plugs, blinds, sleeves, closures	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12 15.4.4.12 15.4.4.15 15.4.4.16 15.4.4.16 15.4.4.17	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for agriculture Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery Plastic parts and products for health services Plastic parts and products for the textile and clothing industries Plastic parts and products for the furniture-making industry Plastic parts and products for the furniture-making industry Plastic parts and products for home appliances, households Plastic parts and products for school and office supplies
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14 15.4.2.15 15.4.2.16	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps Castor wheels, rollers, pulleys, sheaves  Assembling elements Joining elements – screws, nuts, rivets, pins Leveling elements – distance columnes, articulated supporting feet, leveling screws Protective elements – caps, plugs, blinds, sleeves, closures Fastening elements – wall clips, clamps, wall holder sleeves,	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12 15.4.4.12 15.4.4.15 15.4.4.15 15.4.4.16 15.4.4.17 15.4.4.18	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery Plastic parts and products for health services Plastic parts and products for the textile and clothing industries Plastic parts and products for the furniture-making industry Plastic parts and products for the furniture-making industry Plastic parts and products for home appliances, households Plastic parts and products for school and office supplies Plastic parts and products for garden, garden appliances
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14 15.4.2.15 15.4.2.16  15.4.2.17 15.4.2.17 15.4.2.17 15.4.2.17.1	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps Castor wheels, rollers, pulleys, sheaves  Assembling elements Joining elements – screws, nuts, rivets, pins Leveling elements – distance columnes, articulated supporting feet, leveling screws Protective elements – caps, plugs, blinds, sleeves, closures	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12 15.4.4.12 15.4.4.15 15.4.4.16 15.4.4.16 15.4.4.17	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery Plastic parts and products for the textile and clothing industries Plastic parts and products for the textile and clothing industries Plastic parts and products for the furniture-making industry Plastic parts and products for home appliances, households Plastic parts and products for school and office supplies Plastic parts and products for garden, garden appliances Plastic parts and products for garden, sports, leisure
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.15 15.4.2.14 15.4.2.15 15.4.2.17 15.4.2.17 15.4.2.17.1 15.4.2.17.1	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps Castor wheels, rollers, pulleys, sheaves  Assembling elements Joining elements – screws, nuts, rivets, pins Leveling elements – distance columnes, articulated supporting feet, leveling screws Protective elements – caps, plugs, blinds, sleeves, closures Fastening elements – wall clips, clamps, wall holder sleeves, fixing strips, assembly strappings, dowels, hinges	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12 15.4.4.12 15.4.4.13 15.4.4.14 15.4.4.15 15.4.4.16 15.4.4.17 15.4.4.18 15.4.4.19	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for the environment protection Plastic parts and products for agriculture Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery Plastic parts and products for the textile and clothing industries Plastic parts and products for the furniture-making industry Plastic parts and products for the furniture-making industry Plastic parts and products for school and office supplies Plastic parts and products for garden, garden appliances Plastic parts and products for garden, garden appliances Plastic parts and products for games, hobbies, sports, leisure time
15.4.1.99  15.4.2.1 15.4.2.2 15.4.2.3 15.4.2.4 15.4.2.5 15.4.2.6 15.4.2.7 15.4.2.8 15.4.2.9 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 15.4.2.14 15.4.2.15 15.4.2.16  15.4.2.17 15.4.2.17 15.4.2.17 15.4.2.17.1	Plastic products Bearings and parts thereof Gears Shaft couplings Springs and flexible elements Sealings, bellows Conveyer belts Conveyer chains, chains tensioners Conveyer and driving belts Conveyer rollers, conveyer worms Energy chains Pipes Tubes, drainage parts Hoses Fittings, quick couplers Pumps Castor wheels, rollers, pulleys, sheaves  Assembling elements Joining elements – screws, nuts, rivets, pins Leveling elements – distance columnes, articulated supporting feet, leveling screws Protective elements – caps, plugs, blinds, sleeves, closures Fastening elements – wall clips, clamps, wall holder sleeves, fixing strips, assembly strappings, dowels, hinges  Operating elements – handles, hand rails, balls, wheels, levers,	15.4.4.2 15.4.4.3 15.4.4.3.1 15.4.4.3.2 15.4.4.4 15.4.4.5 15.4.4.6 15.4.4.7 15.4.4.8 15.4.4.9 15.4.4.10 15.4.4.11 15.4.4.12 15.4.4.12 15.4.4.15 15.4.4.15 15.4.4.16 15.4.4.17 15.4.4.18	Plastic parts and products for the automotive industry Motor vehicle components for interior fittings Motor vehicle components for exterior fittings Plastic parts for vehicle driving sets  Plastic parts and products for power engineering Plastic parts and products for the building industry Plastic parts and products for agriculture Plastic parts and products for the food industry Plastic parts and products for the printing and packaging industries Plastic parts and products for electrical engineering Plastic parts and products for electronics Plastic parts and products for information and communication technologies and office machinery Plastic parts and products for the textile and clothing industries Plastic parts and products for the textile and clothing industries Plastic parts and products for the furniture-making industry Plastic parts and products for home appliances, households Plastic parts and products for school and office supplies Plastic parts and products for garden, garden appliances Plastic parts and products for garden, sports, leisure
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45 / 5	Comi Colinhad and Colinhad and doubt and a facility and	COMPLITED	TECTING AND MEACURING TECHNIQUES FOR DIACTICS
15.4.5	Semi-finished and finished products made of polyurethane elastomers	COMPUTER, AND RUBBEI	TESTING AND MEASURING TECHNOLOGIES FOR PLASTICS
15.4.5.1	Boards, blocks	AND RODDE	
15.4.5.2	Sections	15.7.1	Control systems for plastics and rubber enterprises
15.4.5.3	Bellows, sleeves, covers, rings		·
15.4.5.4	Dilatation compensators	15.7.2	Statistical Process Control (SPC) systems for long-term
15.4.5.5	PU elastomers including metal inserts		monitoring of production processes and quality
15.4.5.6	Shaft seal rings		
15.4.5.7	Seals	15.7.3	CAD, CAM and CIM for plastics and rubber plants
15.4.5.8 15.4.5.9	Vibration dampers Silentblocks	15.7.3.1	CAD systems for injection processes analysis and optimization
15.4.5.10	Shaped products	15.7.3.2	Regulation system for melt flow in the mould
15.4.5.11	Casts	13171312	Regulation system for moterion in the modela
15.4.5.12	Glass fiber reinforced polyurethane	15.7.4	Development software for designers
15.4.5.13	Wheels	15.7.5	Pick-up sensors of dimensions, pressure, temperature and
15.4.5.14	Solid tyre wheels		forces in plastics and rubber processing machines
15.4.5.15	Polyurethane coated rollers	45.76	
15.4.5.99	Semi-finished and finished products made of polyurethane	15.7.6	Measuring equipment for length, thickness and surface
	elastomers other	15.7.6.1	geometry of plastic components Systems for 2D and 3D scanning of complex shapes
SEMT-FINISHE	ED AND FINISHED RUBBER-BASED PRODUCTS	13.7.0.1	Systems for 20 and 30 scanning of complex shapes
02.11.11.10.11.	S AND LINESHED RODDER DADED I RODDERS	15.7.7	Rheometers, plastometers, viscosimeters
15.5.1	Rubber boards, blocks	15.7.8	Temperature measuring instruments for manufacture
15.5.2	Rubber sections		and processing of plastics and rubbers
15.5.3	Rubber fibres, ropes	15.7.9	Thermomechanical analysers
15.5.4	Rubber hoses	15.7.10	Measuring instruments of optical properties of plastics and
15.5.5	Rubber flooring	45 7 44	rubbers
15.5.6 15.5.7	Rubber V-belts, indented belts Rubber conveyor belts	15.7.11 15.7.12	Multiparameter measuring stations Material thermostability testers
15.5.7	Rubber bellows, sleeves, covers, rings	15.7.12	Testers of mechanical and dynamic ruggedness of materials
15.5.9	Rubber dilatation compensators	15.7.15	resters of mechanical and dynamic ruggedness of materials
15.5.10	Rubber-metal	15.7.99	Computer, testing and measuring technologies for plastics
15.5.11	Shaft seal rings		and rubbers, other
15.5.12	Rubber seals		
15.5.13	Rubber vibration dampers	•	SERVICES AND INSTITUTIONS
15.5.14	Silentblocks	IN PLASTICS	S AND RUBBERS
15.5.15 15.5.16	Shaped rubber products Rubber textile products	15.8.1	Deceased in plactice and withhous
15.5.17	Rubber wheels	15.0.1	Research in plastics and rubbers
15.5.18	Cellular rubber products	15.8.2	Custom plastic and rubber components manufacture
15.5.19	Tyres and tubes	15.8.2.1	Custom plastic components manufacture
15.5.20	Rubber containers and bags	15.8.2.2	Custom rubber components manufacture
15.5.21	Rubber-coated cylinders	15.8.2.3	Custom adjustments and assembly of components
15.5.22	Articles produced by dipping		
15.5.23	Ebonite products	15.8.3	Consultancy in plastics and rubber manufacturing
15.5.98	Rubber components for automotive applications of all kinds	15.8.4	Engineering and design services for plastics and rubber manufacturing
15.5.99	Rubber semi-finished and finished products, other		and rubber manufacturing
13.3.33	Nasser sein Timsnea and Timsnea products, other	15.8.5	Service and repairs of machines for plastics
MACHINES AN	D EQUIPMENT FOR RECYCLING AND USE OF PLASTIC		and rubber industries
AND RUBBER \	NASTE MATERILAS	15.8.5.1	Spare parts for machines for plastics and rubber industries
		15.8.5.2	Renovation of moulds, screws, chambers
15.6.1	Mills and crushers for plastic waste	15 0 5 0	and cylinders
15.6.1.1	Cryogenic mills and crushers for plastic and rubber waste	15.8.5.3	Turnkey systems of general overhauls of machines for plastics and rubber industries
15.6.1.2	Tyre crushers	15.8.5.4	Reconstruction and modernisation of machines
15.6.2	Machines, equipment and technologies	13.0.3.4	for plastics and rubber industries
	for separation of contaminating materials		
	from plastic and rubber waste	15.8.6	Refurbished machines for plastics and rubber industries
15.6.3	Technologies, machines and equipment	15.8.7	Manufacture of prototype and single-purpose equipment
	for chemical and thermal recycling of waste polymer		for plastics and rubber industries
45.6.4	materials	45.00	
15.6.4	Solid waste processing lines	15.8.8	Technologies for plastics and rubber industries
15.6.5	(plastics, cables, tyres) Plastic re-granulates and waste	15.8.8.1 15.8.8.2	Technology projects for plastics and rubber industries Technology supplies to plastics and rubber industries
13.0.3	(HDPE, LDPE, PP, PS, PVC, PUR)	13.0.0.2	recimology supplies to plastics and rubber industries
15.6.6	Recycled elastomer materials	15.8.9	Executiom of investment projects in plastics and rubber
15.6.7	Consultancy in recycling and use of plastic and rubber waste		industries
	materials	15.8.10	Financial services, leasing for plastics
			and rubber industries
15.6.99	Machines and equipment for recycling and use of plastic and	15.8.11	Technical literature and publications
	rubber waste materials – other		for plastics and rubber industries

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15.8.12	Institutions and organisations in plastics and rubber industries
15.8.13	Vocational training schools for plastics and rubber industries
15.8.14	Vocational training courses and educatior for plastics and rubber industries
15.8.99	Research, services, institutions in plastice



### **CHEMICALS FOR ENGINEERING**

Equipment	for the chemical industry	16.2.99	Machines for other chemical branches
16.1.1	Tanks, vessels, pressure vessels for the chemical industry	Lubricants, o	pils
16.1.2	Columns	16.3.1	Lubricating greases for industry
		16.3.2	Lubricating oils for industry
16.1.3	Filters for chemical production	16.3.3	Oils for industrial transmissions
16.1.3.1	Filters for liquid materials	16.3.4	Hydraulic oils
16.1.3.2	Filters for gaseous materials	16.3.5	Oils for rolling
16.1.3.3	Filters with automatic cleaning of filter partition	16.3.6	Oils, emulsions, pastes for corrosion protection
16.1.3.4	Equipment for diaphragm technology, ultrafiltration	16.3.7	Cooling lubricants and liquids
	and nanofiltration	16.3.8	Working emulsions and cutting oils
		16.3.9	Additives for lubricants
16.1.4	Filtration systems for the chemical industry	16.3.10	Environmental lubricants
16.1.4.1	Filtration systems for plastic and rubber melts	16.3.11	Oils for the food industry
16.1.4.2	Filtration systems for the production of synthetic fibres	16.3.99	Lubricants and oils – other
16.1.4.3	Filtration systems for plastic melt recycling		
		16.4	Mineral oil regeneration equipment
16.1.5	Mixing and kneading machines	16.5	Corrosion and wear protection pastes
16.1.6	Crushers	16.6	Sprays for metal surface finishing
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16.1.7	Mills for the chemical industry	16.7	Coating compositions
16.1.7.1	Colloid mills	16.7.1	Synthetic coating compositions
16.1.7.2	Pulverizers	16.7.2	Water soluble coating compositions
16.1.7.3	Screens for the chemical industry	16.7.3	Powder paints
16.1.8	Separators	16.8	Colours, pigments
16.1.9	Air separators and screening machines	16.9	Enamels
16.1.10	Dedusting equipment	16.10	Cements
16.1.11	Centrifuges	16.11	Adhesives
		16.12	Adhesive tapes and films
16.1.12	Evaporators, evaporating equipment		
16.1.12.1	Vacuum evaporators	16.13	Gases
		16.13.1	Pure and rare gases and their mixtures
16.1.13	Homogenizers	16.13.2	Technical gases in liquid and gaseous phase
16.1.14	Decanters		
16.1.15	Crystallization equipment	16.14	Active carbon, charcoal, soot
16.1.16	Cleaning equipment for chemical engineering	61 1 6	
16.1.17	Heat exchangers for chemical engineering	Chemicals to	r industrial production
16.1.18	Industrial furnaces for chemical production	16.45.4	Chaminala fan washanisal an sina asina
16.1.19 16.1.20	Dosing equipment for chemical engineering	16.15.1 16.15.1.1	Chemicals for mechanical engineering Solvents, thinners
	Transport equipment for chemical plants Silos		
16.1.21 16.1.22		16.15.1.2	Varnish / lacquer removers
16.1.22	Synthetic fibre production equipment Biochemical and biotechnological equipment	16.15.1.3	Degreasing and cleaning liquids Corrosion inhibitors
16.1.24	Process gas distribution	16.15.1.4 16.15.1.5	Moulding equipment
	Process burners		Heat-carrying media
16.1.25		16.15.1.6 16.15.1.7	, , , , , , , , , , , , , , , , , , ,
16.1.26	Exhausting and dedusting equipment for the chemical industry	10.15.1.7	Chemicals for chemical and heat processing of iron and steel
	muustry	16 15 1 0	
16.1.99	Equipment for the chemical industry, other	16.15.1.8	Treatment salts for light metals Chemicals for electroplating
10.1.99	Equipment for the chemical industry – other	16.15.1.9	Mordants for metals
Machines a	nd accordance for the chemical industry	16.15.1.10	
	nd accessories for the chemical industry  Components and accessories for the chemical industry	16.15.1.11	Antifoaming agents
16.2.1 16.2.2	,	16.15.1.12	Emulsifiers Additive concentrates
	Equipment for the petrochemical industry	16.15.1.13	
16.2.3 16.2.4	Equipment for coal and tar processing Natural gas processing equipment	16.15.1.14 16.15.1.99	Technical fungicides Chemicals for mechanical engineering – other
		10.15.1.99	Chemicals for mechanical engineering – other
16.2.5 16.2.6	Inorganic production equipment Organic production equipment	16.15.2	Chemicals for the petrochemical industry
16.2.6 16.2.7	Macromolecular material production	16.15.2	Chemicals for the petrochemical industry  Chemicals for the rubber industry
16.2.8	Coating substance production equipment	16.15.4	Chemicals for the rubber industry  Chemicals for the pharmaceutical and cosmetic industries
16.2.9	Agrochemical production equipment	16.15.4	Chemicals for industrial water treatment plants
	Synthetic fibre production equipment		Chemicals for the textile industry
16.2.10 16.2.11	Explosive production equipment	16.15.6 16.15.7	Chemicals for the electric engineering industry
16.2.11	Explosive production equipment  Equipment for pharmaceutical production	16.15.7	Washing and cleaning agents for industrial site cleaning
16.2.12	Granulate production machines	10.15.90	washing and cleaning agents for mudstrial site cleaning
16.2.13	Machines for the production of soap and cleaning agents	16.15.99	Chemicals for other industrial production branches
16.2.14	Machines for the production of soap and cleaning agents  Machines for cosmetic production	10.17.33	enemicals for other muustrial production prancties
16.2.15	Cream, solution, suspension and emulsion processing	16.16	Industrial explosives
	equipment	16.17	CAD, CAM, CIM for chemical plants
16.2.17	Stearin, glycerol and candle production equipment	16.18	Consultancy for chemical production
16.2.18	Equipment for the production and storing of technical	16.19	Engineering and design services for chemical production
	nacoc		

### **CHEMICALS FOR ENGINEERING**



16.20	Service and repairs of machines for the chemical industry
16.20.1	Diagnostics of machines for the chemical industry
16.21	Re-worked machines for the chemical industry
16.22	Technologies for the chemical industry
16.22.1	Technology projects for the chemical industry
16.99	Chemistry for engneering others



# INDUSTRY 4.0 AND DIGITAL (SMART) FACTORY – INTEGRATED PROCESSES AND IT SOLUTIONS

17.1.1 Additive manufacturing systems (1.2.5.2 of the remarkaturing systems) (1.2.5.2 of the rem	Systems for additive manufacturing		17.2.5	17.2.5 Internet solutions for industrial applications	
17.1.12 Additive manufacturing systems, 3D printers with 10P 17.1.13 Additive manufacturing systems, 3D printers with unimating 17.2.6.1 Multimedia software for industrial applications (17.2.6.1 Multimedia software software manufacturing systems, 30 printers with selective learning (17.2.8.1 Multimedia software software manufacturing systems, 30 printers with selective learning (17.2.8.1 Multimedia software systems) (17.2.8.1 Multimedia software for industrial industrial systems) (17.2.8.1 Multimedia software systems) (17.2.8.1 Multimedia software for industrial industrial systems) (17.2.8.1 Multimedia software systems) (17.	Systems for a	uuttive manutactui mg			
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17.1.1.1 Additive manufacturing systems, 3D printers with Laminating 17.2.6.1 Multimedia traing product development systems (17.1.1.6 molecular (17.1.1.7 molecular (17.1.1.7 molecular (17.1.1.1.7 molecular (17.1.1.1.1.7 molecular (17.1.1.1.1.1 molecular (17.1.1.1.1.1 molecular (17.1.1.1.1 molecular (17.1.1.1.1.1 molecular (17.1.1.1.1 molecular (17.1.1.1 molecular (17.1.1 molecular (17.1.	17.1.1.2		1726	Multimedia software for industrial applications	
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17.1.1.5 Additive manufacturing systems, 30 printers with selective laser melitoring. SMF for metals, 5MF for metals, 5MF for metals and systems, 30 printers with selective laser selective laser selective laser selective. SMF for metals, 5MF for metals, 5MF for metals, 5MF for metals, 5MF for metals. SMF for metals and systems, 30 printers with selective laser selective. SMF for industrial IT.  17.1.1.8 Additive manufacturing systems, 30 printers with stereoiltography, 17.2.8.2 Of Controllers, 07.5 everes, software for industrial IT. OF UN 17.2.8.1 Controllers of the additive manufacturing systems, 30 printers for non-metals 17.2.8.1 Controllers of the additive manufacturing with non-metals 17.2.9 Supplementary systems and services for additive manufacturing with non-metals 17.1.1.1 30 digitisation systems for adaptive manufacturing 17.1.1.2 and 3D scanners. 3D services for additive manufacturing 17.1.1.3 30 scanners. 3D services for additive manufacturing 17.1.1.3 30 scanners. 3D services for additive manufacturing 17.1.1.3 50 scanners. 3D services for additive manufacturing 17.1.3.1 50 scanners. 3D services for additive manufacturing 17.1.3.1 50 scanners. 3D services for additive manufacturing 17.1.3.1 50 scanners. 3D services for additive manufacturing 17.2.1.1 50 scanners for additive manufacturing 17.2.1.1 50 scanners. 3D services for additive manu	17.1.1.5				
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sintering, SLS for non-metals  17.1.1.7  Additive manufacturing systems, 3D printers with stereotitography. SLA, STI.  17.1.1.8  17.1.1.9  Industry applications for additive manufacturing with non-metals  17.1.1  Industry applications for additive manufacturing with non-metals  17.1.2  Industry applications for additive manufacturing with non-metals  17.1.3.1  3D digitisation systems and services for additive manufacturing manufacturing with non-metals  17.1.3.1  3D digitisation systems for adaptive manufacturing 3D digitisation systems for adaptive manufacturing 3D systems and software for additive manufacturing 3D systems for adaptive for manufacturing 3D systems for adaptive manufacturing 3D systems for adaptive for manufacturing 3D systems for for adaptive for manufacturing 3D systems for for adaptive for ada	17.1.1.6		17.2.8		
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17.1.1.8 Other additive manufacturing systems, 3D printers for non-metals 17.2.8.4 Software for computer data backup 17.2.8.5 Software for computer management, maintenance and installation systems and services for additive manufacturing 17.2.1.0 Supplementary systems and services for additive manufacturing 17.1.3.1 3D digitisation systems for adaptive manufacturing 17.1.3.2 3D graphics software and 3D modelling software for additive manufacturing 17.1.3.3 3D modelling for additive manufacturing 17.1.3.4 3D scanners, 3D lases canners for additive manufacturing 17.1.3.5 3D scanners, 3D lases canners for additive manufacturing 17.2.1.1 Application development systems for controls application of evelopment systems for or models (services) 17.1.3.5 D scanners, 3D lases canners for additive manufacturing 17.2.1.1.6 Development and manufacture of 3D printing monofilaments 17.2.1.6 Per supplementary systems and services for additive manufacturing 17.2.1.1.9 Other supplementary systems and services for additive manufacturing with non-metals 17.2.1.1.6 Development and manufacture of 3D printing monofilaments 17.2.1.1.6 Per supplementary systems and services for additive manufacturing with non-metals 17.2.1.1.6 Per supplementary systems and services for additive manufacturing with non-metals 17.2.1.1.6 Per supplementary systems and services for additive manufacturing with non-metals 17.2.1.1.6 Per supplication development systems for probot controls 17.2.1.1.6 Per supplication development systems for probot controls 17.2.1.1.6 Per supplication development systems for probot controls 17.2.1.1.1 Per supplication of evelopment systems for probot controls 17.2.1.1.1 Per supplication systems for industrial IT 17.2.1.1.1 Per supplication systems for industrial IT 17.2.1.1.1 Per supplication systems for industrial IT 17.2.1.1.1 Per supplication development systems with a production processes 17.2.1.1 Per supplication systems for industrial IT 17.2.1.1 Per supplication systems for industrial IT 17.2.1.1 Per supplication systems f					
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17.1.3.1 a) 30 graphics software and 30 modelling software for additive manufacturing manufacturing manufacturing manufacturing manufacturing manufacturing manufacturing manufacturing 17.2.11.2 Application development systems for NC controls 17.3.13 a) 30 modelling for additive manufacturing 17.2.11.2 Application development systems for method systems 17.3.13 b) sciences 30 laser scannes for additive manufacturing 17.2.11.3 Application development systems for method systems 17.3.13 b) visualization of models (services) and software of 3D printing monofilaments 17.1.3.5 b) observable and manufacture of 3D printing monofilaments 17.2.13 b) observable and software and network software for industrial 17.2.14 b) observable and software solutions 17.2.15 c) observable and software solutions 17.2.16 c) observable and software solutions 17.2.17 c) observable and software and network software for industrial II observable and software solutions 17.2.18 patch 17.2.19 b) and software solutions 17.2.19 c) observable and software solutions 17.2.10 c) observable and software solutions 17.2.10 c) observable and software solutions 17.2.11 observable and software solutions 17.2.12 observable and software solutions 17.2.13 observable and solutions 17.2.14 observable and solutions 17.2.14 observable and solutions 17.2.	17.1.3	Supplementary systems and services for additive			
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17.13.4 3D scanners, 3D laser scanners for additive manufacturing 17.13.5 a) So visualization of models (services) 17.13.6 Development and manufacture of 3D printing monofilaments 17.13.7 Other supplementary systems and services for additive manufacturing with non-metals 17.2.11.6 Application development systems for process control systems, visualization systems 17.2.11.7 Application development systems for process control systems, visualization development systems for process control systems, application development systems for systems, application development systems in for adventing systems, application development systems, specification development systems, specification development systems, specification development systems, systems, application development systems, systems, application development systems, specification development systems, systems, and process for automation development systems, systems, and process for automation development systems for applications of systems, and process for automation development systems for systems, and systems, systems, and systems, systems, and systems, systems, and systems for industrial IT 17.2.1.1 Details as a system system systems for industrial IT 17.2.2.1 Details as systems for industrial IT 17.2.3.1 Cylinder computing systems for production technologies and production optication development systems for automation equipment systems, systems, and artificial intelligence systems 17.2.3.1 Cylinder management systems 17.2.3.2 Expert systems, and artificial intelligence 17.2.3.3 Expert, diagnostic and simulation systems 17.2.3.4 PLC simulation software for production technologies and production systems and artificial intelligence 17.2.3.5 Feat time oriented interactive simulation in industrial applications 17.2.3.6 Simulation software for assembly technologies, h	17 1 3 3				
17.1.3.5 Development and manufacture of 3D printing monofilaments 17.1.3.6 Development and manufacture of 3D printing monofilaments 17.1.3.7 Other supplementary systems and services for additive manufacturing with non-metals 17.2.1.1.6 Application development systems for process control systems, 17.2.1.1.6 Application development systems for soft-PLC systems 17.2.1.1.7 Application development systems for soft-PLC systems 17.2.1.1.8 Application development systems for soft-PLC systems 17.2.1.1.9 Application development systems suring C++ C, Basic 17.2.1.1 Application development systems suring C++ C, Basic 17.2.1.1 Details service for industrial IT 17.2.1.1 Database systems 17.2.1.1 Database systems 17.2.2.1 Database systems 17.2.2.2 Data management software for industrial IT 17.2.2.3 Other data management systems 17.2.3.1 Cognitive computing systems for industrial IT 17.2.3.2 Expert, diagnostic and simulation systems 17.2.3.3 Expert, diagnostic and simulation systems 17.2.3.4 PLC simulation software for robotic applications 17.2.3.5 Expert systems and artificial intelligence 17.2.3.6 Expert systems and artificial intelligence 17.2.3.7 Simulation software for robotic applications 17.2.3.8 Simulation software for robotic applications 17.2.3.9 Software for fuzzy logic systems and fuzzy control in industrial applications 17.2.3.1 Simulation software for material flow optimisation and production 17.2.3.2 Systems for fuzzy logic systems and fuzzy control in industrial application software for remote diagnosis systems for material flow optimisation and production 17.2.3.1 Software for fuzzy logic systems and simulation systems for material flow optimisation and production 17.2.3.1 Tools for simulation and offline programming of industrial robots 17.2.3.1 Tools for simulation systems for material flow optimisation and production 17.2.3.1 Tools for simulation and offline programming of industrial robots 17.2.3.2 Systems for fuzzy logic systems and fuzzy control in industrial robots 17.2.3.3 Tools for simulation systems					
17.1.3.6 Development and manufacture of 3D printing monofilaments 17.1.3.7 Other supplementary systems and services for additive manufacturing with non-metals 17.2.1.1.6 Application development systems for robot controls 17.2.1.1.7 Application development systems for robot controls 17.2.1.1.8 Application development systems for robot controls 17.2.1.1.8 Application development systems for Soft-PLC systems 17.2.1.1.8 Application development systems for Soft-PLC systems 17.2.1.1.8 Application development systems with 3 daw 17.2.1.1.9 Application development systems suring C++, C, Basic 17.2.1.1.1 Application development systems suring C++, C, Basic 17.2.1.1 Application development systems for Soft-PLC systems 17.2.1.1 Application development systems suring C++, C, Basic 17.2.1.1 Application development systems for robot industrial IT, 17.2.1.1 Application development systems for probability applications 17.2.1.1 Applic		, , , , , , , , , , , , , , , , , , ,	17.2.11.5		
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17.2.2.1 Data management software for industrial IT 17.2.1.1.10 PLC programming systems, application development systems for automation equipment 17.2.2.2 Knowledge management systems 17.2.2.3 Other data management software for industrial IT development tools  17.2.3 Expert, diagnostic and simulation systems 17.2.3.1 Cognitive computing systems for production technologies and production production processes 17.2.3.2 Expert systems and artificial intelligence 17.2.13.1 General simulation software for robotic applications 17.2.3.3 General simulation software for robotic applications 17.2.13.2 FLC simulation software for robotic applications 17.2.13.3 Virtual reality systems for industrial applications 17.2.13.3 Virtual prototyping systems 17.2.3.1 FLC simulation software for assembly technologies, handling systems 17.2.13.4 Virtual prototyping systems 17.2.13.5 Virtual prototyping systems 17.2.13.6 Virtual reality in production planning 17.2.13.6 Virtual reality in robotics 17.2.13.7 Virtual reality software for industrial applications 17.2.13.5 Simulation software for assembly technologies, handling systems 17.2.13.6 Virtual reality in production planning 17.2.13.7 Virtual reality in production planning 17.2.13.7 Virtual reality in production planning 17.2.13.7 Virtual reality software for industrial applications 17.2.13.7 Virtual reality systems for industrial applications 17.2.13.6 Virtual reality systems for industrial applications 17.2.13.1 Visualization systems for industrial applications 17.2.14.1 Visualization systems in industrial applications 17.2.14.2 Visualization systems in industrial applications 17.2.14.2 Visualization systems in industrial applications 17.2.14.2 Visualization systems in industrial production planning 17.2.14.2 Visualization systems in industrial applications 17.2.14.2 Visualization systems in industrial 17.2.14.2 Visualization systems in industrial 17.2.14.2 Visualization systems in industrial production systems 17.2.14.5 Visualization systems (man-to-process communication) 17.2.	17.2.1	Communication software and network software for mudstriat if	17.2.11.9		
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17.2.3.12 Other expert systems, diagnosis systems and simulation systems  17.2.18 Specific software and solutions for specific industrial branches  17.2.18 Specific software and specific solutions  17.2.4.1 Image processing software  17.2.4.2 Image processing development systems  17.2.4.3 Software for identification systems  17.2.4.4 Software for pattern recognition, image analysis, image processing  17.2.18.2 Product life cycle management, PLM software and solutions	17.12.3.11				
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17.2.4.4 Software for pattern recognition, image analysis, image processing 17.2.18.3 Product life cycle management, PLM software and solutions			17.2.10.2	Application software for vertical IT integration	
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17.2.10.3.1 CAD Software and So					
	±/ • E • T • J	Solution to things processing	17.2.10.3.1	S. 12 John Ware and John Chon Product data generation	

## INDUSTRY 4.0 AND DIGITAL (SMART) FACTORY – INTEGRATED PROCESSES AND IT SOLUTIONS



			WOV 2027
17.2.18.3.2	Complete product life cycle management, PLM systems and solutions	17.2.18.10	Software and solutions for production, production data management and CAM
17.2.18.3.3	Software and solutions for computer equipment, CAE, technical	17.2.18.10.1	Computer systems for production, CAM solutions
17.2.10.3.3	computations and simulation	17.2.18.10.2	Information management systems
17.2.18.3.4	Software and solutions for experiments, prototyping and	17.2.18.10.3	Production systems, MES
17.2.10.5.4	development	17.2.18.10.4	Software and solutions for machine monitoring and machine
17.2.18.3.5	Software and solutions for media management, media databases	17.2.10.10.4	control
		17 0 10 10 5	
17.2.18.3.6	Software and solutions for product requirement management	17.2.18.10.5	Software and solutions for production management systems
17.2.18.3.7	Software and solutions for production planning, product planning	17.2.18.10.6	Software and solutions for production systems, control
17.2.18.3.8	Software and solutions for technical documentation		production stations
17.2.18.3.9	Software and solutions for product data provision	17.2.18.10.7	Software and solutions for production data acquisition, collection
	and management (PDM, EDM)		of data from the plant, FDC, MDA
17.2.18.3.10	Software and solutions for total life cycle management, TLM	17.2.18.10.8 17.2.18.10.9	Software and solutions for production data management Software and solutions for production management
17.2.18.4	Software and solutions for business analysis, big data, intelligent	17.2.18.11	Software and solutions for job allocations, material management
	data for the industry		and logistics
17.2.18.4.1	Software and solutions for big data, intelligent data	17.2.18.11.1	Advanced planning solutions (APS)
	for the industry	17.2.18.11.2	Software and solutions for logistics management
17.2.18.4.2	Software and solutions for business analysis, intelligent data	17.2.18.11.3	Software and solutions for distribution and shipment
	for the industry	17.2.18.11.4	Software and solutions for electronic notice boards, automatic
17.2.18.4.3	Software and solutions for data storages and data acquisition		material inventory management
	for the industry	17.2.18.11.5	Software and solutions for material flow management and
17.2.18.4.4	Other software and solutions for business analysis, big data		material flow optimisation
	for the industry	17.2.18.11.6	Software and solutions for material management
	To the massiy	17.2.18.11.7	Software and solutions for material consumption management
17.2.18.5	Software and solutions for CRM, distribution and marketing	17.2.10.11.7	and optimisation
17.2.18.5.1	Application software customer relations management, CRM	17.2.18.11.8	Software and solutions for warehouse management
17.2.10.5.1	and technical sales		
47.040.5.0		17.2.18.11.9	Software and solutions for supplier chain management (SCM)
17.2.18.5.2	Application software for technical sales	17.2.18.11.10	• • • • • • • • • • • • • • • • • • • •
17.2.18.5.3	eCommerce and eBusiness solutions	17.2.18.11.11	
17.2.18.5.4	Software and solutions for marketing, eMarketing, mobile		management and logistics
17.2.18.5.5	marketing Software and solutions for distribution	Cloud & indust	rial IT services, digital factory services
17.2.10.3.3	Software and Solutions for distribution	Cloud & maust	riatif services, digital factory services
17.2.18.6	Software and solutions for customer service and support	17.3.1	Cloud services, IT services and outsourcing
		17.3.1.1	Applications and hosting systems
17.2.18.7	Software and solutions for production planning	17.3.1.2	Application service provision (ASP) for the industry
17.2.18.7.1	Software and solutions for enterprise resource planning, ERP	17.3.1.2	Application service provision (visit) for the madsay
17.2.10.7.1	and production planning, PPC	17.3.1.3	Industrial cloud services
17.2.18.7.2	Software and solutions for enterprise resource planning, ERP	17.3.1.3	Cloud services for condition monitoring, predictive maintenance
17.2.10.7.2	and order processing	17.3.1.3.1	Cloud services for mobile sensor systems
17 2 10 7 2	Software and solutions for production and planning integrated	17.3.1.3.2	<b>3</b>
17.2.18.7.3			Infrastructure as a Service, SaaS, for industrial applications
47.040.7.4	control	17.3.1.3.4	Other cloud services for industrial applications
17.2.18.7.4	Software and solutions for production and control planning, PPC	17.3.1.3.5	Platform as a Service, PaaS, for industrial applications
17.2.18.7.5	Software and solutions for production planning / computer	17.3.1.3.6	Software as a Service, SaaS, for industrial applications
	planning, CAP	17.3.1.4	IT and network services (outsourcing)
17 2 10 0	Software and colutions for maintanance and remains	17.3.1.4	
17.2.18.8	Software and solutions for maintenance and repairs		Enterprise process outsourcing
17.2.18.8.1	MPS, maintenance systems	17.3.1.6	IT and outsourcing consulting
17.2.18.8.2	Software and solutions for maintenance management	17.3.1.7	Controlled services for industrial applications
17.2.18.8.3	Software for maintenance in the industry	17.3.1.8	Shop floor services and solutions
17.2.18.8.4	Other software and solutions for maintenance and repairs	17.3.1.9	Attendance and maintenance software
17.2.40.0	Coffee and columns from the control of the control	17.3.0	Automotion actions described
17.2.18.9	Software and solutions for management and business activities	17.3.2	Automation software development
17.2.18.9.1	Software and solutions for asset management	17.3.2.1	Development of customer-specific control modules
17.2.18.9.2	Content management software	17.3.2.2	PLC development and programming
17.2.18.9.3	Document management systems (DMS)	17.3.2.3	Other customary automation software
17.2.18.9.4	Software for personnel working hours management		
17.2.18.9.5	Software and solutions for business process optimisation and	17.3.3	Industrial engineering services
	business process control	17.3.3.1	Application programming and engineering for automation
17.2.18.9.6	Software and solutions for company management, organisation		in factories
	and control	17.3.3.2	Documentation services
17.2.18.9.7	Software and solutions for human resources, personnel	17.3.3.3	Other industrial engineering services
	management	17.3.3.4	Production planning and control simulation
17.2.18.9.8	Software and solutions for project management	17.3.3.5	Software consulting
17.2.18.9.9	Software and solutions for risk management	15.5.5	
	Software for the calculation of production costs	17.3.4	Internet services for automation and industrial use
17 2 18 0 10		17.3.4	The the services for automation and moust latuse
17.2.18.9.10			Internet portals for industrial coffware and engineering
17.2.18.9.11	Systems for workflow	17.3.4.1	Internet portals for industrial software and engineering
	Systems for workflow Other software and solutions for administration and commercial	17.3.4.1 17.3.4.2	Other internet services for automation and industrial use
17.2.18.9.11	Systems for workflow	17.3.4.1	Other internet services for automation and industrial use Services for on-line marketplaces (industrial software and
17.2.18.9.11	Systems for workflow Other software and solutions for administration and commercial	17.3.4.1 17.3.4.2	Other internet services for automation and industrial use



# INDUSTRY 4.0 AND DIGITAL (SMART) FACTORY – INTEGRATED PROCESSES AND IT SOLUTIONS

17.3.5	Organisations and associations for industrial software, digital			
17.3.6	factories Other digital factory services			
•	ems for the industry and industrial automation			
17.4.1	General intelligent components			
17.4.2	Components, Internet of Things systems, IoT in industrial applications			
17.4.3	Cyber physical systems in industrial applications			
17.4.4	Industrial internet solutions, industrial internet systems			
17.4.5	Integrated industrial solutions			
17.4.6	Other Industry 4.0 based industrial and internet solutions			
17.4.7 Software solutions for the Industry 4.0 and the Internet of Things, Industrial Internet of Things (IioT)				
Automated p	roduction systems usable for the Smart Factory			
17.5.1	Production planning and automatic control systems related to			
	ERP systems			
17.5.2	Automatic customer requirement processing systems			
17.5.3	Automatic input material and raw material storage systems			
17.5.4	Automatic tool storage systems			
17.5.5	Other automatic storage systems			
17.5.6	Automatic systems for in-house transport of semi-products and			
	products			
17.5.7	Automatic handling systems			
17.5.7.1	Handling robots with image analysis skills			
17.5.7.2	Robotic systems for technology and machine tool operators			
17.5.7.3	Other robotic systems			
17.5.8	Automatic control and measuring stations integratable			
	in technological processes			
17.5.9	Machines and equipment used in automatic facilities			
17.5.10	Automatic monitoring and evaluation systems			
17.5.11	Industry-specific automation software solutions			
17.5.11.1	Automation software solutions for general industrial applications			
17.5.11.2	Automation software solutions for general mechanical engineering			
17.5.11.3	Automation software solutions for measuring technologies			
	and control technologies			
17.5.11.4	Automation software solutions for other branch-specific applications			
17.5.11.5	Automation software solutions for the design of other vehicles			
17.5.11.6	Automation software solutions for the automotive industry			
17.5.11.7	Automation software solutions for civil engineering			
17.5.11.8	Automation software solutions for the electrical engineering			
	industry, electronic industry			
17.5.11.9	Automation software solutions for the metal producing and metal working industry			
17.5.11.10	Automation software solutions for the packaging industry			
17.5.11.11	Automation software solutions for the printing industry			