

International Engineering Fair





International Fair for Transport and Logistics



International Fair for Environmental Protection Technologies

The key marks will be

- Industry 4.0 and a digital factory
- Circular economy

October 10–13, 2023 Brno – Czech Republic

BVV Trade Fairs Bmo

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CIRCULAR ECONOMY



64nd International Engineering Fair

MSV 2023

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MINING, METALLURGICAL, CERAMIC AND GLASS ENGINEERING



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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
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1.4	Machines and equipment for powder metallurgy
	technologies
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MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING



Metallurgica	al 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		
2.1.1.3	Blooms, slabs	Forgings, pr	essed narts
2.1.1.4	Continuous casts	2.2.1	Pressed, drawn and stamped parts
		2.2.1	riesseu, ulawii aliu stallipeu parts
2.1.1.5	Slag	222	a " · · ·
		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
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		
2.1.3.3	Zinc-coated steel sheets	2.2.4	Upset pieces
2.1.3.4	Tinned steel sheets	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
	Surface finished steel sheets		
2.1.3.8		2.2.6.2	Hot pressed parts of sheet
2.1.3.9	Perforated steel sheets		
2.1.3.10	Bands, strips	2.2.99	Forgings, 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
		2.4.2	rumeu, ilitteu, untteu and timeaded components
2.1.3.99	Steel sheets – other		
		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		
2.1.4.1.1	Seamess corrosion-proof tubes and pipes	2.6.2	Semi-products of non-ferrous metals
04/0	Welded sheet to be a read of the		
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
	man matter steet tubes and pipes	2.6.2.1.5	Aluminium sections
21/5	Thin walled steel tubes and nines		Aluminium foam
2.1.4.5	Thin-walled steel tubes and pipes	2.6.2.1.6	
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
2.1.4.33	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
	•		
2.1.6	Drawn steels	2.6.3	Thermal bimetals
	Cold drawn steel	2.0.5	memat binetats
2.1.6.1		0.6.00	
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		
		2.7	Metal powders and powder metallurgy 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
2.1.8.5	High-alloy steels		
		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		
L.1.0.U.1	Sects for tow temperatures	2012	Nute
	D / / / /	2.9.1.2	Nuts
2.1.9	Peeled steel	2.9.1.2.1	Pressing and riveting nuts
		2.9.1.3	Washers



MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING

MSV 2023			
2.9.1.4	Retaining rings	2.9.11.3	Armoured hose sets for product transport
2.9.1.5	Screws		
2.9.1.6	Rivets	2.9.12	Chains
2.9.1.7	Bolts	2.9.13	Disk and other wheels
2.9.1.8 2.9.1.99	Clips Connecting materials – other	2.9.14 2.9.15	Piston rings Distance rings
2.9.1.99	connecting materials – other	2.9.16	Pins
2.9.2	Forgings	2.9.17	Draw bars
2.9.3	Clamps / grips	2.9.18	Connecting rods
2.5.5	ctumps / gr.ps	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	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
	,	2.13.6	Asbestos-free seals
2.9.7.4	Wire fabrics		
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 films and boards for sealing technology
2.9.7.99	Wire products – other		
		2.13.8	Shaped seals
2.9.8	Steel structures	2.13.9	Self-adhesive seals
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 Flat seals with metal reinforcements
2.9.8.3	Welded structures	2.13.12 2.13.13	Bearing seals
2.9.8.3.1	Welded pieces	2.13.13	bearing seats
213101311	notada piddas	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 2.9.8.11	Hot galvanized steel structures Assembly of steel structures	Class and al	ass products
2.9.8.11	Steel structures – other	2.14.1	Technical glass
2.9.0.99	Steet structures – Other	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		
		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		
2.9.9.99	Tube products – other	2.14.99	Glass products – other
2.9.10	Apparatus, vessels, tanks	2.15	Porcelain and technical ceramics
2.9.10.1	Steel bottles	2.15.1	Engineering ceramics
		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
20102	Man museum annumbures and war-1-	2.15.6	Ceramic components
2.9.10.3	Non-pressure apparatuses and vessels	2.15.7	Porcelain components Technical ceramics – other
2.9.10.4	Storage tanks	2.15.99	recrimical cerannics – 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
	, ,		3
2.21	Crystal-based products	2.41.5	Combined mechanical gearboxes
2.21.1	Sapphire products and semi-products	2.41.6	Hydraulic gearboxes
	Suppline products and semi-products	2.41.7	Variable speed gearboxes
2.22	Permanent magnets	2.41.8	Automatic gearboxes
2.22	remanent magnets	2.41.9	Turbogears
2.23	Marking devices for lettering and marking	2.41.10	Cam transmission mechanisms
	Self-adhesive materials		Special gearboxes
2.23.1		2.41.11	, ,
2.23.2	Marking of industrial components by imprinting	2.41.99	Gears – other
0.07		61 . 1	
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	2.42.10	Hydraulic clutches and accessories
2.20.1	Cabilis for macrime operation		
		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	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
2.30	Manufacture of prototypes, model design (Rapid Prototyping)		
2.30 2.30.1		2.43.5	Spring brakes
	(Rapid Prototyping) Prototype production by means of stereolitography	2.43.5 2.43.6	Spring brakes Hydraulic brakes Magnetic brakes
2.30.1 2.30.2	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds	2.43.5 2.43.6 2.43.7 2.43.8	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes
2.30.1	(Rapid Prototyping) Prototype production by means of stereolitography	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes
2.30.1 2.30.2 2.30.3	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes
2.30.1 2.30.2 2.30.3	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems
2.30.1 2.30.2 2.30.3 Sliding and a	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping ntifriction bearings and their accessories	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes
2.30.1 2.30.2 2.30.3	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping ntifriction bearings and their accessories Components and accessories of antifriction	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11 2.43.99	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems Brakes – other
2.30.1 2.30.2 2.30.3 Sliding and at 2.40.1	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping ntifriction bearings and their accessories Components and accessories of antifriction bearings	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems
2.30.1 2.30.2 2.30.3 Sliding and a	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping ntifriction bearings and their accessories Components and accessories of antifriction	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11 2.43.99	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems Brakes – other Final drives and accessories
2.30.1 2.30.2 2.30.3 Sliding and at 2.40.1	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping ntifriction bearings and their accessories Components and accessories of antifriction bearings	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11 2.43.99	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems Brakes – other Final drives and accessories
2.30.1 2.30.2 2.30.3 Sliding and at 2.40.1	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping ntifriction bearings and their accessories Components and accessories of antifriction bearings	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11 2.43.99	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems Brakes – other Final drives and accessories
2.30.1 2.30.2 2.30.3 Sliding and at 2.40.1 2.40.1.1	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping ntifriction bearings and their accessories Components and accessories of antifriction bearings Bearing bodies	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11 2.43.99 2.44 Lubrication	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems Brakes – other Final drives and accessories technology
2.30.1 2.30.2 2.30.3 Sliding and at 2.40.1 2.40.1.1	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping ntifriction bearings and their accessories Components and accessories of antifriction bearings Bearing bodies Sintered slide bearings	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11 2.43.99 2.44 Lubrication 2.45.1	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems Brakes – other Final drives and accessories technology Lubrication devices
2.30.1 2.30.2 2.30.3 Sliding and at 2.40.1 2.40.1.1 2.40.2 2.40.3	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping ntifriction bearings and their accessories Components and accessories of antifriction bearings Bearing bodies Sintered slide bearings Ball bearings	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11 2.43.99 2.44 Lubrication 2.45.1 2.45.2	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems Brakes – other Final drives and accessories technology Lubrication devices Components for lubrication devices
2.30.1 2.30.2 2.30.3 Sliding and at 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping ntifriction bearings and their accessories Components and accessories of antifriction bearings Bearing bodies Sintered slide bearings Ball bearings Roller bearings Needle bearings	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11 2.43.99 2.44 Lubrication 2.45.1 2.45.2 2.45.3 2.45.4	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems Brakes – other Final drives and accessories technology Lubrication devices Components for lubrication devices Central lubrication technology Filters for lubrication technology
2.30.1 2.30.2 2.30.3 Sliding and al 2.40.1 2.40.1.1 2.40.2 2.40.3 2.40.4 2.40.5 2.40.6	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping Intifriction bearings and their accessories Components and accessories of antifriction bearings Bearing bodies Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 2.43.10 2.43.11 2.43.99 2.44 Lubrication 2.45.1 2.45.2 2.45.3	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes Electromagnetic brakes Brake systems Brakes – other Final drives and accessories technology Lubrication devices Components for lubrication devices Central lubrication technology
2.30.1 2.30.2 2.30.3 Sliding and at 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	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping Intifriction bearings and their accessories Components and accessories of antifriction bearings Bearing bodies Sintered slide bearings Ball bearings Roller bearings Needle bearings Joint bearings Tapered roller bearings	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 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	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes 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
2.30.1 2.30.2 2.30.3 Sliding and at 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	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping Intifriction bearings and their accessories 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	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 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	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes 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
2.30.1 2.30.2 2.30.3 Sliding and at 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	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping Intifriction bearings and their accessories 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	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 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	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes 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
2.30.1 2.30.2 2.30.3 Sliding and at 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	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping Intifriction bearings and their accessories 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	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 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	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes 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
2.30.1 2.30.2 2.30.3 Sliding and at 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	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping Intifriction bearings and their accessories 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	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 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	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes 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
2.30.1 2.30.2 2.30.3 Sliding and at 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	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping Intifriction bearings and their accessories 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	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 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	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes 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
2.30.1 2.30.2 2.30.3 Sliding and al 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	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping Intifriction bearings and their accessories 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	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 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	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes 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
2.30.1 2.30.2 2.30.3 Sliding and al 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	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping Intifriction bearings and their accessories 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	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 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	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes 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
2.30.1 2.30.2 2.30.3 Sliding and al 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	(Rapid Prototyping) Prototype production by means of stereolitography Prototype production by means of casting in silicon moulds 3D printers for prototyping Intifriction bearings and their accessories 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	2.43.5 2.43.6 2.43.7 2.43.8 2.43.9 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	Spring brakes Hydraulic brakes Magnetic brakes Eddy-current brakes Safety brakes 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
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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
		3.10.13	Hydraulic filters
3.1.2	Rotational electric motors	3.10.14	Pumps for hydraulics
3.1.2.1	Electric motors with integrated gear box	3.10.15	Hydraulic fans
		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
3.1.0	Theumatic equipment for drives	3.10.21	Hydraulics – proportional technology
3.2	Linear moving units	3.10.22	Manufacture of hydraulic sets and systems on request
J.2	Linear moving units	3.10.22	Hydraulic elements – other
3.2.1	Linear drives and feeds	3.10.99	nyurautic etements – other
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3.2.1.1	Linear guides	3.15	Fans and compressors for air-condition equipment
3.2.1.2	Ball screws	Compressors	s and industrial vacuum pumps
3.3	Adjustable systems	3.20.1	Components for compressors and vacuum pumps
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		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
3.4.1.2	Indented belts	3.20.4.1	Oil-lubricated screw compressors
3.4.1.3	V-belts	3.20.4.2	Oil-free screw compressors
3.4.1.4	Flat belts		·
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3.4.1.5	Driving chains	3.20.6	High-pressure compressors
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3.4.1.6	Chain wheels	3.20.11	Lubricated air compressors
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3.5.1	Propeller shaft	3.20.15	Hydro-pneumatic accumulators
3.5.1.1	Cardan joints	3.20.16	Blowers
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3.10.11.1	Low-pressure hydraulic hoses	3.22.1	Small cooling machines and equipment
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DRIVES, HYDRAULICS AND PNEUMATICS, COOLING TECHNOLOGY AND AIR-CONDITIONING



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and compressor equipment	3.31.7	Cisterns	3.80.2	
				and compressor equipment



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



Conventional	and nuclear newer engineering heating plants	672	Detrol engines
Conventional	and nuclear power engineering, heating plants	6.7.3 6.7.4	Petrol engines Double-fuel motors
Drimany cours	es 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	0.7.99	Combustion 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
6.1.6	Fuel oils		engines and turbines
6.1.7	Fuel cells for nuclear power plants	6.9.1	Cogeneration units
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6.2.2	Industrial boilers	6.12	Auxiliary power plant equipment
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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 fo	r heat energy generation	6.17	Gas industry equipment
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6.3.8	Heating plants	6.21	Recuperation units, recuperators
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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	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	6.25 6.26 6.26.1 6.26.2 6.26.3 6.27 6.28 6.29 6.30	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
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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 pow 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 6.6.3.6	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 er 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 – incineration plants Nuclear power plants	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 Alternative	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
6.3.10.2 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 pow 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 Combustion en	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 er 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 - incineration plants Nuclear power plants	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	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 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 sources Machines and equipment for production of pressed biofuels
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 pow 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 6.6.3.6	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 er 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 – incineration plants Nuclear power plants	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 Alternative	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

6.35.3	Biomass fired boiler plants, heating plants	6.44.2	Fluorescent tubes
6.35.4	Solar heating systems	6.44.3	Discharge lamps
6.35.5	Photovoltaic electric power sources		
6.35.6	Hydro-electric power plants	6.44.99	Electric light sources – other
6.35.7	Wind power plants and their accessories		
6.35.8	Heat pumps and their accessories	Lighting fitting	
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
6.35.11	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	Transdusors ro	etificus and other electrotechnical elements
6.35.15	Electrical power distribution grids of Smart Grids type	Hallsuucers, le	ctifiers and other electrotechnical elements
6.35.16	Services, consultancy, financing in alternative power sources	6.47.1	Heavy-current power electronics (diodes, transistors,
0.55.10	field	0.47.1	thyristors)
6.35.17	Institutions focused on renewable power sources field		anymistorisy
6.35.99	Alternative power sources – other		Accessories of transducers, rectifiers, switches
	7.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	6.47.2.1	Transducers
Trading in ene	rgies, in CO2 emissions	6.47.2.2	Rectifiers
6.36.1	Trading in energies	6.47.2.3	Stabilizers
6.36.2	Trading in CO ₂ emissions	6.47.2.4	Current inverters
	•	6.47.2.5	Electric current converters
Heavy-current	electrical engineering	6.47.2.6	Frequency converters
-	•	6.47.2.7	DC voltage converters
Cables and cor	nductors	6.47.2.8	Electric current switches and controllers
6.40.1	High and very high voltage cables		
6.40.2	Power cables	6.48	Uninterruptible power supplies
6.40.3	Flame retarding cables		
6.40.4	Earth cables	Electric current	t switchboards
6.40.5	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	Cable couplers, eyes	6.49.4	Compensation switchboards
6.40.9	Cable connectors	6.49.5	I+C switchboards
6.40.10	Cable terminals	6.49.6	Cable switching cabinets
6.40.11	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 6.40.15	Earthing materials Cable lines (stands, supports, lines, trays, througs)	6.50	Diversional advertises alone
6.40.16	Fastening materials for cables and conductors	6.50	Plugs and adapter plugs
6.40.17	Cable coils	IV connecting	and switching instruments
6.40.18	Superconductors	6.51.2	LV switches
6.40.19	Heating resistance materials	6.51.3	LV contactors and circuit breakers
6.40.20	Cable marking systems	6.51.4	Fuses
6.40.21	Tools and equipment for working with cables and conductors	6.51.5	Starters
6.40.98	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
Electrotechnic	al insulators and insulants	6.52	Power switching devices
6.41.1	Porcelain insulators		
6.41.2	El. wiring and assembly porcelain	Transformers	
6.41.3	Ceramic components for el. engineering – other	6.53.1	LV transformers
6.41.4	Electrotechnical insulants (excluding ceramic)	6.53.2	HV transformers
6.41.5	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 / 2	Floater showing a name of the	6.53.7	Switches for transformers
6.43	Electrochemical power supplies	6.53.8	Components and accessories of transformers
6.43.1	Batteries, electrochemical cells Accumulators	6.53.9	Choke coils
6.43.2 6.43.3	Accumulators Accumulator charging systems	6.53.10	Service and repairs of HV and VHV transformers
6.43.99	Electrochemical power supplies – other	6.53.11	Kiosk (concrete) transformer stations
0.73.33	Eccarochemical power supplies – other	6.54	Electric HV and VHV instruments
Electric light s			
	sources	6.54 1	HV and VHV SWITCHES
Licetine tigine s	sources	6.54.1 6.54.2	HV and VHV switches HV contactors
6.44.1	Lamps	6.54.2	HV contactors
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POWER ENGINEERING AND HEAVY-CURRENT ELECTRICAL ENGINEERING



			MSV 2023
6.54.6	Protective and safety aids for HV technology	6.60.8	Industrial cockets and plugs
6.54.7	Static electricity protection equipment	6.60.9	Industrial sockets and plugs Connecting wiring material
6.54.8	Earthing systems	0.00.9	connecting wiring material
0.54.0	Editing systems	6.61	Measuring transducers for heavy electrical engineering
Electric moto	ors	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
	- y	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
			engineering
6.55.3.7 6.55.3.7.1	Starters for asynchronous motors Soft starters	6.80	Service and repairs of machines and equipment in heavy- current electrical engineering
6.55.4	Commutator electric motors		
6.55.5	DC destrict weekens		
6.55.5	DC electric motors		
6.55.5.1	DC electric motors up to 1 kW		
6.55.5.2 6.55.5.3	DC electric motors of more than 1 kW Brushless DC el. motors		
0.55.5.5	brushless DC et. 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		
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		
6.55.13	Custom-made electric motors		
6.55.14	Repairs of electric motors		
6.55.99	Electric motors – other		
0.55.55	Electric 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 indu	strial heating		
6.58.1	Components for thermal electric equipment		
6.58.2	Electric arc and resistance furnaces		
6.58.3	Induction furnaces		
6.58.4	Dielectric equipment		
6.58.5	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 mater			
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	Support and fixing materials		
6.60.6 6.60.7	Plastic and metal cable terminals Cable protectors		

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
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
7.4.4		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	7.0.5	
7 1 15	Manager and the standard desired to destruct	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	7.2.7	IGBT modules
	and hybrid circuits	7.2.8	Hybrid circuits
7 1 17	Machines for printed sirguit heard production	7.2.9	Electronic components other than semiconductor ones - other
7.1.17	Machines for printed circuit board production	7.2.10	Ontic and anteclectronic elements
7.1.17.1 7.1.17.2	Drilling machines for printed circuit boards Automatic and semi-automatic component mounting machines	7.2.10	Optic and optoelectronic elements Miniature bulbs
7.1.17.2	Soldering devices for classic, mixed and surface mounting (SMT)	7.2.10.1	
7.1.17.3	Soldering devices for classic, linked and surface induffing (SMT)	7.2.10.2	Visualizing elements, indicators LED displays
7.1.18	Assembly devices for PCB technology	7.2.10.3	LCD displays
7.1.19	Printed circuit board assembly tools	7.2.10.4	Laser displays
7.1.20	Machines for installation of electrical part contacts	7.2.10.5	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	7.2.10.11	Optoelectronical equipment
7.1.26	Single-purpose machines for electrotechnical production	7.2.10.12	CCD elements
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
		7.2.15.1	Flat conductor connectors
7.1.90	Service and repairs of machines and equipment	7.2.15.2	Interface connectors
	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
	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	7.2.15.15	Elements for power supplies (ferrite cores, transformers)
Electronic com	monents and elements	7.2.15.16	Transmitters, communication transformers
Electronic com	ponents and elements	7.2.15.17	Toroidal transformers
721	Conductors	7.2.15.18	Instrument transformers Polacy for electronics (SMD relays, relay cockets)
7.2.1	Conductors Communication cables	7.2.15.19	Relays for electronics (SMD relays, relay sockets)
7.2.1.1		7.2.15.20	Magnets for electronics
7.2.1.2 7.2.1.3	Connecting wires and twisted conductors Conductors and fine wires for windings	7.2.15.99	Mechanical components for electronics and parts – others
7.2.1.3 7.2.1.4	Conduit lines	7.2.13.99	mechanical components for electionics and parts – others



	Power sources for electronics		Industrial information and control networks and their components
	•	7.5.1.22.1	LAN and WAN networks
7.2.87	CAD, CAM, CIM for electronic components and elements	7.5.1.22.2	Wireless LAN networks
7.2.88	Consultancy for electronic components and elements		
7.2.89	Engineering and design services in the field of electronic components and elements	7.5.1.23 7.5.1.24	Operation systems for technology process control Developing systems and programs for process simulation
7.2.90	Production of made-to-order printed circuit boards	7.5.1.25	Programs for technological process control
	,	7.5.1.26	Programs for process visualization
7.2.99 Electronic components and elements – other		7.5.1.27	Remote computer management systems
Studio and broadcasting technology		7.5.1.28	Data Warehousing / Data Mining – for industrial data
7 0 4	6	7.5.1.99	Components for automation and control technology
7.3.1 7.3.1.1	Components and accessories of transmitters Generator and broadcasting electronic elements		equipment – other
7.3.1.2	Antenna arrays	7.5.2	Transducers of electric and non-electric variables
7.3.1.3	Cables and lines for broadcasting technology	7.5.2.1	Intelligent sensor systems
		7.5.2.2	Incremental and absolute encoders
7.3.2	Broadcasting, telegraph and communication transmitters		
7.3.3	Television transmitters	7.5.3	Counters for regulation
7.3.4	Radio networks		
7.3.5	Mobile radio-telecommunication equipment	7.5.4	Remote checking and control
7.3.6	Relay links	7.5.4.1	Remote electric measurement / control
7.3.7	Radar equipment	7.5.4.2	Automatic central checking / control
7.3.8	Broadcasting studio technology	7.5.4.3	Telephone controlled devices
7.3.9	Call and telephone dispatcher systems	7.5.4.4	Radio systems for remote control of industrial technology
7.3.10	Television studio technology	7.5.4.5	GSM / GPRS based data networks
7.3.11	Cable television (cables, other components)	7.5.4.5.1	Communication modules for GSM / GPRS
7.3.12	Closed-circuit television	7.5.4.5.1	communication modules for dain / drka
7.3.13	Satellite television technology	7.5.5	Electric and electromagnetic controllers
7.3.14	Direction finders	7.5.5.1	Magnetic controllers
7.3.15	GPS	7.5.5.2	Hydraulic controllers
7.3.16	Remote control wireless systems	7.5.5.3	Pneumatic controllers
7.3.10 7.3.17	Measuring instruments for broadcasting technology	7.5.5.4	Electronic controllers
7.5.17	measuring instruments for broadcasting technology	7.5.5.5	PID controllers
7.3.99	Broadcasting equipment – other	7.5.5.6	Control systems with fuzzy logic
	zioaatazanig equipment outo	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
7.5.1	Commonweath for any imment for automotion and control	7.5.5.9	Control systems PCC (Programmable Computer Controller)
7.5.1	Components for equipment for automation and control	7.5.5.10	Optimizing systems
7.5.1.1	Process microprocessors, microcontrollers		
7.5.1.2	Processor and memory modules	7.5.6	Controllers and power elements
7.5.1.3	Signal processors	7.5.6.1	Servomotors (pneumatic, integrated)
7.5.1.4	RAM/ROM disc memories	7.5.6.2	Power units (actuators)
7.5.1.5	Communication modules, I/O modules – cards	7.5.6.3	Selsyns
7.5.1.6	Industrial bus-bar systems	7.5.6.4	Power amplifiers
7.5.1.7	Chassis, control technology cabinets	7.5.6.5	Relays
7.5.1.7	chassis, control econology cashield	7.5.6.6	Switches for control
7.5.1.8	Industrial control computers	7.5.7	Control rooms
7.5.1.8.1	Minipanel PC	7.5.7.1	Operation consoles for technology control
7.5.1.8.2	Single-board control computers	7.3.7.1	operation consider for econology control
7.5.1.8.3	Network servers for industrial sites	7.5.8	Control and measuring systems
7.5.1.8.4	Industrial data collection PC	7.5.8.1	Control and measuring systems for company power engineering
7.5.1.8.5	Notebooks suitable for industrial sites	7.5.0.1	
7.5.1.9	Monitors	7.5.9	Systems for automatic production process control
7.5.1.10	Panel and large-size alphanumerical displays	7.5.9.1	Systems for automatic thermal process and air-conditioning
7.5.1.10	Visualization panels for machine monitoring	7.5.0.0	control
7.5.1.11	Joysticks and trackballs for industrial sites	7.5.9.2	Systems for automatic technological process control
7.5.1.12	Industrial terminals	7.5.0.0	in mechanical engineering
7.5.1.13	Industrial terminals Industrial keyboards	7.5.9.3	Systems for automatic technological process control
7.5.1.14	Projection and presentation equipment for control rooms	7.5.0.4	in chemical industry
		7.5.9.4	Systems for automatic technological process control in power
7.5.1.16	Computer printers for industrial sites	7.5.0.00	engineering
7.5.1.17	Power supplies	7.5.9.99	Systems for automatic technological process control in other
7.5.1.18	Output and interconnecting cables, connectors		industrial branches
7.5.1.19	Measuring peripherals for PC	7 5 10	Automatic control quetoms for military turns out
7.5.1.20 7.5.1.21	Computer cards for industrial control computers UPS for control, automation and regulation technology	7.5.10 7.5.11	Automatic control systems for railway transport Automatic control systems for air service
	or 3 for control, automation and regulation technology	7.5.11	Automatic control systems for all 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)
		7.12.17	CRM (Customer Relationship Management) systems
7.5.16	Data distribution technology in buildings	7.12.18	Marketing
7.5.17	Redundant control systems with high reliability	7.12.19	Company processes modelling and optimizing (Workflow,
7.5.18	Explosion-proof components and systems for control,		Reengineering)
	automation and regulation equipment	7.12.20	HelpDesk tools supporting business applications
7.5.99	Instruments and equipment for automatic control – other	7.12.99	General software for business management – other
	d safety equipment		r 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
		7.13.6	DMS systems (Document Management System) for control
Supervising	and control equipment	7.13.99	and management of structured and unstructured documents 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
	-, 3	7.14.6	Comprehensive management system for budget and publicly
7.9	Antifire and antiexplosion safety equipment in industrial	7.14.7	funded organizations
7.0.1	plants	7.14.7	Comprehensive management system for production and business concerns
7.9.1	Fire safety systems for machine-tools and forming machines	7.14.8	Comprehensive management for holding companies
7.9.2	Spray booth fire safety systems	7.14.9	Company management network system
C		7.14.9	Modular system of business management
5ystems for 7.10.1	detecting robberies, danger, entry of unauthorized persons Systems with central security board	7.14.10	Comprehensive 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	7.15	System integration in the sector of industrial information,
7.10.2.2	Broken glass detectors		measuring and control systems
7.10.3	IR supervision systems	7.15.1	Made-to-order development of software and hardware
7.10.4	Ultrasonic supervision systems		in the field of automation
7.10.5	Microwave supervision systems	7.46	
7.10.6 7.10.7	Laser and radar supervision systems Seismic sensor systems (geophones)	7.16 7.17	Training machines and equipment CAD, CAM, CIM in control, automation and regulation
7.11	Industrial robots and their assemblies	7.18	technology Consultancy in control, automation and regulation
7.11.1	Micro-positioning systems		technology
7.11.2	Robotic cells	7.19	Engineering design services in the field of control,
7.11.3	Turn-key integrated solutions of robotized production processes		automation 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
7.12.2	Invoicing	7.20.1	Diagnostics of control, automation and regulation technology
7.12.3	Book-keeping	7.20.2	Spare parts for control, automation and regulation technology
7.12.4	Human resources	7.20.3	Refurbishment and upgrading of control, automation
7.12.5	Wages and salaries		and regulation technology
7.12.6	Software supporting development of new industrial products		
7.12.7	Technical preparation for production	7.29	Elements and systems in control, regulation and automation



Scales and w	eighing 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
7.31.4	Crane scales	7.35.1	Universal supplies of stabilized voltage
7.31.5	Dosing scales	7.35.2	Universal supplies of stabilized current
7.31.6	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
7.51.0	Laboratory batances		
Time measur	ing instruments	Sensors for	picking up mechanical variables
7.32.1	Electric and electronic clocks		F 5 - F
7.32.2	Checking clocks	7.38.1	Sensors for picking up mechanical
7.32.3	Timers	7.38.1.1	Pressure sensors
7.32.4	Time control displays	7.38.1.2	Pressure difference sensors
7.32.4		7.38.1.3	Speed sensors
	Special purpose time measuring instruments	7.38.1.4	Acceleration sensors
7.32.6	Operation hour counters	7.38.1.5	Load sensors
0-4		7.38.1.6	Position sensors
•	ical instruments	7.38.1.7	Path sensors icluding gyroscopic systems
7.33.1	Components for optomechanical instruments	7.38.1.8	Length, distance sensors
7.33.2	Microscopes and accessories	7.38.1.9	Shift / feed sensors
7.33.3	Geodetic and cartographic instruments	7.38.1.9 7.38.1.10	Thickness sensors
7.33.4	Photogrammetric instruments and accessories		
7.33.5	Telescopes, magnifiers	7.38.1.11	Angle sensors
7.33.6	Astronomic instruments	7.38.1.12	Revolution sensors
7.33.7	Optomechanical spectral analysers	7.38.1.13	Sensors of speed, velocity, acceleration
7.33.8	Fibre optics	7.38.1.14	Fluid flow sensors
7.33.9	Industrial endoscopes	7.38.1.15	Gas flow sensors
7.33.10	Profile projectors	7.38.1.16	Fluid level sensors
7.33.99	Optomechanical instruments – other	7.38.1.17	Fluid level measured value sensors
	•	7.38.1.18	Surface quality evaluating sensors
Instruments	for measuring of electric variables	7.38.1.19	Force sensors
		7.38.1.20	Sensors of force, strain, deformation and bending
7.34.1	Multimeters	7.38.1.21	Vibration sensors
7.34.2	Ammeters	7.38.1.22	Torque sensors
7.34.3	Digital avometers (multimeters)	7.38.1.99	Sensors for picking up mechanical quantities – other
7.34.4	Voltmeters		
7.34.5	Voltage testers	7.38.2	Sensors for picking up electric quantities and parameters
7.34.6	Charging meters	<i>7.38.3</i>	Sensors for picking up acoustic quantities and parameters
7.34.7	R-L-C-Z meters		
7.34.7	Conductance meters	7.38.4	Sensors for picking up optical quantities and parameters
7.34.0	Conductance meters	7.38.4.1	Optical sensors
72/0	Hairman and an element of an element district I for a trans-	7.38.4.2	Optoelectronic sensors
7.34.9	Universal analyzers of analog and digital LF systems	7.38.4.3	Sensors of light signal parameters in glass fibres
7.34.9.1	Universal measuring instruments	7.38.4.4	Picture sensors
70/40	T	7.38.4.5	Colour sensors
7.34.10	Instruments for measuring of voltage, current, resistance	7.38.4.99	Sensors for picking up optical quantities and parameters – other
	and output for HV		
7.34.11	Switchboard measuring instruments	7.38.5	Temperature and thermal power sensors
7.34.12	Oscilloscopes	7.38.5.1	Contactless temperature sensors
7.34.13	Electric meters	7.38.5.2	Thermal power sensors
7.34.14	Measuring bridges		
7.34.15	Measuring photoelectric instruments	7.38.6	Sensors for picking up magnetic quantities and parameters
7.34.16	Measuring amplifiers	7.38.6.1	Sensors for measuring of magnetic quantities
7.34.17	Measuring transducers	7.38.6.2	Magnetic field detectors
7.34.18	Harmonic distortion analyzers	7.38.6.3	Sensors of magnetic field parameters
7.34.19	Spectral analyzers of electric signals		
7.34.20	Signal analyzers	7.38.7	Humidity sensors
7.34.21	Electric network analyzers	7.38.7.1	Absolute humidity sensors
7.34.22	Local network cable analyzers	7.38.7.2	Relative humidity sensors
7.34.23	Phase meters	7.38.7.3	Liquid leak detectors
7.34.24	Attenuation level meters	. 130.7.3	
7.34.25	Noise meters	7.38.8	Sensors for picking up chemical quantities and parameters
7.34.26	Digital channel testers	7.50.0	consors for pressing up enemieur quantities una parameters
7.34.27	HF power meters	Measuring i	nstruments of physical quantities
7.34.28	Electronic component testers	rieasuring 1	instruments of physical qualitities
7.34.29	Digital integrated circuit testers	7 20 4	Management instruments for loweth and the stand
7.34.29	Logic analyzers	7.39.1	Measuring instruments for length, angle, thread
7.34.31	Data interface analyzers	7.39.1.1	Length meters
7.34.31		7.39.1.2	Angle meters
	Computer cards for PC logic analyzer	7.39.1.3	Thread gauges
7.34.33	Counters Electromagnetic compatibility test units (EMC)	7.39.1.4	Geometric shape measuring devices
7.34.34	Electromagnetic compatibility test units (EMC)	7.39.1.5	Position meters
7.34.35	Electronic generators	7.39.1.6	Electronic levels



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
7.39.3	Acceleration meters	7.39.		Systems and instruments for physical quantity calibration
7.55.5	necessian meters	7.39.		Testing and calibration measuring instruments and standards
7.39.4	Flow meters	7.55.		for physical quantities
7.39.4.1	Flow meters for liquids			jor physical qualities
	Water meters for cold water	7 20	00	Magazzina justyzmanta far athar physical navamators
7.39.4.2		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		_	ruments for chemical quantities
7.39.4.5	Gas meters (diaphragm, turbine)	7.40.	1	Measuring instruments for pH, redox potential
				and conductance
7.39.5	Measuring instruments of phenomenon abundance	7.40.		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.		Devices for fast chemical analysis
7.39.7.3	Pyrometers, infrapyrometers	7.40.		Instruments for measurements of chemical quantities – other
7.39.7.4	Temperature meters with thermocouples	71.701.		instruments for measurements of entimetal quantities of enti-
7.39.7.5	Resistance thermometers	7.41		Lacor magnifing instruments
		7.41		Laser measuring instruments
7.39.7.6	Measured temperature recorders		•	
7.39.7.7	Pointer thermometers			ems and instruments
		7.42.1	<u>l</u>	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		Gauges for mechanical engineering
7.39.8.3	Instruments for thermal analysis	7.42.2	2.2	Micrometers
7.39.8.4	Calorimeters	7.42.2	2.3	Inside micrometers
7.39.8.5	Heat meters			
		7.42.	2.4	Coordinate measuring devices and accessories
7.39.9	Optical measuring instruments	7.42.2	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	2.5	Measuring instruments for bearings
7.39.9.3	Luxmeters	7.42.2	2.6	Measuring instruments for gear wheels
7.39.9.4	Optoelectronic measuring instruments	7.42.2		Balancing machines
	Color meters	7.42.2		Operational balancing machines
7.39.9.5		7.42.2		Diagnostics of gears and bearings
7.39.9.6	Gloss meters	7.42.2		Vibration diagnostics
7.39.9.7	Optical sources with defined characteristics	7.42.2		Monitoring of rotary machine condition
		7.42.2		Surface roughness and roundness measuring devices
7.39.10	Force measuring instruments	7.42.2		Instruments for destructive and non-destructive testing of weld
		7.42.2		joinst
7.39.11	Pressure measuring instruments			Joinst
		7.42	,	Managemina instruments for sight anning spins
7.39.11.1	Gas pressure measuring instruments	7.42		Measuring instruments for civil engineering
7.39.11.1.1	Vacuum meters	7.42.	4	Measuring instruments for agriculture
			_	
7.39.11.2	Liquid pressure meters	7.42.		Measuring devices for plastics and rubbers
7.39.11.3	Dynamic pressure meters	7.42.5		Rheometers for measurements of rheological plastics properties
		7.42.5		Viscometers for plastics and rubbers
7.39.12	Mass, thickness, area meters	7.42.5	i . 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
7.59.12.2	Titting tevet sensors, tiquid tevet sensors	7.42.	7	Measuring instruments for metrology
7.39.13	Magging instruments and analyzous 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			,
7.39.14.1	Noise dosimeters	7.42.	99	Measuring instruments and systems for other branches
7.39.14.2	Sound level meters			
7.39.14.3	Noise monitoring instruments	Labor	atory and	scientific instruments
7.39.14.4	Hydroacoustic instruments	7.43.		Laboratory glass
7.39.14.5	Ultrasonic measuring instruments	7.43.		Laboratory china
		7.43.	_	
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. . 7.43.3		Titrators
7.39.17	Moisture measuring instruments	7.43.3	,.1	Titiators
		7.43		I aboratory thermometers
7.39.18	Measuring instruments of magnetic quantities	7.43.		Laboratory thermometers
7.39.18.1	Metal detectors	7.43.		Laboratory driers
55.10.1		7.43.	ס	Laboratory cooling equipment



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7.43.7	Lyophylizers (freeze driers)	7.43.37	Laboratory handling devices
7.43.8	Distilling and extraction devices	7.43.38	Laboratory cleaning machines
7.43.9	Emulgation, homogenization and dispersing equipment	7.43.39	Laboratory tools of precious metals
	for laboratories	7.43.40	Equipment for school laboratories, school measuring
7.43.10	Laboratory autoclaves		instruments
7.43.11 7.43.11.1	Climatic and temperature chambers for laboratories Thermostats	7.43.99	Laboratory and scientific instruments – other
7.43.12	Laboratory furnaces and accorporate	7.44	Laboratory furniture
.43.12	Laboratory furnaces and accessories	Instruments	for checking material properties and faults
7.43.13	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
		7.45.2.1	Material and layer thickness testing equipment
.43.20	Laboratory instrumentation	7.45.2.2	Surface roughness testing equipment
		7.45.2.3	Porosity testing equipment
.43.20.1	Laboratory analyzers	7.45.2.4	Roughness meters
.43.20.1.1	Polarographs	7.43.2.4	Rouginiess meters
.43.20.1.2	X-ray fluorescence equipment	7.45.3	Equipment for dynamic tasts of material properties
		7.45.5	Equipment for dynamic tests of material properties
43.20.2	Filtration instruments for laboratories	7 /5 0 4	Markett to the state of the sta
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
		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	7.45.3.9	Dilatometers
.43.22.2	Infra-red spectrometers		
.43.22.3	UV spectrometers	7.45.4	Material structure testing devices
.43.22.4	Atomic absorption spectrometers	7.45.4.1	Ultrasonic testing instruments
.43.22.5	Mass spectrometers	7.45.4.2	Non-destructive testing instruments (flaw/crack detection)
.43.22.6	Spark spectrometers		
.43.22.7	Spectrum database	7.45.4.3	Building material property testing equipment
		7.45.5	Material crack testing
.43.23	Laboratory microscopes	7.45.6	Pipeline, valve and tank leak testing
.43.23.1	Electron microscopes	7.45.7	Cable fault localization
.43.23.2	Infra-red microscopes		•
.43.23.3	Laser microscopes	7.45.8	Corrosion testing and analysis equipment
		7.45.8.1	Corrosion chambers
.43.24	Instruments for chromatography (liquid, gas, accessories)	71,5,5,1	
		7.45.9	Sun radiation effect testers
43.25	Diffractometers	7.45.9.1	Sun simulating chambers
43.25.1	Particle size analyzers	7.43.3.1	Sun simulating chambers
		7 / 5 10	Facilities and fact citizens affect tooking
.43.26	Refractometers	7.45.10	Equipment for vibration effect testing
.43.27	Spectrophotometers	7.45.10.1	Vibration chambers
.43.28	Colorimeters		
.43.29	Turbidity meters	7.45.11	Product testing equipment
.43.30	Metallography devices	7.45.11.1	Industrial X-ray devices
.43.31	High-pressure laboratory devices	7.45.11.2	Equipment for continuous quality checking in production
	- · ·	7.45.11.3	Testing equipment for the semiconductor and microprocessor
			- · ·
.43.32	Laboratory equipment for the petrochemical and oil industry		industries
	Laboratory equipment for the petrochemical and oil industry Devices for multicomponent analysis of oils and gases without	7.45.11.4	
	Devices for multicomponent analysis of oils and gases without	7.45.11.4 7.45.11.5	Testing equipment for the automotive industry
		7.45.11.5	Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering
.43.32.1	Devices for multicomponent analysis of oils and gases without separation	7.45.11.5 7.45.11.6	Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering Diagnostics of electric motors
.43.32.1	Devices for multicomponent analysis of oils and gases without	7.45.11.5 7.45.11.6 7.45.11.7	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
.43.32.1 .43.33	Devices for multicomponent analysis of oils and gases without separation Measuring instruments for interphase chemistry	7.45.11.5 7.45.11.6	Testing equipment for the automotive industry Testing equipment for products of heavy-current electrical engineering Diagnostics of electric motors
.43.33	Devices for multicomponent analysis of oils and gases without separation Measuring instruments for interphase chemistry Equipment for work with radioactive substances	7.45.11.5 7.45.11.6 7.45.11.7 7.45.11.8	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
.43.32.1 .43.33 .43.34 .43.34.1	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	7.45.11.5 7.45.11.6 7.45.11.7	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
.43.32.1 .43.33 .43.34 .43.34.1	Devices for multicomponent analysis of oils and gases without separation Measuring instruments for interphase chemistry Equipment for work with radioactive substances	7.45.11.5 7.45.11.6 7.45.11.7 7.45.11.8 7.45.99	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
.43.32.1 .43.33 .43.34 .43.34.1 .43.35	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	7.45.11.5 7.45.11.6 7.45.11.7 7.45.11.8 7.45.99	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
.43.32.1 .43.33 .43.34 .43.34.1 .43.35 .43.36	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	7.45.11.5 7.45.11.6 7.45.11.7 7.45.11.8 7.45.99	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
7.43.33 7.43.34 7.43.34.1 7.43.35 7.43.36 1.43.36.1	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 Laboratory material separators	7.45.11.5 7.45.11.6 7.45.11.7 7.45.11.8 7.45.99 Systems for	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
7.43.32 7.43.33 7.43.34 7.43.35 7.43.36 7.43.36.1 7.43.36.2 7.43.36.3	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	7.45.11.5 7.45.11.6 7.45.11.7 7.45.11.8 7.45.99 Systems for 7.46.1	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



7.46.4	Telemetric systems
7.46.5	Cables for measuring and laboratory devices
7.46.6	Measuring modules
7.46.7	Measuring PC cards
7.46.8	Software for data measuring and analysis
7.46.9	Measuring systems with data collection
7.46.99	Components of PC-based measuring system – other
7.40.33	components of the based measuring system. Other
7.47	Recording instruments
7.48	Electronic picture processing in measurements
7.48.1	Cameras for picture scanning
7.48.1.1	High-speed cameras
7.10.1.1	riigii speca caincias
7.48.2	Laser scanning devices
7.48.3	Technologies for digital picture archiving and analysis
	in measurements
7.80	Complete turnkey laboratory equipment
7.83	Technical drawing instruments and special drawing tools
7.88	Consultancy in measuring and laboratory technology
7.89	Engineering and design services in measuring
	and laboratory technology
7.90	Service and repairs of instruments for measuring
	and laboratory technology
7.91	Reworked laboratory and measuring technology
7.92	Materials testing services
7.94	X-Ray inspections
7.99	Instruments and equipment for measuring and laboratory
	technology — other

CIRCULAR ECONOMY

INTERNATIONAL FAIR FOR ENVIROMENTAL PROTECTION TECHNOLOGIES



	Air-conditioning equipment		Pumping stations
8.1.1 8.1.1.1	Components for air-conditioning equipment Air pipelines	Technologie	s for the treatment of drinking, service and technological water
		0.2.1	Design of control to a top of the
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		treatment
8.1.2.99	Fans – other	<i>8.3.6</i>	Screens and sieves for water treatment plants
		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
0.1.4.1	Electiostatic separators	8.3.8.5	Water desarting equipment Water decarbonization equipment
8.1.5	Solid particle filters	8.3.8.6	Water decalbonization equipment 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		
		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
8.1.8.2	Air heating	8.3.8.11	Equipment for water disinfection in treatment plants
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
0.1.0.	machines and production rooms	8.3.8.99	Chemical and physical water treatment – other
	macimos ana production rooms	0.0.0.55	onemeat and physical nater deadment of the
8.1.9	Equipment for separation of polluted gaseous substances	8.3.9	Treatment of household water
	from 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		
8.1.9.2	Adsorptive equipment for the purification of pollutant-loaded air	8.3.10	Auxiliary equipment and accessories for water treatment
8.1.9.3	Biological equipment for the removal of waste substances from	0.5.10	plants
0.1.5.5	pollutant-loaded air	8.3.11	Turn-key water treatment plants
8.1.9.4	Catalytic incineration equipment for pollutant-loaded air purity	8.3.12	Production of clean and ultra-clean water
8.1.9.5	Thermal equipment for pollutant-loaded air purity	0.5.12	Production of clean and attra-clean water
		0 2 00	Tachualam, fay the twenty-out of dividing assis
8.1.9.6	Condensation equipment for pollutant-loaded air purity	8.3.99	Technology for the treatment of drinking, service
8.1.9.6 8.1.9.7	Dust recycling equipment for working rooms	8.3.99	Technology for the treatment of drinking, service and technological waters – other
8.1.9.6 8.1.9.7 8.1.9.8	Dust recycling equipment for working rooms Oil and emulsion fog exhausting equipment		and technological waters – other
8.1.9.6 8.1.9.7	Dust recycling equipment for working rooms Oil and emulsion fog exhausting equipment Equipment for separation of polluted gaseous substances from	8.3.99 8.4	
8.1.9.6 8.1.9.7 8.1.9.8	Dust recycling equipment for working rooms Oil and emulsion fog exhausting equipment	8.4	and technological waters – other Water reservoirs, tanks
8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99	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	8.4	and technological waters – other
8.1.9.6 8.1.9.7 8.1.9.8	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	8.4 Technology	and technological waters – other Water reservoirs, tanks
8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99	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	8.4	and technological waters – other Water reservoirs, tanks
8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99	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	8.4 Technology	and technological waters — other Water reservoirs, tanks for sewage water treatment plants
8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99	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	8.4 Technology	and technological waters — other Water reservoirs, tanks for sewage water treatment plants
8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99	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	8.4 Technology 8.5.1	and technological waters – other Water reservoirs, tanks for sewage water treatment plants Design of sewage water treatment plants
8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99 8.1.10 8.1.11	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	8.4 Technology 8.5.1 8.5.2	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
8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99 8.1.10 8.1.11	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	8.4 Technology 8.5.1 8.5.2 8.5.2.6	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
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	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	8.4 Technology 8.5.1 8.5.2 8.5.2.6 8.5.2.99	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
8.1.9.6 8.1.9.7 8.1.9.8 8.1.9.99 8.1.10 8.1.11	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	8.4 Technology 8.5.1 8.5.2 8.5.2.6	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
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	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	8.4 Technology 8.5.1 8.5.2 8.5.2.6 8.5.2.99 8.5.3	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
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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	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	8.4 Technology 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	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



INTERNATIONAL FAIR FOR ENVIROMENTAL PROTECTION TECHNOLOGIES

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
	treatment plants		
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 guass 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
			4. 1 12 . 2
Sewage water	treatment plants	8.20.7	Waste storage
Januage mater		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	8.20.7.2	Geotextiles
8.10.3			
8.10.3	Complete deliveries of sewage treatment plants	8.20.7.4	Insulation and sealing films and materials for dumping
0.44		0.00.7.5	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
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	8.20.7.10	Operation of dumping sites
	equipment		
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 process	sing and utilization	8.20.11	Advisory service for waste disposal
musta process	55 a a	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
	Containers for the collection of industrial waste	8.20.16	Reduction of waste production
8.20.1.3		0.20.10	Reduction of waste production
8.20.1.4	Containers and barrels for the collection of hazardous waste	0.00.00	
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	Environment	t-friendly technologies for and industry
8.20.1.10	Transport equipment for waste transportation	8.22.1	Alternative power sources
8.20.1.11	Complete programme for storing and handling of hazardous	8.22.2	Energy-saving devices and technologies
	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		- Industry other
8.20.2.2	Hydraulic shears	Removal of	old environmental burden and consequences
	Cutting mills	of ecologica	
8.20.2.3	•	8.25.1	
8.20.2.4	Waste crushers	0.23.1	Equipment for the detection of contaminants
8.20.2.5	Bulk transport conveyers and waste feeders	0 25 2	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
			contamination

CIRCULAR ECONOMY

INTERNATIONAL FAIR FOR ENVIROMENTAL PROTECTION TECHNOLOGIES



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
	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	8.50.4.2	Accredited water analyses
	incidents	8.50.4.3	Accredited analyses of emissions and air pollution
8.25.16	Decontamination projects	0.501.1.5	rical curious analysis of circustons and an policion
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 reduc	tion	8.50.99	Literature, services, research, environmental organisations –
8.30.1	Soundproof insulation materials	0.50.55	other
8.30.2	Sound protection absorption walls and panels		outer
8.30.3	Sound protection booths, sheaths, walls, barriers	Circular eco	nomy
8.30.4	Sound mufflers	8.60. 1	Recycling of water, nutrients and energy
8.30.5	Impact and vibration suppressors	0.00. 1	contained in it
8.30.6	Soundproof windows	8.60. 2	Recirculation of water in enterprises
8.30.7	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
Instrumenta	ation 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	8.60. 9	New building materials
8.33.4	Instrumentation for noise and vibration measurements	0.00. 9	Circular aconomy systems for waste management

Machines for industrial cleaning and washing

Instrumentation for soil analysis Monitoring in the environmental sector

Complex equipment of laboratories

Production of measuring devices for the environmental sector

Hardware and software for environmental protection

Communication engineering for data transmission

Instrumentation for environment control other

Accredited test laboratories

8.33.5

8.33.6 8.33.7

8.33.8 8.33.9

8.33.10

8.33.11

8.33.99

8.40.1 8.40.2	Cleaning machines 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 8.40.5	Sweeping and floor washing machines Machines for the cleaning of roads and airports
8.40.99	Machines for industrial cleaning and washing – other

Literature, services, research, environmental organizations

8.50.1 Literature and periodicals on the environment

Environmental	services
LIIVIIOIIIIIEIILUL	JEI VICES

8.50.2.1	Elaboration of environmental audits
8.50.2.2	Energy audit elaboration
8.50.2.3	Risk analysis
8.50.2.4	Investigation of environmental burden
8.50.2.5	Dispersion studies
8.50.2.6	Assessment of project impact on the environment
8.50.2.7	Expert opinions for the State Environmental Fund

Circular econo	omy
8.60. 1	Recycling of water, nutrients and energy contained in it
8.60. 2	Recirculation of water in enterprises
8.60. 3	Application of greywater in construction
8.60. 4	Rain water management systems
8.60. 5	Energy self-sufficient systems for households
8.60. 6	New energy sources
8.60. 7	Biogas stations of a new generation
8.60.8	Circular economy systems for civil engineering
8.60. 9	New building materials
8.60.10	Circular economy systems for waste management
8.60.11	Innovative sorting systems
8.60.12	New waste recycling technologies
8.60.13	Materials from waste in general
8.60.14	Materials from waste flows
8.60.15	Products from secondary raw materials
8.60.16	Digital technologies in circular economy
8.60.17	Smart systems for effective source usage control
8.60.18	Refurbishment and repair systems
8.60.19	Circular economy services
8.60.20	Consultancy in the field of circular economy
8.60.21	Rent of systems and equipment in circular economy
8.60.22	Circular economy research and development
8.60.23	Other circular economy



9.2.30

Quality control

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

Science and research		9.2.31	Operation and equipment control
9.1.1	Basic and applied research	9.2.32	FM (Facility Management) services
9.1.1.1	Research in the field of raw materials and power resources	Organisation	ns, institutions
9.1.1.2	Research in the field of materials	9.2.33.1	State authorities, governmental institutions
9.1.1.3	Research in the field of nanotechnologies	9.2.33.1	State authorities, governmental institutions
	5	9.2.33.2	Non covernmental institutions
9.1.1.4	Research in the field of physics		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, fi	nancial, advertising and other services, institutions		ustrial real estates and localities, regional development
		9.3.1	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
9.2.4	Financing	9.3.5	Offer of development localities for industrial construction
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
			Business and investment activities – other
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		
9.2.10	Securing import – export		
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		
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		
Advartising o	and 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		
9.2.28	Technical services		
9.2.29	Testing		

11th INTERNATIONAL FAIR FOR TRANSPORT AND LOGISTICS



10.1	Ships	Transport an	d lift trucks
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		, and the second
		10.6.4	Gas-operated trucks
10.2.4	Airport equipment	10.6.5	I.C. engine equipped trucks
10.2.4	An pore equipment	10.6.6	Driverless trucks, induction trucks
Rail vehicle	•	10.0.0	brivertess tracks, maaction tracks
Kait Veilicle	:5	10.6.7	Attachments for transport trucks
10 2 1	Doube and accessive for mill webbles		•
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		
10.3.5	Undercarriages	Transport e	quipment
10.3.6	Tramways		
10.3.90	Overhauls, upgrading and reconstructions	10.8.1	Parts and accessories of transport equipment
	of rail vehicles	10.8.1.1	Conveyer parts and accessories
10.3.91	Turnouts and superstructures		
		Conveyers fo	or loose materials transport
Cranes		10.8.2.1	Band conveyers
Cianes		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	101013133	conveyers for tamp materials transport out to
10.4.8	Jib cranes	10.8.4	Pneumatic transport
10.4.9	Bracket cranes	10.8.99	Transport equipment – other
		10.0.99	nansport equipment – other
10.4.10	Erecting cranes	40.0	D
10.4.11	Grab cranes	10.9	Rope conveyers
10.4.12	Telescopic cranes		
10.4.13	Cable cranes	Handling e	quipment
10.4.14	Rotary cranes		
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	10.10.1.2	Hydraulic arms
10.4.90	Overhauls, upgrading and reconstructions of cranes		
10.4.99	Cranes – other	10.10.2	Equipment for loading and unloading loose materials
Lifting med	chanisms	10.10.3	Transport means
		10.10.3.1	Pallets
10.5.1	Pulley blocks	10.10.3.2	Pallet superstructures
10.5.1.1	Rope pulley blocks	10.10.3.2	Storing cases
10.5.1.1	Chain pulley blocks	10.10.3.4	Crates
10.5.1.2	chair puttey blocks		Rolltainers
10 5 3	Inde	10.10.3.5	
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		3 3 3 3 3 3 3 3 3 3
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
10.5.11	Lifting mechanisms – other	10.10.5.1	Sanating equipment
10.3.33	Enting mechanisms – vuici		



11th International fair for transport 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	Binding equipment	10.15.8	Warehouse fire and explosion security
10.10.5.3.1	Chain, textile and rope binding means	10.15.99	Storing technology and operation equipment – other
10.10.5.4	Baling presses		
10.10.5.5	Handling equipment contour checking devices	10.16	Industrial gates, bolts, automatic and turnstile doors
10.10.5.9	Machines for adjusting handling equipment – other	10.16.1	Gate packings and screens
10.10.6	Single purpose and municipal vehicles with superstructures	10.17	CAD, CAM, CIM in transport, handling and assembly
			technology
	Handling aids	10.18	Engineering and design services in transport, handling
10.10.7.1	Hand clamps		and assembly technology
10.10.7.2	Vacuum, magnetic suction equipment	C	
10.10.7.3	Crowbars		repairs 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	Construction for transport the addison and accomply to should an
10.10.7.6	Rolling undercarriages	10.19.2	Spare parts for transport, handling and assembly technology
10.10.7.7	Lifting wheels	10.19.2.1	Travelling wheels and rollers
10.10.7.8	Stands	10.19.2.2	Tyres for transport and handling equipment
10.10.7.9	Steps	40 40 3	December of the second consensation to the second the efficient
10.10.7.10	Ladders	10.19.3	Reconstructions and upgrading in transport, handling
10.10.7.99	Handling aids – other		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		technology
10.11	Scaffolds	10.21.1	Technological projects for transport, handling and assembly 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 n	nachines and equipment		and assembly technology
		Packaging ma	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
10.13.3.1	Benches for assembly lines		
		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 equipment	10.23.4	Marking machines and equipment for packaging
		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	Assembly and handling robots for industrial production		for the industry – other
10.14.1	Robot peripherals and accessories	Sarvicas by	y carriers and forwarding agents
Storing tec	hnology and operation equipment	Services by	y carriers and forwarding agents
	20 m m - h - m - r dark	10.24.1	Domestic freight traffic
10.15.1	Shelves	10.24.2	International freight traffic
10.15.1.1	Pallet shelves		-
10.15.1.2	Rack shelves	10.24.3	Special loads transport
10.15.1.3	Bracket shelves	10.24.3.1	Transport of heavy and oversize loads
10.15.1.4	Paternoster shelves	10.24.3.2	Transport of dangerous loads based on ADR
10.15.1.5	Pull-out shelves for long materials		· -
10.15.1.6	Mobile shelves	10.24.4	Tubular transport
10.15.1.7	Library, archives and office shelves	10.24.5	City logistics
10.15.1.8	Storing and wardrobe systems	10.24.6	Storage rooms and storing services
- · · · -	3	10.24.7	Packing of transport consignments
10.15.2	S/R machines (storage and retrieval machines)	10.24.8	Forwarding services
10.15.3	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

10.28.4

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10.24.99	Services by carriers and forwarding agents – other
Erojaht tormi	ande
Freight termi	
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 t	ransport
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
10.27.1	Bar code printers
10.27.1.1	bai 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	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	Navigation systems
10.27.8	Systems for tracing vehicle movement
10.27.9	Satellite systems for truck traffic control
10.27.10	Geographic information systems (GIS)
10.27.11	Software for transport, storage and materials handling
10.27.11.1	Application software for transport and forwarding
10.27.11.2	Application software for provisioning
10.27.11.2.1	Software for controlling material and commodity flows
40.07.44.0	
10.27.11.3	Application software for managing storage rooms
10.27.11.4	WMS (Warehouse Management Systems) for real time
	management
10.27.11.9	Software for transport, storage and materials handling – other
10.27.12	Software for label printing
10.27.13	Software for enterprise resource planning – ERP
10.27.13.1	Software for Business Intelligence (BI)
10.27.13.2	Software for supply chain management – SCM
10.27.13.3	Software for customer relationship management – CRM
10.27.13.4	Software for order flow management and for production
	automation
10.27.99	Telematics, communication, information and control systems for logistics – other
	systems for togratics = other
Literature. co	nsultancy, training, service in transport and logistics
10.28.1	Professional literature and periodicals for transport
	and logistics
10.28.2	Technical information in logistics
10 28 3	Consultancy in transport and distribution

Consultancy in transport and distribution

10.28.3

10.28.5	Consultancy in dangerous loads transport
10.28.6	Drivers' training
10.28.7	Services for railway engineering
10.28.8	Consultancy in organizing assembly lines
10.28.9	Logistic system audit
10.28.10	Training, education and requalification in logistics and transport
10.28.11	Customer solutions of storing equipment
10.28.12	Design of logistic systems
10.28.13	Reengineering of logistic systems
10.28.14	Outsourcing of logistic systems
10.28.15	Turnkey supplies of logistic systems
10.28.16	Finance and insurance in logistics and transport
10.28.17	Information and service equipment for passengers' transport
10.28.18	Security services in storage and transport
10.28.99	Literature, consultancy, training, service in transport and logistics – other
10.29	Research and development in logistics and transport
10.30	Organizations, associations, unions for logistics and transport

Consultancy in customs affairs



MACHINE-TO	ni c	11.1.5.5	Vertical bed type milling machines
MACHINE-10	UL3	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
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11.1.1.11	Watchmakers' lathes	11.1.5.18	Slot and keyway milling machines
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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	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	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 11.1.9.2 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	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 and broaching machines Planing, shaping 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
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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 11.1.4.3 11.1.4.5 11.1.4.6 11.1.4.7	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 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) 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 11.1.8.10 11.1.8.11 11.1.8.12 11.1.8.99 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 11.1.10.1	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 – other Sawing, filing and abrasive cutting-off machines Band sawing machines Gircular 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 11.1.3.11 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	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 11.1.8.10 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 11.1.9.99 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 Surface broaching machines Surface broaching machines Transfer broaching machines Broaching machines Broaching machines Planing, shaping and broaching machines Planing, shaping, slotting and broaching machines Band sawing 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 (with adjustable wheelhead) Horizontal surface-grinding machines with rotary table
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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 11.1.4.4 11.1.4.5 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 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 11.1.8.99 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 11.1.9.99 11.1.10.1 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 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 Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Circular sawing machines Circular sawing machines Citting-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) Horizontal 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 11.1.4.3 11.1.4.4 11.1.4.5 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 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) 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 11.1.8.99 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 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 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 Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Circular sawing machines Circular sawing machines Cirting-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
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 11.1.4.4 11.1.4.5 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 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) 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 11.1.8.99 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 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 11.1.10.6 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 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 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)
11.1.2.9 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 11.1.4.4 11.1.4.5 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 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) 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 11.1.8.99 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 11.1.9.99 11.1.10.1 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 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 Planing, shaping, slotting and broaching machines Band sawing machines Gircular sawing machines Circular sawing machines Circular sawing machines Cirting-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



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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 11.1.11.13	Camshaft grinding machines	11.1.16.3	Snark arasian machina tagle	
	Crankshaft grinding machines Valve grinding machines	11.1.16.3	Spark erosion machine tools Spark erosion sinking machines	
11.1.11.14 11.1.11.15	Piston grinding machines	11.1.16.3.1	Spark erosion cutting machines	
11.1.11.15	Axle journal grinding machines	11.1.16.3.2	Spark erosion boring machines	
11.1.11.17	Roller bearing race grinding machines	11.1.10.5.5	Spair elosion bonnig machines	
11.1.11.18	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	
1111111111	cimany macinics special control	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		3	
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	
11.1.12.6	Cutter and reamer sharpening machines			
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11.1.12.7 11.1.12.8	Sharpening machines for saw blades Gear cutting tool sharpening machines			
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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
		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	11.2.8.18	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)
			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	es ·
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 0 0	Chart and in a section of the contract		
11.2.8	Sheet working machines, laser based equipment		
11.2.8.1	Sheet metal machining centers, incl. laser based machines		
11 0 0 0	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		

METAL-WORKING AND FORMING MACHINES, TOOLS



QUALITY CONTROL IN METAL-WORKING AND FORMING SECTOR

11.4.1	Massuring and chasting instruments for machining
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 11.4.1.8	Noise level measuring instruments Temperature measuring instruments for machining
11.4.1.0	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	Profile and shape measuring instruments
11.4.1.13	Thread measuring instruments
11.4.1.14 11.4.1.15	Circularity measuring instruments Gauges and meters for machining and forming
11.4.1.16	Measuring and testing devices, machining and forming
111,11110	standards
11.4.1.17	Mechanical precision measuring instruments
	for machining and forming
11.4.1.18	Optical precision measuring instruments
11 / 1 10	for machining and forming
11.4.1.19	Electric precision measuring instruments
11.4.1.20	for machining and forming Electronic precision measuring instruments
11.4.1.20	for machining and forming
11.4.1.21	Pneumatic precision measuring instruments
	for machining and forming
11.4.1.22	Laser measuring instruments for machining and forming
11.4.1.23	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 Digital read out systems
11.4.1.26 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
11.4.2	Measuring machines
11.4.2.1	Measuring and marking machines
11.4.2.2	Computerized measuring machines for machining 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 11.4.2.10	Measuring projectors Coordinate and multicoordinate measuring machines
11.4.2.11	Systems for 3D scanning
11.4.2.12	Measuring machine accessories
	j
11.4.3	Testing machines for machining and forming sector
11.4.3.1	Testing machines for tension, compression, bending
44 (2 2	and other features
11.4.3.2	Tension testing machines
11.4.3.3 11.4.3.4	Pendulum impact testing machines Drop hammers for material testing
11.4.3.4	Hardness testing machines and devices
11.4.3.6	Spring testing machines
11.4.3.7	Material fatigue testing machines
	(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 11.4.3.12	Gear testing machines Balancing machines for machining and forming
11.7.3.16	bacaneing 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 in machining and forming sector
11.4.5.2	Software for acquisition of measured non-electrical 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
11.7.3.3	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 in machining and forming sector
11.4.99	Quality control for machining and forming sector – other



FLEXIBLE MA	ANUFACTURING SYSTEMS (FMS)	11.5.4	Electrical and electronic equipment for machine tools and metal forming machines
11.5.1	Computer systems and peripherals for flexible	11.5.4.1	Electric motors for machine tools and forming machines
	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 systems	11.5.4.4	Rectifiers for electrical and electronic equipment of machine 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 manufactur-	11.5.4.13	Flexible control and power-supply cables for flexible
	ing systems – other	44 5 7 4 7	manufacturing systems
44.5.0		11.5.4.14	Electric control panels and cubicles in flexible
11.5.2	Software for flexible manufacturing systems	44 5 / 45	manufacturing systems
44.5.0.4	CAD/CAM authors for marchine to all and match forming	11.5.4.15	Electrical equipment for induction heating plants
11.5.2.1	CAD/CAM systems for machine tools and metal forming machines	11.5.4.99	Electric and electronic equipment for machine tools and metal
11.5.2.1.1			forming machines – other
11.5.2.1.1	CAD/CAM systems for machine tools CAD/CAM systems for metal forming machines	11.5.5	Assembling and industrial robots in flexible
11.5.2.1.2	CAD/CAM systems for metal forming machines	11.5.5	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
11.512.5	and heat balance by the finite-element method	11.5.5.5	Modular units for assembling systems
11.5.2.6	Software for electrical design	11.5.5.6	Handling equipment for warehousing, input and delivery of
11.5.2.7	Software for production planning and management		workpieces, semi-products in flexible manufacturing systems
	in flexible manufacturing systems	11.5.5.7	Handling equipment for aligning and positioning
11.5.2.8	Software for flexible assembling systems		of workpieces
11.5.2.9	Software for operating data processing in flexible	11.5.5.8	Feeding equipment for machine tools
	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
	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	11.5.6.1	for machining and forming
11 5 0 16	manufacturing systems	11.5.6.1	Conveying systems for machining and forming
11.5.2.16	Software for warehousing and conveyor systems in flexible manufacturing systems	11.5.6.2 11.5.6.3	Conveyers for workpieces for machining and forming Driverless ground conveyors for machining and forming
	manufacturing systems	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
11.3.2.33	Solution for treatible manufacturing systems – other	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
		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		
	machines	11.5.99	Flexible manufacturing systems – other
11.5.3.8	Actuators		
11.5.3.9	Heavy-duty electronics for machine tool and metal working		
	machine control and drives		
11.5.3.99	Control and drives – other		
11.3.3.33	Control and unives — other		



PRECISION T	0015	11.6.3	Chucking tools
I KECISION I	0025	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 Milling cutters and gear shaping cutters, disc-type	11.6.3.9	Lathe chucks, power operated Centers, carriers for lathes
11.6.1.8 11.6.1.9	Countersinks and core drills	11.6.3.10	·
		11.6.3.11	Expanding mandrels
11.6.1.10	Circular saw blades, incl. metal carbide discs and tips Metal hacksaw blades	11.6.3.12	Magnetic chucks
11.6.1.11		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
11.6.1.22	Fine boring tools	11.6.3.24	Chucking systems, incl. modular
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		
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
11.0.1.55	machine tools		
11 6 1 27		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
		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	Knurling tools	11.6.4.22	Spherical turning attachments
11.6.2.9	Thread rolling dies	11.6.4.99	Tool 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		
11.6.2.18	Die-casting dies		
	Guide racks		
11.6.2.20			
11.6.2.21	Standardized parts for forming tools and moulds (punching, stamping tools, posts, sleeves)		
11 6 2 22	., , , , , , , , , , , , , , , , , , ,		
11.6.2.22	Wedge units		
11 6 2 00	Forming tools other		
11.6.2.99	Forming tools – other		



ACCESSORIE	S 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
	machines	11.7.3.24	Compressed air conditioning unit
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
11.7.1.8	Spraying attachment for forging machines	11.7.5.52	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
11.7.1.10	Coolant noses	11.7.5.54	by polymerized concrete
11 7 2	Wasta dispasal in machining and forming sastar	11 7 2 25	• • •
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		
11.7.2.8	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		
	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		
	and metal forming machines		
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		
	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		
11.7.5.10	machines		
11.7.3.17	Hydraulic power units, pumps, motors, cylinders, drives, assemblies		
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		



REWORKED I	D REPAIRS OF MACHINE-TOOLS AND FORMING MACHINES, MACHINES	AND FORMING	S, LITERATURE AND SERVICES IN METAL-WORKING G SECTOR
11.8.1 11.8.2	Spare parts for machine tools Spare parts for forming machines	11.11.1	Associations, organizations in metal-working and forming sector
11.8.3	General overhauls of machine tools and forming	11.11.2	Technical publishing houses, literature, specialized periodicals
	machines		
11.8.3.1 11.8.3.2	General overhauls of machine tools General overhauls of metal forming machines	11.11.3	Consultancy in the field of machine tools and metal-forming machines
11.8.4	Redesign and upgrading of machine tools and metal forming machines	11.11.4	Engineering and design services in the field of machine tools and metal-forming machines
11.8.4.1	Upgrading of el. equipment of machine tools and metal forming machines	11.11.4.1	Engineering and design services in the field of machine tools
11.8.4.2	Upgrading of peripheral units for NC and CNC machines	11.11.4.2	Engineering and design services in the field
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	Taskuslanias for motal marking and forming
11.8.5	Reworked machine tools	11.11.5	Technologies for metal working and forming
11.8.6	Reworked metal forming machines	11.11.6	Custom manufacture of single-purpose machine
11.8.99	Service and repairs of metal working and forming machines,	11.11.6.1	tools and metal forming machines Custom manufacture of single-purpose machine tools
11.0.99	reworked machines – other	11.11.6.2	Custom manufacture of single-purpose metal forming
Hand-operate		11111012	machines
11.9.1	Pneumatic hand-operated tools	11.11.7	Execution of investments in the field of metal working and forming
11.9.1.1	Hand-operated pneumatic drills	11.11.8	Business services in the field of machine tools
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	11.11.9	Leasing of metal working and forming machines
11.9.1.4	Hand-operated pneumatic grinding machines, angle grinders and polishing machines	11.11.10	Custom coating of metal cutting and forming tools
11.9.1.5	Hand-operated pneumatic shears	11.11.11	Custom tool renovation and reconditioning
11.9.1.6 11.9.1.99	Manual pneumatic rivet guns Hand-operated pneumatic tools and accessories – other	11.11.11.1	Compression mould refurbishment
	·	11.11.12	Reverse engineering services
11.9.2	Electric hand-operated tools, incl. cordless programme	11.11.13	Custom rapid prototyping
11.9.2.1	Hand-operated electric drills and hammers		
11.9.2.2	Hand-operated electric grinders, angle grinders and polishing machines	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
11.9.2.4	Hand-operated electric nut runners, screwdrivers and threading machines	11.11.14.2	Custom sheet-metal processing
11.9.2.5	Hand-operated electric staplers	11.11.14.3	Custom metal-working manufacturing
11.9.2.6	Manual electric rivet guns		
11.9.2.7	Microtools	11.11.14.4	Offer of production capacities in the metal
11.9.2.99	Hand-operated electric tools and sets – other	11 11 1/ / 1	working sector
		11.11.14.4.1	Custom CNC machining 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
11.9.5	Mobile and suspension hand-operated tools	11.11.14.4.5	Custom piece polishing
11.9.99	Hand-operated tools and parts – others	11.11.14.5	Offer of production capacities in the metal forming sector
	mechanized tools		
11.10.1	Hand hammers	11.11.99	Services in the sector of metal working and forming – other
11.10.2	Pliers, alligator wrenches		
11.10.3	Manual deburring tools, files Chisels, axes	11.99	Metal working and forming machines, manual tools,
11.10.4 11.10.5	Screwdrivers		others
11.10.5	Wrenches, torque wrenches		
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		
11.10.12	Cases and bags for tools		
11.10.99	Manual non-mechanized tools – other		



FOUNDRY INDUSTRY

CHARGE RAW M	NATERIALS FOR FOUNDRIES	12.9.1.6	Equipment for manufacturing shell moulds
12.1.1	Pig irons	12.9.1.7 12.9.1.8	Equipment for vacuum hardening of moulds (V-process) 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		
12.1.5	Alloying additives	12.9.2	Equipment of core shops
12.1.5.1	Feroalloys	12.9.2.1	Shooting machines
	·	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	1205	and core shops
		12.9.5	Auxiliary materials and accessories for risers
REFRACTORY M		EULINDDA WEI	LTING AND HOLDING FURNACES
12.3.1	Non-shaped refractory materials	FUUNDKT MEI	LITING AND HOLDING FORNACES
12.3.2	Shaped refractory materials, shaped pieces	12 10 1	Farmedur, fired basets of frameses
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 alactric furnaces
12.3.5	Chemical raw materials and additives for manufacturing	12.10.2	Foundry electric furnaces
	refractory products	12.10.2.1	Foundry induction crucible and channel-type furnaces
12.3.99	Refractory materials – other	12.10.2.2	(low and mid frequency) Foundry arc furnaces
		12.10.2.2	Foundry resistance furnaces
12.4	TECHNICAL GASES FOR FOUNDRY INDUSTRY	12.10.2.3	roundry resistance furnaces
		12.10.3	Foundry vacuum furnaces
PATTERN MAKII	NG EQUIPMENT	12.10.3	Foundry plasma furnaces
		12.10.5	Foundry electron-beam furnaces
12.5.1	Pattern making equipment (patterns, core boxes, sweep	12.10.5	roundry electron beam furnices
12.5.1.1	patterns) Pattern making equipment from wood	12.10.6	Accessories of foundry furnaces
12.5.1.1	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	12.10.99	Foundry melting and holding furnaces – other
12.5.1.99	patterns) – other		
	patterns) other	CASTING MAC	HINES AND EQUIPMENT, ACCESSORIES
12.5.2	,		
12.5.2	Machines and aids for manufacturing pattern making equipment	12.11.1	Casting machines and equipment
12.5.2 12.5.3	Machines and aids for manufacturing pattern making	12.11.1 12.11.1.1	Casting machines and equipment Pouring ladles
	Machines and aids for manufacturing pattern making equipment Manufacturing patterns with the help of Rapid Prototyping System	12.11.1 12.11.1.1 12.11.1.2	Casting machines and equipment Pouring ladles Machines and equipment for tipping and gravity casting
	Machines and aids for manufacturing pattern making equipment Manufacturing patterns with the help	12.11.1 12.11.1.1 12.11.1.2 12.11.1.3	Casting machines and equipment Pouring ladles Machines and equipment for tipping and gravity casting Machines and equipment for low-pressure casting
12.5.3 12.5.4	Machines and aids for manufacturing pattern making equipment Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment	12.11.1 12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4	Casting machines and equipment 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	Machines and aids for manufacturing pattern making equipment Manufacturing patterns with the help of Rapid Prototyping System	12.11.1 12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5	Casting machines and equipment 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	Machines and aids for manufacturing pattern making equipment Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment R MOULDING AND CORE MIXTURES	12.11.1 12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6	Casting machines and equipment 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	Machines and aids for manufacturing pattern making equipment Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment	12.11.1 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	Casting machines and equipment 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	Machines and aids for manufacturing pattern making equipment Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment R MOULDING AND CORE MIXTURES	12.11.1 12.11.1.1 12.11.1.2 12.11.1.3 12.11.1.4 12.11.1.5 12.11.1.6	Casting machines and equipment 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	Machines and aids for manufacturing pattern making equipment Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment R MOULDING AND CORE MIXTURES Grog Binders	12.11.1 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	Casting machines and equipment 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	Machines and aids for manufacturing pattern making equipment Manufacturing patterns with the help of Rapid Prototyping System Materials for manufacturing pattern making equipment R MOULDING AND CORE MIXTURES Grog Binders Inorganic binders	12.11.1 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	Casting machines and equipment 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
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12.5.3 12.5.4 MATERIALS FOR 12.6.1 12.6.2 12.6.2.1 12.6.2.2	Machines and aids for manufacturing pattern making equipment 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	12.11.1 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	Casting machines and equipment 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	Machines and aids for manufacturing pattern making equipment 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	12.11.1 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	Casting machines and equipment 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
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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	Machines and aids for manufacturing pattern making equipment 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 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 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 12.11.2.2 12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.3.99	Casting machines and equipment 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
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	Machines and aids for manufacturing pattern making equipment 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 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	12.11.1 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 12.11.3.1 12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99 12.12	Casting machines and equipment 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
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	Machines and aids for manufacturing pattern making equipment 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 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	12.11.1 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 12.11.3.1 12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99 12.12 12.13 12.13.1	Casting machines and equipment 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
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	Machines and aids for manufacturing pattern making equipment 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 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 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 12.11.3.1 12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99 12.12	Casting machines and equipment 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 12.9.1	Machines and aids for manufacturing pattern making equipment 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 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 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 12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99 12.12 12.13 12.13.1 12.13.1 12.13.1	Casting machines and equipment 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 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 12.7.1 12.7.2 12.7.3 12.7.3.1 12.8 EQUIPMENT OF 12.9.1 12.9.1.1	Machines and aids for manufacturing pattern making equipment 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 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 Automatic flaskless moulding lines and their accessories	12.11.1 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 12.11.3.1 12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99 12.12 12.13 12.13.1	Casting machines and equipment 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 12.7.2 12.7.3 12.7.3 12.7.3.1 12.8 EQUIPMENT OF 12.9.1 12.9.1.1 12.9.1.2	Machines and aids for manufacturing pattern making equipment 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 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 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 12.11.3.1 12.11.3.1 12.11.3.2 12.11.3.3 12.11.99 12.12 12.13 12.13.1 12.13.1 12.13.1	Casting machines and equipment 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 and accessories

FOUNDRY INDUSTRY



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
12.16	AIR CONDITIONING FOR FOUNDRIES	12.24.6	in the foundry industry Refurbishment and modernization of machines
12.17	TRANSPORT AND STORAGE EQUIPMENT FOR THE FOUNDRY	1212-110	and equipment in the foundry industry
12.18	INDUSTRY ROBOTS, MANIPULATORS, HANDLING EQUIPMENT	12.24.7	Overhauled machines and equipment for the foundry
12.10	AND THEIR ACCESSORIES FOR THE FOUNDRY INDUSTRY	12.24.8	industry Manufacturing of prototype and single-purpose equipment
12.19	CONTROL AND REGULATION TECHNOLOGY FOR THE	12.24.0	for the foundry industry
	FOUNDRY INDUSTRY	12.24.9	Technology for the foundry industry
12.20	MEASURING AND TESTING TECHNOLOGY FOR THE FOUNDRY	12.24.10	Execution of investment projects for the foundry industry
	INDUSTRY	12.24.11	Professional literature, periodicals in area of the foundry
12.21	COMPUTER EQUIPMENT, CONTROL, CALCULATIONS,		industry
12.21	SIMULATION	12.24.12	Institutions and organizations in area of the foundry industry
12.21.1	CAD, CAM, CIM FOR THE FOUNDRY INDUSTRY	12.24.13	5
		12.24.13	Vocation schools in area of the foundry industry
12.22	ENVIRONMENT PROTECTION AND WASTE DISPOSAL IN THE FOUNDRY INDUSTRY WASTE	12.24.14	Professional courses and education in area of the foundry industry
CASTINGS		12.24.99	Research, services, literature, institutions for foundry industry
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		

12.23.4.7 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

12.23.1.4

12.23.1.5 12.23.1.6

12.23.1.7

12.23.2 12.23.2.1

12.23.2.2

12.23.3 12.23.3.1

12.23.3.2

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12.23.4.2 12.23.4.3

12.23.4.4

12.23.4.5 12.23.4.6

12.23.99

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

Castings - other

Compacted graphite cast iron castings

Nonferrous metal and alloy castings

Castings of other nonferrous metals and alloys

Castings for the chemical and petrochemical industries

Castings for selected branches of industry and end consumption Castings for the automotive industry

Castings for agricultural machines

Castings for the food processing industry
Castings for building industry

Castings for general engineering

White cast iron castings

Steel castings

Carbon steel castings

Aluminium alloy castings

Magnesium alloy castings

Copper alloy castings

Zinc alloy castings

Alloy steel castings

Hardened cast iron castings Alloyed cast iron castings

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



13.8.4

WELDING

13.1	FLAME WELDING, SURFACING AND OXYGEN CUTTING MACHINERY AND EQUIPMENT	WELDING CON 13.9.1	MPONENTS, MACHINERY AND EQUIPMENT – OTHER Exhaust and filtration equipment for welding areas
12.2	ADC WEI DING SUDEACING ANG CUTTING	13.9.2	Work protection aids (masks, goggles, working and
13.2	ARC-WELDING, SURFACING ANG CUTTING MACHINERY AND EQUIPMENT	13.9.3	protective garments, etc.) Tools, fixtures and elements of machinery and equipment
13.2.1	Hand-operated welding, surfacing and cutting machinery and equipment	13.9.3	for welding and related technologies (pneumatic, hydraulic elements, etc.)
13.2.2	Machinery and equipment for gas shielded electric arc	13.9.4	Machinery and equipment for treating welded structures
13.2.3	welding and surfacing (MIG, MAG) Inert gas-shielded arc welding and surfacing machinery	13.9.5	(vibration treatment, thermal treatment, etc.) Defectoscopic technology for destructive
	and equipment by using nonconsumable electrode (WIG or TIG)	13.9.6	and non-destructive weld tests Driers of consumables in welding areas
13.2.4	Submerged-arc welding and surfacing machinery and equipment	13.9.99	Other elements, machines and consumables for welding, others
13.2.99	Machinery and equipment for welding,		ouleis
	surfacing and arc cutting, others	13.10	METAL BONDING MACHINES
13.3	THERMAL SPRAY MACHINERY AND EQUIPMENT	13.11	WELDED STRUCTURES, SUB-SUPPLIES OF WELDED PARTS
13.3.99	Thermal spray machinery and equipment, others	13.11.1	Weldments
13.4	RESISTANCE-WELDING MACHINERY AND EQUIPMENT	DECEADOR OF	DUTCES AND INSTITUTIONS IN WEI DING CUTTING COLDEDNIC
13.4.1	Machinery and equipment for spot welding		RVICES AND INSTITUTIONS IN WELDING, CUTTING, SOLDERING
13.4.2	Seam welding machinery and equipment	AND METAL B 13.12.1	Research in welding, cutting, soldering
13.4.3	Machines and equipment for resistance projection welding	13.12.1	and metal bonding
13.4.4	Contact and flash welding machinery and equipment	13.12.2	Offers of manufacturing facilities in the areas of welding,
13.4.5	Fused-slag welding machinery and equipment		cutting, soldering and metal bonding
13.4.99	Resistance welding machinery and equipment, others	13.12.3	Consulting in welding, cutting, soldering and metal bonding
13.5	MACHINERY AND EQUIPMENT FOR PRESSURE WELDING	13.12.4	Engineering and design services in welding, cutting, soldering and metal bonding
	(FRICTION, DIFFUSION, COLD, ULTRASOUND WELDING)	13.12.5	Welding, cutting, soldering and metal bonding machines and equipment service and repair
	AND EQUIPMENT FOR OTHER METHODS	13.12.6	Refurbished machines and equipment for welding, cutting,
	6, CUTTING AND SOLDERING	1511210	soldering and metal bonding
13.6.1	Equipment for aluminothermic welding	13.12.7	Manufacture of prototype and single-purpose equipment
13.6.2 13.6.3	Plasma welding machinery and equipment Laser-beam welding machinery and equipment		for welding, cutting, soldering and metal bonding
13.6.4	Electron-beam welding machinery	13.12.8	Technologies for welding, cutting, soldering and metal
	and equipment	13.12.9	bonding Everytion of investment projects for yelding cutting
13.6.5	Stud welding machinery and equipment	13.12.9	Execution of investment projects for welding, cutting, soldering and metal bonding
13.6.6	Root-penetration welding machinery	13.12.10	Specialist literature, publications in the areas
12 6 7	and equipment	15.12.10	of welding, cutting, soldering and metal bonding
13.6.7 13.6.8	Machinery and equipment for welding plastics Soldering machinery and equipment	13.12.11	Institutions and organisations in the areas
13.6.9	Machinery and equipment for special methods of cutting		of welding, cutting, soldering and metal bonding
13.6.10	Machinery and equipment for plasma cutting	13.12.12	Vocational schools in the areas of welding, cutting, soldering
13.6.99	Machinery and equipment for other methods of welding,	42.42.42	and metal bonding
	surfacing, cutting and soldering, others	13.12.13	Specialist courses and training in the areas of welding, cutting, soldering and metal bonding
ADDITIONAL	. AND AUXILIARY MATERIALS	13.12.99	Research, services and institutions in welding, cutting,
13.7.1	Welding and cutting electrodes		soldering, and metal bonding – other
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 13.7.6	Gases for welding, cutting and soldering 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		
13.8.1	TECHNOLOGIES Welding robots		
13.8.2	Single-purpose welding, material separating and positioning		
13.0.2	manipulators		
13.8.3	Control, measurement, management and sensor systems, additional systems		
	and subsystems		
13.8.4	Hardware and software for welding technologies		

SURFACE TECHNOLOGY



EQUIPMENT FOR CLEANING AND TREATMENT OF SURFACES		LACQUERING SYSTEMS, ENAMELLING SYSTEMS, PLASTIC COATING SYSTEMS		
14.1.1	Tumbling machines			
4440	N. C. I.	14.3.1	Equipment for pneumatic spraying	
14.1.2 14.1.2.1	Blasting machines High-pressure water jet blasting machines	14.3.2	of coating materials Equipment for high-pressure spraying	
14.1.3	Brush machines	14.3.3	of coating materials Equipment for spraying of heated coating	
14.2.3.1	Equipment for electrolytic oxidation of aluminium	14.3.3	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		and their accessories	
14.1.4.7	Micro-organism based cleaning and degreasing equipment	4/242		
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	
14.1.10	Agents and consumables for surface cleaning and	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	
14.1.10.1	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	
		14.3.17.5	Acrylurethane coating materials	
ELECTRODI A	TING FOLITOMENT	14.3.17.6	Epoxy resin coating materials	
ELECIKUPLA	TING EQUIPMENT	14.3.17.7 14.3.17.8	Epoxy ester coating materials Epoxy acrylate coating materials	
14.2.1	Electroplating equipment	14.3.17.6	Polyurethane coating materials	
14.2.2	Equipment for galvanic cleaning and polishing	14.3.17.10	Water-soluble paints	
14.2.3	Equipment for electrolytic oxidation	14.3.17.11	Powder coating materials	
14.2.3	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			
14.2.10.2	Control and regulation devices for electroplating equipment	EQUIPMENT I	FOR CHEMICAL AND HEAT METAL TREATMENT	
14.2.10.3	Containers for electroplating	4114	Facility and for 1966 and a second to	
14.2.10.4	Bath heaters for electrodeposition	14.4.1	Equipment for diffusion saturation	
14.2.10.5	Baskets for electroplated products	1, , 1 1	of steel surface	
14.2.10.6 14.2.10.7	Centrifuge drums for electroplating equipment Filtering equipment for electroplating equipment	14.4.1.1 14.4.1.2	Case hardening equipment Nitriding equipment	
14.2.10.7	Recycling equipment for electroplating equipment	14.4.1.2	Nitrocarburizing equipment	
14.2.10.8	Accessories for electroplating equipment, other	14.4.1.3	Equipment for carbonitriding	
1 1.6.10.33	recessories for execuopating equipment, other	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	
	, 5			
14.2.99	Electroplating equipment, other			



SURFACE TECHNOLOGY

14.4.2	Furnaces for chemical and thermal treatment of surfaces	-	MEASURING AND TESTING DEVICES
	and their accessories	FOR SURFACE	TREATMENT
14.4.3	Solid, liquid and gaseous substances for chemical		
	and thermal treatment of surfaces	14.9.1	Computer management systems for surface treatment
			enterprises
14.4.99	Equipment for chemical and thermal treatment	14.9.2	Software for support of quality assurance
	of surfaces, other		and management (CAQ)
		14.9.3	CAD, CAM and CIM for surface treatment
	PLASMA 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		
14.6.2	Arc metal spraying equipment	RESEARCH, S	ERVICES 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 SYS	STEMS 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	14.10.2.3.1	Customized quenching and annealing
	accessories		
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		
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
		14.10.2.11	Customized cladding
14.7.9	Industrial surface marking systems		
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		
14.7.9.4	Self-adhesive materials	14.10.3	Consultancy in surface treatment technologies
		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
	and equipment		for surface treatment applications
14.7.9.5.1	Laser marking and scribing machines	14.10.6	Refurbished machines and equipment
	y y		for surface treatment
14.7.9.6	Marking printers	14.10.7	Manufacture of prototype and single-purpose equipment
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 gresses	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
111111111111111111111111111111111111111	industrial equipment for surface marking, series	111101012	real metagrade supplies for the surface detailment made y
14.7.99	Special surface treatment systems, other	14.10.9	Execution of investment projects in surface treatment sector
	•	14.10.10	Financial services and leasing in surface
ENVIRONME	NTAL PROTECTION SYSTEMS		treatment sector
FOR SURFAC	E 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		•
	systems for surface treatment technologies	14.10.99	Research, services, institutions in surface treatment
14.8.99	Environmental protection systems for surface treatment		sector, other
	technologies, other		•
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PLASTICS, RUBBER, COMPOSITES



POLYMERS - RAW MATERIALS AND AUXILIARIES

POLYMERS – F	RAW MATERIALS AND AUXILIARIES		
15.1.1	Thermoplastics	15.1.2	Thermoplastic elastomers (TPE)
	•	15.1.3	Thermosetting plastics
15.1.1.1	Polyolefins	15.1.3.1	Phenol moulding compounds (PF)
	•	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)		
15.1.1.1.1.5	High-density polyethylenes (HDPE)	15.1.4	Polyurethanes (PUR)
15.1.1.1.1.6	High molecular weight high-density polyethylenes	15.1.4.1	Unextended polyurethanes
	(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
	(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	Polypropylenes (PP)	15.1.5	Rubbers and vulcanized rubbers
15.1.1.1.3	Polybutene (PB) and polyisobutylene (PIB)		
15.1.1.1.99	Polyolefins – other	15.1.6	Polymer materials for manufacture of coating materials
		15.1.6.1	Polymers for manufacture of transparent lacquers
15.1.1.2	Polustyrene plastics	15.1.6.2	Polymers for manufacture of pigmented paints and enamels
15.1.1.2.1	Polystyrene (PS)	13111012	rogmore for managedic or pigmented pames and enames
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)		
15.1.1.2.4	Styrene-acrylonitrile copolymers (SAN)	15.1.8	Polymers and fillers for manufacture of cements
15.1.1.2.5	Acrylonitrile-butadiene-styrene (ABS)	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 blends
15.1.1.3	Vinyl chloride plastics		
15.1.1.4	Fluoroplastics	15.1.9.1	Additives and fillers for processing of plastics
15.1.1.4.1	Polytetrafluorethylene (PTFE)	15.1.9.1.1	Dyestuffs, pigments for plastics
15.1.1.4.99	Fluoroplastics, other	15.1.9.1.2	Dyestuffs and additives for plastics in the form
			of concentrates (masterbatches)
15.1.1.5	Acrylates	15.1.9.1.3	Fillers
15.1.1.5.1	Polymethylmetacrylate (PMMA)	15.1.9.1.4	Plasticizers
15.1.1.5.2	Copolymers and acrylate blends	15.1.9.1.5	Stabilizers (thermo-oxidation, etc.)
		15.1.9.1.6	Antistatic agents
15.1.1.6	Polyoxymethylene (POM)	15.1.9.1.7	Flame retarding agents
	B 1 (1) (B1)	15.1.9.1.8	Crosslinking agents
15.1.1.7	Polyamides (PA)	15.1.9.1.9	Nucleating agents
15.1.1.7.1	Polyamides PA 6	15.1.9.1.10	Agents facilitating preparation of polymer blends
15.1.1.7.2	Polyamides PA 66	45 4 0 4 44	(compatibilizators)
15.1.1.7.3	Polyamides PA 11	15.1.9.1.11	
15.1.1.7.4	Polyamides PA 12	15.1.9.1.12	Dispersing agents
15.1.1.7.5	Polyamides PA 46, 610, 612	15.1.9.1.13	Not genuine solvents
15.1.1.7.6	Polyamides – other types	15.1.9.1.14	Lubricants, waxes for processing of plastics
15.1.1.7.7	Aromatic polyamides (polyarylamides)	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
15.1.1.8	Polyarylesters	15.1.9.2	Additives and fillers for processing of rubber blends
15.1.1.8.1	Polycarbonates (PC)		. •
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)		
15.1.1.8.5	Polyarylates (PAR, PEC)	15.1.99	Polymers – raw materials and additives – other
15.1.1.9	Polysulfides		
15.1.1.9	Polyphenylene sulfide (PPS)	MACHINES A	ND EQUIPMENT FOR PROCESSING OF PLASTICS AND RUBBERS
15 1 1 10	Polyculfonos	15 2 1	Machines for treatment of polymer materials
15.1.1.10	Polysulfones Thermonlastic polyimides (PI)	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 Polyetheretherketone (PEEK)	15.2.1.3	Filtration systems Machines for manufacture of plastics and rubbers mixtures
15.1.1.14	Cellulose derivatives	15.2.1.4	Machines for manufacture of plastics and rubbers mixtures Machines for treatment of polymer materials – other
15.1.1.15 15.1.1.16	Highly heat-resistant thermoplastics	15.2.1.99	machines for deadinement of polymer materials – other
15.1.1.99	Thermoplastics, other		



15.2.2.1 Machines and lines for production of plastic sheets and floorings 15.2.14.11 Equipment for separation of gate and culds from castings 15.2.14.12 Robots and handing devices for plastics and rubber processing machines 15.2.14.13 Systems for automatic mould changing 15.2.14.13 Systems for automatic mould changing 15.2.14.19 Ancillary machines and equipment for plastics and rubber industries 15.2.14.19 Ancillary machines and equipment for plastics and rubber industries 15.2.15 Systems for automatic mould changing 15.2.14.19 Ancillary machines and equipment for plastics and rubber industries 15.2.15 Systems for automatic mould changing industries 15.2.14.19 Ancillary machines and equipment for plastics and rubber industries 15.2.16 Systems for automatic mould changing industries 15.2.14.19 Ancillary machines and equipment for plastics and rubber industries 15.2.16 Systems for automatic mould changing industries 15.2.14.19 Ancillary machines and equipment for plastics and rubber industries 15.2.16 Dying units for plastic materials 15.2.16 Dying units for plastic materials 15.2.16 Deflashing machines for technological purposes 15.2.18 Plastics thermoforming machines for plastics and rubber components 15.2.19 Machines for plastics and rubber components 15.2.19 Machines for welding of plastics 15.2.21 Machines for welding of plastics 15.2.21 Machines and equipment for finishing operations 15.2.25 Machines for chip working of plastics 15.2.25 Machines and equipment for finishing operations 15.2.25 Machines for chip working of plastics 15.2.25 Machines for machines 15.2.25 Machines for machines 15.2.25 Machines for machines 15.2.25 Machines for plastics and ru	15.2.2	Calendars – rolling machines	15.2.14.10	Digital scales
and floorings Settides - extruding machines for plastic and rubber blends 15,2,14,141 Settides Settid		Calenders – rolling machines Machines and lines for production of plastic sheets		Digital scales Equipment for separation of gate and culls from castings
15.2.3.1 Extruders - extruding machines for plastic and rubber loads 15.2.1.5.1 Settruders for plastic materials 15.2.3.1 Nachtines and there for production of boards, sheets, pipes and exchange of hemoglastics 15.2.3.1 Settruders for nubber industry 15.2.3.1 Settruders for nubber industry 15.2.3.1 Settruders for nubber industry 15.2.3.2 Extruders for nubber industry 15.2.3.3 Settruders for nubber industry 15.2.3.7 Settrude neglinement for nubber 15.2.3.7 Settrude neglinement for nubber components 15.2.3.7 Settruders for nubber industries 15.2.3.7 Settrude number components 15.2.3.7 Settluders for hemosetting plastics 15.2.3.7 Machines and fixtures for welding of plastics Nachtines for the number components 15.2.3.1 Settluders for number components 15.2.3.2 Machines for hemosetting plastics 15.2.2.2 Machines for welding plastic sheets 15.2.3.2 Machines for hemosetting plastics 15.2.3.2 Machines for hemosetting plastics 15.2.3.2 Machines for hemosetting plastics 15.2.3.3 Machines for meanufacture of form meading machines 15.2.3.3 Machines for manufacture of form meanufacture	13.2.2.1			Robots and handling devices for plastics
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and rubber industries 15.2.14.1 Silos and their accessories 15.2.14.2 Granulate driers 15.2.14.3 Conveyors 15.2.14.4 Metal separators 15.2.14.5 Granulate suction equipment 15.2.14.6 Dosing equipment 15.2.14.7 Heating technology 15.2.14.8 Cooling technology 15.2.14.8 Cooling technology 15.2.14.8 Materials for polymer matrices Machines and equipment for manufacture of prepregs 15.3.4 Technologies, machines and equipment for manufacture of thermosetting matrix fibre composites Hot pressing technologies (BMC or DMC) Manual wet coating				
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15.2.14.2 Granulate driers 15.2.14.3 Conveyors 15.2.14.4 Metal separators 15.2.14.5 Granulate suction equipment 15.2.14.6 Dosing equipment 15.2.14.7 Heating technology 15.2.14.8 Cooling technology 15.2.14.8 Cooling technology 15.2.14.8 Granulate driers 15.3.3 Machines and equipment for manufacture of prepregs Technologies, machines and equipment for manufacture of thermosetting matrix fibre composites Hot pressing technologies (BMC or DMC) Manual wet coating				
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15.2.14.8 Cooling technology 15.3.4.2 Manual wet coating		5 , ,		
15.2.14.9 Flow meters 15.3.4.3 Winding technologies (rovings, fabric strips)				
	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	15.4.2.26	Masts
	(SCRIMP) 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
	thermosetting matrix fibre composites, other	15.4.2.30	Oversize and small boxes, covers and lids
	,	15.4.2.31	Fillets, furniture strips and components
15.3.5	Technologies, machines and equipment for manufacture	15.4.2.32	Sacks, bags
	of thermosetting matrix fibre composites	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	13.4.2.30	riocective and safety alas
13.3.3	nanocomposites	15.4.2.99	Plastic products, other
15.3.10	Semi-finished composite products	13.1.2.33	rastic products, other
15.3.10.1	Composite structural sections, rods, pipes, boards	15.4.3	Plastic constructional units
15.3.10.1	Composite panels with sandwich core	15.4.3.1	Injection moulded plastic constructional units
13.3.10.2	composite panets with sandwich core	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
13.3.11.1	diass-fibre fermorced plastic products		
15 2 00	Compositor ather	15.4.3.5	Expanded plastic structural parts Structural parts of polycarbonates
15.3.99	Composites, other	15.4.3.6	1 1 3
		15.4.3.7	Polyamide structural parts
CEMT ETNICH	IED AND STATELIED DI ACTIC DOCULETO	15.4.3.8	Polyoxymethylene structural parts
2FW1-FIN12H	IED AND FINISHED PLASTIC PRODUCTS	15.4.3.9	Structural parts with inserts
45 / 4		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		
15.4.1.4	Rods		
15.4.1.5	Fibres, lines, strings	15.4.4	Plastic parts and products for selected industries
15.4.1.6	Pipes, hoses		and end users
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15.4.1.7	Semi-finished plastic castings		
15.4.1.7 15.4.1.99	Semi-finished plastic castings 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	
15.4.1.99 15.4.2	Semi-finished plastic products, other Plastic products	15.4.4.2	Plastic parts and products for mechanical engineering Plastic parts and products for transport
15.4.1.99 15.4.2 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 mechanical engineering 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 mechanical engineering 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 mechanical engineering 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
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15.4.1.99 15.4.2 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 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 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 15.4.2.17.2 15.4.2.17.3 15.4.2.17.4	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 – wall clips, clamps, wall holder sleeves, fixing strips, assembly strappings, dowels, hinges Operating elements – handles, hand rails, balls, wheels, levers, star handles Large tanks, silos, containers Vessels, barrels, canisters, bottles Pallets, crates, containers, cases, boxes, packs, trays	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 15.4.4.14 15.4.4.15 15.4.4.16 15.4.4.17 15.4.4.18 15.4.4.19 15.4.4.20	Plastic parts and products for mechanical engineering 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 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 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 Plastic parts and products for advertising, promotional items
15.4.1.99 15.4.2 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 15.4.2.10 15.4.2.11 15.4.2.12 15.4.2.13 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 15.4.2.17.2 15.4.2.17.3 15.4.2.17.4	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, star handles Large tanks, silos, containers Vessels, barrels, canisters, bottles Pallets, crates, containers, cases, boxes, packs, trays Ropes, cords, binding straps	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 15.4.4.14 15.4.4.15 15.4.4.16 15.4.4.17 15.4.4.18 15.4.4.19 15.4.4.20	Plastic parts and products for mechanical engineering 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 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 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 Plastic parts and products for advertising, promotional items



15.4.5	Semi-finished and finished products made of	-	TESTING AND MEASURING TECHNOLOGIES FOR PLASTICS
	polyurethane elastomers	AND RUBBE	RS
15.4.5.1	Boards, blocks		
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	Vibration dampers	15.7.3.1	CAD systems for injection processes analysis and
15.4.5.9	Silentblocks		optimization
15.4.5.10	Shaped products	15.7.3.2	Regulation system for melt flow in the mould
15.4.5.11	Casts		
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
15.4.5.14	Solid tyre wheels		and forces in plastics and rubber processing machines
15.4.5.15	Polyurethane coated rollers		, , ,
15.4.5.99	Semi-finished and finished products made of polyurethane	15.7.6	Measuring equipment for length, thickness and surface
	elastomers other		geometry of plastic components
		15.7.6.1	Systems for 2D and 3D scanning of complex shapes
SEMI-FINISH	ED AND FINISHED RUBBER-BASED PRODUCTS		egerme on an an er earning or earnipear empter
		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	15.7.0	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
15.5.4	Rubber flooring	15.7.10	and rubbers
15.5.6	Rubber V-belts, indented belts	15.7.11	
			Multiparameter measuring stations
15.5.7	Rubber conveyor belts	15.7.12	Material thermostability testers
15.5.8	Rubber bellows, sleeves, covers, rings	15.7.13	Testers of mechanical and dynamic ruggedness of materials
15.5.9	Rubber dilatation compensators	45 7 00	
15.5.10	Rubber-metal	15.7.99	Computer, testing and measuring technologies
15.5.11	Shaft seal rings		for plastics 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	Shaped rubber products		
15.5.16	Rubber textile products	15.8.1	Research in plastics and rubbers
15.5.17	Rubber wheels		
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	15.8.4	Engineering and design services for plastics
	of all kinds		and rubber manufacturing
15.5.99	Rubber semi-finished and finished products, other		-
		15.8.5	Service and repairs of machines for plastics
MACHINES AN	ID EQUIPMENT FOR RECYCLING AND USE OF PLASTIC		and rubber industries
AND RUBBER	WASTE 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		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
15.6.1.2	Tyre crushers		for plastics and rubber industries
	,	15.8.5.4	Reconstruction and modernisation of machines
15.6.2	Machines, equipment and technologies		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
15.0.5	for chemical and thermal recycling of waste polymer	13.0.7	for plastics and rubber industries
	materials		for plastics and rubber industries
15.6.4	Solid waste processing lines	15.8.8	Technologies for plastics and rubber industries
13.0.4	(plastics, cables, tyres)	15.8.8.1	Technology projects for plastics and rubber industries
15 6 5			
15.6.5	Plastic re-granulates and waste	15.8.8.2	Technology supplies to plastics and rubber industries
15.6.6	(HDPE, LDPE, PP, PS, PVC, PUR)	15.00	Formula and important and a section of the section
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	45.040	industries
	materials	15.8.10	Financial services, leasing for plastics
45.6.60	Madding and automorphism (C. 1. C. 1. C. 1. C.	45.0.44	and rubber industries
15.6.99	Machines and equipment for recycling and use of plastic	15.8.11	Technical literature and publications
	and rubber waste materials – other		for plastics and rubber industries



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 education for plastics and rubber industries
15.8.99	Research, services, institutions in plastic



CHEMICALS FOR ENGINEERING

Equipment for	r the chemical industry	16.2.99	Machines for other chemical branches
16.1.1	Tanks, vessels, pressure vessels for the chemical industry	Lubricants,	nils
16.1.2	Columns	16.3.1	Lubricating greases for industry
10.1.2	Cotumns		3 3
16.1.2	Filtran for about all and destina	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		
	The state of the s	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
10.1.0	crusiicis	10.0	Sprays for inetat surface rimsning
16.1.7	Mills for the chemical industry	16.7	Coating compositions
16.1.7.1	Colloid mills	16.7.1	Synthetic coating compositions
16.1.7.1	Pulverizers	16.7.2	
			Water soluble coating compositions
16.1.7.3	Screens for the chemical industry	16.7.3	Powder paints
46.4.0		46.0	
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		The state of the s
16.1.17	Heat exchangers for chemical engineering	Chemicals fo	or industrial production
16.1.18	Industrial furnaces for chemical production	circuitats it	industrial production
16.1.19	Dosing equipment for chemical engineering	16.15.1	Chemicals for mechanical engineering
16.1.20	Transport equipment for chemical plants	16.15.1.1	Solvents, thinners
16.1.21	Silos	16.15.1.2	Varnish / lacquer removers
	Synthetic fibre production equipment		
16.1.22	, , ,	16.15.1.3	Degreasing and cleaning liquids Corrosion inhibitors
16.1.23	Biochemical and biotechnological equipment	16.15.1.4	
16.1.24	Process gas distribution	16.15.1.5	Moulding equipment
16.1.25	Process burners	16.15.1.6	Heat-carrying media
16.1.26	Exhausting and dedusting equipment for the chemical	16.15.1.7	Chemicals for chemical and heat processing
	industry		of iron and steel
		16.15.1.8	Treatment salts for light metals
16.1.99	Equipment for the chemical industry – other	16.15.1.9	Chemicals for electroplating
		16.15.1.10	Mordants for metals
Machines and	accessories for the chemical industry	16.15.1.11	Antifoaming agents
16.2.1	Components and accessories for the chemical industry	16.15.1.12	Emulsifiers
16.2.2	Equipment for the petrochemical industry	16.15.1.13	Additive concentrates
16.2.3	Equipment for coal and tar processing	16.15.1.14	Technical fungicides
16.2.4	Natural gas processing equipment	16.15.1.99	Chemicals for mechanical engineering – other
16.2.5	Inorganic production equipment	10.15.1.55	chemicals for mechanical engineering office
16.2.6	Organic production equipment	16.15.2	Chemicals for the petrochemical industry
16.2.7	Macromolecular material production	16.15.3	Chemicals for the rubber industry
			· · · · · · · · · · · · · · · · · · ·
16.2.8	Coating substance production equipment	16.15.4	Chemicals for the pharmaceutical and cosmetic industries
16.2.9	Agrochemical production equipment	16.15.5	Chemicals for industrial water treatment plants
16.2.10	Synthetic fibre production equipment	16.15.6	Chemicals for the textile industry
16.2.11	Explosive production equipment	16.15.7	Chemicals for the electric engineering industry
16.2.12	Equipment for pharmaceutical production	16.15.98	Washing and cleaning agents for industrial site cleaning
16.2.13	Granulate production machines		
16.2.14	Machines for the production of soap and cleaning agents	16.15.99	Chemicals for other industrial production branches
16.2.15	Machines for cosmetic production		
16.2.16	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
	gases		

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 16.22.1	Technologies for the chemical industry Technology projects for the chemical industry
16.99	Chemistry for engneering others



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

Systems for a	additive manufacturing	17.2.5	Internet solutions for industrial applications
		17.2.5.1	Internet solutions for automation
17.1.1	Additive manufacturing systems	17.2.5.2	On-line monitoring systems
17.1.1.1	Additive manufacturing systems, 3D printers with 3DP	17.2.5.3	Web-based solutions for automation systems
	technologies	17.2.5.4	Other internet solutions for industrial applications
17.1.1.2	Additive manufacturing systems, 3D printers with fused		
	deposition modelling (FDM), thermal extrusion printing	17.2.6	Multimedia software for industrial applications
17.1.1.3	Additive manufacturing systems, 3D printers with laminating	17.2.6.1	Multimedia technical product documentation systems
	technologies, laminated object modelling, LOM for non-metals	17.2.6.2	Multimedia virtual product development systems
17.1.1.4	Additive manufacturing systems, 3D printers with multijet		
	modelling (MJM)	17.2.7	Operating systems for industrial IT
17.1.1.5	Additive manufacturing systems, 3D printers with selective laser		•
	melting, SLM for metals	17.2.8	Extension of operating systems and system control software
17.1.1.6	Additive manufacturing systems, 3D printers with selective laser		for industrial IT
271210	sintering, SLS for non-metals	17.2.8.1	Computer security software and network security software
17.1.1.7	Additive manufacturing systems, 3D printers with	17.2.8.2	OPC controllers, OPC servers, software for industrial IT, OPC UA
17.11.1.7	stereolitography, SLA, STL	17.2.8.3	Other operating system extensions for industrial IT
17.1.1.8	Other additive manufacturing systems, 3D printers for non-	17.2.8.4	Software for computer data backup
17.11.10	metals	17.2.8.5	Software for computer management, maintenance and
	inetats	17.2.0.3	installation
1710	Tudoutes, andiantiana fau addition manufacturium		IIISLALIALIUII
17.1.2	Industry applications for additive manufacturing	47.00	046
	with non-metals	17.2.9	Other basic software and system-oriented industrial software
		17.2.10	Systems and software for public resource processing
17.1.3	Supplementary systems and services for additive		
	manufacturing with non-metals	17.2.11	Software for application development for industrial IT,
17.1.3.1	3D digitisation systems for adaptive manufacturing		development tools
17.1.3.2	3D graphics software and 3D modelling software for additive	17.2.11.1	Application development systems for CNC controls
	manufacturing	17.2.11.2	Application development systems for embedded systems
17.1.3.3	3D modelling for additive manufacturing	17.2.11.3	Application development systems for mobile, industrial
17.1.3.4	3D scanners, 3D laser scanners for additive manufacturing		applications
17.1.3.5	3D visualization of models (services)	17.2.11.4	Application development systems for process control systems,
17.1.3.6	Development and manufacture of 3D printing monofilaments		visualization systems
17.1.3.7	Other supplementary systems and services for additive	17.2.11.5	Application development systems for robot controls
	manufacturing with non-metals	17.2.11.6	Application development systems for Soft-PLC systems
		17.2.11.7	Application development systems using C++, C, Basic
Basic softwar	re and software solutions	17.2.11.8	Application development systems with Java
		17.2.11.9	Application development systems, expert systems, diagnosis
17.2.1	Communication software and network software for industrial IT		systems, artificial intelligence systems
-,	communication software and network software for industrial in	17.2.11.10	PLC programming systems, application development systems
17.2.2	Data management software for industrial IT	17121110	for automation equipment
17.2.2.1	Database systems	17.2.11.11	Other software for application development for industrial IT,
17.2.2.2	Knowledge management systems	17.2.11.11	development tools
17.2.2.2	Other data management software for industrial IT		development tools
17.2.2.3	other data management software for mudstriat If	17.2.12	Videoconferencing systems
47.00	Francis diagnostic and simulation makens	17.2.12	videoconferencing systems
17.2.3	Expert, diagnostic and simulation systems	17 0 10	Vintual markity, austrona for industrial applications
17.2.3.1	Cognitive computing systems for production technologies and	17.2.13	Virtual reality systems for industrial applications
47.000	production processes	17.2.13.1	General virtual reality in automation technology
17.2.3.2	Expert systems and artificial intelligence	17.2.13.2	Smart glasses
17.2.3.3	General simulation software for robotic applications	17.2.13.3	Virtual prototyping systems
17.2.3.4	PLC simulation software (programmable logic controls)	17.2.13.4	Virtual reality in production planning
17.2.3.5	Real time oriented interactive simulation in industrial	17.2.13.5	Virtual reality in robotics
	applications	17.2.13.6	Virtual reality software for industrial applications
17.2.3.6	Simulation software for assembly technologies, handling systems	17.2.13.7	Other virtual reality systems for industrial applications
	and hydraulic and pneumatic systems		
17.2.3.7	Simulation software for design, optimization and operation in	17.2.14	Visualization systems
	production	17.2.14.1	Visualization systems in industrial applications
17.2.3.8	Simulation systems for material flow optimisation and	17.2.14.2	Software for operating stations (man/machine interface)
	production layout	17.2.14.3	Systems for Operating and Observing
17.2.3.9	Software for fuzzy logic systems and fuzzy control in industrial	17.2.14.4	Visualization software
	applications	17.2.14.5	Visualization systems (man-to-process communication)
17.2.3.10	Systems and software for remote diagnosis systems for machines		<u> </u>
	and installations	17.2.15	Voice processing systems
17.2.3.11	Tools for simulation and offline programming of industrial robots	17.2.16	Automation software solutions
17.2.3.12	Other expert systems, diagnosis systems and simulation systems	17.2.17	Software and solutions for specific industrial branches
	and a single of the state of the single of the single of the state of		The state of the s
17.2.4	Image processing software	17.2.18	Specific software and specific solutions
17.2.4.1	Future-oriented image processing software technologies	17.2.18.1	Application software for quality assurance and quality
17.2.4.1	Image processing development systems	17.2.10.1	control / CAQ
17.2.4.2	Software for identification systems	17.2.18.2	Application software for vertical IT integration
	· · · · · · · · · · · · · · · · · · ·	17.2.10.2	Application software for vertical IT integration
17.2.4.4	Software for pattern recognition, image analysis, image	17 2 10 2	Product life avela management. PLM coffware and colutions
172/5	processing Software tools for image processing	17.2.18.3	Product life cycle management, PLM software and solutions
17.2.4.5	Software tools for image processing	17.2.18.3.1	CAD software and solutions for product data generation

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			MSV 2023
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
47.040.07	computations and simulation	17.2.18.10.2	Information management systems
17.2.18.3.4	Software and solutions for experiments, prototyping and development	17.2.18.10.3 17.2.18.10.4	Production systems, MES 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
17.2.18.3.6	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 production
17.2.18.3.8	Software and solutions for technical documentation		stations
17.2.18.3.9	Software and solutions for product data provision and management (PDM, EDM)	17.2.18.10.7	Software and solutions for production data acquisition, collection 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 data for the industry	17.2.18.11	Software and solutions for job allocations, material management and logistics
17.2.18.4.1	Software and solutions for big data, intelligent data	17.2.18.11.1	Advanced planning solutions (APS)
17.2.18.4.2	for the industry Software and solutions for business analysis, intelligent data	17.2.18.11.2 17.2.18.11.3	Software and solutions for logistics management Software and solutions for distribution and shipment
17.2.18.4.3	for the industry Software and solutions for data storages and data acquisition	17.2.18.11.4	Software and solutions for electronic notice boards, automatic 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	17010116	material flow optimisation
	for the industry	17.2.18.11.6 17.2.18.11.7	Software and solutions for material management 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
	and technical sales	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	Software and solutions for transport, traffic logistics
17.2.18.5.3 17.2.18.5.4	eCommerce and eBusiness solutions Software and solutions for marketing, eMarketing, mobile	17.2.18.11.11	Other software and solutions for job allocation, material management and logistics
17.2.18.5.5	marketing Software and solutions for distribution	Cloud & industrial IT 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 2 10 7	Coffusion and solutions for production planning	17.3.1.1 17.3.1.2	Applications and hosting systems
17.2.18.7 17.2.18.7.1	Software and solutions for production planning Software and solutions for enterprise resource planning, ERP		Application service provision (ASP) for the industry
17.2.18.7.2	and production planning, PPC Software and solutions for enterprise resource planning, ERP	17.3.1.3 17.3.1.3.1	Industrial cloud services 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
17.2.18.7.3	Software and solutions for production and planning integrated	17.3.1.3.3	Infrastructure as a Service, SaaS, for industrial applications
	control	17.3.1.3.4	Other cloud services for industrial applications
17.2.18.7.4 17.2.18.7.5	Software and solutions for production and control planning, PPC Software and solutions for production planning / computer	17.3.1.3.5 17.3.1.3.6	Platform as a Service, PaaS, for industrial applications Software as a Service, SaaS, for industrial applications
	planning, CAP		, , , , , , , , , , , , , , , , , , , ,
17.2.18.8	Software and solutions for maintenance and repairs	17.3.1.4 17.3.1.5	IT and network services (outsourcing) 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
17.2.18.9	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 Software and solutions for business process optimisation and	17.3.3	Industrial engineering services
17 2 18 9 5			
17.2.18.9.5	business process control	17.3.3.1	Application programming and engineering for automation
17.2.18.9.5 17.2.18.9.6	business process control Software and solutions for company management, organisation		in factories
	business process control Software and solutions for company management, organisation and control	17.3.3.1 17.3.3.2 17.3.3.3	
17.2.18.9.6	business process control Software and solutions for company management, organisation	17.3.3.2	in factories Documentation services
17.2.18.9.6 17.2.18.9.7 17.2.18.9.8	business process control Software and solutions for company management, organisation and control Software and solutions for human resources, personnel management Software and solutions for project management	17.3.3.2 17.3.3.3	in factories Documentation services Other industrial engineering services
17.2.18.9.6 17.2.18.9.7 17.2.18.9.8 17.2.18.9.9	business process control Software and solutions for company management, organisation and control Software and solutions for human resources, personnel management Software and solutions for project management Software and solutions for risk management	17.3.3.2 17.3.3.3 17.3.3.4 17.3.3.5	in factories Documentation services Other industrial engineering services Production planning and control simulation Software consulting
17.2.18.9.6 17.2.18.9.7 17.2.18.9.8 17.2.18.9.9 17.2.18.9.10	business process control Software and solutions for company management, organisation and control Software and solutions for human resources, personnel management Software and solutions for project management Software and solutions for risk management Software for the calculation of production costs	17.3.3.2 17.3.3.3 17.3.3.4 17.3.3.5	in factories Documentation services Other industrial engineering services Production planning and control simulation Software consulting Internet services for automation and industrial use
17.2.18.9.6 17.2.18.9.7 17.2.18.9.8 17.2.18.9.9	business process control Software and solutions for company management, organisation and control Software and solutions for human resources, personnel management Software and solutions for project management Software and solutions for risk management	17.3.3.2 17.3.3.3 17.3.3.4 17.3.3.5	in factories Documentation services Other industrial engineering services Production planning and control simulation Software consulting



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17.3.5	Organisations and associations for industrial software, digital
17.3.6	factories Other digital factory services
Internet system	ns for the industry and industrial automation
17.4.1	General intelligent components
17.4.1	Components, Internet of Things systems, IoT in industrial
17.4.2	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 pro	duction 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
47.50	in technological processes
17.5.9 17.5.10	Machines and equipment used in automatic facilities Automatic monitoring and evaluation systems
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