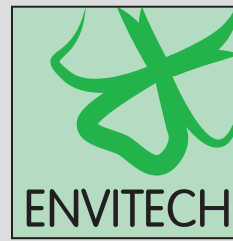


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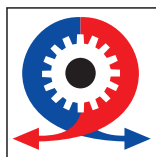
NOMENCLATURE

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MINING, METALLURGICAL, CERAMIC AND GLASS ENGINEERING

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- 1.1.1.1 Components and accessories of machines for geological prospecting
- 1.1.1.2 Boring sets
- 1.1.1.3 Pumps for boring sets
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- 1.1.1.5 Tools and accessories for boring technology
- 1.1.1.6 Auxiliary devices for boring
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- 1.1.5.3 Overburden dumping machines
- 1.1.5.4 Conveyers for open-cast mining
- 1.1.5.5 Crushers for open-cast mining
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- 1.2.2.2 Converter steel works
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- 1.2.2.8.1 Hydraulic shears for scrap processing
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- 1.2.3.3 Blooming mills
- 1.2.3.4 Rolling mill drives
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1.2.95.1	Hardening to order	1.3.88	Consultancy for glass and ceramic production
1.2.99	Metal production and processing equipment – other	1.3.89	Engineering and design services for the glass and ceramic industry
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1.3.1.9	Machines for hot processing technologies – other		

MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING

Metallurgical semi-products and products of metals

2.1.1 Basic metallurgical semi-products

- 2.1.1.1 Ingots
- 2.1.1.2 Billets
- 2.1.1.3 Blooms, slabs
- 2.1.1.4 Continuous casts
- 2.1.1.5 Slag

2.1.2 Hot rolled steel

- 2.1.2.1 Hot extruded steel
- 2.1.2.2 Bar steels and profiles

Steel sheets

- 2.1.3.1 Hot rolled sheets
- 2.1.3.2 Cold rolled sheets
- 2.1.3.3 Zinc-coated steel sheets
- 2.1.3.4 Tinned steel sheets
- 2.1.3.5 Sheets, sections and strips of corrosion-proof steels
- 2.1.3.6 Abrasion-resistant sheet metal
- 2.1.3.7 High-strength sheet metal
- 2.1.3.8 Surface finished steel sheets
- 2.1.3.9 Perforated steel sheets
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- 2.1.3.11 Profiled sheets and strips
- 2.1.3.12 Isotropic sheets and strips for electric engineering
- 2.1.3.13 Anisotropic sheets and strips for electric engineering
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- 2.1.3.99 Steel sheets – other

Steel pipes, tubes, elbows, closed sections

- 2.1.4.1 Seamless steel tubes and pipes
 - 2.1.4.1.1 Seamless corrosion-proof tubes and pipes
- 2.1.4.2 Welded steel tubes and pipes
 - 2.1.4.2.1 Welded corrosion-proof tubes and pipes
- 2.1.4.3 Centrifugally cast tubes and pipes
 - 2.1.4.4 Thick-walled steel tubes and pipes
- 2.1.4.5 Thin-walled steel tubes and pipes
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 - 2.1.4.5.2 Thin-walled corrosion-proof tubes
- 2.1.4.6 Surface finished tubes
 - 2.1.4.6.1 Hot galvanized tubes
 - 2.1.4.6.2 Tubes with internal or external plastic coating
- 2.1.4.7 Tube sleeves, couplings, elbows
- 2.1.4.8 Fastening technology for tubes and pipes
- 2.1.4.99 Steel tubes and pipes – other

2.1.5 Cold rolled steel

- 2.1.5.1 Cold extruded steel
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- 2.1.6.1 Cold drawn steel
- 2.1.6.2 Hot drawn steel

2.1.7 Forged steels

2.1.8 High-grade steels

- 2.1.8.1 Tool steels
- 2.1.8.2 High-speed steels
- 2.1.8.3 Refractory steels
- 2.1.8.4 Corrosion-proof steels
- 2.1.8.5 High-alloy steels

2.1.8.6 Special steels

- 2.1.8.6.1 Steels for low temperatures

2.1.9 Peeled steel

2.1.10 Steel wires

- 2.1.10.1 Corrosion-proof wires

2.1.11 Rails

- 2.1.11.1 Train rails
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Forgings, pressed parts

- 2.2.1 Pressed, drawn and stamped parts

2.2.2 Open die forgings

- 2.2.2.1 Open die forgings of steel
- 2.2.2.2 Open die forgings of non-ferrous metals

2.2.3 Drop forgings

- 2.2.3.1 Drop forgings of steel
- 2.2.3.2 Drop forgings of non-ferrous metals

2.2.4 Upset pieces

2.2.5 Extruded pieces

2.2.6 Metal pressed pieces

- 2.2.6.1 Cold pressed parts of sheet
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- 2.2.99 Forgings, pressed parts – other

2.4 Metal workpieces

- 2.4.1 Fine metal workpieces

- 2.4.2 Turned, milled, drilled and threaded components

2.5 Special elements – metal semi-products

Non-ferrous metals and semi-products of non-ferrous metals

- 2.6.1 Non-ferrous metals and alloys

Semi-products of non-ferrous metals

2.6.2.1 Semi-products of aluminium and aluminium alloys

- 2.6.2.1.1 Aluminium sheets, strips
- 2.6.2.1.2 Aluminium foils
- 2.6.2.1.3 Aluminium pipes and rods
- 2.6.2.1.4 Aluminium wires
- 2.6.2.1.5 Aluminium sections
- 2.6.2.1.6 Aluminium foam
- 2.6.2.1.7 Aluminium bodies for central heating

- 2.6.2.2 Sheets, rods, tubes and wires of copper

- 2.6.2.3 Sheets, rods, tubes and wires of brass

- 2.6.2.4 Semi-products of bronze

- 2.6.2.5 Semi-products of titanium

- 2.6.2.6 Semi-products of nickel alloys

- 2.6.2.7 Semi-products of magnesium alloys

- 2.6.2.8 Semi-products of lead alloys

- 2.6.2.9 Semi-products of precious metals alloys

2.6.3 Thermal bimetals

2.6.99 Non-ferrous metals and semi-products of non-ferrous metals – other

2.7 Metal powders and powder metallurgy products

- 2.7.1 Metal powders

2.7.2 Powder metallurgy products

- 2.7.2.1 Technical ferrites



2.8	Products of sintered carbides	2.9.10.1	Steel bottles
2.8.1	Sinter pressed pieces	2.9.10.2	Pressure apparatus and vessels
Some metal elements and components for mechanical engineering		2.9.10.2.1	Pressure apparatuses and vessels
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2.9.1.1	Screws	2.9.10.3	Non-pressure apparatuses and vessels
2.9.1.2	Nuts	2.9.10.4	Storage tanks
2.9.1.2.1	Pressing and riveting nuts	2.9.10.4.1	Underground storage tanks
2.9.1.3	Washers	2.9.10.4.2	Aboveground storage tanks
2.9.1.4	Retaining rings	2.9.10.4.3	Double-wall storage tanks
2.9.1.5	Screws	2.9.10.4.4	Storage tanks with plastic lining
2.9.1.6	Rivets	2.9.11	Metal hoses
2.9.1.7	Bolts	2.9.11.1	Connecting and fixing elements of metal hoses
2.9.1.8	Clips	2.9.11.2	Flexible hoses of high-grade steel
2.9.1.99	Connecting materials – other	2.9.11.3	Armoured hose sets for product transport
2.9.2	Forgings	2.9.12	Chains
2.9.3	Clamps / grips	2.9.13	Disk and other wheels
2.9.4	Springs	2.9.13.1	Disks
2.9.4.1	Coiled springs	2.9.14	Piston rings
2.9.4.2	Telescopic springs	2.9.15	Distance rings
2.9.4.3	Gas cylinders	2.9.16	Pins
2.9.4.4	Polyurethane springs	2.9.17	Draw bars
2.9.5	Expanded metal	2.9.18	Connecting rods
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2.9.8.6	Railway, road and pipeline steel bridges	2.13.10	Shaft seal rings
2.9.8.7	Steel containers, silos	2.13.11	Flange seals
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2.9.9.2	Fittings	2.13.18	Sealing sleeves
2.9.9.2.1	Fittings for joining by pressing in	2.13.19	Universal sealing systems
2.9.9.3	Flanges for tube structures	2.13.99	Seals – other
2.9.9.4	Coils, corrugated pipes	Glass and glass products	
2.9.9.99	Tube products – other	2.14.1	Technical glass
	Apparatus, vessels, tanks		

MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING

2.14.2	Optical glass, prisms, lenses	2.40.2	Sintered slide bearings
2.14.3	Illumination glass	2.40.3	Ball bearings
2.14.4	Glass tubes	2.40.4	Roller bearings
2.14.5	Glass components for industry	2.40.5	Needle bearings
		2.40.6	Joint bearings
2.14.6	Glass fibres	2.40.7	Tapered roller bearings
2.14.6.1	Glass fibre products	2.40.8	Antifriction spherical-roller bearings
		2.40.9	Sliding bearings
2.14.99	Glass products – other	2.40.10	Self-lubricating bearings
		2.40.11	Special bearings
2.15	Porcelain and technical ceramics	2.40.12	Bearing lubrication devices
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2.15.3	Fibre-reinforced industrial ceramics	Gears	
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2.15.99	Technical ceramics - other		
			Mechanical gearboxes
2.16	Carbon components	2.41.4.1	Gearboxes with spur gear wheels
		2.41.4.2	Gearboxes with bevel gear wheels
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2.18.1	Fabric dilatation compensators	2.41.4.4	Epicyclic gearboxes
		2.41.4.5	High-speed gearboxes
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		2.41.5	Combined mechanical gearboxes
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		2.41.8	Automatic gearboxes
2.22	Permanent magnets	2.41.9	Turbogears
2.23	Marking devices for lettering and marking	2.41.10	Cam transmission mechanisms
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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	2.42.1.1	Clutch linings
2.25	Covers, closures	2.42.2	Rigid clutches
2.25.1	Folded covering bellows	2.42.3	Flexible clutches
2.25.2	Telescopic guards	2.42.4	Friction clutches
2.25.3	Roller guards	2.42.5	Centrifugal clutches
		2.42.6	Safety clutches
2.26	Modular systems for the manufacture of single-purpose machines	2.42.7	Controlled overload clutches
2.26.1	Cabins for machine operation	2.42.8	Starting couplings
		2.42.9	Idling couplings
2.27	Work protection aids for industrial use	2.42.10	Claw couplings
2.28	Textile cleaning agents	2.42.11	Hydraulic clutches and accessories
		2.42.12	Electromagnetic clutches
2.29	Workshop equipment, industrial furniture	2.42.13	Shaft couplings
2.29.1	Vaults	2.42.14	Turboclutches
2.29.2	Workbenches	2.42.15	Pneumatic clutches
2.29.3	Metal kit boxes	2.42.99	Clutches – other
2.29.4	Mats for industrial operation		
2.29.5	Ergonomic work chairs		
		Brakes and brake systems	
2.30	Manufacture of prototypes, model design (Rapid Prototyping)	2.43.1	Brake accessories
2.30.1	Prototype production by means of stereolithography	2.43.1.1	Brake linings
2.30.2	Prototype production by means of casting in silicon moulds		
2.30.3	3D printers for prototyping	2.43.2	Disk brakes
		2.43.3	Multi-plate brakes
Sliding and antifriction bearings and their accessories		2.43.4	Drum brakes
2.40.1	Components and accessories of antifriction bearings	2.43.5	Spring brakes
2.40.1.1	Bearing bodies	2.43.6	Hydraulic brakes
		2.43.7	Magnetic brakes
		2.43.8	Eddy-current brakes
		2.43.9	Safety brakes



- 2.43.10 Electromagnetic brakes
- 2.43.11 Brake systems
- 2.43.99 Brakes – other

2.44 Final drives and accessories

Lubrication technology

- 2.45.1 Lubrication devices
- 2.45.2 Components for lubrication devices
- 2.45.3 Central lubrication technology
- 2.45.4 Filters for lubrication technology
- 2.45.99 Lubrication technology – other

2.87 CAD, CAM, CIM for bearings and gears

2.88 Consultancy for bearings and gears

2.89 Engineering and design services in the field of production of bearings and gears

2.90 Service and repairs of bearings and gears

- 2.90.1 Diagnostics of bearings and gears
- 2.90.2 Spare parts for bearings and gears
- 2.90.3 Reconstruction and refurbishment of bearings, gears and couplings

2.91 Assembly of machines and equipment

2.92 *Engineering of the assembly, servicing and repairs of technological equipment*

2.99 Materials and components for mechanical engineering – other

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

Drives

- 3.1.1 Converters for drives
- 3.1.2 Rotational electric motors**
- 3.1.2.1 Electric motors with integrated gear box
- 3.1.3 Stepping motors
- 3.1.4 Linear motors
- 3.1.5 Hydraulic devices for drives
- 3.1.6 Pneumatic equipment for drives

Linear moving units

- 3.2.1 Linear drives and feeds
- 3.2.1.1 Linear guides
- 3.2.1.2 Ball screws

3.3 Adjustable systems

Belt and chain drives

- 3.4.1 Accessories of belt and chain drives
- 3.4.1.1 Pulley blocks
- 3.4.1.2 Indented belts
- 3.4.1.3 V-belts
- 3.4.1.4 Flat belts
- 3.4.1.5 Driving chains
- 3.4.1.5.1 Roller chains
- 3.4.1.5.2 Sleeve-type chains
- 3.4.1.6 Chain wheels

3.5 Shafts for drives

- 3.5.1 Propeller shaft
- 3.5.1.1 Cardan joints
- 3.5.1.2 Homokinetic joints

- 3.5.2 Flexible shafts

3.6 High frequency spindles

Hydraulic elements and systems

3.10.1 Components of hydraulic elements

- 3.10.1.1 Hydraulic valves
- 3.10.1.2 Seals for hydraulics
- 3.10.1.3 Connecting elements for hydraulics
- 3.10.1.4 Hydraulic heads

3.10.2 Hydraulic generators

3.10.3 Hydraulic motors

- 3.10.3.1 High-torque low-speed hydraulic motors
- 3.10.3.2 Hydrodynamic torque converters
- 3.10.3.3 Hydrodynamic couplings
- 3.10.3.4 Hydrodynamic retarders

- 3.10.4 Hydraulic turbines
- 3.10.5 Hydraulic sets
- 3.10.6 Hydrostatic gearboxes
- 3.10.7 Hydraulic clutches
- 3.10.8 Hydraulic control elements
- 3.10.9 Hydraulic pressure switches
- 3.10.10 Hydraulic liquid tanks

3.10.11 Hydraulic hoses with union nuts

- 3.10.11.1 Low-pressure hydraulic hoses
- 3.10.11.2 High-pressure hydraulic hoses
- 3.10.11.3 Hose clamps for hydraulics
- 3.10.11.4 Hydraulic hose terminals

- 3.10.12 Hydraulic flow distributors
- 3.10.13 Hydraulic filters
- 3.10.14 Pumps for hydraulics
- 3.10.15 Hydraulic fans
- 3.10.16 Pressure gauges for hydraulics
- 3.10.17 Hydraulic control systems
- 3.10.18 Tests of hydraulic elements
- 3.10.19 Educational systems for hydraulics
- 3.10.20 Hydraulic and telescopic cylinders
- 3.10.21 Hydraulics – proportional technology
- 3.10.22 Manufacture of hydraulic sets and systems on request
- 3.10.99 Hydraulic elements – other

3.15 Fans and compressors for air-condition equipment

Compressors and industrial vacuum pumps

- 3.20.1 Components for compressors and vacuum pumps
- 3.20.1.1 Valves for compressors
- 3.20.2 Piston compressors
- 3.20.2.1 Oil-lubricated piston compressors
- 3.20.2.2 Oil-free piston compressors
- 3.20.3 Rotary compressors
- 3.20.4 Screw compressors
- 3.20.4.1 Oil-lubricated screw compressors
- 3.20.4.2 Oil-free screw compressors
- 3.20.5 Diaphragm compressors
- 3.20.6 High-pressure compressors
- 3.20.7 Turbo-compressors
- 3.20.7.1 Axial turbo-compressors
- 3.20.7.2 Radial turbo-compressors
- 3.20.8 Mobile compressors
- 3.20.9 Compressors for cooling equipment
- 3.20.10 Oil-free air compressors
- 3.20.11 Lubricated air compressors
- 3.20.12 Compressors for technical gases
- 3.20.13 Industrial vacuum pumps
- 3.20.14 Booster compressors
- 3.20.15 Hydro-pneumatic accumulators
- 3.20.16 Blowers
- 3.20.17 Equipment for the drying, treatment and filtration of compressed gas
- 3.20.18 Condensate cleaners for oil compressors
- 3.20.19 Control devices for compressors
- 3.20.99 Compressors and industrial vacuum pumps – other

Pneumatic elements

- 3.21.1 Components for pneumatic elements and devices
- 3.21.2 Pneumatic motors
- 3.21.3 Air pressure and flow control elements
- 3.21.4 Pneumatic pressure valves
- 3.21.5 Pneumatic closing valves
- 3.21.6 Pneumatic flow valves
- 3.21.7 Rapid vent valves
- 3.21.8 Pneumatic safety valves
- 3.21.9 Pneumatic control, throttle valves
- 3.21.10 Pneumatic special valves
- 3.21.11 Pneumatic working units
- 3.21.12 Pressure converters
- 3.21.13 Air treatment devices
- 3.21.14 Pneumatic distributors
- 3.21.15 Pneumatic cleaners and separators
- 3.21.16 Pneumatic filters
- 3.21.17 Pneumatic gearboxes
- 3.21.18 Pneumatic clutches
- 3.21.19 Pneumatic control systems
- 3.21.20 Pneumatic cylinders
- 3.21.21 Micro-pneumatic components and systems



3.21.99 Pneumatic elements – other

Cooling and freezing equipment for industry

- 3.22.1 Small cooling machines and equipment
- 3.22.2 Freezing equipment for skating rings
- 3.22.3 Flake ice machines
- 3.22.4 Special cooling and freezing equipment
- 3.22.5 Industrial fluid coolers
- 3.22.6 Evaporating condensers
- 3.22.7 Cooling towers
- 3.22.8 Control and regulation instruments for cooling equipment**
- 3.22.9 Components and accessories of cooling equipment
- 3.22.99 Cooling and freezing equipment for industry – other

Driers

- 3.23.1 Components and accessories for drying equipment
- 3.23.2 Tray and grill driers
- 3.23.3 Cabinet and chamber driers
- 3.23.4 Tunnel driers with conveyer
- 3.23.5 Rotary driers
- 3.23.6 Fluidization driers
- 3.23.7 Vacuum driers
- 3.23.99 Industrial driers – other

Industrial fittings

- 3.30.1 Components and accessories for fittings**
 - 3.30.1.1 Actuators for fittings and valves
 - 3.30.1.1.1 Electric actuators for fittings and valves
 - 3.30.1.1.2 Pneumatic actuators for fittings and valves
 - 3.30.1.1.3 Hydraulic actuators for fittings and valves
 - 3.30.1.1.4 Manual actuators for fittings and valves
 - 3.30.1.2 Hardware and software for the control of fittings
- 3.30.2 Hydraulic valves
- 3.30.3 Closing and check valves
- 3.30.4 Safety valves
- 3.30.5 Control valves**
- 3.30.6 Pressure reducing valves
- 3.30.7 Control servovalves
- 3.30.8 Electromagnetic valves
- 3.30.9 Thermostatic valves
- 3.30.10 Ball cocks
- 3.30.11 Cocks – other
- 3.30.12 Gate valves
- 3.30.13 *Flaps*
 - 3.30.13.1 Non-return flap valves
 - 3.30.13.2 Closing flaps
 - 3.30.13.3 Control flaps**
- 3.30.14 Fittings for the chemical industry
 - 3.30.14.1 Fittings for high pressures and temperatures
- 3.30.15 Fittings for power engineering
- 3.30.16 Fittings for vacuum technology
- 3.30.17 Fittings for aggressive materials
- 3.30.18 Fittings for abrasive materials
- 3.30.19 Fittings for flammable and explosive materials
 - 3.30.19.1 Fittings for oil supply
 - 3.30.19.2 Fittings for gas supply
- 3.30.20 Fittings for thin flowing materials
- 3.30.21 Fittings for waste and sludge water
- 3.30.22 Fittings for long distance water distributions
 - 3.30.22.1 Fittings for pure water
- 3.30.23 Plastic fittings

- 3.30.24 Plastic coated fittings
- 3.30.25 Corrosion-proof fittings
- 3.30.26 Coaxial fittings
- 3.30.27 Mixing fittings
- 3.30.28 Special fittings
- 3.30.99 Industrial fittings – other

Industrial pipelines, tanks

- 3.31.1 *Components for pipelines*
 - 3.31.1.1 Flanges
 - 3.31.1.2 Shaped pieces
 - 3.31.1.3 Elbows
 - 3.31.1.4 T-pieces
 - 3.31.1.5 Blinders
- 3.31.2 Shock absorbers for pipelines
- 3.31.3 Pipeline seating and suspensions
- 3.31.4 Centre drilling and ballooning sets for pipelines
- 3.31.5 Chemical and physical effect resistant lined pipelines
- 3.31.6 Pipelines with continual indication of leakage of transported materials
- 3.31.7 Cisterns

Jets, nozzles

- 3.32.1 Air nozzles
- 3.32.2 Nozzles for liquids
- 3.32.3 Low pressure jets
- 3.32.4 High pressure jets

Pumps

- 3.40.1 Components and accessories for pumps
- 3.40.2 Pumps for nuclear power engineering
- 3.40.3 Pumps for classical power engineering
- 3.40.4 Pumps for high pressures and temperatures
- 3.40.5 *Pumps for chemical engineering***
 - 3.40.5.1 Pumps for acids and lyes
 - 3.40.5.2 Petrochemical pumps
 - 3.40.5.3 Pumps for flammable and explosive materials
 - 3.40.5.4 Ammonia pumps for cooling circuits
- 3.40.6 *Pumps for the food industry***
 - 3.40.6.1 Pumps for thin flowing materials
 - 3.40.6.2 Pumps for sugar factories
- 3.40.7 *Pumps for mines***
 - 3.40.7.1 Pumps for ore washing
- 3.40.8 Sludge pumps
- 3.40.9 Pumps for mechanical engineering
- 3.40.10 Pumps for water management
- 3.40.11 Drainage pumps
- 3.40.12 Waste water pumps
- 3.40.13 Waste water pumping cranes
- 3.40.14 *Pumps for agriculture*
 - 3.40.14.1 Irrigation and liquid manure pumps
- 3.40.15 Irrigation technology
- 3.40.16 Potable water pumps
- 3.40.17 *Industrial pumps***
 - 3.40.17.1 Pumps for the textile industry
 - 3.40.17.2 Pumps for cement production
 - 3.40.17.3 Pumps for the paper industry
 - 3.40.17.4 Oil pumps for industrial equipment
- 3.40.18 *Pumps for small-scale consumers***
 - 3.40.18.1 Plastic pumps
 - 3.40.18.2 Hose pumps
 - 3.40.18.3 Manual pumps

- 3.40.18.4 Barrel pumps
- 3.40.19 High-pressure pumps**
- 3.40.20 Pumps for solid materials**
- 3.40.21 Pumps for abrasive materials**
- 3.40.22 Pumps for fluid gases**
- 3.40.23 Submersible pumps**
- 3.40.23.1 Submersible pumps for borings
- 3.40.24 Controlled volume pumps**
- 3.40.25 Self-priming pumps
- 3.40.26 Heating-system pumps
- 3.40.27 Motor-driven water pumps
- 3.40.28 Pumps for removing environmental incident impacts
- 3.40.29 Floating pumps
- 3.40.30 Pumping sets and complete plant equipment
- 3.40.31 Pumps and meters for liquid fuels**
- 3.40.32 Fuel dispensers
- 3.40.99 Pumps – other
- 3.50 Diluting devices**
- 3.50.1 Diluting devices for liquid products
- 3.50.2 Diluting devices for powder products
- 3.77 CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology**
- 3.78 Consultancy on drives, hydraulics, air-conditioning and compressor technology**
- 3.79 Engineering and design of drives, hydraulics, air-conditioning and compression technology**
- 3.80 Service and repairs of drives, hydraulics, compressor technology, air-conditioning and cooling devices**
- 3.80.1 Refurbished drives, hydraulic systems, HVAC and cooling units, driers**
- 3.80.2 Spare parts of drives, hydraulics for air-conditioning and compressor equipment
- 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**
- 3.91 Consultancy in water management and irrigation technology**
- 3.92 Engineering and design services in water management and irrigation technology**
- 3.93 Service and repairs of irrigation technology and water management equipment**
- 3.93.1 Diagnostics of water management equipment and irrigation technology**
- 3.93.2 Spare parts for water management equipment and irrigation technology
- 3.93.3 Reconstruction and upgrading of water management equipment and irrigation technology
- 3.94 Refurbished water management equipment and irrigation technology**
- 3.95 Technologies for irrigation and water management**
- 3.96 Implementation of complete irrigation technology and water management plants**
- 3.99 Water management equipment and irrigation technology – other**



POWER ENGINEERING AND HEAVY-CURRENT ELECTRICAL ENGINEERING

Power engineering and heavy current electrical engineering	6.4.2	Steam turbines
	6.4.2.1	Steam turbo-sets
Primary sources for the power industry	6.4.3	Expansion turbines
6.1.1 Brown coal	6.4.4	Combustion turbines
6.1.2 Bituminous coal	6.4.5	Gas turbines
6.1.3 Briquettes	6.4.99	Turbines - other
6.1.4 Coke		Nuclear technology
6.1.5 Natural gas	6.5.1	Components of nuclear equipment
6.1.6 Fuel oils	6.5.2	Equipment for auxiliary nuclear facilities
6.1.7 Fuel cells for nuclear power plants	6.5.99	Nuclear technology - other
6.1.99 Primary sources for the power industry - other		Complete power plants
Industrial boilers and their accessories	6.6.1	Steam power plants
6.2.1 Components and accessories of industrial boilers	6.6.2	Combined systems: power and district heating plant
		Thermal power plants
Industrial boilers	6.6.3.1	Thermal power plants firing solid fuels
6.2.2.1 Brown coal fired boilers	6.6.3.2	Thermal power plants firing liquid fuels
6.2.2.2 Bituminous coal fired boilers	6.6.3.3	Thermal power plants firing gas
6.2.2.3 Fluidized bed boilers	6.6.3.4	Combined cycle power plants
6.2.2.4 Oil and gas fired boilers	6.6.3.5	Thermal power plants – incineration plants
6.2.2.5 Industrial recovery boilers	6.6.3.6	Nuclear power plants
6.2.2.6 Industrial waste fired boilers		Combustion engines
	6.7.1	Elements of combustion engines
Industrial steam boilers	6.7.2	Oil engines, Diesel engines
6.2.3.1 Industrial warm-water boilers	6.7.3	Petrol engines
6.2.3.2 Industrial hot-water boilers	6.7.4	Double-fuel motors
6.2.3.3 Low-pressure boilers		Gas engines
6.2.3.4 Medium-pressure boilers	6.7.5	Natural gas engines
6.2.3.5 High-pressure boilers	6.7.5.1	
	6.7.99	Combustion engines - other
6.2.4 Steam generators	6.8	Electric power sets (motor-generator back-up sources)
6.2.5 Tanks and pipelines for industrial boilers	6.9	Equipment for utilization of thermal power from thermal engines and turbines
	6.9.1	Cogeneration units
Boiler burners	6.10	Information and control technologies for the power industry
6.2.6.1 Oil boiler burners	6.11	Equipment for sulphur and NOx reduction in flue gases
6.2.6.2 Pulverized coal boiler burners	6.11.1	Flue gas scrubbing equipment
6.2.6.3 Gas boiler burners	6.11.2	Emission monitoring system
6.2.6.4 Combined gas-oil boiler burners	6.12	Auxiliary power plant equipment
6.2.6.5 Burners for waste incineration	6.13	Water treatment plants in power stations
6.2.6.6 Burners guaranteeing low NO _x content in flue gases	6.14	Steam turbine condensers
6.2.6.99 Boiler burners - other	6.15	Steam condensate separators
	6.15.1	Equipment for oil and water separation from condensate in power industry
6.3 Equipment for heat energy generation	6.16	Equipment for electrical power distribution
6.3.1 Components of equipment for heat energy generation	6.16.1	Switching stations and distributions of EHV, MV, MV and LV
	6.17	Gas industry equipment
6.3.2 Furnaces	6.17.1	Gas regulating, measuring and safety fittings
6.3.2.1 Grate furnaces	6.17.2	Compressors and turbo-compressors designed for natural gas treatment and gas distribution systems
6.3.2.2 Dry pulverized coal furnaces	6.17.3	Gas regulation station
6.3.2.3 Fluidizing furnaces	6.17.3.1	Production and refurbishment of gas regulation stations
6.3.3 Equipment for chemical water treatment in the power industry	6.18	Equipment for thermal power distribution
6.3.4 Equipment for thermal water treatment in the power industry	6.18.1	Exchangers, piping, valves, pumps, connecting materials
6.3.5 Feed water preheaters	6.19	Heat insulating materials for power equipment
6.3.6 Gas preheaters		
6.3.7 Boiler plants		
6.3.8 Heating plants		
6.3.9 Waste incinerating plants		
6.3.9.1 Municipal waste incinerating plants		
6.3.9.2 Industrial waste incinerating plants		
6.3.10 Exchangers, exchanger stations		
6.3.10.1 Heat exchangers		
6.3.10.2 Exchanger stations		
6.3.11 Machines and equipment for fuel handling		
6.3.99 Equipment for thermal energy generation - other		
Turbines		
6.4.1 Components and accessories of turbines		



6.20	Heating equipment	6.35.9	Power industry equipment for biogas utilization
6.20.1	Components for heating equipment	6.35.9.1	Bioreactors
6.20.2	Heating components	6.35.9.2	Biogas engines
6.20.3	Gas radiant heating for industrial applications	6.35.9.3	Biogas stations
6.21	Recuperation units, recuperators	6.35.10	Equipment and accessories for geothermal energy utilization
6.22	Equipment, systems and aids for provision of safety in nuclear plants	6.35.11	Waste heat utilization, recovery
6.23	CAD, CAM, CIM in the power industry	6.35.12	Biofuels
6.24	Consultancy in the power industry	6.35.13	Hybrid drives
6.25	Engineering and design services in the field of power industry equipment	6.35.14	Fuel cells using hydrogen, natural gas, alcohol for power generation
6.26	Service and repairs of power industry equipment	6.35.15	Electrical power distribution grids of Smart Grids type
6.26.1	Diagnostics of power industry equipment	6.35.16	Services, consultancy, financing in alternative power sources field
6.26.2	Spare parts for power industry equipment and machines	6.35.17	Institutions focused on renewable power sources field
6.26.3	Turn-key general repairs of power industry equipment	6.35.99	Alternative power sources - other
6.27	Refurbishment and modernization of power industry equipment	Trading in energies, in CO₂ emissions	
6.27.1	Refurbishment and modernization of boiler plants	Trading in energies	
6.27.2	Refurbishment and modernization of turbines	6.36.1.1	Energy exchange
6.28	Civil and erection works for power industry	6.36.1.2	Brokers, traders in energies
6.29	Oil tank cleaning	6.36.1.3	Short-time markets and future markers with energy
6.30	Technology for classic and nuclear power industry and heating plants	6.36.1.4	Making energy sales contracts
6.30.1	Technological projects for classic and nuclear power industry and heating plants	Trading in CO₂ emissions	
6.30.2	Transfer of technologies for classic and nuclear power industry and heating plants	6.36.2.1	CO ₂ emission brokers, traders
6.30.3	Technology supplies for classic and nuclear power industry and heating plants	Heavy-current electrical engineering	
6.31	Execution of investment projects for classic and nuclear power industry and district heating plants	Cables and conductors	
6.32	Manufacturers of electric power, gas and heat	6.40.1	High and very high voltage cables
6.33	Distributors of electric power, gas and heat	6.40.2	Power cables
6.34	Classical and nuclear power industry and heating plants - other	6.40.2.1	Power cables combined with optical fibre
Alternative power sources		6.40.3	Flame retarding cables
6.35.1	Machines and equipment for production of pressed biofuels (pellets, briquets)	6.40.4	Earth cables
6.35.2	Biomass fired boilers	6.40.5	Self-supporting cables
6.35.2.1	Wood waste fired boilers	6.40.6	Flexible cables for machine control
6.35.3	Biomass fired boiler plants, heating plants	6.40.7	Connecting cables for instruments
6.35.4	Solar heating systems	6.40.8	Cable couplers, eyes
6.35.4.1	Solar collectors	6.40.9	Cable connectors
6.35.5	Photovoltaic electric power sources	6.40.10	Cable terminals
6.35.5.1	Accessories of photovoltaic electric power sources	6.40.11	Heavy current installation lines
6.35.5.2	Solar power stations	6.40.12	Leads for electrotechnical windings
6.35.6	Hydro-electric power plants	6.40.13	Insulated conductors
6.35.6.1	Water turbines and their accessories	6.40.13.1	Conductors for power trolleys
6.35.6.1.1	Small water turbines and their accessories	6.40.14	Earthing materials
6.35.6.1.2	Control equipment for hydro-electric power plants	6.40.15	Cable lines (stands, supports, lines, trays, troughs)
6.35.7	Wind power plants and their accessories	6.40.16	Fastening materials for cables and conductors
6.35.7.1	Rotors for wind power stations	6.40.17	Cable coils
6.35.8	Heat pumps and their accessories	6.40.17.1	Cable winders
		6.40.18	Superconductors
		6.40.19	Heating resistance materials
		6.40.20	Cable marking systems
		6.40.21	Tools and equipment for working with cables and conductors
		6.40.97	Electric assembling works and services in the field of cable technology
		6.40.98	Complete production programme of cables, conductors and accessories
		6.40.99	Cables and conductors – other
		Electrotechnical insulators and insulants	
		6.41.1	Porcelain insulators



- 6.41.2 EL. wiring and assembly porcelain
- 6.41.3 Ceramic components for el. engineering – other
- 6.41.4 Electrotechnical insulants (excluding ceramic)
- 6.41.5 Insulating tubes for high voltage technology
- 6.41.99 Electrotechnical insulators and insulants – other

6.42 Power capacitors
Electrochemical power supplies

- 6.43.1 **Batteries, electrochemical cells**
- 6.43.2 **Accumulators**
- 6.43.3 **Accumulator charging systems**

- 6.43.99 Electrochemical power supplies – other

Electric light sources

- 6.44.1 **Lamps**
- 6.44.1.1 Tungsten-halogen lamps
- 6.44.1.2 LED lamps

6.44.2 **Fluorescent tubes**

6.44.3 **Discharge lamps**

- 6.44.3.1 Starters for discharge lamps

6.44.99 **Electric light sources – other**

Lighting fittings

- 6.45.1 **Outdoor lighting fittings**
- 6.45.2 **Lighting fittings for dangerous and demanding environments**

- 6.45.3 **Searchlights and headlights**
- 6.45.3.1 Hall headlight lighting fittings

6.45.99 **Lighting fittings – other**

Transducers, rectifiers and other electrotechnical elements

6.47.1 **Heavy-current power electronics (diodes, transistors, thyristors)**

Accessories of transducers, rectifiers, switches

- 6.47.2.1 Transducers
- 6.47.2.2 Rectifiers
- 6.47.2.3 Stabilizers
- 6.47.2.4 Current inverters
- 6.47.2.5 Electric current converters
- 6.47.2.6 Frequency converters
- 6.47.2.7 DC voltage converters
- 6.47.2.8 Electric current switches and controllers
- 6.47.2.9 Converter stations for municipal transport

6.48 **Uninterruptible power supplies**

- 6.48.1 Electric backup power supplies

Electric current switchboards

- 6.49.1 Parts of switchboards

6.49.2 **LV switchboards**

- 6.49.2.1 Main switchboards
- 6.49.2.2 Home switchboards
- 6.49.2.3 Building site switchboards
- 6.49.2.4 Industrial switchboards

- 6.49.3 HV switchboards
- 6.49.4 Compensation switchboards
- 6.49.5 I+C switchboards
- 6.49.6 Cable switching cabinets
- 6.49.7 Universal switchgear cubicles

- 6.49.8 Switchboards to order
- 6.49.9 Distribution boards

6.50 Plugs and adapter plugs

LV connecting and switching instruments

- 6.51.1 Parts of LV connecting and switching instruments
- 6.51.2 LV switches
- 6.51.3 LV contactors and circuit breakers
- 6.51.4 Fuses
- 6.51.5 **Starters**
- 6.51.6 Rheostats
- 6.51.7 LV electromagnets
- 6.51.8 **Command devices**

Power switching devices

- 6.52.1 Switch boxes
- 6.52.2 Safety interrupters, load disconnecters
- 6.52.3 Safety strips
- 6.52.4 Protective motor circuit breakers

Transformers

- 6.53.1 LV transformers
- 6.53.2 HV transformers
- 6.53.3 VHV transformers
- 6.53.4 Capacitive voltage transformers
- 6.53.5 **Regulating (variable-voltage) transformers**
- 6.53.6 Measuring transformers
- 6.53.7 **Switches for transformers**

- 6.53.8 Components and accessories of transformers
- 6.53.8.1 **Electronical voltage controllers for power controllable transformers**

- 6.53.9 *Choke coils*
- 6.53.10 Service and repairs of HV and VHV transformers
- 6.53.11 Kiosk (concrete) transformer stations

Electric HV and VHV instruments

- 6.54.1 HV and VHV switches
- 6.54.2 HV contactors
- 6.54.3 HV and VHV lightning arresters
- 6.54.4 HV and VHV disconnectors
- 6.54.5 HV vacuum circuit breakers
- 6.54.6 Protective and safety aids for HV technology
- 6.54.7 Static electricity protection equipment
- 6.54.8 Earthing systems

Electric motors

- 6.55.1 Components for electric motors
- 6.55.2 Synchronous electric motors

Asynchronous electric motors

- 6.55.3.1 Asynchronous electric motors up to 1 kW
- 6.55.3.2 Asynchronous electric motors in the range of 1 kW to 100 kW
- 6.55.3.3 Asynchronous electric motors of more than 100 kW
- 6.55.3.4 Low-voltage asynchronous motors
- 6.55.3.5 High-voltage asynchronous motors
- 6.55.3.6 Asynchronous brakes

- 6.55.3.7 **Starters for asynchronous motors**

- 6.55.3.7.1 **Soft starters**

6.55.4 **Commutator electric motors**

- 6.55.4.1 Commutators and collector bodies

6.55.5 **DC electric motors**

- 6.55.5.1 DC electric motors up to 1 kW
- 6.55.5.2 DC electric motors of more than 1 kW
- 6.55.5.3 Brushless DC el. motors

6.55.6 **Stepping electric motors, micromotors**



6.55.7	Piezomotors	6.60.8	Industrial sockets and plugs
6.55.8	Small gear motors	6.60.9	Connecting wiring material
6.55.9	Linear electric motors	6.60.99	Wiring material – other
6.55.10	Servomotors DC		
6.55.11	Servomotors AC		
		6.61	Measuring transducers for heavy electrical engineering
6.55.12	Electric motors for special purposes	6.62	Interference suppression filters
6.55.12.1	Electric motors for explosive environments	6.62.1	Performance filters for current quality maintenance in the mains
6.55.12.2	Electric motors designed for operation in extreme temperatures		
6.55.13	Custom-made electric motors	6.63	Electromagnets for mechanical engineering
6.55.14	Repairs of electric motors	6.63.1	Separation magnets
6.55.99	Electric motors – other	6.64	Electric instruments for explosive environments
6.56	Rotary power supplies	6.65	Electrotechnical tools for heavy electrical engineering
6.56.1	Alternators	6.68.1	Monitoring of electric power consumption take-off and control
6.56.2	Synchronous generators		
6.56.3	Power factor compensators	6.66	Protective aids for work on electric devices
6.56.4	Dynamos	6.67	Lightning rods, lightning stroke protection systems
6.56.99	Rotary power supplies – other		
6.57	Dynamometers	6.68	Control systems for power plants, substations and transformer stations
		6.68.1	Monitoring of el. power consumption take-off and control
Electric industrial heating		6.77	CAD, CAM, CIM in heavy-current electrical engineering
6.58.1	Components for thermal electric equipment	6.78	Consultancy in heavy-current electrical engineering
6.58.2	Electric arc and resistance furnaces	6.79	Engineering and design services in heavy-current electrical engineering
6.58.3	Induction furnaces	6.80	Service and repairs of machines and equipment in heavy-current electrical engineering
6.58.4	Dielectric equipment	6.80.1	Diagnostics of machines and equipment in heavy-current electrical engineering
6.58.5	HF heating	6.80.2	Spare parts for equipment in heavy-current electrical engineering
6.58.6	Microwave heating	6.80.3	Refurbishment and upgrading of equipment in heavy-current electrical engineering
6.58.7	Infra-red heating	6.81	Reworked machines for heavy-current electrical engineering
6.58.8	Special electric heating	6.99	Elements and equipment of heavy-current electrical engineering - other
6.58.8.1	Additional heating of pipelines		
6.58.9	Heating cables		
6.58.9.1	Self-regulating heating cables		
6.58.10	Induction heating equipment		
Electric rotary drives			
6.59.1	Components and accessories of electric drives		
6.59.2	Electric supply and drive sets		
6.59.3	Induction controllers		
6.59.4	Reactive power controllers		
	Transducers for DC and AC motor drives		
6.59.5.1	One-way converters with pulse width modulation		
6.59.5.2	Controlled rectifiers		
6.59.5.3	AC converters		
6.59.5.4	Voltage frequency converters		
6.59.5.5	Current frequency converters		
6.59.5.6	Frequency converters with vector control of the electromagnetic field		
6.59.99	Electric drives – other		
Wiring material			
6.60.1	House switches and sockets		
6.60.2	Mounting boxes		
6.60.2.1	Instrument and switchboard junction boxes		
6.60.3	Terminal boards		
6.60.4	Electronic controllers and devices		
6.60.5	Support and fixing materials		
6.60.5.1	Wiring strips, tubes, cable conduits		
6.60.6	Plastic and metal cable terminals		
6.60.7	Cable protectors		



ELECTRONICS, AUTOMATION AND MEASURING TECHNOLOGY

Machines and equipment for the electrical industry

- 7.1.1** *Machines for manufacture of conductors and cables*
- 7.1.1.1 Production machines for cable assembly
- 7.1.1.2 Cable and conductor markers
- 7.1.2** *Winding machines*
- 7.1.2.1 Programmable winding machines
- 7.1.2.2 Accessories of winding machines
- 7.1.3** *Wire cutting and stripping machines*
- 7.1.3.1 Wire cutting and stripping tools
- 7.1.4** *Cable, bunched cable and interconnecting system testing equipment*
- 7.1.5** *Pressing machines for the electrotechnical industry*
- 7.1.6** *Insulant production machines*
- 7.1.7** *Machines for insulation, impregnation and sealing in electrical engineering*
- 7.1.8** *Bandaging machines*
- 7.1.9** *Coil production lines*
- 7.1.10** *Transformer production lines*
- 7.1.11** *Electric motor production machines and equipment*
- 7.1.12** *Resistor production machines*
- 7.1.13** *Capacitor production machines*
- 7.1.14** *Cleaning machines and equipment in electrical engineering*
- 7.1.14.1 Ultrasound cleaning devices
- 7.1.15** *Vacuum equipment for the electrotechnical industry*
- 7.1.16** *Machines for production of semiconductors, SMD elements and hybrid circuits*
- 7.1.17** *Machines for printed circuit board production*
- 7.1.17.1 Drilling machines for printed circuit boards
- 7.1.17.2 Automatic and semi-automatic component mounting machines
- 7.1.17.2.1 Automatic and semi-automatic SMT component mounting machines
- 7.1.17.3 Soldering devices for classic, mixed and surface mounting (SMT)
- 7.1.17.3.1 Automatic soldering equipment
- 7.1.17.3.2 Soldering irons and gobblers
- 7.1.18** *Assembly devices for PCB technology*
- 7.1.18.1 Protective atmospheres for PCB assembly
- 7.1.19** *Printed circuit board assembly tools*
- 7.1.20** *Machines for installation of electrical part contacts*
- 7.1.21** *Testing systems for printed circuit boards*
- 7.1.22** *Handling modules for the electrotechnical industry*
- 7.1.23** *Automatic visual checking equipment*
- 7.1.24** *Palletizing systems for electrotechnical industry*
- 7.1.25** *Systems for soldered component dismantling*
- 7.1.26** *Single-purpose machines for electrotechnical production*
- 7.1.27** *Measuring and testing equipment for electrotechnical production*
- 7.1.28** *PCB repair systems*
- 7.1.29** *Auxiliary equipment for electrical engineering and electronics*
- 7.1.30** *Antistatic workplaces and aids*
- 7.1.85** *Complete plants for electrical engineering and electronic products*
- 7.1.87** *CAD, CAM, CIM in the electrotechnical industry*
- 7.1.88** *Consultancy for the electrotechnical industry*
- 7.1.89** *Engineering and design services for the electrotechnical industry*
- 7.1.90** *Service and repairs of machines and equipment for the electrotechnical industry*

- 7.1.90.1 Diagnostics of machines and equipment in the electrotechnical industry
- 7.1.90.2 Spare parts for equipment in the electrotechnical industry
- 7.1.90.3 Refurbishment and upgrading of equipment in the electrotechnical industry
- 7.1.91** *Reworked machines and equipment for the electrotechnical industry*
- 7.1.92** *Technologies for the electrotechnical industry*
- 7.1.93** *Execution of investment for the electrotechnical industry*
- 7.1.99** *Machines and equipment for the electrotechnical industry – other*

Electronic components and elements

- Conductors**
- 7.2.1.1 Communication cables
- 7.2.1.1.1 Flexible communication cables
- 7.2.1.2 Connecting wires and twisted conductors
- 7.2.1.3 Conductors and fine wires for windings
- 7.2.1.4 Conduit lines
- 7.2.1.5 Optical cables
- 7.2.1.6 Assembled cables for transmission technology
- 7.2.1.99 Conductors – other
- Passive electrical components**
- 7.2.2.1 Resistors for electronics
- 7.2.2.1.1 Resistor networks
- 7.2.2.2 Potentiometers for electronics
- 7.2.2.3 Capacitors for electronics
- 7.2.2.4 Coils for electronics
- 7.2.2.5 Piezo-electric crystal elements
- 7.2.2.6 Ferrite cores
- 7.2.2.7 SMD passive elements
- 7.2.2.99 Passive electronic elements – other
- 7.2.3** *Instrument batteries and accumulators*
- Semiconductor elements**
- 7.2.4.1 Diodes
- 7.2.4.2 Photodiodes
- 7.2.4.3** *Transistors*
- 7.2.4.4 Phototransistors
- 7.2.4.5 Thyristors
- 7.2.4.6 Photoresistors
- 7.2.4.7 SMD active elements
- 7.2.4.8 Semiconductor components for microwave technology
- 7.2.4.9 Semiconductor switching relays
- 7.2.4.99 Semiconductor elements – other
- 7.2.5** *Analogue integrated circuits*
- 7.2.6** *Digital integrated circuits*
- 7.2.6.1 Gate circuits
- 7.2.7** *IGBT modules*
- 7.2.8** *Hybrid circuits*
- 7.2.9** *Electronic components other than semiconductor ones – other*
- Optic and optoelectronic elements**
- 7.2.10.1 Miniature bulbs
- 7.2.10.2 Visualizing elements, indicators
- 7.2.10.3 LED displays
- 7.2.10.4 LCD displays
- 7.2.10.5 Laser displays
- 7.2.10.6 Plasma displays
- 7.2.10.7 Fluorescent displays
- 7.2.10.8 Solar cells
- 7.2.10.9** *Connecting optical elements*



ELECTRONICS, AUTOMATION AND MEASURING TECHNOLOGY

7.5.1.99	Components for automation and control technology equipment – other	7.5.9.7	Systems for automatic technological process control in metallurgy
7.5.2	Transducers of electric and non-electric variables	7.5.9.8	Systems for automatic technological process control in glass production
7.5.2.1	Intelligent sensor systems	7.5.9.9	Systems for automatic technological process control in food industry
7.5.2.2	Incremental and absolute encoders	7.5.9.10	Systems for automatic technological process control in paper factories
7.5.3	Counters for regulation	7.5.9.11	Systems for automatic control and monitoring in environmental protection
7.5.4	Remote checking and control	7.5.9.12	Systems for automatic control and monitoring in water management systems
7.5.4.1	Remote electric measurement / control	7.5.9.13	Systems for automatic control and monitoring in collector construction equipment
7.5.4.2	Automatic central checking / control	7.5.9.14	Systems for automatic control and monitoring in public transport
7.5.4.3	Telephone controlled devices		
7.5.4.4	Radio systems for remote control of industrial technology	7.5.9.99	<i>Systems for automatic technological process control in other industrial branches</i>
7.5.4.5	GSM / GPRS based data networks	7.5.10	Automatic control systems for railway transport
7.5.4.5.1	Communication modules for GSM / GPRS	7.5.10.1	Measuring and automation equipment for railway operation
	Electric and electromagnetic controllers	7.5.11	Automatic control systems for air service
7.5.5.1	Magnetic controllers	7.5.12	Measuring and automation equipment for support and distribution
7.5.5.2	Hydraulic controllers	7.5.13	GIS (Graphic Information Systems) for utility lines administration
7.5.5.3	Pneumatic controllers		
7.5.5.4	Electronic controllers	7.5.14	Data collecting and processing equipment for control computers
7.5.5.5	PID controllers	7.5.14.1	Bar code readers
7.5.5.5.1	Programmable PID controllers	7.5.14.2	RFID technologies
7.5.5.5.2	Adaptable PID controllers with microprocessor	7.5.15	Image processing systems
7.5.5.6	Control systems with fuzzy logic	7.5.15.1	Robot vision for 2D images
7.5.5.7	Programmable logic controllers (PLC)	7.5.15.2	Robot vision for 3D images
7.5.5.8	Interconnection of programmable logic controller with master computer	7.5.16	Data distribution technology in buildings
7.5.5.9	Control systems PCC (Programmable Computer Controller)	7.5.16.1	Control systems of building and construction technology
7.5.5.10	Optimizing systems	7.5.17	Redundant control systems with high reliability
	Controllers and power elements	7.5.18	Explosion-proof components and systems for control, automation and regulation equipment
7.5.6.1	Servomotors (pneumatic, integrated)	7.5.99	Instruments and equipment for automatic control – other
7.5.6.2	Power units (actuators)		
7.5.6.2.1	Digital actuators	Warning and safety equipment	
7.5.6.3	Selsyns	7.6.1	Railway, air and road warning and safety equipment
7.5.6.4	Power amplifiers	7.6.2	Mining safety equipment
7.5.6.5	Relays	7.6.3	Monitoring and warning systems for danger
7.5.6.5.1	Power relays	7.6.4	Fault reporting systems
7.5.6.5.2	Watchdog relays for electric and non-electric quantities	7.6.4.1	Fault reporting systems of safety equipment
7.5.6.6	Switches for control	7.6.99	Warning and safety equipment – other
7.5.6.6.1	Cam switches	Supervising and control equipment	
7.5.6.7	Indoor and outdoor thermostats	7.7.1	Access checking
7.5.7	Control rooms	7.7.1.1	Light barriers and other photoelectric devices
7.5.7.1	Operation consoles for technology control	7.7.1.2	Access systems with magnetic and chip cards
7.5.8	Control and measuring systems	7.7.2	Personnel and luggage checking equipment
7.5.8.1	Control and measuring systems for company power engineering	7.7.3	TV monitoring equipment
	Systems for automatic production process control	7.8	Fire, gas detecting systems
7.5.9.1	Systems for automatic thermal process and air-conditioning control	7.8.1	Smoke alarm detectors
7.5.9.2	Systems for automatic technological process control in mechanical engineering	7.9	Antifire and antiexplosion safety equipment in industrial plants
7.5.9.3	Systems for automatic technological process control in chemical industry	7.9.1	Fire safety systems for machine-tools and forming machines
7.5.9.4	Systems for automatic technological process control in power engineering		
7.5.9.5	Systems for automatic technological process control in gas management		
7.5.9.6	Systems for automatic technological process control in power plants and remote heating		

ELECTRONICS, AUTOMATION AND MEASURING TECHNOLOGY

7.9.2	Spray booth fire safety systems	7.14.8	Comprehensive management for holding companies
Systems for detecting robberies, danger, entry of unauthorized persons		7.14.9	Company management network system
7.10.1	Systems with central security board	7.14.9.1	Client/server based company management system
7.10.2	Electric and photoelectric supervision systems	7.14.10	Modular system of business management
7.10.2.1	CCD camera systems	7.14.11	Comprehensive information system for crisis management
7.10.2.2	Broken glass detectors	7.14.99	System integration, complex solution of ERP - other
7.10.3	IR supervision systems	7.15	System integration in the sector of industrial information, measuring and control systems
7.10.4	Ultrasonic supervision systems	7.15.1	Made-to-order development of software and hardware in the field of automation
7.10.5	Microwave supervision systems	7.16	Training machines and equipment
7.10.6	Laser and radar supervision systems	7.17	CAD, CAM, CIM in control, automation and regulation technology
7.10.7	Seismic sensor systems (geophones)	7.18	Consultancy in control, automation and regulation technology
7.11	Industrial robots and their assemblies	7.19	Engineering design services in the field of control, automation and regulation technology
7.11.1	Micro-positioning systems	7.20	Service and repairs of equipment and instruments in control, automation and regulation technology
7.11.2	Robotic cells	7.20.1	Diagnostics of control, automation and regulation technology
7.11.3	Turn-key integrated solutions of robotized production processes	7.20.2	Spare parts for control, automation and regulation technology
General software for business management		7.20.3	Refurbishment and upgrading of control, automation and regulation technology
7.12.1	Tangible and intangible property records	7.29	Elements and systems in control, regulation and automation technology
7.12.2	Invoicing	Scales and weighing technology	
7.12.3	Book-keeping	7.31.1	Components and parts of scales
7.12.4	Human resources	7.31.2	Weighbridge
7.12.5	Wages and salaries	7.31.3	Belt conveyer scales
7.12.6	Software supporting development of new industrial products	7.31.4	Crane scales
7.12.7	Technical preparation for production	7.31.5	Dosing scales
7.12.8	Production management	7.31.6	Sack and filling scales
7.12.8.1	Operative workshop planning and management	7.31.7	Electronic balances and weighing
7.12.8.2	APS (Advanced Planning System) systems for advanced production planning and scheduling	7.31.8	Laboratory balances
7.12.9	Quality monitoring, CAQ (Computer Aided Quality) systems	7.31.9	Shop scales etc.
7.12.10	Norms setting	Time measuring instruments	
7.12.11	Technology	7.32.1	Electric and electronic clocks
7.12.12	Service and maintenance	7.32.1.1	Radio-signal controlled clocks
7.12.13	Statistics and analysis for top management	7.32.2	Checking clocks
7.12.14	Information tracing and utilization for management	7.32.3	Timers
7.12.15	Decision-support systems	7.32.4	Time control displays
7.12.16	Business Intelligence (Data Warehousing/Data Mining)	7.32.5	Special purpose time measuring instruments
7.12.17	CRM (Customer Relationship Management) systems	7.32.6	Operation hour counters
7.12.18	Marketing	7.32.6.1	Operation hour counters without preselection
7.12.19	Company processes modelling and optimizing (Workflow, Reengineering)	7.32.6.2	Operation hour counters with preselection
7.12.20	HelpDesk tools supporting business applications	Optomechanical instruments	
7.12.99	General software for business management - other	7.33.1	Components for optomechanical instruments
Software for offices and institutions		7.33.2	Microscopes and accessories
7.13.1	Electronic mail	7.33.3	Geodetic and cartographic instruments
7.13.2	Team work support software	7.33.3.1	Theodolites
7.13.3	Document processing	7.33.4	Photogrammetric instruments and accessories
7.13.4	Document archiving	7.33.5	Telescopes, magnifiers
7.13.5	Office automation support software	7.33.6	Astronomic instruments
7.13.6	DMS systems (Document Management System) for control and management of structured and unstructured documents	7.33.7	Optomechanical spectral analysers
7.13.99	Software for offices and institutions - other	7.33.8	Fibre optics
System integration, complex solution of ERP systems		7.33.9	Industrial endoscopes
7.14.1	Systems for complete document administration, flow management and storage (Workflow)	7.33.10	Profile projectors
7.14.2	PLM systems for complex product lifecycle management	7.33.99	Optomechanical instruments – other
7.14.3	Integrated business system for companies		
7.14.4	Comprehensive production plant management system		
7.14.5	Comprehensive non-production plant management system		
7.14.6	Comprehensive management system for budget and publicly funded organizations		
7.14.7	Comprehensive management system for production and business concerns		



Instruments for measuring of electric variables	7.35	Universal power supplies
7.34.1 Multimeters	7.35.1	Universal supplies of stabilized voltage
7.34.2 Ammeters	7.35.2	Universal supplies of stabilized current
7.34.2.1 Electrostatic charge-measuring instruments	7.36	High voltage power supplies
7.34.3 Digital avometers (multimeters)	7.37	Calibration standards for electrical engineering technology
7.34.4 Voltmeters	7.37.1	Calibration stations for electric meters
7.34.5 Voltage testers		
7.34.6 Charging meters		
7.34.7 R-L-C-Z meters		
7.34.8 Conductance meters		
		Sensors for picking up mechanical variables
7.34.9 Universal analyzers of analog and digital LF systems	7.38.1.1	Pressure sensors
7.34.9.1 Universal measuring instruments	7.38.1.1.1	Vacuum sensors
7.34.10 Instruments for measuring of voltage, current, resistance and output for HV	7.38.1.2	Pressure difference sensors
7.34.11 <i>Switchboard measuring instruments</i>	7.38.1.3	Speed sensors
7.34.11.1 Panel indicators for traffic engineering	7.38.1.4	Acceleration sensors
	7.38.1.5	Load sensors
Oscilloscopes	7.38.1.6	Position sensors
7.34.12.1 Analog oscilloscopes	7.38.1.7	Path sensors including gyroscopic systems
7.34.12.2 Digital oscilloscopes	7.38.1.8	Length, distance sensors
7.34.12.3 Storage oscilloscopes	7.38.1.9	Shift / feed sensors
7.34.12.4 PC-connectable digital oscilloscopes	7.38.1.10	Thickness sensors
7.34.13 <i>Electric meters</i>	7.38.1.11	Angle sensors
7.34.13.1 Switching electric meters with remote control	7.38.1.12	Revolution sensors
7.34.13.2 Radio systems for data collection from electric power consumption meters	7.38.1.13	Sensors of speed, velocity, acceleration
7.34.14 Measuring bridges	7.38.1.14	Fluid flow sensors
7.34.15 Measuring photoelectric instruments	7.38.1.15	Gas flow sensors
7.34.16 Measuring amplifiers	7.38.1.16	Fluid level sensors
7.34.17 Measuring transducers	7.38.1.17	Fluid level measured value sensors
7.34.18 Harmonic distortion analyzers	7.38.1.18	Surface quality evaluating sensors
7.34.19 Spectral analyzers of electric signals	7.38.1.19	Force sensors
7.34.20 Signal analyzers	7.38.1.20	Sensors of force, strain, deformation and bending
7.34.21 Electric network analyzers	7.38.1.21	Vibration sensors
7.34.22 Local network cable analyzers	7.38.1.21.1	Geophones (seismic detectors)
7.34.23 Phase meters		
7.34.24 Attenuation level meters	7.38.1.22	Torque sensors
7.34.25 Noise meters		
7.34.26 Digital channel testers	7.38.2	Sensors for picking up electric quantities and parameters
7.34.27 HF power meters	7.38.3	Sensors for picking up acoustic quantities and parameters
7.34.28 Electronic component testers	7.38.3.1	Sound and ultrasound sensors
7.34.29 Digital integrated circuit testers	7.38.3.2	Sensors for measuring of acoustic parameters
7.34.30 Logic analyzers		
7.34.31 Data interface analyzers	7.38.4.1	Sensors for picking up optical quantities and parameters
7.34.32 Computer cards for PC logic analyzer	7.38.4.2	Optical sensors
7.34.33 Counters	7.38.4.3	Optoelectronic sensors
7.34.34 Electromagnetic compatibility test units (EMC)	7.38.4.4	Sensors of light signal parameters in glass fibres
	7.38.4.5	Picture sensors
7.34.35 <i>Electronic generators</i>	7.38.4.6	Colour sensors
7.34.35.1 Function generators	7.38.4.7	Sensors for measuring of optical parameters
7.34.35.2 Time signal generators	7.38.4.8	IR radiation sensors
7.34.35.3 Measuring transmitters	7.38.4.9	UV radiation sensors
7.34.35.4 Low frequency generators		Sensors for picking up optical quantities and parameters – other
7.34.35.5 High frequency generators	7.38.5	Temperature and thermal power sensors
7.34.35.6 Noise generators	7.38.5.1	Contactless temperature sensors
7.34.35.7 Pulse generators	7.38.5.2	Thermal power sensors
7.34.35.8 TV generators		
7.34.35.9 HV generators (pulse, DC)	7.38.6	Sensors for picking up magnetic quantities and parameters
7.34.35.99 Electronic generators – other	7.38.6.1	Sensors for measuring of magnetic quantities
7.34.36 Filters for measuring devices	7.38.6.2	Magnetic field detectors
	7.38.6.3	Sensors of magnetic field parameters
7.34.99 Equipment and measuring instruments for electric variables – other	7.38.7	Humidity sensors
	7.38.7.1	Absolute humidity sensors
	7.38.7.2	Relative humidity sensors
	7.38.7.3	Liquid leak detectors



7.38.8	Sensors for picking up chemical quantities and parameters	7.39.11	Pressure measuring instruments
7.38.8.1	Sensors for chemical analysis of liquids	7.39.11.1	Gas pressure measuring instruments
7.38.8.2	Sensors for chemical analysis of gases	7.39.11.1.1	Vacuum meters
7.38.99	Sensors for picking up other quantities and parameters	7.39.11.2	Liquid pressure meters
		7.39.11.3	Dynamic pressure meters
Measuring instruments of physical quantities			
	Measuring instruments for length, angle, thread	7.39.12	Mass, thickness, area meters
7.39.1.1	Length meters	7.39.12.1	Equipment for continuous mix density measurements
7.39.1.2	Angle meters	7.39.12.2	Filling level sensors, liquid level sensors
7.39.1.3	Thread gauges	7.39.13	Measuring instruments and analyzers of vibrations
7.39.1.4	Geometric shape measuring devices	7.39.13.1	Vibration monitoring instruments
7.39.1.5	Position meters	7.39.14	Acoustic measuring instruments
7.39.1.6	Electronic levels	7.39.14.1	Noise dosimeters
7.39.1.7	Laser levelling instruments	7.39.14.2	Sound level meters
7.39.1.8	Equipment for contactless size measurements	7.39.14.3	Noise monitoring instruments
	Velocity meters	7.39.14.4	Hydroacoustic instruments
7.39.2.1	Gas flow velocity meters	7.39.14.5	Ultrasonic measuring instruments
7.39.2.2	Anemometers	7.39.15	Filling level and surface height measuring instruments
7.39.2.3	Liquid flow velocity meters	7.39.16	Torque measuring instruments
7.39.2.4	Speedometers	7.39.17	Moisture measuring instruments
7.39.2.5	Recording tachometers	7.39.17.1	Percolation measuring instruments
7.39.3	Acceleration meters	7.39.17.2	Dew point meters
	Flow meters	7.39.18	Measuring instruments of magnetic quantities
7.39.4.1	Flow meters for liquids	7.39.18.1	Metal detectors
7.39.4.2	Water meters for cold water	7.39.19	Detectors of underground supply lines
7.39.4.3	Water meters for hot water	7.39.20	X-ray and nuclear radiation measuring instruments
7.39.4.4	Gas flow meters	7.39.21	Viscosity meters
7.39.4.5	Gas meters (diaphragm, turbine)	7.39.22	Surface tension and contact angle meters
7.39.5	Measuring instruments of phenomenon abundance	7.39.22.1	Powder wettability measuring devices
7.39.5.1	Pulse counters with and without preselection	7.39.23	Systems and instruments for physical quantity calibration
7.39.6	Speed indicators	7.39.23.1	Calibration stations for water and gas meters
7.39.6.1	Rotary pulse generators	7.39.24	Testing and calibration measuring instruments and standards for physical quantities
7.39.6.2	Analog and digital speed indicators	7.39.99	Measuring instruments for other physical parameters
7.39.6.3	Speed, stop and slip measuring devices		
	Temperature meters	Measuring instruments for chemical quantities	
7.39.7.1	Digital temperature meters	7.40.1	Measuring instruments for pH, redox potential and conductance
7.39.7.2	Contactless temperature meters	7.40.1.1	pH and ISE electrodes
7.39.7.3	Pyrometers, infrapyrometers	7.40.2	Measuring instruments and analyzers of harmful gases
7.39.7.4	Temperature meters with thermocouples	7.40.2.1	CO and CO ₂ meters
7.39.7.5	Resistance thermometers	7.40.2.2	Methane meters
7.39.7.6	Measured temperature recorders	7.40.2.3	Hydrogen sulphide meters
7.39.7.7	Pointer thermometers	7.40.2.4	Chlorine meters
7.39.8	Thermal power and output meters	7.40.3	Oxygen meters
7.39.8.1	Industrial temperature monitoring systems	7.40.3.1	Oxygen meters in flue gases
7.39.8.2	Cameras for infra-red thermography	7.40.4	Stationary and portable detectors of flammable gases
7.39.8.3	Instruments for thermal analysis	7.40.5	Exhaust gas analyzers
7.39.8.4	Calorimeters	7.40.6	Gas analysis and monitoring instruments
7.39.8.5	Heat meters	7.40.7	Measuring instruments and analyzers of toxic substances
7.39.8.5.1	Meters and systems for allocation of heat power consumption in flats	7.40.8	Ion meters
7.39.9	Optical measuring instruments	7.40.9	Devices for fast chemical analysis
7.39.9.1	UV and IR radiation meters	7.40.99	Instruments for measurements of chemical quantities – other
7.39.9.2	Measuring instruments for optical waveguides	7.41	Laser measuring instruments
7.39.9.3	Luxmeters		
7.39.9.4	Optoelectronic measuring instruments		
7.39.9.5	Color meters		
7.39.9.6	Gloss meters		
7.39.9.7	Optical sources with defined characteristics		
7.39.10	Force measuring instruments		



Measuring systems and instruments

- 7.42.1 Measuring instruments for meteorology
- Measuring instruments for mechanical engineering**
- 7.42.2.1 Gauges for mechanical engineering
- 7.42.2.2 Micrometers
- 7.42.2.3 Inside micrometers
- 7.42.2.4 Coordinate measuring devices and accessories**
- 7.42.2.4.1 3D coordinate measuring devices and elements
- 7.42.2.5 Measuring instruments for bearings
- 7.42.2.6 Measuring instruments for gear wheels
- 7.42.2.7 Balancing machines
- 7.42.2.8 Operational balancing machines
- 7.42.2.9 Diagnostics of gears and bearings
- 7.42.2.10 Vibration diagnostics
- 7.42.2.11 Monitoring of rotary machine condition
- 7.42.2.12 Surface roughness and roundness measuring devices
- 7.42.2.13 Instruments for destructive and non-destructive testing of weld joint
- 7.42.3 Measuring instruments for civil engineering**
- 7.42.4 Measuring instruments for agriculture**
- 7.42.5 Measuring devices for plastics and rubbers**
- 7.42.5.1 Rheometers for measurements of rheological plastics properties
- 7.42.5.2 Viscometers for plastics and rubbers
- 7.42.5.3 Plastometers
- 7.42.6 Testing and calibration instruments and systems**
- 7.42.7 Measuring instruments for metrology**
- 7.42.8 Universal modular measuring devices with replaceable pickups**
- 7.42.9 Automatic samplers**
- 7.42.99 Measuring instruments and systems for other branches**

Laboratory and scientific instruments

- 7.43.1 Laboratory glass**
- 7.43.2 Laboratory china**
- 7.43.3 Pipettes and liquid dosing devices**
- 7.43.3.1 Titrators
- 7.43.4 Laboratory thermometers**
- 7.43.5 Laboratory driers**
- 7.43.6 Laboratory cooling equipment**
- 7.43.6.1 Cryotechnical equipment for laboratories
- 7.43.7 Lyophilizers (freeze driers)**
- 7.43.8 Distilling and extraction devices**
- 7.43.9 Emulgation, homogenization and dispersing equipment for laboratories**
- 7.43.9.1 Mixers, shakers
- 7.43.9.2 Thermomixers
- 7.43.9.3 Frigomixers
- 7.43.10 Laboratory autoclaves**
- 7.43.11 Climatic and temperature chambers for laboratories**
- 7.43.11.1 Thermostats
- 7.43.12 Laboratory furnaces and accessories**
- 7.43.12.1 Microwave ovens for sample preparation
- 7.43.12.2 Refractory crucibles for laboratory furnaces
- 7.43.13 Vacuum technology for laboratories**
- 7.43.13.1 Laboratory vacuum pumps
- 7.43.13.2 Laboratory vacuum meters
- 7.43.13.99 Vacuum technology – other

Laboratory instrumentation

- 7.43.20.1 Laboratory analyzers
- 7.43.20.1.1 Polarographs
- 7.43.20.1.2 X-ray fluorescence equipment
- 7.43.20.2 Filtration instruments for laboratories**
- 7.43.20.3 Separation equipment for laboratories**
- 7.43.20.4 Laboratory centrifuges**
- 7.43.20.5 Laboratory separators**
- 7.43.20.6 Laboratory screening machines**
- 7.43.20.6.1 Analytic screening machines
- 7.43.20.7 Laboratory colouring instruments**
- 7.43.20.8 Special scientific instruments**
- 7.43.21 Optical laboratory instruments**
- 7.43.21.1 Polarimeters
- 7.43.22 Spectrometers**
- 7.43.22.1 X-ray spectrometers
- 7.43.22.2 Infra-red spectrometers
- 7.43.22.3 UV spectrometers
- 7.43.22.4 Atomic absorption spectrometers
- 7.43.22.5 Mass spectrometers
- 7.43.22.6 Spark spectrometers
- 7.43.22.7 Spectrum database
- 7.43.23 Laboratory microscopes**
- 7.43.23.1 Electron microscopes
- 7.43.23.2 Infra-red microscopes
- 7.43.23.3 Laser microscopes
- 7.43.24 Instruments for chromatography (liquid, gas, accessories)**
- 7.43.25 Diffractometers**
- 7.43.25.1 Particle size analyzers
- 7.43.26 Refractometers**
- 7.43.27 Spectrophotometers**
- 7.43.28 Colorimeters**
- 7.43.29 Turbidity meters**
- 7.43.30 Metallography devices**
- 7.43.31 High-pressure laboratory devices**
- 7.43.32 Laboratory equipment for the petrochemical and oil industry**
- 7.43.32.1 Devices for multicomponent analysis of oils and gases without separation
- 7.43.33 Measuring instruments for interphase chemistry**
- 7.43.34 Equipment for work with radioactive substances**
- 7.43.34.1 Instruments for isotope analysis**
- 7.43.35 Linear accelerators**
- 7.43.36 Auxiliary laboratory instruments**
- 7.43.36.1 Laboratory material separators
- 7.43.36.2 Laboratory material crushers
- 7.43.36.3 Laboratory mills
- 7.43.37 Laboratory handling devices**
- 7.43.38 Laboratory cleaning machines**
- 7.43.38.1 Steam sterilizers
- 7.43.38.2 Laboratory fume hoods
- 7.43.39 Laboratory tools of precious metals**
- 7.43.40 Equipment for school laboratories, school measuring instruments**
- 7.43.99 Laboratory and scientific instruments – other**
- 7.44 Laboratory furniture**



Instruments for checking material properties and faults

- 7.45.1 Components of equipment for checking material properties and faults
- 7.45.2 Equipment for static tests of material properties**
 - 7.45.2.1 Material and layer thickness testing equipment
 - 7.45.2.2 Surface roughness testing equipment
 - 7.45.2.3 Porosity testing equipment
 - 7.45.2.4 Roughness meters
- 7.45.3 Equipment for dynamic tests of material properties**
 - 7.45.3.1 Material hardness testing equipment
 - 7.45.3.1.1 Coat hardness detectors
 - 7.45.3.2 Material testing equipment for tension, pressure, bending and shear
 - 7.45.3.3 Adhesion detectors
 - 7.45.3.4 Tensile testing machines
 - 7.45.3.5 Wear testing equipment, simulation of operating stress
 - 7.45.3.6 Equipment for testing of fatigue cracks and fatigue toughness
 - 7.45.3.7 Material elasticity testing equipment
 - 7.45.3.7.1 Spring testers
- 7.45.3.8 Equipment for testing thermal properties of material**
- 7.45.3.9 Dilatometers**
- 7.45.4 Material structure testing devices**
 - 7.45.4.1 Ultrasonic testing instruments
 - 7.45.4.2 Non-destructive testing instruments (flaw/crack detection)
 - 7.45.4.3 Building material property testing equipment
- 7.45.5 Material crack testing**
- 7.45.6 Pipeline, valve and tank leak testing**
 - 7.45.6.1 Liquid leakage point detection equipment
- 7.45.7 Cable fault localization**
- 7.45.8 Corrosion testing and analysis equipment**
 - 7.45.8.1 Corrosion chambers
- 7.45.9 Sun radiation effect testers**
 - 7.45.9.1 Sun simulating chambers
- 7.45.10 Equipment for vibration effect testing**
 - 7.45.10.1 Vibration chambers
- 7.45.11 Product testing equipment**
 - 7.45.11.1 Industrial X-ray devices
 - 7.45.11.2 Equipment for continuous quality checking in production
 - 7.45.11.3 Testing equipment for the semiconductor and microprocessor industries
 - 7.45.11.4 Testing equipment for the automotive industry
 - 7.45.11.5 Testing equipment for products of heavy-current electrical engineering
 - 7.45.11.6 Diagnostics of electric motors
 - 7.45.11.7 Testing equipment for plastic and rubber products
 - 7.45.11.8 Casting tightness testing machines
- 7.45.99 Testing and checking equipment for testing of material properties and faults – other**

- 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
- 7.47 Recording instruments**
 - 7.47.1 Simple recording instruments
 - 7.47.2 Multi-channel recording instruments
 - 7.47.3 Multi-channel recording instruments with protocol print-out
- 7.48 Electronic picture processing in measurements**
 - 7.48.1 Cameras for picture scanning
 - 7.48.1.1 High-speed cameras
 - 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**
 - 7.90.1 Diagnostics of instruments of measuring and laboratory technology
 - 7.90.2 Spare parts for instruments of measuring and laboratory technology
 - 7.90.3 Refurbishment and upgrading of instruments of 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**

Systems for PC-based data measurement and analysis

- 7.46.1 Measured value collection systems, loggers
- 7.46.2 Mobile systems for measured data collection
- 7.46.3 Portable units for measured data collection with signal processor
- 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



Air-conditioning equipment

- 8.1.1 Components for air-conditioning equipment**
 - 8.1.1.1 Air pipelines
 - 8.1.1.2 Pneumatic haulage equipment
 - 8.1.1.3 Air distribution equipment
- 8.1.2 Fans and accessories**
 - 8.1.2.1 Axial fans
 - 8.1.2.2 Radial fans
 - 8.1.2.99 Fans – other
- 8.1.3 Air and gas dedusting equipment**
 - 8.1.3.1 Centrifugal dust separators
 - 8.1.3.2 Accessories for air and gas dedusting equipment
 - 8.1.3.3 Air cleaners
- 8.1.4 Solid particle separators**
 - 8.1.4.1 Electrostatic separators
- 8.1.5 Solid particle filters**
 - 8.1.5.1 Filtration textiles
 - 8.1.5.2 Cloth filters
- 8.1.6 Exhaust and flue gas cleaning equipment**
- 8.1.7 Heat exchangers for air-conditioning**
 - 8.1.7.1 Heat recycling exchangers
- 8.1.8 Air-conditioning equipment for clean rooms**
 - 8.1.8.1 Ventilation equipment
 - 8.1.8.2 Air heating
 - 8.1.8.3 Exhausters
 - 8.1.8.4 Industrial air cleaning systems for machine-tools, forming machines and production rooms
- Equipment for separation of polluted gaseous substances from air and combustion products**
- 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
 - 8.1.9.2.1 Adsorptive agents for pollutant-loaded air cleaning
 - 8.1.9.2.2 Active coal for pollutant-loaded air cleaning
- 8.1.9.3 Biological equipment for the removal of waste substances from pollutant-loaded air
- 8.1.9.4 Catalytic incineration equipment for pollutant-loaded air purity
- 8.1.9.5 Thermal equipment for pollutant-loaded air purity
- 8.1.9.6 Condensation equipment for pollutant-loaded air purity
- 8.1.9.7 Dust recycling equipment for working rooms
- 8.1.9.8 Oil and emulsion fog exhausting equipment
- 8.1.9.99 Equipment for separation of polluted gaseous substances from air and combustion products – other
- 8.1.10 Equipment for desulphurization and denitrification of combustion products**
 - 8.1.10.1 Burners reducing NO_x emissions
- 8.1.11 Combustion product treatment plants for communal and industrial waste incinerators**
- 8.1.12 Chimneys and accessories thereof**
- 8.1.13 Breathing apparatuses and respirators**
- 8.1.14 Air-conditioning equipment**
 - 8.1.14.1 Air-conditioning units
 - 8.1.14.2 Equipment for creating certain climatic conditions
 - 8.1.14.3 Air moisteners and demoisteners
- 8.1.15 Gas media driers**

- 8.1.16 Solenoid and pneumatic controlled valves for flow control**
- 8.1.17 Aerating equipment**
- 8.1.45 Consultancy in air purity protection**
- 8.1.46 Air purity planning**
- 8.1.47 Reconstruction and upgrading of equipment for air treatment**
- 8.1.48 Maintenance and repairs of pollutant-loaded air cleaning equipment**

8.1.99 Air-conditioning equipment – other

Pumping stations

- 8.2.1 Water-supply pumping stations**
- 8.2.2 Sewerage pumping stations**
- 8.2.3 Circulation pumping stations for long-distance transport of thermal energy**
- 8.2.4 Pumping stations for classical and nuclear power engineering**

Technologies for the treatment of drinking, service and technological water

- 8.3.1 Design of water treatment plants**
- 8.3.2 Water treatment plant sedimentation and filtration units**
- 8.3.3 Aeration equipment for water treatment plants**
- 8.3.4 Flocculation equipment for water treatment plants**
- 8.3.5 Filters for the removal of mechanical impurities during water treatment**
- 8.3.6 Screens and sieves for water treatment plants**
- 8.3.7 Centrifugal impurity separators**

Chemical and physical water treatment

- 8.3.8.1 Dosing equipment for water treatment plants**
- 8.3.8.2 Equipment for the elimination of iron and manganese during water treatment
- 8.3.8.3 Water softening and demineralization equipment
- 8.3.8.4 Water desalting equipment
- 8.3.8.5 Water decarbonization equipment
- 8.3.8.6 Water dechlorination equipment
- 8.3.8.7 Filters for the elimination of unpleasant water odours and flavours
- 8.3.8.8 Equipment for the elimination of radon from water
- 8.3.8.9 Equipment for membrane separation processes
 - 8.3.8.9.1 Microfiltration
 - 8.3.8.9.2 Ultrafiltration
 - 8.3.8.9.3 Reverse osmosis
- 8.3.8.10 Ionex systems for water treatment plants
- 8.3.8.11 Equipment for water disinfection in treatment plants
- 8.3.8.12 Magnetic water treatment
- 8.3.8.13 Degasifying equipment
- 8.3.8.99 Chemical and physical water treatment – other

8.3.9 Treatment of household water

- 8.3.9.1 Household water treatment filters

8.3.10 Auxiliary equipment and accessories for water treatment plants

- 8.3.11 Turn-key water treatment plants**
- 8.3.12 Production of clean and ultra-clean water**
- 8.3.99 Technology for the treatment of drinking, service and technological waters – other**

8.4 Water reservoirs, tanks
8.4.1 Cleaning of water reservoirs and tanks

Technology for sewage water treatment plants

- 8.5.1 Design of sewage water treatment plants**
- 8.5.2 Equipment for mechanical clarification of sewage water**
 - 8.5.2.6 Filters, filtration equipment for sewage water treatment plants
 - 8.5.2.99 Equipment for mechanical clarification of sewage water – other
- Equipment for biological purification of waste waters**

8.5.3.1	Aerobic equipment for the purification of sewage waters (aeration, biodisc)	8.10.2.9.1	Plating shop water treatment plants
8.5.3.2	Nitrification and denitrification equipment	8.10.2.10	Closed-circuit water management of industrial plants
8.5.3.3	Equipment for removing phosphorus from sewage waters	8.10.2.10.1	Recirculation sewage treatment plants for garages and car wash facilities
8.5.3.4	Biologically active filters		
8.5.3.5	Biodegradation of crude oil substances and their derivatives in sewage waters	8.10.2.11	Chemical and physical sewage treatment plants for industry and trade
8.5.3.6	Anaerobic plants for the purification of sewage waters	8.10.2.12	Sewage treatment plants for effluents from the process industry
8.5.3.99	Equipment for biological purification of sewage waters – other		
	Chemical and physical purification of sewage waters	8.10.3	Complete deliveries of sewage treatment plants
8.5.4.1	Flotation and flocculation units	8.11	Sewerage networks and sewers
8.5.4.2	Absorption and adsorption equipment for the purification of sewage waters	8.12	Water reservoirs for water accumulation
8.5.4.3	Separators of crude oil substances	8.13	Advisory service for water purity protection
8.5.4.3.1	Separators of oils, emulsions, diluents	8.13.1	Advisory service for water treatment
		8.13.2	Advisory service for sewage water treatment
8.5.4.4	Microfiltration and ultra-filtration units for sewage water treatment plants	8.14	Reconstruction and upgrading of unsuitable sewage water treatment plants
8.5.4.5	Units for electrical dialysis	8.15	Service and repair of water treatment and sewage plants equipment
8.5.4.6	Reverse osmosis units for the purification of sewage waters	8.16	Technology for the reduction of technological water consumption
8.5.4.7	Plants with ion exchangers for the purification of sewage waters		
8.5.4.8	Equipment for disinfection and oxidation of sewage waters		
8.5.4.8.1	Ozonization plants		
8.5.4.9	Thermal equipment for the purification of sewage waters		
8.5.4.99	Chemical and physical sewage water purification – other		
	Equipment for sewage sludge processing		
8.5.5.1	Bioreactors		
8.5.5.2	Digestion tanks		
8.5.5.3	Gas holders for sludge gas		
8.5.5.4	Equipment for sludge thickening and dewatering		
8.5.5.5	Biogas engines		
8.5.5.6	Equipment for the production of sewage sludge granulation products		
8.5.5.7	Sludge management		
8.5.5.8	Transportation and storage of sludge		
8.5.5.99	Equipment for the processing of sewage – other		
8.6	Pumps, blowers, agitators for water management		
8.7	Power plants for water management		
8.8	Construction components for water management		
8.9	Chemical products for water treatment and purification		
8.9.1	Active coal for water treatment and sewage plants	8.20.1.1	Waste bins
8.9.2	Flocculation and coagulation agents	8.20.1.2	Containers for the collection of communal waste
8.9.3	Ferric chloride	8.20.1.3	Containers for the collection of industrial waste
8.9.4	Ionexes	8.20.1.4	Containers and barrels for the collection of hazardous waste
8.9.5	Incrustation inhibitors	8.20.1.5	Silos and industrial tanks for waste
8.9.6	Metalsorbs for the removal of heavy metals	8.20.1.6	Hospital waste bins
8.9.7	Oil-absorbing agents for the removal of crude oil substances and PCBs	8.20.1.7	Mobile and ecological toilets
		8.20.1.8	Equipment for waste compaction and compression
		8.20.1.9	Waste loading and handling equipment
		8.20.1.9.1	Hydraulic arms for waste transportation
		8.20.1.10	Transport equipment for waste transportation
		8.20.1.11	Complete programme for storing and handling of hazardous materials
		8.20.1.99	Equipment for the collection and transportation of waste – other
			Collection and transportation of waste
			Machines and equipment for waste treatment
		8.20.2.1	High-pressure water cutting and demolition systems
		8.20.2.2	Hydraulic shears
		8.20.2.3	Cutting mills
		8.20.2.4	Waste crushers
		8.20.2.5	Bulk transport conveyers and waste feeders
		8.20.2.6	Waste-storage bins
		8.20.2.7	Waste sorting plants
		8.20.2.7.1	Communal waste sorting plants
		8.20.2.7.2	Industrial waste sorting plants
		8.20.2.7.3	Construction waste sorting plants
		8.20.2.7.4	Road building waste sorting plants
		8.20.2.8	Waste presses
		8.20.2.8.1	Waste baling presses
		8.20.2.99	Machines and equipment for waste treatment – other
			Recovery of raw materials from waste, recycling
		8.20.3.1	Recycling of metal-containing waste
		8.20.3.1.1	Recycling of ferrous metal waste
		8.20.3.1.2	Recycling of non-ferrous metal waste
		8.20.3.1.3	Recycling of mercury-containing waste
Sewage water treatment plants			
8.10.1	Communal sewage treatment plants		
	Industrial sewage water treatment plants		
8.10.2.1	Sewage treatment plants for the food industry		
8.10.2.2	Sewage treatment plants for the grease industry		
8.10.2.3	Sewage treatment plants for the textile industry		
8.10.2.4	Sewage treatment plants for the paper industry		
8.10.2.5	Sewage treatment plants for the chemical industry		
8.10.2.6	Sewage treatment plants for the petrochemical industry		
8.10.2.7	Sewage treatment plants for the pharmaceutical industry		
8.10.2.8	Sewage treatment plants for agriculture		
8.10.2.9	Sewage treatment plants for the engineering industry		



8.20.3.1.4 Recycling of waste containing precious metals

8.20.3.2 Recycling of electrotechnical scrap

8.20.3.2.1 Recycling of catalysts

8.20.3.3 Recycling of used cars

8.20.3.4 Recycling of used cooling equipment and refrigerators

8.20.3.5 Recycling of plastic waste

8.20.3.6 Recycling of textile waste

8.20.3.7 Recycling of used tyres, rubber

8.20.3.8 Recycling of used glass

8.20.3.9 Recycling of used paper

8.20.3.10 Recycling of building debris

8.20.3.11 Processing of waste from the food industry into animal feed

8.20.3.12 Recycling of pollutant loaded air and gases

8.20.3.13 Recycling of liquid waste

8.20.3.13.1 Purification and regeneration of mineral oils

8.20.4 Composting lines

8.20.5 Fermentation plants

8.20.5.1 Fermentation troughs for the processing of sewage treatment plant sludge

Thermal processing of waste

8.20.6.1 Communal waste incinerators

8.20.6.2 Industrial waste incinerators

8.20.6.2.1 Muffle kilns for burning liquid waste

8.20.6.3 Hospital waste incinerators

8.20.6.4 Equipment for pyrolysis

Waste storage

8.20.7.1 Engineering and geological investigation

8.20.7.2 Design of dumping sites

8.20.7.3 Geotextiles

8.20.7.4 Insulation and sealing films and materials for dumping sites

8.20.7.5 Tubes for degasification and drainage of dumping sites

8.20.7.6 Biogas stations

8.20.7.6.1 Gas holders for storage of biogas

8.20.7.7 Weighing equipment for dumping sites

8.20.7.8 Monitoring systems for dumping sites

8.20.7.9 Trenchless drainage of existing dumping sites

8.20.7.10 Operation of dumping sites

8.20.8 Elimination of waste by solidification

8.20.9 Elimination of waste by biodegradation

8.20.10 Hazardous waste elimination technology

8.20.10.1 Elimination of PCB-containing waste

8.20.10.2 Elimination of heavy metal containing waste

8.20.10.3 Elimination of crude oil substance containing waste

8.20.10.4 Elimination of cyanide-containing waste

8.20.11 Advisory service for waste disposal

8.20.11.1 Advisory service for hazardous waste disposal

8.20.12 Elaboration of waste management studies

8.20.13 Transportation of hazardous waste and substances

8.20.14 Comprehensive solutions in waste disposal

8.20.14.1 Comprehensive solutions in industrial waste disposal

8.20.15 Complex waste management by own staff to order

8.20.16 Reduction of waste production

8.20.99 Waste processing and utilization – other

8.21 Soil and landscape protection

Environment-friendly technologies for and industry

8.22.1 Alternative power sources

8.22.2 Energy-saving devices and technologies

8.22.3 Packaging engineering and materials harmless for the environment

8.22.4 Environment-sound chemicals

8.22.5 Waste free technologies

8.22.99 Environment-friendly technologies for industry other

Removal of old environmental burden and consequences of ecological disasters

8.25.1 Equipment for the detection of contaminants in soil and soil air

8.25.2 Equipment for the detection of contaminants in water

8.25.3 Hydrogeological research for the detection of bedrock contamination

8.25.4 Elimination of contaminants from geological environment

8.25.5 Cleaning of soils

8.25.5.1 Cleaning of soils contaminated with crude oil substances

8.25.5.2 Thermal processing of soils

8.25.6 Maintenance and recultivation of old landfills

8.25.6.1 Recultivation of spoilbanks after surface mining

8.25.7 Removal of contaminants from ground and underground waters

8.25.8 Maintenance of chemical plants

8.25.9 Maintenance of contaminated industrial zones

8.25.10 Elimination of waste generated in the process of reclamation

8.25.11 Elimination of organic contamination

8.25.12 Equipment for signalling ecological disasters

8.25.13 Equipment preventing emergency leakage of contaminants

8.25.14 Protective clothes and aids for work with hazardous and toxic substances

8.25.15 Advisory service for old environmental burden and ecological incidents

8.25.16 Decontamination projects

8.25.99 Removal of old environmental burden and consequences of ecological incidents - other

Noise reduction

8.30.1 Soundproof insulation materials

8.30.2 Sound protection absorption walls and panels

8.30.3 Sound protection booths, sheaths, walls, barriers

8.30.4 Sound mufflers

8.30.5 Impact and vibration suppressors

8.30.5.1 Vibration isolators

8.30.6 Soundproof windows

8.30.7 Design of sound protection measures

8.30.99 Noise reduction – other

Instrumentation for environment control

8.33.1 Control and regulating systems for environmental technology

8.33.2 Instrumentation for air and flue gas analysis

8.33.3 Equipment for ionizing radiation measurements

8.33.4 Instrumentation for noise and vibration measurements

8.33.5 Instrumentation for soil analysis

8.33.6 Monitoring in the environmental sector

8.33.7 Accredited test laboratories

8.33.8 Production of measuring devices for the environmental sector to order

8.33.9 Complex equipment of laboratories

8.33.10 Hardware and software for environmental protection

8.33.11 Communication engineering for data transmission

8.33.99 Instrumentation for environment control other

Machines for industrial cleaning and washing

8.40.1 *Cleaning machines*

- 8.40.1.1 Machines for chemical cleaning shops
- 8.40.1.1.1 Feather cleaning equipment

- 8.40.1.2 Machines for laundries and ironing shops

8.40.2 *Baling presses for waste separation and handling*

8.40.3 *Industrial cleaning machines*

- 8.40.3.1 High-pressure cleaning equipment
- 8.40.3.2 Ultrasonic washing equipment
- 8.40.3.3 Industrial washing tables

- 8.40.3.4 Industrial vacuum cleaners
- 8.40.3.4.1 Vacuum cleaners for dry and moist impurities
- 8.40.3.4.2 Vacuum cleaners for toxic, carcinogenic and flammable dusts

8.40.4 *Sweeping and floor washing machines*

- 8.40.4.1 Self-running sweeping brushes
- 8.40.4.2 Chemical and technical preparations for washing machines
- 8.40.4.3 Floor washing machines

8.40.5 *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

- 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
- 8.50.2.8 Projects of ecological business management systems
- 8.50.2.9 Consultancy in the introduction of ISO 14000 Standards
- 8.50.2.10 Advisory service for environmental legislation
- 8.50.2.10.1 Integrated prevention and restriction of pollution (IPPC)
- 8.50.2.11 Legal representation
- 8.50.2.12 Patents, licences, know-how in environmental protection
- 8.50.2.13 Product certification complying with environmental protection
- 8.50.2.14 Assessment of environmental damages
- 8.50.2.15 Financing of environmental projects
- 8.50.2.16 Information service
- 8.50.2.17 Environment marketing studies
- 8.50.2.18 Integrated Pollution Prevention and Control (IPPC)
- 8.50.2.19 Consultancy and trading in CO₂ emissions

8.50.3 *Environment monitoring*

8.50.4 *Accredited testing laboratories for the environment*

- 8.50.4.1 Accredited soil and waste analyses
- 8.50.4.2 Accredited water analyses
- 8.50.4.3 Accredited analyses of emissions and air pollution

8.50.5 *Environment research*

8.50.6 *Environmental organisations*

- 8.50.6.1 State administration authorities for the environment
- 8.50.6.2 Non-governmental environmental organisations
- 8.50.99 Literature, services, research, environmental organisations – other



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

Science and research

- Basic and applied research**
- 9.1.1.1 Research in the field of raw materials and power resources
- 9.1.1.2 Research in the field of materials
- 9.1.1.3 Research in the field of nanotechnologies
- 9.1.1.4 Research in the field of physics
- 9.1.1.5 Research in the field of nuclear engineering
- 9.1.1.6 Research in the field of electrical engineering
- 9.1.1.7 Research in the field of information processing and communication
- 9.1.1.8 Research in the field of industrial automation**
- 9.1.1.9 Research in the field of machine and equipment design
- 9.1.1.10 Research in the field of traffic and transport
- 9.1.1.11 Research in the field of economics and management

- 9.1.1.99 Basic and applied research in other technical fields

Economic, financial, advertising and other services, institutions

- 9.2.1 Banks and financial institutions
- 9.2.2 Financial consulting
- 9.2.3 Organizational, economic and entrepreneurial consultancy
- 9.2.4 Financing
- 9.2.5 Leasing

- 9.2.6 Insurance
- 9.2.6.1 Contract insurance

- 9.2.7 Export consultancy
- 9.2.8 Searching of business contacts abroad
- 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

- Advertising 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**
- 9.2.22.4.1 Creating of www sites

- 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**
- 9.2.30 Quality control**
- 9.2.31 Operation and equipment control**
- 9.2.32 FM (Facility Management) services**

- Organisations, institutions**
- 9.2.33.1 State authorities, governmental institutions
- 9.2.33.2 Non-governmental institutions
- 9.2.33.2.1 Chambers of commerce
- 9.2.33.2.2 Interest unions, interest associations
- 9.2.33.3 Multinational institutions
- 9.2.33.3.1 European institutions
- 9.2.33.3.2 Cooperation and assistance programmes

9.2.34 Schools

9.2.99 Services - other

Offer of industrial real estates and localities, regional development

- 9.3.1 Land planning
- 9.3.2 Programmes for regional development
- 9.3.3 Presentation of development and investment plans
- 9.3.3.1 Presentation of business activities in towns
- 9.3.4 Technology parks, business centres, free trade areas

- 9.3.5 Offer of development localities for industrial construction
- 9.3.5.1 Offer of plots of land with engineering networks for industrial zones
- 9.3.5.2 Offer of plots of land without engineering networks for industrial zones

- 9.3.6 Offer of industrial real estates
- 9.3.7 Demand for investors
- 9.3.8 Financial institutions, project financing, services

- 9.3.99 Business and investment activities - other

TRANSPORT AND LOGISTICS

10.1	Ships	10.5.5.4	Mobile ramps
10.1.1	Parts and accessories for ships	10.5.6	Lifting electromagnets
10.2	Aircraft and aero instruments	10.5.7	Permanent lifting magnets
10.2.1	Airplane parts and accessories	10.5.8	Hand-operated lifting equipment
10.2.2	Aviation instruments	10.5.9	Load grasping equipment
10.2.3	Security aircraft technology	10.5.10	Winches
10.2.4	Airport equipment	10.5.11	Vacuum gripping and hoisting devices
		10.5.99	Lifting mechanisms – other
Rail vehicles		Transport and lift trucks	
10.3.1	Parts and accessories for rail vehicles	10.6.1	Truck parts
10.3.1.1	Remote control of locomotives	10.6.2	Hand trucks
10.3.2	Locomotives	10.6.3	Battery trucks
10.3.3	Carriages	10.6.3.1	Batteries and accessories for battery trucks
10.3.4	Special carriages	10.6.4	Gas-operated trucks
10.3.4.1	Tilting wagons	10.6.5	I.C. engine equipped trucks
10.3.5	Undercarriages	10.6.6	Driverless trucks, induction trucks
10.3.6	Tramways	10.6.7	Attachments for transport trucks
10.3.90	Overhauls, upgrading and reconstructions of rail vehicles	10.6.7.1	Attachments for high-lift trucks
10.3.91	Turnouts and superstructures	10.6.99	Transport and lift trucks – other
Cranes		10.7	Lifts
10.4.1	Parts and accessories for cranes	Transport equipment	
10.4.1.1	Remote control of cranes	10.8.1	Parts and accessories of transport equipment
10.4.1.2	Binding ropes, eyes and hooks	10.8.1.1	Conveyer parts and accessories
10.4.1.3	Crane tracks	Conveyers for loose materials transport	
10.4.1.4	Suspension equipment	10.8.2.1	Band conveyers
10.4.2	Bridge cranes	10.8.2.2	Worm conveyers
10.4.3	Crane wagons	10.8.2.3	Vibratory conveyers
10.4.4	Tower cranes	10.8.2.4	Chain/Redler conveyers
10.4.5	Full-portal gantry cranes	10.8.2.5	Bucket elevators
10.4.6	Pillar and mast cranes	10.8.2.99	Conveyers for loose materials transport – other
10.4.7	Truck cranes	Conveyers for lump materials transport	
10.4.8	Jib cranes	10.8.3.1	Roller conveyers
10.4.9	Bracket cranes	10.8.3.2	Wheel conveyers
10.4.10	Erecting cranes	10.8.3.3	Ball conveyers
10.4.11	Grab cranes	10.8.3.4	Overhead conveyers incl. overhead grooves
10.4.12	Telescopic cranes	10.8.3.5	Floor conveyers – truck-type conveyers
10.4.13	Cable cranes	10.8.3.99	Conveyers for lump materials transport – other
10.4.14	Rotary cranes	10.8.4	Pneumatic transport
10.4.15	Metallurgical industrial cranes	10.8.99	Transport equipment – other
10.4.16	Cranes for works on electrical lines	Rope conveyers	
10.4.17	Cranes for harbours and shipyards	10.9.1	Parts and accessories for rope conveyers
10.4.90	Overhauls, upgrading and reconstructions of cranes	10.9.2	Passenger and freight services
10.4.99	Cranes – other	10.9.3	Ropeways for wood transport
Lifting mechanisms		10.9.4	Ski lifts
10.5.1	Pulley blocks	10.9.99	Rope conveyers – other
10.5.1.1	Rope pulley blocks	Handling equipment	
10.5.1.2	Chain pulley blocks	Equipment for loading and unloading lump materials	
10.5.2	Jacks	10.10.1.1	Arm loaders
10.5.3	Pneumatic lifting mechanisms	10.10.1.2	Hydraulic arms
10.5.4	Hydraulic lifting mechanisms	10.10.1.3	Tail lifts
10.5.4.1	Hydraulic jacks	10.10.1.4	Filling and emptying equipment for containers and wagons
Lifting platforms and ramps		10.10.1.9	Equipment for loading and unloading lump materials – other
10.5.5.1	Erecting platforms and ramps	Equipment for loading and unloading loose materials	
10.5.5.1.1	High-lift self-propelled erecting platforms	10.10.2.1	Worm unloaders
10.5.5.2	Lifting working platforms on undercarriages	10.10.2.2	Shovel loaders
10.5.5.3	Hydraulic platforms for wheel chairs	10.10.2.3	Mechanical shovels

TRANSPORT AND LOGISTICS

- 10.23.2 Packages for industrial packaging**
 - 10.23.2.1 Anticorrosive paper
- 10.23.3 Packing machines and equipment**
 - 10.23.3.1 Barrier film packaging machines
 - 10.23.3.2 Machines for container forming, filling and sealing
 - 10.23.3.3 Group packaging machines
- 10.23.4 Marking machines and equipment for packaging**
- 10.23.5 Turn-key packaging solutions**
- 10.23.6 Custom-made packaging**
 - 10.23.6.1 Packaging of two or more products into one pack (copacking)
- 10.23.9 Packaging materials and packages, packaging machines for the industry – other**

Services by carriers and forwarding agents

- 10.24.1 Domestic freight traffic**
 - 10.24.1.1 Road domestic freight traffic
 - 10.24.1.2 Railway domestic freight traffic
 - 10.24.1.3 Air domestic freight traffic
 - 10.24.1.4 Ship domestic transport
 - 10.24.1.5 Combined domestic freight traffic
- 10.24.2 International freight traffic**
 - 10.24.2.1 International road freight traffic
 - 10.24.2.2 International railway freight traffic
 - 10.24.2.3 International river transport
 - 10.24.2.4 Sea transport
 - 10.24.2.5 International air freight traffic
 - 10.24.2.6 Combined international freight traffic
 - 10.24.2.6.1 *Ferry transport*
- 10.24.3 Special loads transport**
 - 10.24.3.1 Transport of heavy and oversize loads
 - 10.24.3.2 Transport of dangerous loads based on ADR
- 10.24.4 Tubular transport**
- 10.24.5 City logistics**
- 10.24.6 Storage rooms and storing services**
 - 10.24.6.1 Public customs storage rooms
- 10.24.7 Packing of transport consignments**
 - 10.24.7.1 Arranging freight handling units
- 10.24.8 Forwarding services**
 - 10.24.8.1 Domestic forwarding services
 - 10.24.8.2 International forwarding services
- 10.24.9 Collecting services**
- 10.24.10 Loading and securing services in transport**
- 10.24.11 Customs services**
 - 10.24.11.1 Border clearance services
- 10.24.12 Express transport of lump consignments**
 - 10.24.12.1 Courier services
- 10.24.99 Services by carriers and forwarding agents – other**

Freight terminals

- 10.25.1 Airports**
- 10.25.2 Harbours**
 - 10.25.2.1 River ports
 - 10.25.2.2 Sea harbours
- 10.25.3 Container transshipment terminal**

- 10.25.4 Logistic (distribution) centers, areals**
 - 10.25.4.1 Logistic providers

Services in transport

- 10.26.1 Services for truck crews abroad**
 - 10.26.1.1 Technical assistance to truck crews
 - 10.26.1.2 Legal assistance to truck crews
 - 10.26.1.3 Credit cards
- 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**
 - 10.27.1.1 Bar code printers
- 10.27.2 Data collecting equipment**
 - 10.27.2.1 Data collecting terminals
 - 10.27.2.1.1 *Mobile (hand) terminals for data records*
- 10.27.3 Communication equipment for storage rooms and logistics**
 - 10.27.3.1 Wireless 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**
 - 10.27.8.1 Localization by means of GSM networks
- 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*
 - 10.27.11.1.1 *Vehicle log book*
 - 10.27.11.1.2 *Software for tracing consignment movement*
 - 10.27.11.1.3 *Software for elaborating forwarding contracts*
 - 10.27.11.1.4 *Transport and forwarding data bases*
 - 10.27.11.2 *Application software for provisioning*
 - 10.27.11.2.1 *Software for controlling material and commodity flows*
 - 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

Literature, consultancy, 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
- 10.28.4 Consultancy in customs affairs
- 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
- 10.29.1 Simulation and planning models in logistics, design process optimizing
- 10.29.2 Accredited laboratories for logistics and transport

- 10.30 Organizations, associations, unions for logistics and transport

METAL–WORKING AND FORMING MACHINES, TOOLS

METAL-WORKING AND FORMING MACHINES

Machine-tools

Lathes

- 11.1.1.1 Bench lathes
- 11.1.1.2 Production lathes (for lot production)
- 11.1.1.3 Universal centre lathes
- 11.1.1.4 Multi-tool production lathes
- 11.1.1.5 Vertical turning lathes
- 11.1.1.6 Copying lathes
- 11.1.1.7 Short-bed lathes (second operation lathes)
- 11.1.1.8 Facing lathes with tailstock
- 11.1.1.9 Facing lathes with bench
- 11.1.1.10 Cutting-off lathes
- 11.1.1.11 Watchmakers' lathes
- 11.1.1.12 Precision bench lathes
- 11.1.1.13 Relieving lathes
- 11.1.1.14 Oval turning lathes
- 11.1.1.15 Wheel set lathes
- 11.1.1.16 Wheelset tyre profiling lathes
- 11.1.1.17 Axle turning lathes
- 11.1.1.18 Axle journal turning and roller burnishing lathes
- 11.1.1.19 Crankshaft turning lathes
- 11.1.1.20 Camshaft turning lathes
- 11.1.1.21 Piston lathes
- 11.1.1.22 Roll turning lathes
- 11.1.1.23 Bar turning and peeling machines
- 11.1.1.99 Lathes - other

Automatic lathes

- 11.1.2.1 Single-spindle universal automatic lathes
- 11.1.2.2 Single-spindle chucking automatic lathes
- 11.1.2.3 Single-spindle bar automatic lathes
- 11.1.2.4 Multi-spindle chucking automatic lathes
- 11.1.2.5 Multi-spindle bar automatic lathes
- 11.1.2.6 Lathes with driven tool
- 11.1.2.7 Vertical turning automatic lathes
- 11.1.2.8 High-speed automatic lathes
- 11.1.2.9 Automatic multioperational lathes with tool magazine (turning centres)
- 11.1.2.99 Automatic lathes - other

Drilling machines

- 11.1.3.1 Bench type drilling machines
- 11.1.3.2 Pillar type drilling machines
- 11.1.3.3 Column type drilling machines
- 11.1.3.4 Gang drilling machines
- 11.1.3.5 Multi-spindle drilling machines
- 11.1.3.6 Radial drilling machines
- 11.1.3.7 Precision coordinate drilling machines
- 11.1.3.8 Deep hole drilling and boring machines
- 11.1.3.9 Turret head drilling machines
- 11.1.3.10 Horizontal drilling machines
- 11.1.3.11 Automatic multioperational drilling machines with tool magazine (drilling centres)
- 11.1.3.99 Drilling machines - other

Boring machines

- 11.1.4.1 Fine boring machines, horizontal
- 11.1.4.2 Fine boring machines, vertical
- 11.1.4.3 Bed type boring and milling machines, fixed column
- 11.1.4.4 Bed type boring and milling machines, moving column
- 11.1.4.5 Boring and milling machines, gantry type
- 11.1.4.6 Jig boring machines (coordinate boring and milling machines)
- 11.1.4.7 Cylinder block re boring machines
- 11.1.4.99 Boring machines - other

Milling machines

- 11.1.5.1 Horizontal knee-type milling machines
- 11.1.5.2 Vertical knee-type milling machines
- 11.1.5.3 Universal knee-type milling machines

- 11.1.5.4 Horizontal bed type milling machines
- 11.1.5.5 Vertical bed type milling machines
- 11.1.5.6 Universal bed type milling machines
- 11.1.5.7 Multi-head bed type milling machines
- 11.1.5.8 Copying milling machines
- 11.1.5.9 Circular able milling machines
- 11.1.5.10 Drum type milling machines
- 11.1.5.11 Die-sinking machines
- 11.1.5.12 Universal tool milling machines
- 11.1.5.13 Milling and boring machines
- 11.1.5.14 Universal milling and boring machines
- 11.1.5.15 Machining centres
- 11.1.5.16 Bench hand-controlled knee-type milling machines
- 11.1.5.17 Open-side gantry milling machines
- 11.1.5.18 Slot and keyway milling machines
- 11.1.5.19 Crankshaft and camshaft milling machines
- 11.1.5.20 Chamfering and pointing milling machines
- 11.1.5.21 Engraving machines
- 11.1.5.99 Milling machines - other

Gear cutting and finishing machines

- 11.1.6.1 Gear hobbing machines
- 11.1.6.2 Rack milling machines
- 11.1.6.3 Gear shaping machines
- 11.1.6.4 Bevel gear hobbing and shaping machines
- 11.1.6.5 Gear rolling machines
- 11.1.6.6 Gear grinding machines
- 11.1.6.7 Gear shaving machines
- 11.1.6.8 Gear polishing and lapping machines
- 11.1.6.9 Gear tooth rounding and deburring machines
- 11.1.6.10 Automatic multioperational gear cutting machines with tool magazine (gear cutting centres)
- 11.1.6.99 Gear cutting machines - other

11.1.7 Screwing and threading machines

Planing, shaping, slotting and broaching machines

- 11.1.8.1 Planing machines with other operation options
- 11.1.8.2 Horizontal shaping machines
- 11.1.8.3 Vertical shaping machines
- 11.1.8.4 Plate edge planing machines
- 11.1.8.5 Copy shaping machines
- 11.1.8.6 Keyseating, broaching and slotting machines
- 11.1.8.7 Planing and shaping machines - other
- 11.1.8.8 Internal broaching machines
- 11.1.8.9 Surface broaching machines
- 11.1.8.10 Transfer broaching machines
- 11.1.8.11 Broaching machines
- 11.1.8.12 Planing, shaping and broaching machines
- 11.1.8.99 Planing, shaping, slotting and broaching machines - other

Sawing, filing and abrasive cutting-off machines

- 11.1.9.1 Band sawing machines
- 11.1.9.2 Hack sawing machines
- 11.1.9.3 Circular sawing machines
- 11.1.9.4 Cutting-off machines, with abrasive discs
- 11.1.9.5 Friction sawing machines
- 11.1.9.6 Filing machines
- 11.1.9.7 Automatic cutting lines
- 11.1.9.99 Sawing, filing and abrasive cutting-off machines - other

Grinding machines

- 11.1.10.1 Horizontal spindle surface-grinding machines
- 11.1.10.2 Vertical spindle surface-grinding machines
- 11.1.10.3 Universal spindle surface-grinding machines (with adjustable wheelhead)
- 11.1.10.4 Horizontal surface-grinding machines with rotary table
- 11.1.10.5 Vertical surface-grinding machines with rotary table
- 11.1.10.6 Plain cylindrical grinding machines
- 11.1.10.7 Production plain cylindrical grinding machines with possible recess grinding (for lot production)
- 11.1.10.8 Internal grinding machines

METAL-WORKING AND FORMING MACHINES, TOOLS

11.2.2.10	Stretch forming presses	11.2.8.8	Spinning machines
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
	Presses for special applications	11.2.8.14	Seaming machines
11.2.3.1	Trimming presses	11.2.8.15	Marking machines
11.2.3.2	Coining presses	11.2.8.16	Can making machines
11.2.3.3	Powder compacting presses	11.2.8.17	Riveting machines
11.2.3.4	Calibrating presses for special applications	11.2.8.18	Winding devices
11.2.3.5	Scrap baling and briquetting presses	11.2.8.19	Pressure compression and joining machines and tools
11.2.3.6	Flanging presses	11.2.8.99	Sheet and strip working machines - other
11.2.3.7	Stamping presses		Shears, press dies, blanking machines
11.2.3.8	Bending and straightening presses	11.2.9.1	Metal forming centres for punching and pressing
	Forging machines and hammers	11.2.9.2	Mechanically driven table shears
11.2.4.1	Hammers	11.2.9.3	Hydraulically driven table shears
11.2.4.2	Forging machines and presses	11.2.9.4	Circular shears
11.2.4.3	Automatic transfer forging machines	11.2.9.5	Gang slitting and circular tool shears
11.2.4.99	Forging machines - other	11.2.9.6	Combined curve-cutting and nibbling machines
	Bar, section and tube working machines	11.2.9.7	Universal shearing and punching (and/or notching) machines
11.2.5.1	Straightening machines	11.2.9.8	Concrete reinforcing bar cutters
11.2.5.2	Bar and section bending machines	11.2.9.9	Notching machines
11.2.5.3	Bending machines for reinforcing bars	11.2.9.10	Nibbling machines
11.2.5.4	Roller finishing and deep rolling machines	11.2.9.11	Punching presses
11.2.5.5	Section roll bending machines	11.2.9.99	Shearing, nibbling, notching and punching machines - other
11.2.5.6	Ring rolling machines		11.2.10 Micro-forming machines
11.2.5.7	Tube forming, welding and cutting-off machines		11.2.99 Forming machines - other
11.2.5.8	Tube bending machines		Machines for unconventional and special machining and forming technologies
11.2.5.9	Tube reducing and flaring machines	11.3.1	Rapid prototyping devices
11.2.5.10	Tube finishing machines	11.3.2	Ultrasonic machine tools
11.2.5.11	Automatic transfer bar, profile and tube forming lines	11.3.3	Water jet cutting machines
11.2.5.99	Bar, section and tube working machines - other	11.3.4	Electron beam working machines
	Wire forming machines	11.3.5	Plasma beam working machines
11.2.6.1	Wire drawing machines	11.3.6	Machines for unconventional machining - other
11.2.6.2	Wire straightening and cutting-off machines	11.3.7	Laminating (sandwiching) machines and equipment for composites
11.2.6.3	Wire bending machines	11.3.8	Die casting machines
11.2.6.4	Spring coiling machines and devices	11.3.9	Longitudinal and circular dividing machines
11.2.6.5	Chain making machines	11.3.10	Finishing (make-up) machines
11.2.6.6	Wire netting and weaving machines	11.3.11	Embossing, stamping and marking equipment
11.2.6.7	Threading, screwing and bolt rolling machines	11.3.12	Laser lettering machines
11.2.6.8	Rope and cable making machines	11.3.13	Coating machines
11.2.6.9	Nail making machines		11.3.99 Machines for unconventional and special machining and forming technologies - other
11.2.6.99	Wire forming machines - other		
	Bolt, screw, nut and rivet making machines		
11.2.7.1	Hot and cold pressing machines for bolts and screws		
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		
	Sheet working machines, laser based equipment		
11.2.8.1	Sheet metal machining centers, incl. laser based machines or plasma units		
11.2.8.2	Nibbling machines		
11.2.8.3	Strip levelling and cutting-off machines		
11.2.8.4	Cutting-to-length and slitting lines		
11.2.8.5	Sheet-straightening machines		
11.2.8.6	Sheet forming machines		
11.2.8.7	Sheet metal forming machines		



METAL–WORKING AND FORMING MACHINES, TOOLS

QUALITY CONTROL IN METAL-WORKING AND FORMING SECTOR

	<i>Measuring and checking instruments for machining and forming</i>
11.4.1.1	Length measuring instruments
11.4.1.2	Angle and inclination measuring instruments
11.4.1.3	Vibration measuring instruments
11.4.1.4	Speed measuring instruments
11.4.1.5	Surface quality measuring instruments
11.4.1.6	Layer thickness measuring instruments
11.4.1.7	Noise level measuring instruments
11.4.1.8	Temperature measuring instruments for machining and forming
11.4.1.9	Force and torque measuring instruments
11.4.1.10	Clamping force measuring instruments
11.4.1.11	Pressure measuring instruments for machining and forming
11.4.1.12	Profile and shape measuring instruments
11.4.1.13	Thread measuring instruments
11.4.1.14	Circularity measuring instruments
11.4.1.15	Gauges and meters for machining and forming
11.4.1.16	Measuring and testing devices, machining and forming standards
11.4.1.17	Mechanical precision measuring instruments for machining and forming
11.4.1.18	Optical precision measuring instruments for machining and forming
11.4.1.19	Electric precision measuring instruments for machining and forming
11.4.1.20	Electronic precision measuring instruments for machining and forming
11.4.1.21	Pneumatic precision measuring instruments 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
11.4.1.26	Digital read out systems
11.4.1.27	Breakage and wear detection systems
11.4.1.28	Measuring microscopes for machining and forming
11.4.1.29	Surface plates and flatness testing equipment
	<i>Measuring machines</i>
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 and forming sector
11.4.2.9	Measuring projectors
11.4.2.10	Coordinate and multicoordinate measuring machines
11.4.2.11	Systems for 3D scanning
11.4.2.12	Measuring machine accessories
	<i>Testing machines for machining and forming sector</i>
11.4.3.1	Testing machines for tension, compression, bending and other features
11.4.3.2	Tension testing machines
11.4.3.3	Pendulum impact testing machines
11.4.3.4	Drop hammers for material testing
11.4.3.5	Hardness testing machines and devices
11.4.3.6	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	Gear testing machines
11.4.3.12	Balancing machines for machining and forming

11.4.3.13	Electronic balancing equipment for machining and forming
11.4.3.14	Ultrasonic testing machines for machining and forming
11.4.3.15	Power test benches for machining and forming
11.4.3.16	Surface testing machines for machining and forming
11.4.3.17	Stereomicroscopes
11.4.3.18	Eddy current testers
11.4.3.99	Testing machines for machining and forming sector - other

	<i>Image data processing in machining and forming sector</i>
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

	<i>Quality assurance software in machining and forming sector</i>
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 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

METAL-WORKING AND FORMING MACHINES, TOOLS

FLEXIBLE MANUFACTURING SYSTEMS (FMS)

Computer systems and peripherals for flexible manufacturing systems

- 11.5.1.1 FMS data processing systems
- 11.5.1.2 Turnkey computer systems for flexible manufacturing systems
- 11.5.1.3 CAD workstations
- 11.5.1.4 Servers for flexible manufacturing systems
- 11.5.1.5 Data network elements for flexible manufacturing systems
- 11.5.1.6 Communication adapters
- 11.5.1.7 Operator workplaces for flexible manufacturing systems
- 11.5.1.8 Input devices for flexible manufacturing systems
- 11.5.1.9 Interactive terminals for flexible manufacturing systems
- 11.5.1.10 Digitizers, tablets for flexible manufacturing systems
- 11.5.1.11 Scanners for flexible manufacturing systems
- 11.5.1.12 Plotters for flexible manufacturing systems
- 11.5.1.13 Printers for flexible manufacturing systems
- 11.5.1.14 NC-programming systems
- 11.5.1.99 Computer systems and peripheral units for flexible manufacturing systems - other

Software for flexible manufacturing systems

- 11.5.2.1 CAD/CAM systems for machine tools and metal forming machines
 - 11.5.2.1.1 CAD/CAM systems for machine tools
 - 11.5.2.1.2 CAD/CAM systems for metal forming machines
- 11.5.2.2 Software for TPV and PDM (Product Data Management)
- 11.5.2.3 Software for CNC control
- 11.5.2.4 Software for PLC control
- 11.5.2.5 Software for calculation of stress analysis, dynamic design and heat balance by the finite-element method
- 11.5.2.6 Software for electrical design
- 11.5.2.7 Software for production planning and management in flexible manufacturing systems
- 11.5.2.8 Software for flexible assembling systems
- 11.5.2.9 Software for operating data processing in flexible manufacturing systems
- 11.5.2.10 Software for capacity and production date scheduling in flexible manufacturing systems
 - 11.5.2.11 Software for stock management
 - 11.5.2.12 Software for warehousing and material management
 - 11.5.2.13 Software for material database
 - 11.5.2.14 Software for industrial robots in flexible manufacturing systems
- 11.5.2.15 Software for simulation calculations in flexible manufacturing systems
- 11.5.2.16 Software for warehousing and conveyor systems in flexible manufacturing systems
- 11.5.2.99 Software for flexible manufacturing systems - other

Control and drive systems

- 11.5.3.1 CNC control systems
- 11.5.3.2 Programmable logic controllers (PLC)
- 11.5.3.3 Programming systems for CNC training
- 11.5.3.4 Axis position measuring systems
- 11.5.3.5 Robot controllers in flexible manufacturing systems
- 11.5.3.6 Feed drives in flexible manufacturing systems
- 11.5.3.7 Main drives in flexible manufacturing systems
 - 11.5.3.7.1 Servo drives for machine tools and metal forming+C2034 machines
- 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

Electrical and electronic equipment for machine tools and metal forming machines

- 11.5.4.1 Electric motors for machine tools and forming machines

- 11.5.4.2 Generators
- 11.5.4.3 Converters
- 11.5.4.4 Rectifiers for electrical and electronic equipment of machine tools and metal forming machines
- 11.5.4.5 Electric, electronic and magnetic switching and control gear
- 11.5.4.6 Electric and electronic measuring and counting devices
- 11.5.4.7 Electric and electronic detecting, measuring, testing and protecting devices
- 11.5.4.8 Electric and electronic C1797 components and assemblies in flexible manufacturing systems
- 11.5.4.9 Piezoelectric motors, controllers, systems in flexible manufacturing systems
- 11.5.4.10 Optoelectronic parts for laser machine tools
- 11.5.4.11 Power electronics, closed-loop electronic systems in flexible manufacturing systems
- 11.5.4.12 Flexible energy supplies
- 11.5.4.13 Flexible control and power-supply cables for flexible manufacturing systems
- 11.5.4.14 Electric control panels and cubicles in flexible manufacturing systems
- 11.5.4.15 Electrical equipment for induction heating plants
- 11.5.4.99 Electric and electronic equipment for machine tools and metal forming machines - other

Assembling and industrial robots in flexible manufacturing systems

- 11.5.5.1 Flexible assembling systems
- 11.5.5.2 Individual assembling workplaces
- 11.5.5.3 Assembling equipment and automatic machines
- 11.5.5.4 Assembling lines in flexible manufacturing systems
- 11.5.5.5 Modular units for assembling systems
- 11.5.5.6 Handling equipment for warehousing, input and delivery of workpieces, semi-products in flexible manufacturing systems
- 11.5.5.7 Handling equipment for aligning and positioning of workpieces
- 11.5.5.8 Feeding equipment for machine tools
- 11.5.5.9 Gripping tools and automatic fixtures
- 11.5.5.10 Exchangeable devices for robot grippers
- 11.5.5.11 Manipulators in flexible manufacturing systems
- 11.5.5.12 Industrial robots in flexible manufacturing systems
- 11.5.5.13 Working tools for industrial robots
- 11.5.5.99 Manipulators, feeding and sorting equipment - other

Automation of warehousing and transportation for machining and forming

- 11.5.6.1 Conveying systems for machining and forming
- 11.5.6.2 Conveyers for workpieces for machining and forming
- 11.5.6.3 Driverless ground conveyors for machining and forming
- 11.5.6.4 Driverless warehouse conveyors for machining and forming
- 11.5.6.5 Components to interlink separate production stages
- 11.5.6.6 Magazines for workpieces, pressed pieces and semi-products
- 11.5.6.7 Warehousing systems for machining and forming
- 11.5.6.8 Palletizing systems of workpieces and tools
- 11.5.6.9 Warehousing systems of workpieces and tools
- 11.5.6.10 Palletizing systems for machining and forming
- 11.5.6.11 Warehousing equipment for manufacturing plants for machining and forming
- 11.5.6.12 Metal chip crushers in flexible manufacturing systems
- 11.5.6.13 Chip conveyers for flexible manufacturing systems
- 11.5.6.14 Chip deoiling equipment

11.5.99 Flexible manufacturing systems - other



METAL–WORKING AND FORMING MACHINES, TOOLS

PRECISION TOOLS

Machining tools

- 11.6.1.1 Reamers
- 11.6.1.2 Boring bars
- 11.6.1.3 Tool bits
- 11.6.1.4 Broaching tools
- 11.6.1.5 Gear tools
- 11.6.1.6 Threading dies
- 11.6.1.7 Threading tools, cutting
- 11.6.1.8 Milling cutters and gear shaping cutters, disc-type
- 11.6.1.9 Countersinks and core drills
- 11.6.1.10 Circular saw blades, incl. metal carbide discs and tips
- 11.6.1.11 Metal hacksaw blades
- 11.6.1.12 Metal band saw blades
- 11.6.1.13 Inserted tooth saw blades
- 11.6.1.14 Cylindrical saws, slitting saws
- 11.6.1.15 Cutting ceramics inserts
- 11.6.1.16 Carbide tipped tools and cutting tips
- 11.6.1.17 Twist drills and center drills
- 11.6.1.18 Spade drills
- 11.6.1.19 Step drills
- 11.6.1.20 Gun drills
- 11.6.1.21 Boring tools
- 11.6.1.22 Fine boring tools
- 11.6.1.23 Turning tools and tool holders
- 11.6.1.24 Diamond tools, diamond paste, industrial diamonds
- 11.6.1.25 Dressing tools
- 11.6.1.26 Shaving cutters, deburring tools
- 11.6.1.27 Planing and shaping tools
- 11.6.1.28 Honing, lapping and polishing tools
- 11.6.1.29 Cutting tools, coated
- 11.6.1.30 Cutting tools with integrated code
- 11.6.1.31 Power tools
- 11.6.1.32 Graphite materials for EDM - Electro discharge machining
- 11.6.1.33 Electrodes, cutting wires, consumables for electro discharge machine tools
- 11.6.1.34 Special tools for machining
- 11.6.1.35 Tool care products for machining
- 11.6.1.99 Tools for machining - other

Forming tools

- 11.6.2.1 Cutting tools
- 11.6.2.2 Shear knives, machine knives
- 11.6.2.3 Blanking and punching dies
- 11.6.2.4 Forming dies
- 11.6.2.5 Stamping dies, embossing dies
- 11.6.2.6 Markers
- 11.6.2.7 Punches
- 11.6.2.8 Knurling tools
- 11.6.2.9 Thread rolling dies
- 11.6.2.10 Thread cutting tools (forming)
- 11.6.2.10.1 Heads for thread cold rolling
- 11.6.2.11 Roller burnishing tools, smoothing and straining tools
- 11.6.2.12 Drawing dies
- 11.6.2.13 Die blocks
- 11.6.2.14 Deep drawing dies
- 11.6.2.15 Forming tools coated
- 11.6.2.16 Quick-action fixtures for press tools
- 11.6.2.17 Press tool changing systems
- 11.6.2.18 Special tools for forming
- 11.6.2.19 Die-casting dies
- 11.6.2.20 Guide racks
- 11.6.2.21 Standardized parts for forming tools and moulds (punching, stamping tools, posts, sleeves)
- 11.6.2.22 Wedge units
- 11.6.2.99 Forming tools - other

Chucking tools

- 11.6.3.1 Standard fixture parts and clamping elements
- 11.6.3.2 Control elements for jigs and machines
- 11.6.3.3 Collet chucks
- 11.6.3.4 Machine vices
- 11.6.3.5 Drill chucks
- 11.6.3.6 Manual chucks for grinding machines
- 11.6.3.7 Power chucks for grinding machines
- 11.6.3.8 Lathe chucks, hand operated
- 11.6.3.9 Lathe chucks, power operated
- 11.6.3.10 Centers, carriers for lathes
- 11.6.3.11 Expanding mandrels
- 11.6.3.12 Magnetic chucks
- 11.6.3.13 Milling arbors
- 11.6.3.14 Sleeves
- 11.6.3.15 Dividing fixing heads
- 11.6.3.16 Magnetic fixing plates
- 11.6.3.17 Vacuum fixing plates
- 11.6.3.18 Fixture plates
- 11.6.3.19 Rotary holders
- 11.6.3.20 Tool holders
- 11.6.3.21 Rotary tables, also NC-controlled
- 11.6.3.22 Cross slide tables, also NC-controlled
- 11.6.3.23 Chucking tools with code
- 11.6.3.24 Chucking systems, incl. modular
- 11.6.3.99 Clamping tools - other

Tool systems

- 11.6.4.1 Tool systems, modular
- 11.6.4.2 Tool turrets
- 11.6.4.3 Tool changers and magazines
- 11.6.4.4 Tool management software
- 11.6.4.5 Multi-spindle heads
- 11.6.4.6 Boring and facing heads
- 11.6.4.7 Turret heads
- 11.6.4.8 Slotting heads
- 11.6.4.9 Inserted blade milling cutters
- 11.6.4.10 Toolholder with coupleable drive
- 11.6.4.11 Copying devices
- 11.6.4.12 Relieving devices
- 11.6.4.13 Grinding wheel truing, dressing and forming devices
- 11.6.4.14 Threading devices
- 11.6.4.15 Milling devices
- 11.6.4.16 Boring devices
- 11.6.4.17 Grinding devices
- 11.6.4.18 Tool identification systems
- 11.6.4.19 Tool breakage identification devices
- 11.6.4.20 Tool measuring and setting units
- 11.6.4.21 Tool maintenance systems
- 11.6.4.22 Spherical turning attachments
- 11.6.4.99 Tool systems - other

11.6.99 Precision tools - other

METAL–WORKING AND FORMING MACHINES, TOOLS

ACCESSORIES FOR METAL–WORKING AND FORMING

	<i>Lubrication and cooling of metal-working and forming machines</i>		
11.7.1.1	Lubricating oils and consumables for metal-working and forming machines	11.7.3.22	Pneumatic drives, control engineering, components for machine tools and metal forming machines
11.7.1.2	Coolants and lubricants	11.7.3.23	Compressors for machine tools and metal forming machines
11.7.1.3	Central lubricating systems	11.7.3.24	Compressed air conditioning unit
11.7.1.4	Oiling and greasing systems	11.7.3.25	Small electric hoists, conveyance rollers
11.7.1.5	Cooling systems	11.7.3.26	Pneumatic and oil pneumatic jacks
11.7.1.6	Separators for coolants and lubricants, filters, centrifuges	11.7.3.27	Winding and unwinding devices
11.7.1.7	Metal cleaning and deoiling devices	11.7.3.28	Bar magazines and feeders
11.7.1.8	Spraying attachment for forging machines	11.7.3.29	Sheet metal containers and loaders
11.7.1.9	Cask cleaning equipment	11.7.3.30	Grinding spindles
11.7.1.10	Coolant hoses	11.7.3.31	High frequency spindles for machine-tools
	<i>Waste disposal in machining and forming sector</i>	11.7.3.32	Main spindles for turning, milling, drilling and boring machines
11.7.2.1	Air purity protection systems and components	11.7.3.33	Guide way wipers for machine tools
11.7.2.2	Exhaust systems in machining and forming sector	11.7.3.34	Columns, beds and parts of machines by polymerized concrete
11.7.2.3	Dust collection equipment, filtering systems, filters	11.7.3.35	Machine lighting
11.7.2.4	Wastewater treatment equipment and components in machining and forming sector	11.7.3.36	Personal protective equipment
11.7.2.5	Water treatment equipment and components in machining and forming sector	11.7.3.37	Protective devices
11.7.2.6	Emulsion recovery equipment	11.7.3.38	Guards for machine-tools, slideways and lead screws
11.7.2.7	Processing of coolants and lubricants	11.7.3.39	Safety and protective equipment for machine tools and metal forming machines
11.7.2.8	Oil separation, oil mist separation	11.7.3.40	Antiskid mats for machines
11.7.2.9	Waste oil collecting tanks	11.7.3.41	Tool cabinets for machine tools
11.7.2.10	Filtration, ultrafiltration	11.7.3.42	Equipment of workshops for metal-working and forming sector
11.7.2.11	Chip breakers		
11.7.2.12	Chip conveyors	11.7.99	<i>Accessories for metal working and forming - other</i>
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		
	<i>Mechanical components and accessories for construction of machine-tools and forming machines</i>		
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 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		



METAL–WORKING AND FORMING MACHINES, TOOLS

SERVICE AND REPAIRS OF MACHINE-TOOLS AND FORMING MACHINES, REWORKED MACHINES

- 11.8.1 Spare parts for machine tools
- 11.8.2 Spare parts for forming machines
- 11.8.3 General overhauls of machine tools and forming machines**
 - 11.8.3.1 General overhauls of machine tools
 - 11.8.3.2 General overhauls of metal forming machines
- 11.8.4 Redesign and upgrading of machine tools and metal forming machines**
 - 11.8.4.1 Upgrading of el. equipment of machine tools and metal forming machines
 - 11.8.4.2 Upgrading of peripheral units for NC and CNC machines
 - 11.8.4.3 Redesign and upgrading of machine tools
 - 11.8.4.4 Redesign and upgrading of metal forming machines
- 11.8.5 Reworked machine tools
- 11.8.6 Reworked metal forming machines
- 11.8.99 Service and repairs of metal working and forming machines, reworked machines - other**

HAND TOOLS

Hand-operated tools

- 11.9.1 Pneumatic hand-operated tools**
 - 11.9.1.1 Hand-operated pneumatic drills
 - 11.9.1.2 Hand-operated pneumatic thread-cutting machines
 - 11.9.1.3 Hand-operated pneumatic nut runners and screwdrivers
 - 11.9.1.4 Hand-operated pneumatic grinding machines, angle grinders and polishing machines
 - 11.9.1.5 Hand-operated pneumatic shears
 - 11.9.1.6 Manual pneumatic rivet guns
 - 11.9.1.99 Hand-operated pneumatic tools and accessories - other
- 11.9.2 Electric hand-operated tools, incl. cordless programme**
 - 11.9.2.1 Hand-operated electric drills and hammers
 - 11.9.2.2 Hand-operated electric grinders, angle grinders and polishing machines
 - 11.9.2.3 Hand-operated electric saws, shears and milling machines
 - 11.9.2.4 Hand-operated electric nut runners, screwdrivers and threading machines
 - 11.9.2.5 Hand-operated electric staplers
 - 11.9.2.6 Manual electric rivet guns
 - 11.9.2.7 Microtools
 - 11.9.2.99 Hand-operated electric tools and sets - other
- 11.9.3 Hand-operated hydraulic tools**
- 11.9.4 Hand-operated tools driven by internal combustion engine**
- 11.9.5 Mobile and suspension hand-operated tools**
- 11.9.99 Hand-operated tools and parts – others**

Manual non-mechanized tools

- 11.10.1 Hand hammers
- 11.10.2 Pliers, alligator wrenches
- 11.10.3 Manual deburring tools, files
- 11.10.4 Chisels, axes
- 11.10.5 Screwdrivers
- 11.10.6 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 Cases and bags for tools
- 11.10.99 Hand power tools – other**

INSTITUTIONS, LITERATURE AND SERVICES IN METAL-WORKING AND FORMING SECTOR

- 11.11.1 Associations, organizations in metal-working and forming sector
- 11.11.2 Technical publishing houses, literature, specialized periodicals
- 11.11.3 Consultancy in the field of machine tools and metal-forming machines**
 - 11.11.3.1 Consultancy in the field of machine tools
 - 11.11.3.2 Consultancy in the field of metal-forming machines
- 11.11.4 Engineering and design services in the field of machine tools and metal-forming machines**
 - 11.11.4.1 Engineering and design services in the field of machine tools
 - 11.11.4.2 Engineering and design services in the field of metal-forming machines
- 11.11.5 Technologies for metal working and forming**
 - 11.11.5.1 Technological projects for metal working and forming
 - 11.11.5.2 Technological deliveries for metal working and forming
- 11.11.6 Custom manufacture of single-purpose machine tools and metal forming machines**
 - 11.11.6.1 Custom manufacture of single-purpose machine tools
 - 11.11.6.2 Custom manufacture of single-purpose metal forming machines
- 11.11.7 Execution of investments in the field of metal working and forming**
- 11.11.8 Business services in the field of machine tools and metal forming machines**
- 11.11.9 Leasing of metal working and forming machines**
- 11.11.10 Custom coating of metal cutting and forming tools**
- 11.11.11 Custom tool renovation and reconditioning**
 - 11.11.11.1 Compression mould refurbishment
- 11.11.12 Reverse engineering services**
- 11.11.13 Custom rapid prototyping**
- 11.11.14 Offer of production capacities in the metal-working and forming sector**
 - 11.11.14.1 Custom material cutting
 - 11.11.14.2 Custom sheet-metal processing
 - 11.11.14.3 Custom metal-working manufacturing
 - 11.11.14.4 Offer of production capacities in the metal working sector
 - 11.11.14.4.1 Custom CNC machining
 - 11.11.14.4.2 Custom high-speed (HSC) machining
 - 11.11.14.4.3 Custom machining of hard-to-work materials
 - 11.11.14.4.4 Custom laser marking, lettering, engraving
 - 11.11.14.4.5 Custom piece polishing
 - 11.11.14.5 Offer of production capacities in the metal forming sector
- 11.11.99 Services in the sector of metal working and forming - other**
- 11.99 Metal working and forming machines, manual tools, others**

FOUNDRY INDUSTRY

CHARGE RAW MATERIALS FOR FOUNDRIES

- 12.1.1 Pig irons**
 - 12.1.1.1 Foundry pig iron
 - 12.1.1.2 Steel-making pig iron
- 12.1.2 Nonferrous metals, their alloys and master alloys**
- 12.1.3 Waste metal (scrap)**
 - 12.1.3.1 Iron scrap
 - 12.1.3.2 Waste from nonferrous metals
 - 12.1.3.3 Breakers, presses for waste metal, return material
- 12.1.4 Deoxidizing additives**
- 12.1.5 Alloying additives**
 - 12.1.5.1 Ferroalloys
- 12.1.6 Lag-forming additives**
- 12.1.7 Foundry coke**
- 12.1.99 Charge raw materials for foundries - other**

EQUIPMENT OF MELTING PLANTS

- 12.2.1 Equipment of cast iron melting plants**
- 12.2.2 Equipment of steel melting plants**
- 12.2.3 Equipment of nonferrous metals metal plants**

REFRACTORY MATERIALS

- 12.3.1 Non-shaped refractory materials**
- 12.3.2 Shaped refractory materials, shaped pieces**
- 12.3.3 Ceramic filters, sieves for the foundry industry**
- 12.3.4 Melting and holding crucibles of furnaces and ladles**
- 12.3.5 Chemical raw materials and additives for manufacturing refractory products**
- 12.3.99 Refractory materials - other**
- 12.4 TECHNICAL GASES FOR FOUNDRY INDUSTRY**

PATTERN MAKING EQUIPMENT

- Pattern making equipment (patterns, core boxes, sweep patterns)**
 - 12.5.1.1 Pattern making equipment from wood
 - 12.5.1.2 Pattern making equipment from plastics, resin
 - 12.5.1.3 Pattern making equipment from metal
 - 12.5.1.4 Pattern making equipment from wax
 - 12.5.1.99 Pattern making equipment (patterns, core boxes, sweep patterns) - other
- 12.5.2 Machines and aids for manufacturing pattern making equipment**
- 12.5.3 Manufacturing patterns with the help of Rapid Prototyping System**
- 12.5.4 Materials for manufacturing pattern making equipment**

MATERIALS FOR MOULDING AND CORE MIXTURES

- 12.6.1 Grog**
- 12.6.2 Binders**
 - 12.6.2.1 Inorganic binders
 - 12.6.2.2 Organic binders
- 12.6.3 Additives into sand and core mixtures**
- 12.6.4 Sand and core mixtures**

EQUIPMENT FOR TREATMENT OF SAND AND CORE MIXTURES

- 12.7.1 Equipment for treatment of binding mixtures**
- 12.7.2 Equipment for treatment of non-binding mixtures**
- 12.7.3 Equipment for sand mixtures reclamation**
 - 12.7.3.1 Magnets, separators and metal detectors for foundry industry

12.8 Runner and gate technology

EQUIPMENT OF MOULDING SHOPS AND CORE SHOPS

- Equipment of moulding shops**
 - 12.9.1.1 Machines for bentonite mixture moulding in flasks
 - 12.9.1.2 Automatic moulding lines with flasks and their accessories
 - 12.9.1.3 Automatic flaskless moulding lines and their accessories
 - 12.9.1.4 Sand-aerators, sand-aerating lines and their accessories
 - 12.9.1.5 Machines and equipment for self-hardening technology processes
 - 12.9.1.6 Equipment for manufacturing shell moulds
 - 12.9.1.7 Equipment for vacuum hardening of moulds (V-process)
 - 12.9.1.8 Equipment mould manufacturing without binder with wax patterns
 - 12.9.1.99 Equipment of moulding shops and their accessories - other

Equipment of core shops

- 12.9.2.1 Shooting machines
- 12.9.2.2 Equipment for core shooting from self-setting mixtures
- 12.9.2.3 Equipment for thermohardening of cores
- 12.9.2.4 Equipment for manufacturing Cold Box cores
- 12.9.2.5 Automated lines and their accessories for core manufacturing
- 12.9.2.99 Equipment of core shops and their accessories - other

12.9.3 Driers, drying chambers

12.9.4 Aids, auxiliary tools for moulding shops and core shops

- 12.9.4.1 Foundry coats for moulds and cores
- 12.9.5 Auxiliary materials and accessories for risers

FOUNDRY MELTING AND HOLDING FURNACES

- 12.10.1 Foundry fuel-heated furnaces**
 - 12.10.1.1 Foundry furnaces firing solid fuels (cupolas, crucible furnaces)
 - 12.10.1.2 Foundry furnaces firing gas fuel (crucibles, rotary, hearth furnaces)
 - 12.10.1.3 Foundry furnaces firing liquid fuel (crucibles, hearth furnaces)
- 12.10.2 Foundry electric furnaces**
 - 12.10.2.1 Foundry induction crucible and channel-type furnaces (low and mid frequency)
 - 12.10.2.2 Foundry arc furnaces
 - 12.10.2.3 Foundry resistance furnaces
- 12.10.3 Foundry vacuum furnaces**
- 12.10.4 Foundry plasma furnaces**
- 12.10.5 Foundry electron-beam furnaces**
- 12.10.6 Accessories of foundry furnaces**
 - 12.10.6.1 Fuel burners
 - 12.10.6.2 Coils for induction furnaces
- 12.10.99 Foundry melting and holding furnaces - other**

CASTING MACHINES AND EQUIPMENT, ACCESSORIES

- Casting machines and equipment**
 - 12.11.1.1 Pouring ladles
 - 12.11.1.2 Machines and equipment for tipping and gravity casting
 - 12.11.1.3 Machines and equipment for low-pressure casting
 - 12.11.1.4 Metal die casting machines
 - 12.11.1.5 Pressure die casting machines
 - 12.11.1.6 Centrifugal metal casting machines and accessories
 - 12.11.1.7 Automated casting equipment
 - 12.11.1.99 Casting machines and equipment - other
- 12.11.2 Permanent moulds**
 - 12.11.2.1 Permanent moulds made of metal
 - 12.11.2.2 Permanent moulds made of ceramic materials
 - 12.11.2.99 Permanent moulds made of other materials
- 12.11.3 Auxiliary materials and accessories for casting machines and equipment**

WELDING

13.1 FLAME WELDING, SURFACING AND OXYGEN CUTTING MACHINERY AND EQUIPMENT

ARC-WELDING, SURFACING AND CUTTING MACHINERY AND EQUIPMENT

- 13.2.1 Hand-operated welding, surfacing and cutting machinery and equipment
- 13.2.2 Machinery and equipment for gas shielded electric arc welding and surfacing (MIG, MAG)
- 13.2.3 Inert gas-shielded arc welding and surfacing machinery and equipment by using nonconsumable electrode (WIG or TIG)
- 13.2.4 Submerged-arc welding and surfacing machinery and equipment
- 13.2.99 Machinery and equipment for welding, surfacing and arc cutting, others

THERMAL SPRAY MACHINERY AND EQUIPMENT

- 13.3.1 Flame thermal spray machinery and equipment
- 13.3.2 Arc thermal spray machinery and equipment
- 13.3.3 Plasma thermal spray machinery and equipment
- 13.3.4 Machinery and equipment for special methods of thermal spraying
- 13.3.99 Thermal spray machinery and equipment, others

RESISTANCE-WELDING MACHINERY AND EQUIPMENT

- 13.4.1 Machinery and equipment for spot welding
- 13.4.2 Seam welding machinery and equipment
- 13.4.3 Machines and equipment for resistance projection welding
- 13.4.4 Contact and flash welding machinery and equipment
- 13.4.5 Fused-slag welding machinery and equipment
- 13.4.99 Resistance welding machinery and equipment, others

13.5 MACHINERY AND EQUIPMENT FOR PRESSURE WELDING (FRICTION, DIFFUSION, COLD, ULTRASOUND WELDING)

MACHINERY AND EQUIPMENT FOR OTHER METHODS OF WELDING, CUTTING AND SOLDERING

- 13.6.1 Equipment for aluminothermic welding
- 13.6.2 Plasma welding machinery and equipment
- 13.6.3 Laser-beam welding machinery and equipment
- 13.6.4 Electron-beam welding machinery and equipment
- 13.6.5 Stud welding machinery and equipment
- 13.6.6 Root-penetration welding machinery and equipment
- 13.6.7 Machinery and equipment for welding plastics
- 13.6.8 Soldering machinery and equipment
 - 13.6.8.1 Soldering furnaces and their accessories
 - 13.6.8.2 Laser soldering equipment
- 13.6.9 Machinery and equipment for special methods of cutting
- 13.6.10 Machinery and equipment for plasma cutting
- 13.6.99 Machinery and equipment for other methods of welding, surfacing, cutting and soldering, others

ADDITIONAL AND AUXILIARY MATERIALS

- 13.7.1 Welding and cutting electrodes
- 13.7.2 Welding wires, tube electrodes, strips and rods
- 13.7.3 Solders
- 13.7.4 Fluxes for welding and soldering
- 13.7.5 Gases for welding, cutting and soldering
- 13.7.6 Agents for pickling and passivating alloyed corrosion-proof steel welds
- 13.7.7 Liquids, oils and sprays for welding and soldering
- 13.7.99 Consumables and auxiliary materials, others

ROBOTS, MANIPULATORS AND ACCESSORIES FOR WELDING TECHNOLOGIES

- 13.8.1 Welding robots
- 13.8.2 Single-purpose welding, material separating and positioning manipulators
- 13.8.3 Control, measurement, management and sensor systems, additional systems and subsystems
- 13.8.4 Hardware and software for welding technologies

WELDING COMPONENTS, MACHINERY AND EQUIPMENT - OTHER

- 13.9.1 Exhaust and filtration equipment for welding areas
- 13.9.2 Work protection aids (masks, goggles, working and protective garments, etc.)
- 13.9.3 Tools, fixtures and elements of machinery and equipment for welding and related technologies (pneumatic, hydraulic elements, etc.)
- 13.9.4 Machinery and equipment for treating welded structures (vibration treatment, thermal treatment, etc.)
- 13.9.5 Defectoscopic technology for destructive and non-destructive weld tests
- 13.9.6 Driers of consumables in welding areas
- 13.9.99 Other elements, machines and consumables for welding, others

13.10 METAL BONDING MACHINES

- 13.10.1 Units for application of 2K (bicomponent) adhesives and packing materials

13.11 WELDED STRUCTURES, SUB-SUPPLIES OF WELDED PARTS

- 13.11.1 Weldments

RESEARCH, SERVICES AND INSTITUTIONS IN WELDING, CUTTING, SOLDERING AND METAL BONDING

- 13.12.1 Research in welding, cutting, soldering and metal bonding
- 13.12.2 Offers of manufacturing facilities in the areas of welding, cutting, soldering and metal bonding
 - 13.12.2.1 Offers of manufacturing facilities for welding and working
 - 13.12.2.2 Custom soldering
- 13.12.3 Consulting in welding, cutting, soldering and metal bonding
- 13.12.4 Engineering and design services in welding, cutting, soldering and metal bonding
- 13.12.5 Welding, cutting, soldering and metal bonding machines and equipment service and repair
- 13.12.6 Refurbished machines and equipment for welding, cutting, soldering and metal bonding
- 13.12.7 Manufacture of prototype and single-purpose equipment for welding, cutting, soldering and metal bonding
- 13.12.8 Technologies for welding, cutting, soldering and metal bonding
- 13.12.9 Execution of investment projects for welding, cutting, soldering and metal bonding
- 13.12.10 Specialist literature, publications in the areas of welding, cutting, soldering and metal bonding
 - 13.12.11 Institutions and organisations in the areas of welding, cutting, soldering and metal bonding
 - 13.12.12 Vocational schools in the areas of welding, cutting, soldering and metal bonding
 - 13.12.13 Specialist courses and training in the areas of welding, cutting, soldering and metal bonding
- 13.12.99 Research, services and institutions in welding, cutting, soldering, and metal bonding - other



SURFACE TECHNOLOGY

EQUIPMENT FOR CLEANING AND TREATMENT OF SURFACES

- 14.1.1 **Tumbling machines****
- 14.1.2 **Blasting machines****
- 14.1.2.1 High-pressure water jet blasting machines
- 14.1.3 **Brush machines****
- 14.2.3.1 Equipment for electrolytic oxidation of aluminium
- 14.1.4 **Degreasing and cleaning equipment****
- 14.1.4.1 Degreasing and cleaning equipment using organic solutions
- 14.1.4.2 Degreasing and cleaning equipment using aqueous solutions
- 14.1.4.3 Vacuum degreasing plants
- 14.1.4.4 Rust-removing equipment
- 14.1.4.5 Laser equipment for cleaning
- 14.1.4.6 Ultrasound equipment for cleaning
- 14.1.4.7 Micro-organism based cleaning and degreasing equipment
- 14.1.4.99 Degreasing and cleaning equipment, other
- 14.1.5 **Pickling plants****
- 14.1.6 **Passivating plants****
- 14.1.7 **Phosphatizing plants****
- 14.1.8 **Chromating plants****
- 14.1.9 **Varnish layer stripping and devarnishing plants****
- 14.1.9.1 Devarnishing and cleaning furnaces
- 14.1.10 **Agents and consumables for surface cleaning and treatment equipment****
- 14.1.10.1 Abrasive media for tumblers and blasting machines
- 14.1.10.2 Cleaning and degreasing agents
- 14.1.10.3 Rust removers
- 14.1.10.4 Varnish removers
- 14.1.10.5 Antirust agents
- 14.1.10.6 Pickling agents
- 14.1.10.7 Chromating and phosphatizing agents
- 14.1.10.99 Agents and consumables for surface cleaning and treatment equipment, other
- 14.1.99 **Surface cleaning and treatment equipment, other****

ELECTROPLATING EQUIPMENT

- 14.2.1 **Electroplating equipment****
- 14.2.1.1 Zinc-plating equipment
- 14.2.1.2 Hard chrome plating equipment
- 14.2.2 **Equipment for galvanic cleaning and polishing****
- 14.2.3 **Equipment for electrolytic oxidation and colouring****
- 14.2.3.1 Equipment for electrolytic oxidation of aluminium
- 14.2.4 **Equipment for electroforming****
- 14.2.5 **Electric etching equipment****
- 14.2.6 **Electroplating systems for printed boards****
- 14.2.7 **Strip galvanizing equipment****
- 14.2.8 **Galvanizing lines****
- 14.2.9 **Equipment for electroless (chemical) plating****
- 14.2.10 **Attachments and accessories for electroplating equipment****
- 14.2.10.1 Electric current sources for electroplating equipment
- 14.2.10.2 Control and regulation devices for electroplating equipment
- 14.2.10.3 Containers for electroplating

- 14.2.10.4 Bath heaters for electrodeposition
- 14.2.10.5 Baskets for electroplated products
- 14.2.10.6 Centrifuge drums for electroplating equipment
- 14.2.10.7 Filtering equipment for electroplating equipment
- 14.2.10.8 Recycling equipment for electroplating
- 14.2.10.99 Accessories for electroplating equipment, other

14.2.11 **Anodes for electroplating equipment**

- 14.2.12 **Chemicals for electroplating technology****
- 14.2.12.1 Chemicals for printed circuit boards manufacture

14.2.99 **Electroplating equipment, other**

LACQUERING SYSTEMS, ENAMELLING SYSTEMS, PLASTIC COATING SYSTEMS

- 14.3.1 **Equipment for pneumatic spraying of coating materials****
- 14.3.2 **Equipment for high-pressure spraying of coating materials****
- 14.3.3 **Equipment for spraying of heated coating materials****
- 14.3.4 **Equipment for dip coating****
- 14.3.5 **Equipment for glazing****
- 14.3.6 **Drum coating machines****
- 14.3.7 **Roller coating equipment****
- 14.3.7.1 Equipment for coil coating
- 14.3.8 **Electrostatic wet coating equipment****
- 14.3.9 **Powder coating equipment****
- 14.3.9.1 Spray guns for electrostatic powder coating
- 14.3.9.2 Baking kilns for powder coating materials and their accessories
- 14.3.10 **Equipment for electrophoretic coating****
- 14.3.11 **Booths for lacquering, drying and coat baking****
- 14.3.11.1 Fire protection for lacquering booths
- 14.3.11.2 IR radiation baking of coating materials
- 14.3.11.3 Induction baking of coating materials
- 14.3.11.4 UV radiation curing of coating materials
- 14.3.11.5 Electron-beam curing of coating materials
- 14.3.12 **Equipment for enamelling****
- 14.3.12.1 Enamelling firing kilns and accessories
- 14.3.13 **Equipment for surface coating with plastics and rubber****
- 14.3.14 **Conveyors for lacquering equipment****
- 14.3.15 **Robots, manipulators and accessories for surface treatment****
- 14.3.16 **Compressors and pumps for lacquering equipment****
- 14.3.17 **Coating materials and putties****
- 14.3.17.1 Synthetic coating materials
- 14.3.17.2 Oil coating materials
- 14.3.17.3 Bitumen coating materials
- 14.3.17.4 Acrylate coating materials
- 14.3.17.5 Acrylurethane coating materials
- 14.3.17.6 Epoxy resin coating materials
- 14.3.17.7 Epoxy ester coating materials
- 14.3.17.8 Epoxy acrylate coating materials
- 14.3.17.9 Polyurethane coating materials
- 14.3.17.10 Water-soluble paints
- 14.3.17.11 Powder coating materials
- 14.3.17.12 Thinners and solvents
- 14.3.17.13 Putties for surface finishing
- 14.3.17.14 Masking materials for lacquering plants

SURFACE TECHNOLOGY

14.3.17.99 Coating materials and putties, other

- 14.3.18 Nano-varnishes
- 14.3.19 Dyestuffs, pigments
- 14.3.20 Enamels
- 14.3.21 Foil for product surface finish

EQUIPMENT FOR CHEMICAL AND HEAT METAL TREATMENT

- 14.4.1 **Equipment for diffusion saturation of steel surface**
 - 14.4.1.1 Case hardening equipment
 - 14.4.1.2 Nitriding equipment
 - 14.4.1.3 Nitrocarburizing equipment
 - 14.4.1.4 Equipment for carbonitriding
 - 14.4.1.5 Equipment for sulpho-nitriding
 - 14.4.1.6 Equipment for boriding
 - 14.4.1.7 Equipment for alitizing
- 14.4.2 **Furnaces for chemical and thermal treatment of surfaces and their accessories**
- 14.4.3 **Solid, liquid and gaseous substances for chemical and thermal treatment of surfaces**
- 14.4.99 **Equipment for chemical and thermal treatment of surfaces, other**

LASER AND PLASMA COATING TECHNOLOGIES

- 14.5.1 **Laser coating technologies**
- 14.5.2 **Physical Vapour Deposition (PVD) plants**
- 14.5.3 **Chemical Vapour Deposition (CVD) plants**
- 14.5.4 **Plasma technologies for ion beam coating**
- 14.5.5 **Vacuum components and accessories for laser and plasma coating technologies**
- 14.5.99 **Laser and plasma coating technologies, other**

EQUIPMENT FOR THERMAL SPRAYING

- 14.6.1 **Flame metal spraying equipment**
- 14.6.2 **Arc metal spraying equipment**
- 14.6.3 **Plasma metal spraying equipment**
- 14.6.99 **Plants for thermal spraying, other**

SPECIAL SYSTEMS FOR SURFACE TREATMENT

- 14.7.1 **Thermal surface treatment systems**
 - 14.7.1.1 Annealing plants
 - 14.7.1.2 Hardening and tempering plants
 - 14.7.1.3 Annealing, hardening and tempering furnaces and their accessories
 - 14.7.1.4 Hardening baths and materials
- 14.7.2 **Browning and black-finishing plants**
- 14.7.3 **Equipment for metal spraying**
 - 14.7.3.1 Equipment for plating
- 14.7.4 **Hot galvanization plants**
- 14.7.5 **Hot-dip tinning plants**
- 14.7.6 **Polishing, grinding and lapping equipment and accessories**
- 14.7.7 **Non-thermal surface hardening systems**
- 14.7.8 **Tampon printing, silkscreen printing**
- 14.7.9 **Industrial surface marking systems**
 - 14.7.9.1 Equipment for electro-chemical marking
 - 14.7.9.2 Micro-impact marking machines
 - 14.7.9.3 Equipment for surface marking by film application
 - 14.7.9.4 Self-adhesive materials
 - 14.7.9.5 Scribing and engraving machines

- 14.7.9.5.1 and equipment
- 14.7.9.5.1 Laser marking and scribing machines
- 14.7.9.6 Marking printers
- 14.7.9.7 Labelling devices
- 14.7.9.8 Embossing dies
- 14.7.9.9 Embossing guns
- 14.7.9.10 Embossing presses
- 14.7.9.99 Industrial equipment for surface marking, other

14.7.99 Special surface treatment systems, other

ENVIRONMENTAL PROTECTION SYSTEMS FOR SURFACE TREATMENT TECHNOLOGIES

- 14.8.1 **Water treatment plants for surface technology**
 - 14.8.1.1 Water treatment plant for plating shops
- 14.8.2 **Waste water treatment plants for surface technologies**
 - 14.8.2.1 Waste water treatment plants for electroplating shops
- 14.8.3 **Waste gas cleaning plants for surface treatment technology**
- 14.8.4 **Surface treatment waste disposal**
- 14.8.5 **Consultancy in environmental protection systems for surface treatment technologies**
- 14.8.99 **Environmental protection systems for surface treatment technologies, other**

COMPUTER, MEASURING AND TESTING DEVICES FOR SURFACE TREATMENT

- 14.9.1 **Computer management systems for surface treatment enterprises**
- 14.9.2 **Software for support of quality assurance and management (CAQ)**
- 14.9.3 **CAD, CAM and CIM for surface treatment**
- 14.9.4 **Regulation and control equipment for surface treatment technologies**
- 14.9.5 **Measuring and testing devices for surface treatment applications**
 - 14.9.5.1 Nano-technologies testing and measuring instruments
- 14.9.99 **Computer, measuring and testing devices for surface treatment, other**

RESEARCH, SERVICES AND INSTITUTIONS IN SURFACE TREATMENT SECTOR

- 14.10.1 **Research in surface treatment technologies**
 - 14.10.2 Offers of production facilities in surface treatment sector
 - 14.10.2.1 Custom cleaning and pre-treatment of surfaces
 - 14.10.2.2 Custom electroplating
 - 14.10.2.3 Custom heat treatment of metals
 - 14.10.2.3.1 Customized quenching and annealing
 - 14.10.2.4 Custom chemical and heat treatment of metals
 - 14.10.2.4.1 Customized case hardening, nitriding
 - 14.10.2.5 Custom technical coating applications
 - 14.10.2.5.1 Custom PVD and CVD coating of tools
 - 14.10.2.6 Custom lacquering
 - 14.10.2.7 Custom hexabasic chromium free corrosion protection
 - 14.10.2.8 Custom metal spraying of surfaces
 - 14.10.2.9 Customized hot galvanizing
 - 14.10.2.10 Customized thermal coating
 - 14.10.2.11 Customized cladding
 - 14.10.2.12 Custom application of plastic coatings



- 14.10.2.12.1 Custom fluoroplastic coating
- 14.10.2.99 Offers of surface treatment facilities, other
- 14.10.3 Consultancy in surface treatment technologies**
- 14.10.4 Surface treatment engineering and design services**
- 14.10.5 Service and repair of machines and equipment for surface treatment applications**
- 14.10.5.1 Spare parts for machines and equipment for surface treatment
- 14.10.5.2 General overhauling of surface treatment machines and equipment
- 14.10.5.3 Reconstruction and upgrading of surface treatment machines and equipment
- 14.10.6 Refurbished machines and equipment for surface treatment**
- 14.10.7 Manufacture of prototype and single-purpose equipment for surface treatment**
- 14.10.8 Surface treatment technologies**
- 14.10.8.1 Surface treatment technology projects
- 14.10.8.2 Technological supplies for the surface treatment industry
- 14.10.9 Execution of investment projects in surface treatment sector**
- 14.10.10 Financial services and leasing in surface treatment sector**
- 14.10.11 Technical literature and publications for surface treatment applications**
- 14.10.12 Institutions and organisations in surface treatment sector**
- 14.10.13 Vocational training schools specializing in surface treatment systems**
- 14.10.14 Specialist courses and education in surface treatment systems**
- 14.10.99 Research, services, institutions in surface treatment sector, other**

PLASTICS, RUBBER, COMPOSITES

POLYMERS - RAW MATERIALS AND AUXILIARIES

15.1.1 Thermoplastics

15.1.1.1 Polyolefins

- 15.1.1.1.1 Polyethylenes (PE)
- 15.1.1.1.1.1 Ultra low density polyethylenes (ULDPE)
- 15.1.1.1.1.2 Low density polyethylenes (LDPE)
- 15.1.1.1.1.3 Linear low density polyethylenes (LLDPE)
- 15.1.1.1.1.4 Medium-density polyethylenes (MDPE)
- 15.1.1.1.1.5 High-density polyethylenes (HDPE)
- 15.1.1.1.1.6 High molecular weight high-density polyethylenes (HMW-HDPE)
- 15.1.1.1.1.7 Ultra-high molecular weight high-density polyethylenes (HMW-HDPE)
- 15.1.1.1.1.8 Modified PE, copolymers, degradable types
- 15.1.1.1.1.99 Polyethylenes, other

- 15.1.1.1.2 Polypropylenes (PP)
- 15.1.1.1.3 Polybutene (PB) and polyisobutylene (PIB)
- 15.1.1.1.99 Polyolefins - other

- 15.1.1.2 Polystyrene plastics
- 15.1.1.2.1 Polystyrene (PS)
- 15.1.1.2.2 Expandable polystyrene (EPS)
- 15.1.1.2.3 Rigid polystyrene (S/B, HIPS)
- 15.1.1.2.4 Styrene-acrylonitrile copolymers (SAN)
- 15.1.1.2.5 Acrylonitrile-butadiene-styrene (ABS)
- 15.1.1.2.99 Styrene copolymers, multipolymers and blends - other

- 15.1.1.3 Vinyl chloride plastics
- 15.1.1.3.1 Polyvinyl chloride unplasticized (PVC-U)
- 15.1.1.3.2 Polyvinyl chloride plasticized (PVC-P)
- 15.1.1.3.3 Foamed PVC
- 15.1.1.3.4 PVC pastes
- 15.1.1.3.5 PVC blends (polyblends)
- 15.1.1.3.99 Vinyl chloride plastics - other

- 15.1.1.4 Fluoroplastics
- 15.1.1.4.1 Polytetrafluorethylene (PTFE)
- 15.1.1.4.99 Fluoroplastics, other

- 15.1.1.5 Acrylates
- 15.1.1.5.1 Polymethylmetacrylate (PMMA)
- 15.1.1.5.2 Copolymers and acrylate blends

- 15.1.1.6 Polyoxymethylene (POM)
- 15.1.1.6.1 Homopolymers and their modifications
- 15.1.1.6.2 Copolymers and their modifications

- 15.1.1.7 Polyamides (PA)
- 15.1.1.7.1 Polyamides PA 6
- 15.1.1.7.2 Polyamides PA 66
- 15.1.1.7.3 Polyamides PA 11
- 15.1.1.7.4 Polyamides PA 12
- 15.1.1.7.5 Polyamides PA 46, 610, 612
- 15.1.1.7.6 Polyamides - other types
- 15.1.1.7.7 Aromatic polyamides (polyarylamides)
- 15.1.1.7.8 Copolymers and polyamide alloys

- 15.1.1.8 Polyarylesters
- 15.1.1.8.1 Polycarbonates (PC)
- 15.1.1.8.2 Copolymers and polyarylester blends
- 15.1.1.8.3 Polyethylen terephthalate (PETP, PET)
- 15.1.1.8.4 Polybutylene terephthalate (PBTP)
- 15.1.1.8.5 Polyarylates (PAR, PEC)

- 15.1.1.9 Polysulfides
- 15.1.1.9.1 Polyphenylene sulfide (PPS)

- 15.1.1.10 Polysulfones

- 15.1.1.10.1 Polyphenylene sulfone (PPS)

- 15.1.1.11 Thermoplastic polyimides (PI)
- 15.1.1.12 Liquid crystal polymers (LCP)
- 15.1.1.13 Polyphenylene oxides (POP, PPE) and their blends
- 15.1.1.14 Polyetheretherketone (PEEK)
- 15.1.1.15 Cellulose derivatives
- 15.1.1.16 Highly heat-resistant thermoplastics

15.1.1.99 Thermoplastics, other

15.1.2 Thermoplastic elastomers (TPE)

15.1.3 Thermosetting plastics

- 15.1.3.1 Phenol moulding compounds (PF)
- 15.1.3.2 Aminoplastic moulding compounds
- 15.1.3.2.1 Urea resin moulding compounds (UF)
- 15.1.3.2.2 Melamine resin moulding compounds (MF)
- 15.1.3.2.3 Modified types of aminoplastic compounds
- 15.1.3.3 Polyester resins unsaturated (UP)
- 15.1.3.4 Epoxy resins (EP)
- 15.1.3.5 Highly heat-resistant thermosetting plastics
- 15.1.3.99 Thermosetting plastics - other

15.1.4 Polyurethanes (PUR)

- 15.1.4.1 Unextended polyurethanes
- 15.1.4.2 PUR flexible foam systems
- 15.1.4.3 PUR rigid foam systems
- 15.1.4.4 PUR integral foam systems
- 15.1.4.99 Polyurethanes (PUR) - other

15.1.5 Rubbers and vulcanized rubbers

- 15.1.5.1 Natural rubber (NR)
- 15.1.5.2 Styrene-butadiene rubber (SBR)
- 15.1.5.3 Butadiene rubbers (BR)
- 15.1.5.4 Isoprene rubber (IR)
- 15.1.5.5 Butyl rubber (IIR)
- 15.1.5.6 Ethylene-propylene rubbers (EPM, EPDM, EPR)
- 15.1.5.7 Styrene-isoprene rubber (SIR)
- 15.1.5.8 Chloroprene rubber (CR)
- 15.1.5.9 Nitrile rubber (NBR)
- 15.1.5.10 Polyurethane rubber (U)
- 15.1.5.11 Polysulfide rubber (T)
- 15.1.5.12 Acrylic rubber (ABR)
- 15.1.5.13 Chlorosulfonated rubbers (PE, HY)
- 15.1.5.14 Fluoro rubber (FC)
- 15.1.5.15 Silicone rubber (SI)
- 15.1.5.99 Rubbers and vulcanized rubbers - other

15.1.6 Polymer materials for manufacture of coating materials

- 15.1.6.1 Polymers for manufacture of transparent lacquers
- 15.1.6.2 Polymers for manufacture of pigmented paints and enamels

15.1.7 Polymer materials for manufacture of adhesives

- 15.1.7.1 Polymers for manufacture of thermoplastic adhesives
- 15.1.7.2 Polymers for manufacture of thermosetting adhesives

15.1.8 Polymers and fillers for manufacture of cements

- 15.1.8.1 Polymers for manufacture of thermoplastic cements
- 15.1.8.2 Polymers for manufacture of thermosetting cements
- 15.1.8.3 Fillers for manufacture of cements

15.1.9 Additives and fillers for processing of plastics and rubber blends

- 15.1.9.1 Additives and fillers for processing of plastics
- 15.1.9.1.1 Dyestuffs, pigments for plastics
- 15.1.9.1.2 Dyestuffs and additives for plastics in the form of concentrates (masterbatches)
- 15.1.9.1.3 Fillers



PLASTICS, RUBBER, COMPOSITES

15.1.9.1.4	Plasticizers	15.2.5.7	Injection moulding machines with pressurized inert gas
15.1.9.1.5	Stabilizers (thermo-oxidation, etc.)	15.2.5.8	Power injection moulding (PIM) machines
15.1.9.1.6	Antistatic agents	15.2.5.99	Injection moulding machines - other
15.1.9.1.7	Flame retarding agents		
15.1.9.1.8	Crosslinking agents	15.2.6	Machinery for manufacture of foamed materials and processing of reactive resins
15.1.9.1.9	Nucleating agents		
15.1.9.1.10	Agents facilitating preparation of polymer blends (compatibilizers)	15.2.7	Curing presses
15.1.9.1.11	Blowing agents		
15.1.9.1.12	Dispersing agents	15.2.8	Machines for manufacture of tyres
15.1.9.1.13	Not genuine solvents		
15.1.9.1.14	Lubricants, waxes for processing of plastics	15.2.9	Machines for manufacture of rubber hoses
15.1.9.1.15	Separating agents		
15.1.9.1.99	Additives and fillers for processing of plastics - other	15.2.10	Blow moulding machines for manufacture of hollow articles
		15.2.10.1	Extruding blow moulding machines
15.1.9.2	Additives and fillers for processing of rubber blends	15.2.10.2	Injection blow moulding machines
15.1.9.2.1	Curing agents		
15.1.9.2.2	Curing accelerators	15.2.11	Casting machines and equipment for liquid polymer processing
15.1.9.2.3	Plasticizers for rubber blends		
		15.2.12	Equipment for plastic or rubber coating
15.1.9.2.4	Fillers for rubber blends		
15.1.9.2.4.1	Active fillers (reinforcements)	15.2.13	Moulds, tools and jigs
		15.2.13.1	Injection moulds
15.1.9.2.5	Antideterioration agents for rubber blends	15.2.13.2	Blow moulds
15.1.9.2.6	Dyestuffs, pigments for rubber blends	15.2.13.3	Compression moulds
15.1.9.2.7	Blowing agents for rubber blends	15.2.13.4	Moulds, tools and jigs for extruders
15.1.9.2.8	Peptization agents	15.2.13.5	Standardized parts for moulds, tools and jigs
15.1.9.2.99	Additives and fillers for processing of rubber blends - other	15.2.13.6	Heated injection systems
		15.2.13.7	Hot air-channel systems
15.1.10	Biopolymers	15.2.13.99	Moulds, tools and jigs, other
15.1.11	Synthetic polymer-based ion exchange resins		
15.1.99	Polymers - raw materials and additives - other	15.2.14	Ancillary machines and equipment for plastics 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
		15.2.14.9	Flow meters
		15.2.14.10	Digital scales
		15.2.14.11	Equipment for separation of gate and culls from castings
		15.2.14.12	Robots and handling devices for plastics and rubber processing machines
		15.2.14.13	Systems for automatic mould changing
		15.2.14.14	Belt conveyors for mouldings
		15.2.14.99	Ancillary machines and equipment for plastics and rubber industries - other
		15.2.15	Dying units for plastic materials
		15.2.16	Equipment for intake and treatment of air and other gases for technological purposes
		15.2.17	Deflashing machines for plastic and rubber components
		15.2.18	Plastics thermoforming machines
		15.2.18.1	Vacuum machines for hot plastic moulding
		15.2.19	Machines and fixtures for welding of plastics
		15.2.19.1	Machines for welding plastic sheets
		15.2.20	Machines for chip working of plastics
		15.2.21	Machines and equipment for finishing operations
		15.2.22	Machines, equipment and materials for finishing, decorating, printing and marking plastic and rubbers products

MACHINES AND EQUIPMENT FOR PROCESSING OF PLASTICS AND RUBBERS

15.2.1 Machines for treatment of polymer materials

- 15.2.1.1 Mixing and kneading machines
- 15.2.1.2 Crushing machines
- 15.2.1.3 Filtration systems
- 15.2.1.4 Machines for manufacture of plastics and rubbers mixtures
- 15.2.1.99 Machines for treatment of polymer materials - other

15.2.2 Calenders - rolling machines

- 15.2.2.1 Machines and lines for production of plastic sheets and floorings

15.2.3 Extruders - extruding machines for plastic and rubber blends

- 15.2.3.1 Extruders for plastic materials
- 15.2.3.1.1 Machines and lines for production of boards, sheets, pipes and sections of thermoplastics

15.2.3.2 Extruders for rubber industry

- 15.2.3.2.1 Extruding equipment for rubber

15.2.4 Moulding machines for thermosetting plastics and rubber

- 15.2.4.1 Injection moulding machines for thermosetting plastics and rubber blends
- 15.2.4.2 Multibank presses for manufacture of laminated materials

15.2.5 Injection moulding machines

- 15.2.5.1 Hydraulic injection moulding machines
- 15.2.5.2 Hybrid (electrical and hydraulic) injection moulding machines
- 15.2.5.3 Electrical injection moulding machines
- 15.2.5.4 Multi-colour and multi-component injection moulding machines
- 15.2.5.5 Injection moulding machines for thermosetting plastics
- 15.2.5.6 Injection moulding machines for technical rubber articles

PLASTICS, RUBBER, COMPOSITES

15.2.22.1	Equipment for metallizing of plastic articles	15.3.4.1	Hot pressing technologies (BMC or DMC)
15.2.23	Equipment and technologies for Rapid Prototyping, Rapid Tooling and Room Temperature Vulcanization	15.3.4.2	Manual wet coating
15.2.24	Process control equipment of machines for plastics and rubber industries	15.3.4.3	Winding technologies (rovings, fabric strips)
15.2.25	Parts and components of machines for plastics and rubber industries	15.3.4.4	Resin Transfer Moulding (RTM) technologies
15.2.25.1	Screws	15.3.4.5	Vacuum Assisted RTM (VARTM) technologies
15.2.25.2	Hydraulic and pneumatic rollers	15.3.4.6	Seeman Composite Resin Infusion Moulding Process (SCRIMP) technologies
15.2.25.3	Rollers for calendars	15.3.4.7	Pultrusion technologies
15.2.25.4	Pumps for plastics and rubber processing machines	15.3.4.8	Sheet Moulding Composed (SMC) technologies
15.2.25.5	Nozzles	15.3.4.9	Equipment for spraying mixture of resin and fibres on moulds
15.2.25.6	Heating elements	15.3.4.10	Rotary casting technology for production of composites
15.2.25.7	Machine blades	15.3.4.11	Technology of flat and corrugated sheets
15.2.25.8	Clutches	15.3.4.12	Vacuum bag and autoclave technologies
15.2.25.9	Electric motors and drives	15.3.4.99	Technologies, machines and equipment for manufacture of thermosetting matrix fibre composites, other
15.2.25.99	Parts and components of machines for plastics and rubber industries, other	15.3.5	Technologies, machines and equipment for manufacture of thermosetting matrix fibre composites
15.2.26	Equipment for neutralization and use of static electricity in manufacture	15.3.5.1	Pressing technologies
15.2.99	Machines and equipment for processing of plastics and rubber, other	15.3.5.2	Technologies for lamination of mouldable thermoplastic prepregs on piling or winding machines
COMPOSITE MATERIALS		15.3.5.3	Technologies for hot moulding of semi-finished products (GMT-Glass Mat Thermoplastics)
15.3.1	Composite reinforcements	15.3.5.4	Injection technologies for thermoplastics with short reinforcing fibres
15.3.1.1	Reinforcing fibres	15.3.5.5	Extrusion technologies for thermoplastics with short reinforcing fibres
15.3.1.1.1	Glass fibres	15.3.5.99	Technologies, machines and equipment for manufacture of thermoplastic matrix fibre composites, other
15.3.1.1.1.1	Glass rovings	15.3.6	Technology of particle composites with polymer matrix
15.3.1.1.1.2	Textile glass fabric	15.3.7	Technology of composites with metal matrix
15.3.1.1.1.3	Textile glass mats	15.3.8	Technology of composites with ceramic matrix
15.3.1.1.2	Polymer fibres	15.3.9	Nanocomposites
15.3.1.1.2.1	UHMW PE fibres	15.3.10	Semi-finished composite products
15.3.1.1.2.2	Aramide fibres	15.3.10.1	Composite structural sections, rods, pipes, boards
15.3.1.1.3	Carbon fibres	15.3.10.2	Composite panels with sandwich core
15.3.1.1.4	Metal fibres	15.3.11	Composite products
15.3.1.1.5	Basalt fibres	15.3.11.1	Glass-fibre reinforced plastic products
15.3.1.1.6	Fibres of natural materials	15.3.99	Composites, other
15.3.1.1.7	Whiskers (fibre monocrystals)	SEMI-FINISHED AND FINISHED PLASTIC PRODUCTS	
15.3.1.1.99	Reinforcing fibres, other	15.4.1	Semi-finished plastic products
15.3.1.2	Reinforcing composite elements	15.4.1.1	Films, sheets, strips, bands
15.3.1.3	Honeycomb cores for sandwich structures	15.4.1.1.1	Biodegradable plastic films
15.3.1.4	Semi-finished composites with prepregs	15.4.1.2	Blocks, boards
15.3.1.4.1	Prepregs with thermosetting matrix	15.4.1.2.1	Blocks and boards of foamed plastics
15.3.1.4.2	Prepregs with thermoplastic matrix	15.4.1.3	Sections
15.3.1.99	Composite reinforcements, other	15.4.1.4	Rods
15.3.2	Materials for polymer matrices	15.4.1.5	Fibres, lines, strings
15.3.2.1	Materials for thermosetting matrices	15.4.1.6	Pipes, hoses
15.3.2.2	Materials for thermoplastic matrices	15.4.1.7	Semi-finished plastic castings
15.3.3	Machines and equipment for manufacture of prepregs	15.4.1.99	Semi-finished plastic products, other
15.3.3.1	Tape layer machines	15.4.2	Plastic products
15.3.3.2	Machines for SMC manufacturing	15.4.2.1	Bearings and parts thereof
15.3.3.3	Machines for textile prepregs	15.4.2.2	Gears
15.3.4	Technologies, machines and equipment for manufacture of thermosetting matrix fibre composites		

PLASTICS, RUBBER, COMPOSITES

15.5.20	Rubber containers and bags	15.7.99	Computer, testing and measuring technologies for plastics and rubbers, other
15.5.21	Rubber-coated cylinders		
15.5.22	Articles produced by dipping		
15.5.23	Ebonite products		
15.5.98	Rubber components for automotive applications of all kinds		
15.5.99	Rubber semi-finished and finished products, other		
MACHINES AND EQUIPMENT FOR RECYCLING AND USE OF PLASTIC AND RUBBER WASTE MATERIALS		RESEARCH, SERVICES AND INSTITUTIONS IN PLASTICS AND RUBBERS	
15.6.1	Mills and crushers for plastic waste	15.8.1	Research in plastics and rubbers
15.6.1.1	Cryogenic mills and crushers for plastic and rubber waste	15.8.2	Custom plastic and rubber components manufacture
15.6.1.2	Tyre crushers	15.8.2.1	Custom plastic components manufacture
15.6.2	Machines, equipment and technologies for separation of contaminating materials from plastic and rubber waste	15.8.2.2	Custom rubber components manufacture
15.6.3	Technologies, machines and equipment for chemical and thermal recycling of waste polymer materials	15.8.2.3	Custom adjustments and assembly of components
15.6.4	Solid waste processing lines (plastics, cables, tyres)	15.8.3	Consultancy in plastics and rubber manufacturing
15.6.5	Plastic re-granulates and waste (HDPE, LDPE, PP, PS, PVC, PUR)	15.8.4	Engineering and design services for plastics and rubber manufacturing
15.6.6	Recycled elastomer materials	15.8.5	Service and repairs of machines for plastics and rubber industries
15.6.7	Consultancy in recycling and use of plastic and rubber waste materials	15.8.5.1	Spare parts for machines for plastics and rubber industries
15.6.99	Machines and equipment for recycling and use of plastic and rubber waste materials - other	15.8.5.2	Renovation of moulds, screws, chambers and cylinders
		15.8.5.3	Turnkey systems of general overhauls of machines for plastics and rubber industries
		15.8.5.4	Reconstruction and modernisation of machines for plastics and rubber industries
		15.8.6	Refurbished machines for plastics and rubber industries
		15.8.7	Manufacture of prototype and single-purpose equipment for plastics and rubber industries
		15.8.8	Technologies for plastics and rubber industries
		15.8.8.1	Technology projects for plastics and rubber industries
		15.8.8.2	Technology supplies to plastics and rubber industries
		15.8.9	Execution of investment projects in plastics and rubber industries
		15.8.10	Financial services, leasing for plastics and rubber industries
		15.8.11	Technical literature and publications 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 plastics and rubbers sector, other
COMPUTER, TESTING AND MEASURING TECHNOLOGIES FOR PLASTICS AND RUBBERS			
15.7.1	Control systems for plastics and rubber enterprises		
15.7.2	Statistical Process Control (SPC) systems for long-term monitoring of production processes and quality		
15.7.3	CAD, CAM and CIM for plastics and rubber plants		
15.7.3.1	CAD systems for injection processes analysis and optimization		
15.7.3.2	Regulation system for melt flow in the mould		
15.7.4	Development software for designers		
15.7.5	Pick-up sensors of dimensions, pressure, temperature and forces in plastics and rubber processing machines		
15.7.6	Measuring equipment for length, thickness and surface geometry of plastic components		
15.7.6.1	Systems for 2D and 3D scanning of complex shapes		
15.7.7	Rheometers, plastometers, viscosimeters		
15.7.8	Temperature measuring instruments for manufacture and processing of plastics and rubbers		
15.7.9	Thermomechanical analysers		
15.7.10	Measuring instruments of optical properties of plastics and rubbers		
15.7.11	Multiparameter measuring stations		
15.7.12	Material thermostability testers		
15.7.13	Testers of mechanical and dynamic ruggedness of materials		



CHEMICALS FOR ENGINEERING

16.1 Equipment for the chemical industry

- 16.1.1 Tanks, vessels, pressure vessels for the chemical industry
- 16.1.1.1 Tanks and vessels of corrosion-proof steels for the chemical industries
- 16.1.1.2 Containers, barrels for storing of chemicals
- 16.1.2 Columns
- 16.1.2.1 Rectification columns
- 16.1.3 Filters for chemical production
- 16.1.3.1 Filters for liquid materials
- 16.1.3.2 Filters for gaseous materials
- 16.1.3.3 Filters with automatic cleaning of filter partition
- 16.1.3.4 Equipment for diaphragm technology, ultrafiltration and nanofiltration
- 16.1.4 Filtration systems for the chemical industry
- 16.1.4.1 Filtration systems for plastic and rubber melts
- 16.1.4.2 Filtration systems for the production of synthetic fibres
- 16.1.4.3 Filtration systems for plastic melt recycling
- 16.1.5 Mixing and kneading machines
- 16.1.5.1 Fluid mixing equipment
- 16.1.5.2 Static mixers
- 16.1.6 Crushers
- 16.1.7 Mills for the chemical industry
- 16.1.7.1 Colloid mills
- 16.1.7.2 Pulverizers
- 16.1.7.3 Screens for the chemical industry
- 16.1.8 Separators
- 16.1.8.1 Hydrocyclones
- 16.1.8.2 Devices for fluid separators
- 16.1.9 Air separators and screening machines
- 16.1.10 Dedusting equipment
- 16.1.11 Centrifuges
- 16.1.12 Evaporators, evaporating equipment
- 16.1.12.1 Vacuum evaporators
- 16.1.13 Homogenizers
- 16.1.14 Decanters
- 16.1.15 Crystallization equipment
- 16.1.16 Cleaning equipment for chemical engineering
- 16.1.17 Heat exchangers for chemical engineering
- 16.1.18 Industrial furnaces for chemical production
- 16.1.18.1 Tube furnaces for the chemical and refinery industries
- 16.1.18.2 High-temperature fluid-bed furnaces
- 16.1.19 Dosing equipment for chemical engineering
- 16.1.19.1 Continuous weighing equipment for the chemical industries
- 16.1.20 Transport equipment for chemical plants
- 16.1.21 Silos
- 16.1.22 Synthetic fibre production equipment
- 16.1.22.1 Synthetic fibre winders
- 16.1.22.2 Synthetic fibre spinning nozzles

- 16.1.23 Biochemical and biotechnological equipment
- 16.1.23.1 Fermentors
- 16.1.24 Process gas distribution
- 16.1.25 Process burners
- 16.1.26 Exhausting and dedusting equipment for the chemical industry
- 16.1.99 Equipment for the chemical industry - other
- 16.2 Machines and accessories for the chemical industry**
- 16.2.1 Components and accessories for the chemical industry
- 16.2.2 Equipment for the petrochemical industry
- 16.2.2.1 Oil refinery equipment
- 16.2.3 Equipment for coal and tar processing
- 16.2.4 Natural gas processing equipment
- 16.2.5 Inorganic production equipment
- 16.2.6 Organic production equipment
- 16.2.7 Macromolecular material production
- 16.2.8 Coating substance production equipment
- 16.2.9 Agrochemical production equipment
- 16.2.10 Synthetic fibre production equipment
- 16.2.11 Explosive production equipment
- 16.2.12 Equipment for pharmaceutical production
- 16.2.13 Granulate production machines
- 16.2.14 Machines for the production of soap and cleaning agents
- 16.2.15 Machines for cosmetic production
- 16.2.16 Cream, solution, suspension and emulsion processing equipment
- 16.2.17 Stearin, glycerol and candle production equipment
- 16.2.18 Equipment for the production and storing of technical gases
- 16.2.99 Machines for other chemical branches
- 16.3 Lubricants, oils**
- 16.3.1 Lubricating greases for industry
- 16.3.2 Lubricating oils for industry
- 16.3.3 Oils for industrial transmissions
- 16.3.4 Hydraulic oils
- 16.3.5 Oils for rolling
- 16.3.6 Oils, emulsions, pastes for corrosion protection
- 16.3.7 Cooling lubricants and liquids
- 16.3.8 Working emulsions and cutting oils
- 16.3.9 Additives for lubricants
- 16.3.10 Environmental lubricants
- 16.3.11 Oils for the food industry
- 16.3.99 Lubricants and oils - other
- 16.4 Mineral oil regeneration equipment**
- 16.4.1 Oil cleaning equipment, dehydrators
- 16.5 Corrosion and wear protection pastes**
- 16.6 Sprays for metal surface finishing**
- 16.7 Coating compositions**
- 16.7.1 Synthetic coating compositions
- 16.7.2 Water soluble coating compositions
- 16.7.3 Powder paints
- 16.8 Colours, pigments**
- 16.9 Enamels**
- 16.10 Cements**
- 16.11 Adhesives**
- 16.11.1 Instantaneous adhesives
- 16.11.2 Two component adhesives (2K)
- 16.12 Adhesive tapes and films**

16.13	Gases
16.13.1	Pure and rare gases and their mixtures
16.13.2	Technical gases in liquid and gaseous phase
16.14	Active carbon, charcoal, soot
16.15	Chemicals for industrial production
16.15.1	Chemicals for mechanical engineering
16.15.1.1	Solvents, thinners
16.15.1.2	Varnish / lacquer removers
16.15.1.3	Degreasing and cleaning liquids
16.15.1.4	Corrosion inhibitors
16.15.1.5	Moulding equipment
16.15.1.6	Heat-carrying media
16.15.1.7	Chemicals for chemical and heat processing of iron and steel
16.15.1.8	Treatment salts for light metals
16.15.1.9	Chemicals for electroplating
16.15.1.10	Mordants for metals
16.15.1.11	Antifoaming agents
16.15.1.12	Emulsifiers
16.15.1.13	Additive concentrates
16.15.1.14	Technical fungicides
16.15.1.99	Chemicals for mechanical engineering - other
16.15.2	Chemicals for the petrochemical industry
16.15.3	Chemicals for the rubber industry
16.15.4	Chemicals for the pharmaceutical and cosmetic industries
16.15.5	Chemicals for industrial water treatment plants
16.15.6	Chemicals for the textile industry
16.15.7	Chemicals for the electric engineering industry
16.15.8	Chemicals for the ceramic and glass industries
16.15.98	Washing and cleaning agents for industrial site cleaning
16.15.99	Chemicals for other industrial production branches
16.16	Industrial explosives
16.17	CAD, CAM, CIM for chemical plants
16.18	Consultancy for chemical production
16.19	Engineering and design services for chemical production
16.20	Service and repairs of machines for the chemical industry
16.20.1	Diagnostics of machines for the chemical industry
16.20.2	Spare parts of machines for the chemical industry
16.20.3	Turnkey general overhauls in the chemical industry
16.20.4	Reconstruction and upgrading of machines in the chemical industry
16.21	Re-worked machines for the chemical industry
16.22	Technologies for the chemical industry
16.22.1	Technology projects for the chemical industry
16.22.2	Technology transfer for the chemical industry
16.22.3	Technology supplies for the chemical industry
16.23	Execution of investment projects for the chemical industry
16.24	Manufacture of prototype and single-purpose machines for the chemical industry
16.25	Assembly works in the chemical industry
16.30	Inorganic chemical semi-products and products
16.31	Catalysts
16.31.1	Catalyst carriers
16.32	Semi-products and products of organic chemistry
16.99	Chemistry for engineering others

