



MINING, METALLURGICAL, CERAMIC AND GLASS ENGINEERING

- 1.3.3.4 *Glass cooling technology*
- 1.3.3.5 *Special equipment and materials for the glass industry*
- 1.3.3.6 *Technologies for the glass industry – other*
- 1.3.87 *CAD, CAM, CIM for the glass and ceramic production*

- 1.3.99 *Machines and equipment for the ceramic and glass industry – other*

- 1.4 *Machines and equipment for powder metallurgy technologies*

MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING

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

2.1.3 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
- 2.1.3.10 Bands, strips
- 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
- 2.1.3.14 Steel foils
- 2.1.3.99 Steel sheets – other

2.1.4 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
 - 2.1.4.5.1 Precision thin-walled steel welded tubes and pipes
 - 2.1.4.5.2 Thin-walled corrosion-proof tubes
- 2.1.4.6 Surface finished tubes
- 2.1.4.7 Tube sleeves, couplings, elbows
- 2.1.4.99 Steel tubes and pipes – other

2.1.5 Cold rolled steel

- 2.1.5.1 Cold extruded steel
- 2.1.5.2 Cold profiled steel

2.1.6 Drawn steels

- 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

- 2.1.10.1 Steel wires
 - Corrosion-proof wires

2.1.11 Rails

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
- 2.2.6.2 Hot pressed parts of sheet

- 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

2.6.2 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

2.8 Products of sintered carbides

- 2.8.1 Sinter pressed pieces

Some metal elements and components for mechanical engineering

2.9.1 Connecting materials

- 2.9.1.1 Screws

- 2.9.1.2 Nuts

- 2.9.1.2.1 Pressing and riveting nuts

- 2.9.1.3 Washers



MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING

| | | | |
|---------------|--|---------------------------------|---|
| 2.9.1.4 | Retaining rings | 2.9.11.3 | Armoured hose sets for product transport |
| 2.9.1.5 | Screws | | |
| 2.9.1.6 | Rivets | 2.9.12 | Chains |
| 2.9.1.7 | Bolts | 2.9.13 | Disk and other wheels |
| 2.9.1.8 | Clips | 2.9.14 | Piston rings |
| 2.9.1.99 | Connecting materials – other | 2.9.15 | Distance rings |
| 2.9.2 | Forgings | 2.9.16 | Pins |
| 2.9.3 | Clamps / grips | 2.9.17 | Draw bars |
| | | 2.9.18 | Connecting rods |
| | | 2.9.19 | Crankshafts |
| 2.9.4 | Springs | | |
| 2.9.4.1 | Coiled springs | 2.9.20 | Absorbers |
| 2.9.4.2 | Telescopic springs | 2.9.20.1 | Hydraulic absorbers |
| 2.9.4.3 | Gas cylinders | | |
| 2.9.4.4 | Polyurethane springs | 2.9.99 | Metal elements and components of general use – other |
| 2.9.5 | Expanded metal | | |
| 2.9.6 | Gas struts | Seals | |
| | | 2.13.1 | Metal seals |
| 2.9.7 | Wire products | 2.13.2 | Plastic seals |
| 2.9.7.1 | Wire nettings | 2.13.2.1 | Polymer-type sealing systems |
| 2.9.7.2 | Steel ropes | | |
| | | 2.13.3 | Rubber seals |
| 2.9.7.3 | Wire nets | 2.13.4 | Cork seals |
| 2.9.7.3.1 | Welded mesh / nets | 2.13.5 | Asbestos seals |
| | | 2.13.6 | Asbestos-free seals |
| 2.9.7.4 | Wire fabrics | | |
| 2.9.7.5 | Bent wire components | 2.13.7 | Graphite seals |
| 2.9.7.6 | Brushes with steel wires | 2.13.7.1 | Graphite films and boards for sealing technology |
| 2.9.7.99 | Wire products – other | | |
| 2.9.8 | Steel structures | 2.13.8 | Shaped seals |
| 2.9.8.1 | Components and structures (sub-supplies) | 2.13.9 | Self-adhesive seals |
| 2.9.8.2 | Heavy structures (sub-supplies) | 2.13.10 | Shaft seal rings |
| | | 2.13.11 | Flange seals |
| 2.9.8.3 | Welded structures | 2.13.12 | Flat seals with metal reinforcements |
| 2.9.8.3.1 | Welded pieces | 2.13.13 | Bearing seals |
| | | | |
| 2.9.8.4 | Poles | 2.13.14 | Rotary seals |
| 2.9.8.4.1 | Lighting towers | 2.13.14.1 | Seals for rotary shafts |
| | | | |
| 2.9.8.5 | Steel structures for waterworks (weirs, lock chambers) | 2.13.15 | O-rings |
| 2.9.8.6 | Railway, road and pipeline steel bridges | 2.13.16 | Seal strips |
| 2.9.8.7 | Steel containers, silos | 2.13.17 | Sealing cords |
| 2.9.8.8 | Steel gates, doors, barriers | 2.13.18 | Sealing sleeves |
| 2.9.8.9 | Steel pallets | 2.13.19 | Universal sealing systems |
| 2.9.8.10 | Hot galvanized steel structures | 2.13.99 | Seals – other |
| 2.9.8.11 | Assembly of steel structures | | |
| 2.9.8.99 | Steel structures – other | Glass and glass products | |
| 2.9.9 | Tube structures | 2.14.1 | Technical glass |
| 2.9.9.1 | Metal pipelines and tubes | 2.14.2 | Optical glass, prisms, lenses |
| 2.9.9.2 | Fittings | 2.14.3 | Illumination glass |
| 2.9.9.2.1 | Fittings for joining by pressing in | 2.14.4 | Glass tubes |
| | | 2.14.5 | Glass components for industry |
| | | | |
| 2.9.9.3 | Flanges for tube structures | 2.14.6 | Glass fibres |
| 2.9.9.4 | Coils, corrugated pipes | 2.14.6.1 | Glass fibre products |
| 2.9.9.99 | Tube products – other | | |
| | | 2.14.99 | Glass products – other |
| 2.9.10 | Apparatus, vessels, tanks | 2.15 | Porcelain and technical ceramics |
| 2.9.10.1 | Steel bottles | 2.15.1 | Engineering ceramics |
| | | 2.15.2 | Cutting ceramics |
| 2.9.10.2 | Pressure apparatus and vessels | 2.15.3 | Fibre-reinforced industrial ceramics |
| 2.9.10.2.1 | Pressure apparatuses and vessels | 2.15.4 | Ceramic fibres |
| 2.9.10.2.2 | Valves for pressure vessel safety | 2.15.5 | Ceramics for electronic components |
| | | 2.15.6 | Ceramic components |
| 2.9.10.3 | Non-pressure apparatuses and vessels | 2.15.7 | Porcelain components |
| 2.9.10.4 | Storage tanks | 2.15.99 | Technical ceramics – other |
| 2.9.11 | Metal hoses | 2.16 | Carbon components |
| 2.9.11.1 | Connecting and fixing elements of metal hoses | | |
| 2.9.11.2 | Flexible hoses of high-grade steel | | |

MATERIALS AND COMPONENTS FOR MECHANICAL ENGINEERING

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|--|---|---------------------------------|---|
| 2.18 | Technical fabrics | 2.41.4.5 | High-speed gearboxes |
| 2.18.1 | Fabric dilatation compensators | 2.41.4.6 | Gearboxes with stepless gear change |
| 2.19 | Ebonite products and semi-products | 2.41.4.7 | High performance gearboxes |
| 2.20 | Paper products for industrial use | 2.41.4.8 | Gearboxes for lifting equipment |
| | | 2.41.4.99 | Mechanical gearboxes – other |
| 2.21 | Crystal-based products | 2.41.5 | Combined mechanical gearboxes |
| 2.21.1 | Sapphire products and semi-products | 2.41.6 | Hydraulic gearboxes |
| 2.22 | Permanent magnets | 2.41.7 | Variable speed gearboxes |
| 2.23 | Marking devices for lettering and marking | 2.41.8 | Automatic gearboxes |
| 2.23.1 | Self-adhesive materials | 2.41.9 | Turbogears |
| 2.23.2 | Marking of industrial components by imprinting | 2.41.10 | Cam transmission mechanisms |
| | | 2.41.11 | Special gearboxes |
| | | 2.41.99 | Gears – other |
| 2.24 | Face labels | Clutches | |
| 2.24.1 | Aluminium, anodized and photolayer face labels | 2.42.1 | Components for clutches |
| 2.24.2 | Enamelled sheet metal plates and labels | 2.42.2 | Rigid clutches |
| 2.25 | Covers, closures | 2.42.3 | Flexible clutches |
| 2.25.1 | Folded covering bellows | 2.42.4 | Friction clutches |
| 2.25.2 | Telescopic guards | 2.42.5 | Centrifugal clutches |
| 2.25.3 | Roller guards | 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 |
| 2.27 | Work protection aids for industrial use | 2.42.9 | Idling couplings |
| 2.28 | Textile cleaning agents | 2.42.10 | Claw couplings |
| 2.29 | Workshop equipment, industrial furniture | 2.42.11 | Hydraulic clutches and accessories |
| 2.29.1 | Vaults | 2.42.12 | Electromagnetic clutches |
| 2.29.2 | Workbenches | 2.42.13 | Shaft couplings |
| 2.29.3 | Metal kit boxes | 2.42.14 | Turboclutches |
| 2.29.4 | Mats for industrial operation | 2.42.15 | Pneumatic clutches |
| 2.29.5 | Ergonomic work chairs | 2.42.99 | Clutches – other |
| 2.30 | Manufacture of prototypes, model design (Rapid Prototyping) | Brakes and brake systems | |
| 2.30.1 | Prototype production by means of stereolithography | 2.43.1 | Brake accessories |
| 2.30.2 | Prototype production by means of casting in silicon moulds | 2.43.2 | Disk brakes |
| 2.30.3 | 3D printers for prototyping | 2.43.3 | Multi-plate brakes |
| | | 2.43.4 | Drum brakes |
| | | 2.43.5 | Spring brakes |
| | | 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 |
| Sliding and antifriction bearings and their accessories | | 2.44 | Final drives and accessories |
| 2.40.1 | Components and accessories of antifriction bearings | Lubrication technology | |
| 2.40.1.1 | Bearing bodies | 2.45.1 | Lubrication devices |
| 2.40.2 | Sintered slide bearings | 2.45.2 | Components for lubrication devices |
| 2.40.3 | Ball bearings | 2.45.3 | Central lubrication technology |
| 2.40.4 | Roller bearings | 2.45.4 | Filters for lubrication technology |
| 2.40.5 | Needle bearings | 2.45.99 | Lubrication technology – other |
| 2.40.6 | Joint bearings | 2.87 | CAD, CAM, CIM for bearings and gears |
| 2.40.7 | Tapered roller bearings | 2.88 | Consultancy for bearings and gears |
| 2.40.8 | Antifriction spherical-roller bearings | 2.89 | Engineering and design services in the field of production of bearings and gears |
| 2.40.9 | Sliding bearings | 2.90 | Service and repairs of bearings and gears |
| 2.40.10 | Self-lubricating bearings | 2.90.1 | Diagnostics of bearings and gears |
| 2.40.11 | Special bearings | 2.90.2 | Spare parts for bearings and gears |
| 2.40.12 | Bearing lubrication devices | 2.90.3 | Reconstruction and refurbishment of bearings, gears and couplings |
| 2.40.99 | Bearings – other | 2.91 | Assembly of machines and equipment |
| Gears | | 2.92 | Engineering of the assembly, servicing and repairs of technological equipment |
| 2.41.1 | Components for gears | 2.99 | Materials and components for mechanical engineering – other |
| 2.41.2 | Gear wheels for gearings | | |
| 2.41.3 | Gear rods – ridges | | |
| Mechanical gearboxes | | | |
| 2.41.4.1 | Gearboxes with spur gear wheels | | |
| 2.41.4.2 | Gearboxes with bevel gear wheels | | |
| 2.41.4.3 | Worm gearboxes | | |
| 2.41.4.4 | Epicyclic gearboxes | | |



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

3.2 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
- 3.20.2 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
- 3.20.8 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 | 3.32 | Jets, nozzles |
| 3.22.6 | Evaporating condensers | 3.32.1 | Air nozzles |
| 3.22.7 | Cooling towers | 3.32.2 | Nozzles for liquids |
| 3.22.8 | Control and regulation instruments for cooling equipment | 3.32.3 | Low pressure jets |
| 3.22.9 | Components and accessories of cooling equipment | 3.32.4 | High pressure jets |
| 3.22.99 | Cooling and freezing equipment for industry – other | | |
| 3.23 | Driers | Pumps | |
| | | 3.40.1 | Components and accessories for pumps |
| Industrial fittings | | 3.40.2 | Pumps for nuclear power engineering |
| | | 3.40.3 | Pumps for classical power engineering |
| 3.30.1 | Components and accessories for fittings | 3.40.4 | Pumps for high pressures and temperatures |
| 3.30.1.1 | Actuators for fittings and valves | 3.40.5 | <i>Pumps for chemical engineering</i> |
| 3.30.1.1.1 | Electric actuators for fittings and valves | 3.40.5.1 | Pumps for acids and lyes |
| 3.30.1.1.2 | Pneumatic actuators for fittings and valves | 3.40.5.2 | Petrochemical pumps |
| 3.30.1.1.3 | Hydraulic actuators for fittings and valves | 3.40.5.3 | Pumps for flammable and explosive materials |
| 3.30.1.1.4 | Manual actuators for fittings and valves | 3.40.5.4 | Ammonia pumps for cooling circuits |
| 3.30.1.2 | Hardware and software for the control of fittings | 3.40.6 | <i>Pumps for the food industry</i> |
| | | 3.40.6.1 | Pumps for thin flowing materials |
| 3.30.2 | Hydraulic valves | 3.40.6.2 | Pumps for sugar factories |
| 3.30.3 | Closing and check valves | | |
| 3.30.4 | Safety valves | 3.40.7 | Pumps for mines |
| 3.30.5 | Control valves | 3.40.8 | Sludge pumps |
| 3.30.6 | Pressure reducing valves | 3.40.9 | Pumps for mechanical engineering |
| 3.30.7 | Control servovalves | 3.40.10 | Pumps for water management |
| 3.30.8 | Electromagnetic valves | 3.40.11 | Drainage pumps |
| 3.30.9 | Thermostatic valves | 3.40.12 | Waste water pumps |
| 3.30.10 | Ball cocks | 3.40.13 | Waste water pumping cranes |
| 3.30.11 | Cocks – other | 3.40.14 | <i>Pumps for agriculture</i> |
| 3.30.12 | Gate valves | 3.40.15 | Irrigation technology |
| | | 3.40.16 | Potable water pumps |
| 3.30.13 | <i>Flaps</i> | 3.40.17 | <i>Industrial pumps</i> |
| 3.30.13.1 | Non-return flap valves | 3.40.17.1 | Pumps for the textile industry |
| 3.30.13.2 | Closing flaps | 3.40.17.2 | Pumps for cement production |
| 3.30.13.3 | Control flaps | 3.40.17.3 | Pumps for the paper industry |
| | | 3.40.17.4 | Oil pumps for industrial equipment |
| 3.30.14 | Fittings for the chemical industry | 3.40.18 | <i>Pumps for small-scale consumers</i> |
| 3.30.15 | Fittings for power engineering | 3.40.18.1 | Plastic pumps |
| 3.30.16 | Fittings for vacuum technology | 3.40.18.2 | Hose pumps |
| 3.30.17 | Fittings for aggressive materials | 3.40.18.3 | Manual pumps |
| 3.30.18 | Fittings for abrasive materials | 3.40.18.4 | Barrel pumps |
| 3.30.19 | Fittings for flammable and explosive materials | | |
| 3.30.20 | Fittings for thin flowing materials | 3.40.19 | <i>High-pressure pumps</i> |
| 3.30.21 | Fittings for waste and sludge water | 3.40.20 | <i>Pumps for solid materials</i> |
| 3.30.22 | Fittings for long distance water distributions | 3.40.21 | <i>Pumps for abrasive materials</i> |
| 3.30.23 | Plastic fittings | 3.40.22 | <i>Pumps for fluid gases</i> |
| 3.30.24 | Plastic coated fittings | | |
| 3.30.25 | Corrosion-proof fittings | 3.40.23 | <i>Submersible pumps</i> |
| 3.30.26 | Coaxial fittings | 3.40.23.1 | Submersible pumps for borings |
| 3.30.27 | Mixing fittings | | |
| 3.30.28 | Special fittings | 3.40.24 | Controlled volume pumps |
| 3.30.99 | Industrial fittings – other | 3.40.25 | Self-priming pumps |
| | | 3.40.26 | Heating-system pumps |
| Industrial pipelines, tanks | | 3.40.99 | Pumps – other |
| | | 3.50 | Diluting devices |
| 3.31.1 | <i>Components for pipelines</i> | 3.77 | CAD, CAM, CIM for drives, hydraulics, air-conditioning and compressor technology |
| 3.31.1.1 | Flanges | 3.78 | Consultancy on drives, hydraulics, air-conditioning and compressor technology |
| 3.31.1.2 | Shaped pieces | 3.79 | Engineering and design of drives, hydraulics, air-conditioning and compression technology |
| 3.31.1.3 | Elbows | | |
| 3.31.1.4 | T-pieces | 3.80 | Service and repairs of drives, hydraulics, compressor technology, air-conditioning and cooling devices |
| 3.31.1.5 | Blinders | 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 |
| 3.31.2 | 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 | | |



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

- 3.80.3 Reconstruction and upgrading of drives, air-conditioning and compressor equipment hydraulics
- 3.81 Re-worked drives, hydraulic systems, HVAC and cooling units, driers
- 3.82 Technology for drives, hydraulics, air-conditioning, cooling equipment and driers
- 3.83 Implementation of complete air conditioning, cooling equipment and driers plants
- 3.90 CAD, CAM, CIM for fittings, pumps, water management and irrigation technology
- 3.99 Water management equipment and irrigation technology – other

POWER ENGINEERING AND HEAVY-CURRENT ELECTRICAL ENGINEERING

Conventional and nuclear power engineering, heating plants

Primary sources for the power industry

- 6.1.1 Brown coal
- 6.1.2 Bituminous coal
- 6.1.3 Briquettes
- 6.1.4 Coke
- 6.1.5 Natural gas
- 6.1.6 Fuel oils
- 6.1.7 Fuel cells for nuclear power plants
- 6.1.99 Primary sources for the power industry – other

Industrial boilers and their accessories

- 6.2.1 Components and accessories of industrial boilers
- 6.2.2 Industrial boilers
- 6.2.3 **Industrial steam boilers**
- 6.2.4 Steam generators
- 6.2.5 Tanks and pipelines for industrial boilers
- 6.2.6 Boiler burners

Equipment for heat energy generation

- 6.3.1 Components of equipment for heat energy generation

6.3.2 *Furnaces*

- 6.3.2.1 Grate furnaces
- 6.3.2.2 Dry pulverized coal furnaces
- 6.3.2.3 Fluidizing furnaces

6.3.3 **Equipment for chemical water treatment in the power industry**

6.3.4 **Equipment for thermal water treatment in the power industry**

6.3.5 **Feed water preheaters**

6.3.6 **Gas preheaters**

6.3.7 **Boiler plants**

6.3.8 **Heating plants**

6.3.9 **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
- 6.4.2 Steam turbines
- 6.4.3 Expansion turbines
- 6.4.4 Combustion turbines
- 6.4.5 Gas turbines
- 6.4.99 Turbines – other

6.5. *Nuclear technology*

- 6.5.1 Components of nuclear equipment
- 6.5.99 Nuclear technology – other

Complete power plants

- 6.6.1 Steam power plants
- 6.6.2 Combined systems: power and district heating plant

6.6.3 *Thermal power plants*

- 6.6.3.1 Thermal power plants firing solid fuels
- 6.6.3.2 Thermal power plants firing liquid fuels
- 6.6.3.3 Thermal power plants firing gas
- 6.6.3.4 Combined cycle power plants
- 6.6.3.5 Thermal power plants – incineration plants
- 6.6.3.6 Nuclear power plants

Combustion engines

- 6.7.1 Elements of combustion engines
- 6.7.2 Oil engines, Diesel engines

- 6.7.3 Petrol engines
- 6.7.4 Double-fuel motors
- 6.7.5 Gas engines
- 6.7.99 Combustion engines – other

6.8 **Electric power sets (motor-generator back-up sources)**

6.9 *Equipment for utilization of thermal power from thermal engines and turbines*

- 6.9.1 Cogeneration units

6.10 **Information and control technologies for the power industry**

6.11 **Equipment for sulphur and NOx reduction in flue gases**

6.12 **Auxiliary power plant equipment**

6.13 **Water treatment plants in power stations**

6.14 **Steam turbine condensers**

6.15 **Steam condensate separators**

6.16 **Equipment for electrical power distribution**

6.17 *Gas industry equipment*

6.17.1 **Gas regulating, measuring and safety fittings**

- 6.17.2 Compressors and turbo-compressors designed for natural gas treatment and gas distribution systems

6.17.3 **Gas regulation station**

6.18 **Equipment for thermal power distribution**

6.19 **Heat insulating materials for power equipment**

6.20 *Heating equipment*

- 6.20.1 Components for heating equipment
- 6.20.2 Heating components
- 6.20.3 Gas radiant heating for industrial applications

6.21 **Recuperation units, recuperators**

6.22 **Equipment, systems and aids for provision of safety in nuclear plants**

6.23 **CAD, CAM, CIM in the power industry**

6.24 **Consultancy in the power industry**

6.25 **Engineering and design services in the field of power industry equipment**

6.26 *Service and repairs of power industry equipment*

6.26.1 **Diagnostics of power industry equipment**

- 6.26.2 Spare parts for power industry equipment and machines
- 6.26.3 Turn-key general repairs of power industry equipment

6.27 **Refurbishment and modernization of power industry equipment**

6.28 **Civil and erection works for power industry**

6.29 **Oil tank cleaning**

6.30 *Technology for classic and nuclear power industry and heating plants*

- 6.30.1 Technological projects for classic and nuclear power industry and heating plants
- 6.30.2 Transfer of technologies for classic and nuclear power industry and heating plants
- 6.30.3 Technology supplies for classic and nuclear power industry and heating plants

6.31 **Execution of investment projects for classic and nuclear power industry and district heating plants**

6.32 **Manufacturers of electric power, gas and heat**

6.33 **Distributors of electric power, gas and heat**

6.34 **Classical and nuclear power industry and heating plants – other**

Alternative power sources

- 6.35.1 **Machines and equipment for production of pressed biofuels (pellets, briquets)**
- 6.35.2 **Biomass fired boilers**



POWER ENGINEERING AND HEAVY-CURRENT ELECTRICAL ENGINEERING

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|---------|--|
| 6.35.3 | Biomass fired boiler plants, heating plants |
| 6.35.4 | Solar heating systems |
| 6.35.5 | Photovoltaic electric power sources |
| 6.35.6 | Hydro-electric power plants |
| 6.35.7 | Wind power plants and their accessories |
| 6.35.8 | Heat pumps and their accessories |
| 6.35.9 | Power industry equipment for biogas utilization |
| 6.35.10 | Equipment and accessories for geothermal energy utilization |
| 6.35.11 | Waste heat utilization, recovery |
| 6.35.12 | Biofuels |
| 6.35.13 | Hybrid drives |
| 6.35.14 | Fuel cells using hydrogen, natural gas, alcohol for power generation |
| 6.35.15 | Electrical power distribution grids of Smart Grids type |
| 6.35.16 | Services, consultancy, financing in alternative power sources field |
| 6.35.17 | Institutions focused on renewable power sources field |
| 6.35.99 | Alternative power sources – other |

Trading in energies, in CO₂ emissions

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|--------|--------------------------------------|
| 6.36.1 | Trading in energies |
| 6.36.2 | Trading in CO ₂ emissions |

Heavy-current electrical engineering

Cables and conductors

| | |
|---------|---|
| 6.40.1 | High and very high voltage cables |
| 6.40.2 | Power cables |
| 6.40.3 | Flame retarding cables |
| 6.40.4 | Earth cables |
| 6.40.5 | Self-supporting cables |
| 6.40.6 | Flexible cables for machine control |
| 6.40.7 | Connecting cables for instruments |
| 6.40.8 | Cable couplers, eyes |
| 6.40.9 | Cable connectors |
| 6.40.10 | Cable terminals |
| 6.40.11 | Heavy current installation lines |
| 6.40.12 | Leads for electrotechnical windings |
| 6.40.13 | Insulated conductors |
| 6.40.14 | Earthing materials |
| 6.40.15 | Cable lines (stands, supports, lines, trays, troughs) |
| 6.40.16 | Fastening materials for cables and conductors |
| 6.40.17 | Cable coils |
| 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 |
| 6.40.98 | 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

6.43 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 | <i>Fluorescent tubes</i> |
| 6.44.3 | Discharge lamps |
| 6.44.99 | <i>Electric light sources – other</i> |

Lighting fittings

| | |
|---------|--|
| 6.45.1 | Outdoor lighting fittings |
| 6.45.2 | Lighting fittings for dangerous and demanding environments |
| 6.45.3 | Searchlights and headlights |
| 6.45.99 | Lighting fittings – other |

Transducers, rectifiers and other electrotechnical elements

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|--------|--|
| 6.47.1 | <i>Heavy-current power electronics (diodes, transistors, thyristors)</i> |
|--------|--|

Accessories of transducers, rectifiers, switches

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|----------|---|
| 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 |

6.48 Uninterruptible power supplies

Electric current switchboards

| | |
|--------|-------------------------------|
| 6.49.1 | Parts of switchboards |
| 6.49.2 | LV 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

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|--------|------------------------------------|
| 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 |

6.52 Power switching devices

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

6.54 Electric HV and VHV instruments

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|--------|--------------------------------|
| 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 |

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|------------------------------------|--|-------------|---|
| 6.54.6 | Protective and safety aids for HV technology | 6.60.8 | Industrial sockets and plugs |
| 6.54.7 | Static electricity protection equipment | 6.60.9 | Connecting wiring material |
| 6.54.8 | Earthing systems | | |
| Electric motors | | 6.61 | Measuring transducers for heavy electrical engineering |
| 6.55.1 | Components for electric motors | 6.62 | Interference suppression filters |
| 6.55.2 | Synchronous electric motors | 6.63 | Electromagnets for mechanical engineering |
| 6.55.3 | Asynchronous electric motors | 6.64 | Electric instruments for explosive environments |
| 6.55.3.1 | Asynchronous electric motors up to 1 kW | 6.65 | Electrotechnical tools for heavy electrical engineering |
| 6.55.3.2 | Asynchronous electric motors in the range of 1 kW to 100 kW | 6.66 | Protective aids for work on electric devices |
| 6.55.3.3 | Asynchronous electric motors of more than 100 kW | 6.67 | Lightning rods, lightning stroke protection systems |
| 6.55.3.4 | Low-voltage asynchronous motors | 6.68 | Control systems for power plants, substations and transformer stations |
| 6.55.3.5 | High-voltage asynchronous motors | 6.77 | CAD, CAM, CIM in heavy-current electrical engineering |
| 6.55.3.6 | Asynchronous brakes | 6.78 | Consultancy in heavy-current electrical engineering |
| | | 6.79 | Engineering and design services in heavy-current electrical engineering |
| 6.55.3.7 | Starters for asynchronous motors | 6.80 | Service and repairs of machines and equipment in heavy-current electrical engineering |
| 6.55.3.7.1 | Soft starters | | |
| 6.55.4 | Commutator electric motors | | |
| 6.55.5 | DC electric motors | | |
| 6.55.5.1 | DC electric motors up to 1 kW | | |
| 6.55.5.2 | DC electric motors of more than 1 kW | | |
| 6.55.5.3 | Brushless DC el. motors | | |
| 6.55.6 | Stepping electric motors, micromotors | | |
| 6.55.7 | Piezomotors | | |
| 6.55.8 | Small gear motors | | |
| 6.55.9 | Linear electric motors | | |
| 6.55.10 | Servomotors DC | | |
| 6.55.11 | Servomotors AC | | |
| 6.55.12 | Electric motors for special purposes | | |
| 6.55.12.1 | Electric motors for explosive environments | | |
| 6.55.12.2 | Electric motors designed for operation in extreme temperatures | | |
| 6.55.13 | Custom-made electric motors | | |
| 6.55.14 | Repairs of electric motors | | |
| 6.55.99 | Electric motors – other | | |
| 6.56 | Rotary power supplies | | |
| 6.56.1 | Alternators | | |
| 6.56.2 | Synchronous generators | | |
| 6.56.3 | Power factor compensators | | |
| 6.56.4 | Dynamos | | |
| 6.56.99 | Rotary power supplies – other | | |
| 6.57 | Dynamometers | | |
| Electric industrial heating | | | |
| 6.58.1 | Components for thermal electric equipment | | |
| 6.58.2 | Electric arc and resistance furnaces | | |
| 6.58.3 | Induction furnaces | | |
| 6.58.4 | Dielectric equipment | | |
| 6.58.5 | HF heating | | |
| 6.58.6 | Microwave heating | | |
| 6.58.7 | Infra-red heating | | |
| 6.58.8 | Special electric heating | | |
| 6.58.9 | Heating cables | | |
| 6.58.10 | Induction heating equipment | | |
| 6.59 | Electric rotary drives | | |
| Wiring material | | | |
| 6.60.1 | House switches and sockets | | |
| 6.60.2 | Mounting boxes | | |
| 6.60.3 | Terminal boards | | |
| 6.60.4 | Electronic controllers and devices | | |
| 6.60.5 | Support and fixing materials | | |
| 6.60.6 | 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*
- 7.1.2 *Winding machines*
- 7.1.3 *Wire cutting and stripping machines*
- 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*
- 7.1.17.3 *Soldering devices for classic, mixed and surface mounting (SMT)*
- 7.1.18 *Assembly devices for PCB technology*
- 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*
- 7.1.87 *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*
- 7.1.99 *Machines and equipment for the electrotechnical industry – other*

Electronic components and elements

- 7.2.1 *Conductors*
- 7.2.1.1 *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*
- 7.2.2 *Passive electrical components*
- 7.2.2.1 *Resistors for electronics*
- 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*
- 7.2.4 *Semiconductor elements*
- 7.2.4.1 *Diodes*
- 7.2.4.99 *Semiconductor elements – other*
- 7.2.5 *Analogue integrated circuits*
- 7.2.6 *Digital integrated circuits*
- 7.2.7 *IGBT modules*
- 7.2.8 *Hybrid circuits*
- 7.2.9 *Electronic components other than semiconductor ones – other*
- 7.2.10 *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*
- 7.2.10.10 *Optical signal processing elements*
- 7.2.10.11 *Optoelectronic equipment*
- 7.2.10.12 *CCD elements*
- 7.2.10.13 *Laser equipment*
- 7.2.10.14 *SMD optic and optoelectronic elements*
- 7.2.10.99 *Optic and optoelectronic elements – other*
- 7.2.11 *Converters*
- 7.2.12 *Amplifiers*
- 7.2.13 *DC/DC converters*
- 7.2.14 *Vacuum elements (electron tubes, cathode ray tubes, other)*
- 7.2.15 *Mechanical components for electronics*
- 7.2.15.1 *Flat conductor connectors*
- 7.2.15.2 *Interface connectors*
- 7.2.15.3 *Internal interconnecting components (printed circuits)*
- 7.2.15.4 *Connectors for PCB*
- 7.2.15.5 *Connectors for optical waveguides*
- 7.2.15.6 *Mechanical elements of electronic structures (cabinets, coolers)*
- 7.2.15.7 *Cables, conductors for electronics*
- 7.2.15.8 *Electromechanical elements (motors, switches)*
- 7.2.15.9 *Rotary switches*
- 7.2.15.10 *Push-buttons*
- 7.2.15.11 *Microswitches*
- 7.2.15.12 *Keys*
- 7.2.15.13 *Film keyboards*
- 7.2.15.14 *Safety and security elements*
- 7.2.15.15 *Elements for power supplies (ferrite cores, transformers)*
- 7.2.15.16 *Transmitters, communication transformers*
- 7.2.15.17 *Toroidal transformers*
- 7.2.15.18 *Instrument transformers*
- 7.2.15.19 *Relays for electronics (SMD relays, relay sockets)*
- 7.2.15.20 *Magnets for electronics*
- 7.2.15.99 *Mechanical components for electronics and parts – others*

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|---|---|-----------------|---|
| 7.2.16 | <i>Piezoelectric sensors, controllers</i> | 7.5.1.22 | <i>Industrial information and control networks and their components</i> |
| 7.2.17 | <i>Power sources for electronics</i> | 7.5.1.22.1 | LAN and WAN networks |
| 7.2.87 | <i>CAD, CAM, CIM for electronic components and elements</i> | 7.5.1.22.2 | Wireless LAN networks |
| 7.2.88 | <i>Consultancy for electronic components and elements</i> | 7.5.1.23 | <i>Operation systems for technology process control</i> |
| 7.2.89 | <i>Engineering and design services in the field of electronic components and elements</i> | 7.5.1.24 | <i>Developing systems and programs for process simulation</i> |
| 7.2.90 | <i>Production of made-to-order printed circuit boards</i> | 7.5.1.25 | <i>Programs for technological process control</i> |
| 7.2.99 | <i>Electronic components and elements – other</i> | 7.5.1.26 | <i>Programs for process visualization</i> |
| Studio and broadcasting technology | | 7.5.1.27 | <i>Remote computer management systems</i> |
| 7.3.1 | Components and accessories of transmitters | 7.5.1.28 | <i>Data Warehousing / Data Mining – for industrial data</i> |
| 7.3.1.1 | Generator and broadcasting electronic elements | 7.5.1.99 | Components for automation and control technology equipment – other |
| 7.3.1.2 | Antenna arrays | 7.5.2 | <i>Transducers of electric and non-electric variables</i> |
| 7.3.1.3 | Cables and lines for broadcasting technology | 7.5.2.1 | Intelligent sensor systems |
| 7.3.2 | Broadcasting, telegraph and communication transmitters | 7.5.2.2 | Incremental and absolute encoders |
| 7.3.3 | Television transmitters | 7.5.3 | <i>Counters for regulation</i> |
| 7.3.4 | Radio networks | 7.5.4 | <i>Remote checking and control</i> |
| 7.3.5 | Mobile radio-telecommunication equipment | 7.5.4.1 | Remote electric measurement / control |
| 7.3.6 | Relay links | 7.5.4.2 | Automatic central checking / control |
| 7.3.7 | Radar equipment | 7.5.4.3 | Telephone controlled devices |
| 7.3.8 | Broadcasting studio technology | 7.5.4.4 | Radio systems for remote control of industrial technology |
| 7.3.9 | Call and telephone dispatcher systems | 7.5.4.5 | <i>GSM / GPRS based data networks</i> |
| 7.3.10 | <i>Television studio technology</i> | 7.5.4.5.1 | Communication modules for GSM / GPRS |
| 7.3.11 | <i>Cable television (cables, other components)</i> | 7.5.5 | <i>Electric and electromagnetic controllers</i> |
| 7.3.12 | <i>Closed-circuit television</i> | 7.5.5.1 | Magnetic controllers |
| 7.3.13 | <i>Satellite television technology</i> | 7.5.5.2 | Hydraulic controllers |
| 7.3.14 | <i>Direction finders</i> | 7.5.5.3 | Pneumatic controllers |
| 7.3.15 | <i>GPS</i> | 7.5.5.4 | Electronic controllers |
| 7.3.16 | <i>Remote control wireless systems</i> | 7.5.5.5 | PID controllers |
| 7.3.17 | <i>Measuring instruments for broadcasting technology</i> | 7.5.5.6 | Control systems with fuzzy logic |
| 7.3.99 | <i>Broadcasting equipment – other</i> | 7.5.5.7 | Programmable logic controllers (PLC) |
| Instruments for automatic regulation and control | | 7.5.5.8 | Interconnection of programmable logic controller with master computer |
| 7.5.1 | Components for equipment for automation and control | 7.5.5.9 | Control systems PCC (Programmable Computer Controller) |
| 7.5.1.1 | Process microprocessors, microcontrollers | 7.5.5.10 | Optimizing systems |
| 7.5.1.2 | Processor and memory modules | 7.5.6 | <i>Controllers and power elements</i> |
| 7.5.1.3 | Signal processors | 7.5.6.1 | Servomotors (pneumatic, integrated) |
| 7.5.1.4 | RAM/ROM disc memories | 7.5.6.2 | Power units (actuators) |
| 7.5.1.5 | Communication modules, I/O modules – cards | 7.5.6.3 | Selsyns |
| 7.5.1.6 | Industrial bus-bar systems | 7.5.6.4 | Power amplifiers |
| 7.5.1.7 | Chassis, control technology cabinets | 7.5.6.5 | Relays |
| 7.5.1.8 | Industrial control computers | 7.5.6.6 | Switches for control |
| 7.5.1.8.1 | Minipanel PC | 7.5.7 | <i>Control rooms</i> |
| 7.5.1.8.2 | Single-board control computers | 7.5.7.1 | Operation consoles for technology control |
| 7.5.1.8.3 | Network servers for industrial sites | 7.5.8 | <i>Control and measuring systems</i> |
| 7.5.1.8.4 | Industrial data collection PC | 7.5.8.1 | Control and measuring systems for company power engineering |
| 7.5.1.8.5 | Notebooks suitable for industrial sites | 7.5.9 | <i>Systems for automatic production process control</i> |
| 7.5.1.9 | Monitors | 7.5.9.1 | Systems for automatic thermal process and air-conditioning control |
| 7.5.1.10 | Panel and large-size alphanumeric displays | 7.5.9.2 | Systems for automatic technological process control in mechanical engineering |
| 7.5.1.11 | Visualization panels for machine monitoring | 7.5.9.3 | Systems for automatic technological process control in chemical industry |
| 7.5.1.12 | Joysticks and trackballs for industrial sites | 7.5.9.4 | Systems for automatic technological process control in power engineering |
| 7.5.1.13 | Industrial terminals | 7.5.9.99 | <i>Systems for automatic technological process control in other industrial branches</i> |
| 7.5.1.14 | Industrial keyboards | 7.5.10 | Automatic control systems for railway transport |
| 7.5.1.15 | Projection and presentation equipment for control rooms | 7.5.11 | Automatic control systems for air service |
| 7.5.1.16 | Computer printers for industrial sites | | |
| 7.5.1.17 | Power supplies | | |
| 7.5.1.18 | Output and interconnecting cables, connectors | | |
| 7.5.1.19 | Measuring peripherals for PC | | |
| 7.5.1.20 | Computer cards for industrial control computers | | |
| 7.5.1.21 | UPS for control, automation and regulation technology | | |



ELECTRONICS, AUTOMATION AND MEASURING TECHNOLOGY

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| 7.5.12 | Measuring and automation equipment for support and distribution | 7.12.8 | Production management |
| 7.5.13 | GIS (Graphic Information Systems) for utility lines administration | 7.12.8.1 | Operative workshop planning and management |
| | | 7.12.8.2 | APS (Advanced Planning System) systems for advanced production planning and scheduling |
| 7.5.14 | Data collecting and processing equipment for control computers | 7.12.9 | Quality monitoring, CAQ (Computer Aided Quality) systems |
| 7.5.14.1 | Bar code readers | 7.12.10 | Norms setting |
| 7.5.14.2 | RFID technologies | 7.12.11 | Technology |
| | | 7.12.12 | Service and maintenance |
| | | 7.12.13 | Statistics and analysis for top management |
| 7.5.15 | Image processing systems | 7.12.14 | Information tracing and utilization for management |
| 7.5.15.1 | Robot vision for 2D images | 7.12.15 | Decision-support systems |
| 7.5.15.2 | Robot vision for 3D images | 7.12.16 | Business Intelligence (Data Warehousing/Data Mining) |
| | | 7.12.17 | CRM (Customer Relationship Management) systems |
| 7.5.16 | <i>Data distribution technology in buildings</i> | 7.12.18 | Marketing |
| 7.5.17 | <i>Redundant control systems with high reliability</i> | 7.12.19 | Company processes modelling and optimizing (Workflow, Reengineering) |
| 7.5.18 | <i>Explosion-proof components and systems for control, automation and regulation equipment</i> | | HelpDesk tools supporting business applications |
| 7.5.99 | Instruments and equipment for automatic control – other | 7.12.20 | |
| | | 7.12.99 | General software for business management – other |
| Warning and safety equipment | | Software for offices and institutions | |
| 7.6.1 | Railway, air and road warning and safety equipment | 7.13.1 | Electronic mail |
| 7.6.2 | Mining safety equipment | 7.13.2 | Team work support software |
| 7.6.3 | Monitoring and warning systems for danger | 7.13.3 | Document processing |
| 7.6.4 | Fault reporting systems | 7.13.4 | Document archiving |
| 7.6.99 | Warning and safety equipment – other | 7.13.5 | Office automation support software |
| | | 7.13.6 | DMS systems (Document Management System) for control and management of structured and unstructured documents |
| | | 7.13.99 | Software for offices and institutions – other |
| Supervising and control equipment | | System integration, complex solution of ERP systems | |
| 7.7.1 | Access checking | 7.14.1 | Systems for complete document administration, flow management and storage (Workflow) |
| 7.7.1.1 | Light barriers and other photoelectric devices | 7.14.2 | PLM systems for complex product lifecycle management |
| 7.7.1.2 | Access systems with magnetic and chip cards | 7.14.3 | Integrated business system for companies |
| 7.7.2 | Personnel and luggage checking equipment | 7.14.4 | Comprehensive production plant management system |
| 7.7.3 | TV monitoring equipment | 7.14.5 | Comprehensive non-production plant management system |
| 7.8 | Fire, gas detecting systems | 7.14.6 | Comprehensive management system for budget and publicly funded organizations |
| 7.9 | Antifire and antiexplosion safety equipment in industrial plants | 7.14.7 | Comprehensive management system for production and business concerns |
| 7.9.1 | Fire safety systems for machine-tools and forming machines | 7.14.8 | Comprehensive management for holding companies |
| 7.9.2 | Spray booth fire safety systems | 7.14.9 | Company management network system |
| Systems for detecting robberies, danger, entry of unauthorized persons | | 7.14.10 | Modular system of business management |
| 7.10.1 | Systems with central security board | 7.14.11 | Comprehensive information system for crisis management |
| 7.10.2 | Electric and photoelectric supervision systems | 7.14.99 | System integration, complex solution of ERP – other |
| 7.10.2.1 | CCD camera systems | 7.15 | System integration in the sector of industrial information, measuring and control systems |
| 7.10.2.2 | Broken glass detectors | 7.15.1 | Made-to-order development of software and hardware in the field of automation |
| 7.10.3 | IR supervision systems | 7.16 | Training machines and equipment |
| 7.10.4 | Ultrasonic supervision systems | 7.17 | CAD, CAM, CIM in control, automation and regulation technology |
| 7.10.5 | Microwave supervision systems | 7.18 | Consultancy in control, automation and regulation technology |
| 7.10.6 | Laser and radar supervision systems | 7.19 | Engineering design services in the field of control, automation and regulation technology |
| 7.10.7 | Seismic sensor systems (geophones) | 7.20 | Service and repairs of equipment and instruments in control, automation and regulation technology |
| 7.11 | Industrial robots and their assemblies | 7.20.1 | Diagnostics of control, automation and regulation technology |
| 7.11.1 | Micro-positioning systems | 7.20.2 | Spare parts for control, automation and regulation technology |
| 7.11.2 | Robotic cells | 7.20.3 | Refurbishment and upgrading of control, automation and regulation technology |
| 7.11.3 | Turn-key integrated solutions of robotized production processes | 7.29 | Elements and systems in control, regulation and automation technology |
| General software for business management | | | |
| 7.12.1 | Tangible and intangible property records | | |
| 7.12.2 | Invoicing | | |
| 7.12.3 | Book-keeping | | |
| 7.12.4 | Human resources | | |
| 7.12.5 | Wages and salaries | | |
| 7.12.6 | Software supporting development of new industrial products | | |
| 7.12.7 | Technical preparation for production | | |

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| Scales and weighing technology | 7.34.99 | Equipment and measuring instruments for electric variables – other |
| 7.31.1 Components and parts of scales | | |
| 7.31.2 Weighbridge | | |
| 7.31.3 Belt conveyer scales | 7.35 | Universal power supplies |
| 7.31.4 Crane scales | 7.35.1 | Universal supplies of stabilized voltage |
| 7.31.5 Dosing scales | 7.35.2 | Universal supplies of stabilized current |
| 7.31.6 Sack and filling scales | | |
| 7.31.7 Electronic balances and weighing | 7.36 | High voltage power supplies |
| 7.31.8 Laboratory balances | 7.37 | Calibration standards for electrical engineering technology |
| Time measuring instruments | | Sensors for picking up mechanical variables |
| 7.32.1 Electric and electronic clocks | | |
| 7.32.2 Checking clocks | 7.38.1 | Sensors for picking up mechanical |
| 7.32.3 Timers | 7.38.1.1 | Pressure sensors |
| 7.32.4 Time control displays | 7.38.1.2 | Pressure difference sensors |
| 7.32.5 Special purpose time measuring instruments | 7.38.1.3 | Speed sensors |
| 7.32.6 Operation hour counters | 7.38.1.4 | Acceleration sensors |
| | 7.38.1.5 | Load sensors |
| | 7.38.1.6 | Position sensors |
| | 7.38.1.7 | Path sensors including gyroscopic systems |
| | 7.38.1.8 | Length, distance sensors |
| | 7.38.1.9 | Shift / feed sensors |
| | 7.38.1.10 | Thickness sensors |
| | 7.38.1.11 | Angle sensors |
| | 7.38.1.12 | Revolution sensors |
| | 7.38.1.13 | Sensors of speed, velocity, acceleration |
| | 7.38.1.14 | Fluid flow sensors |
| | 7.38.1.15 | Gas flow sensors |
| | 7.38.1.16 | Fluid level sensors |
| | 7.38.1.17 | Fluid level measured value sensors |
| | 7.38.1.18 | Surface quality evaluating sensors |
| | 7.38.1.19 | Force sensors |
| | 7.38.1.20 | Sensors of force, strain, deformation and bending |
| | 7.38.1.21 | Vibration sensors |
| | 7.38.1.22 | Torque sensors |
| | 7.38.1.99 | Sensors for picking up mechanical quantities – other |
| | 7.38.2 | Sensors for picking up electric quantities and parameters |
| | 7.38.3 | Sensors for picking up acoustic quantities and parameters |
| | 7.38.4 | Sensors for picking up optical quantities and parameters |
| | 7.38.4.1 | Optical sensors |
| | 7.38.4.2 | Optoelectronic sensors |
| | 7.38.4.3 | Sensors of light signal parameters in glass fibres |
| | 7.38.4.4 | Picture sensors |
| | 7.38.4.5 | Colour sensors |
| | 7.38.4.99 | Sensors for picking up optical quantities and parameters – other |
| | 7.38.5 | Temperature and thermal power sensors |
| | 7.38.5.1 | Contactless temperature sensors |
| | 7.38.5.2 | Thermal power sensors |
| | 7.38.6 | Sensors for picking up magnetic quantities and parameters |
| | 7.38.6.1 | Sensors for measuring of magnetic quantities |
| | 7.38.6.2 | Magnetic field detectors |
| | 7.38.6.3 | Sensors of magnetic field parameters |
| | 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 |
| | | Measuring instruments of physical quantities |
| | 7.39.1 | Measuring instruments for length, angle, thread |
| | 7.39.1.1 | Length meters |
| | 7.39.1.2 | Angle meters |
| | 7.39.1.3 | Thread gauges |
| | 7.39.1.4 | Geometric shape measuring devices |
| | 7.39.1.5 | Position meters |
| | 7.39.1.6 | Electronic levels |
| Optomechanical instruments | | |
| 7.33.1 Components for optomechanical instruments | | |
| 7.33.2 Microscopes and accessories | | |
| 7.33.3 Geodetic and cartographic instruments | | |
| 7.33.4 Photogrammetric instruments and accessories | | |
| 7.33.5 Telescopes, magnifiers | | |
| 7.33.6 Astronomic instruments | | |
| 7.33.7 Optomechanical spectral analysers | | |
| 7.33.8 Fibre optics | | |
| 7.33.9 Industrial endoscopes | | |
| 7.33.10 Profile projectors | | |
| 7.33.99 Optomechanical instruments – other | | |
| Instruments for measuring of electric variables | | |
| 7.34.1 Multimeters | | |
| 7.34.2 Ammeters | | |
| 7.34.3 Digital avometers (multimeters) | | |
| 7.34.4 Voltmeters | | |
| 7.34.5 Voltage testers | | |
| 7.34.6 Charging meters | | |
| 7.34.7 R-L-C-Z meters | | |
| 7.34.8 Conductance meters | | |
| 7.34.9 Universal analyzers of analog and digital LF systems | | |
| 7.34.9.1 Universal measuring instruments | | |
| 7.34.10 Instruments for measuring of voltage, current, resistance and output for HV | | |
| 7.34.11 Switchboard measuring instruments | | |
| 7.34.12 Oscilloscopes | | |
| 7.34.13 Electric meters | | |
| 7.34.14 Measuring bridges | | |
| 7.34.15 Measuring photoelectric instruments | | |
| 7.34.16 Measuring amplifiers | | |
| 7.34.17 Measuring transducers | | |
| 7.34.18 Harmonic distortion analyzers | | |
| 7.34.19 Spectral analyzers of electric signals | | |
| 7.34.20 Signal analyzers | | |
| 7.34.21 Electric network analyzers | | |
| 7.34.22 Local network cable analyzers | | |
| 7.34.23 Phase meters | | |
| 7.34.24 Attenuation level meters | | |
| 7.34.25 Noise meters | | |
| 7.34.26 Digital channel testers | | |
| 7.34.27 HF power meters | | |
| 7.34.28 Electronic component testers | | |
| 7.34.29 Digital integrated circuit testers | | |
| 7.34.30 Logic analyzers | | |
| 7.34.31 Data interface analyzers | | |
| 7.34.32 Computer cards for PC logic analyzer | | |
| 7.34.33 Counters | | |
| 7.34.34 Electromagnetic compatibility test units (EMC) | | |
| 7.34.35 Electronic generators | | |



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ELECTRONICS, AUTOMATION AND MEASURING TECHNOLOGY

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| 7.39.1.7 | Laser levelling instruments | 7.39.19 | <i>Detectors of underground supply lines</i> |
| 7.39.1.8 | Equipment for contactless size measurements | 7.39.20 | <i>X-ray and nuclear radiation measuring instruments</i> |
| 7.39.2 | <i>Velocity meters</i> | 7.39.21 | <i>Viscosity meters</i> |
| 7.39.3 | <i>Acceleration meters</i> | 7.39.22 | <i>Surface tension and contact angle meters</i> |
| 7.39.4 | <i>Flow meters</i> | 7.39.23 | <i>Systems and instruments for physical quantity calibration</i> |
| 7.39.4.1 | Flow meters for liquids | 7.39.24 | <i>Testing and calibration measuring instruments and standards for physical quantities</i> |
| 7.39.4.2 | Water meters for cold water | 7.39.99 | <i>Measuring instruments for other physical parameters</i> |
| 7.39.4.3 | Water meters for hot water | Measuring instruments for chemical quantities | |
| 7.39.4.4 | Gas flow meters | 7.40.1 | <i>Measuring instruments for pH, redox potential and conductance</i> |
| 7.39.4.5 | Gas meters (diaphragm, turbine) | 7.40.2 | <i>Measuring instruments and analyzers of harmful gases</i> |
| 7.39.5 | <i>Measuring instruments of phenomenon abundance</i> | 7.40.3 | <i>Oxygen meters</i> |
| 7.39.5.1 | Pulse counters with and without preselection | 7.40.4 | <i>Stationary and portable detectors of flammable gases</i> |
| 7.39.6 | <i>Speed indicators</i> | 7.40.5 | <i>Exhaust gas analyzers</i> |
| 7.39.7 | <i>Temperature meters</i> | 7.40.6 | <i>Gas analysis and monitoring instruments</i> |
| 7.39.7.1 | Digital temperature meters | 7.40.7 | <i>Measuring instruments and analyzers of toxic substances</i> |
| 7.39.7.2 | Contactless temperature meters | 7.40.8 | <i>Ion meters</i> |
| 7.39.7.3 | Pyrometers, infrapyrometers | 7.40.9 | <i>Devices for fast chemical analysis</i> |
| 7.39.7.4 | Temperature meters with thermocouples | 7.40.99 | <i>Instruments for measurements of chemical quantities – other</i> |
| 7.39.7.5 | Resistance thermometers | 7.41 | <i>Laser measuring instruments</i> |
| 7.39.7.6 | Measured temperature recorders | Measuring systems and instruments | |
| 7.39.7.7 | Pointer thermometers | 7.42.1 | <i>Measuring instruments for meteorology</i> |
| 7.39.8 | <i>Thermal power and output meters</i> | | <i>Measuring instruments for mechanical engineering</i> |
| 7.39.8.1 | Industrial temperature monitoring systems | 7.42.2.1 | <i>Gauges for mechanical engineering</i> |
| 7.39.8.2 | Cameras for infra-red thermography | 7.42.2.2 | <i>Micrometers</i> |
| 7.39.8.3 | Instruments for thermal analysis | 7.42.2.3 | <i>Inside micrometers</i> |
| 7.39.8.4 | Calorimeters | 7.42.2.4 | <i>Coordinate measuring devices and accessories</i> |
| 7.39.8.5 | Heat meters | 7.42.2.4.1 | <i>3D coordinate measuring devices and elements</i> |
| 7.39.9 | <i>Optical measuring instruments</i> | 7.42.2.5 | <i>Measuring instruments for bearings</i> |
| 7.39.9.1 | UV and IR radiation meters | 7.42.2.6 | <i>Measuring instruments for gear wheels</i> |
| 7.39.9.2 | Measuring instruments for optical waveguides | 7.42.2.7 | <i>Balancing machines</i> |
| 7.39.9.3 | Luxmeters | 7.42.2.8 | <i>Operational balancing machines</i> |
| 7.39.9.4 | Optoelectronic measuring instruments | 7.42.2.9 | <i>Diagnostics of gears and bearings</i> |
| 7.39.9.5 | Color meters | 7.42.2.10 | <i>Vibration diagnostics</i> |
| 7.39.9.6 | Gloss meters | 7.42.2.11 | <i>Monitoring of rotary machine condition</i> |
| 7.39.9.7 | Optical sources with defined characteristics | 7.42.2.12 | <i>Surface roughness and roundness measuring devices</i> |
| 7.39.10 | <i>Force measuring instruments</i> | 7.42.2.13 | <i>Instruments for destructive and non-destructive testing of weld joint</i> |
| 7.39.11 | <i>Pressure measuring instruments</i> | 7.42.3 | <i>Measuring instruments for civil engineering</i> |
| 7.39.11.1 | Gas pressure measuring instruments | 7.42.4 | <i>Measuring instruments for agriculture</i> |
| 7.39.11.1.1 | Vacuum meters | 7.42.5 | <i>Measuring devices for plastics and rubbers</i> |
| 7.39.11.2 | Liquid pressure meters | 7.42.5.1 | <i>Rheometers for measurements of rheological plastics properties</i> |
| 7.39.11.3 | Dynamic pressure meters | 7.42.5.2 | <i>Viscometers for plastics and rubbers</i> |
| 7.39.12 | <i>Mass, thickness, area meters</i> | 7.42.5.3 | <i>Plastometers</i> |
| 7.39.12.1 | Equipment for continuous mix density measurements | 7.42.6 | <i>Testing and calibration instruments and systems</i> |
| 7.39.12.2 | Filling level sensors, liquid level sensors | 7.42.7 | <i>Measuring instruments for metrology</i> |
| 7.39.13 | <i>Measuring instruments and analyzers of vibrations</i> | 7.42.8 | <i>Universal modular measuring devices with replaceable pickups</i> |
| 7.39.14 | <i>Acoustic measuring instruments</i> | 7.42.9 | <i>Automatic samplers</i> |
| 7.39.14.1 | Noise dosimeters | 7.42.99 | <i>Measuring instruments and systems for other branches</i> |
| 7.39.14.2 | Sound level meters | Laboratory and scientific instruments | |
| 7.39.14.3 | Noise monitoring instruments | 7.43.1 | <i>Laboratory glass</i> |
| 7.39.14.4 | Hydroacoustic instruments | 7.43.2 | <i>Laboratory china</i> |
| 7.39.14.5 | Ultrasonic measuring instruments | 7.43.3 | <i>Pipettes and liquid dosing devices</i> |
| 7.39.15 | <i>Filling level and surface height measuring instruments</i> | 7.43.3.1 | <i>Titration</i> |
| 7.39.16 | <i>Torque measuring instruments</i> | 7.43.4 | <i>Laboratory thermometers</i> |
| 7.39.17 | <i>Moisture measuring instruments</i> | 7.43.5 | <i>Laboratory driers</i> |
| 7.39.18 | <i>Measuring instruments of magnetic quantities</i> | 7.43.6 | <i>Laboratory cooling equipment</i> |
| 7.39.18.1 | <i>Metal detectors</i> | | |



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

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
- 8.1.9 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
- 8.1.9.3 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**
- 8.1.11 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**

8.2 Pumping stations**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**
- 8.3.8 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**
- 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
- 8.5.3 Equipment for biological purification of waste waters**
- 8.5.3.1 Aerobic equipment for the purification of sewage waters (aeration, biodisc)
- 8.5.3.2 Nitrification and denitrification equipment
- 8.5.3.3 Equipment for removing phosphorus from sewage waters
- 8.5.3.4 Biologically active filters
- 8.5.3.5 Biodegradation of crude oil substances and their derivatives in sewage waters
- 8.5.3.6 Anaerobic plants for the purification of sewage waters
- 8.5.3.99 Equipment for biological purification of sewage waters – other
- 8.5.4 Chemical and physical purification of sewage waters**
- 8.5.4.1 Flotation and flocculation units
- 8.5.4.2 Absorption and adsorption equipment for the purification of sewage waters



ECOLOGICAL TECHNOLOGY

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

ECOLOGICAL TECHNOLOGY

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| 8.25.4 | <i>Elimination of contaminants from geological environment</i> | 8.50.2.8 | Projects of ecological business management systems |
| 8.25.5 | <i>Cleaning of soils</i> | 8.50.2.9 | Consultancy in the introduction of ISO 14000 Standards |
| 8.25.6 | <i>Maintenance and recultivation of old landfills</i> | 8.50.2.10 | Advisory service for environmental legislation |
| 8.25.7 | <i>Removal of contaminants from ground and underground waters</i> | 8.50.2.11 | Legal representation |
| 8.25.8 | <i>Maintenance of chemical plants</i> | 8.50.2.12 | Patents, licences, know-how in environmental protection |
| 8.25.9 | <i>Maintenance of contaminated industrial zones</i> | 8.50.2.13 | Product certification complying with environmental protection |
| 8.25.10 | <i>Elimination of waste generated in the process of reclamation</i> | 8.50.2.14 | Assessment of environmental damages |
| 8.25.11 | <i>Elimination of organic contamination</i> | 8.50.2.15 | Financing of environmental projects |
| 8.25.12 | <i>Equipment for signalling ecological disasters</i> | | |
| 8.25.13 | <i>Equipment preventing emergency leakage of contaminants</i> | | |
| 8.25.14 | <i>Protective clothes and aids for work with hazardous and toxic substances</i> | | |
| 8.25.15 | <i>Advisory service for old environmental burden and ecological incidents</i> | | |
| 8.25.16 | <i>Decontamination projects</i> | | |
| 8.25.99 | <i>Removal of old environmental burden and consequences of ecological incidents – other</i> | | |
| Noise reduction | | | |
| 8.30.1 | <i>Soundproof insulation materials</i> | | |
| 8.30.2 | <i>Sound protection absorption walls and panels</i> | | |
| 8.30.3 | <i>Sound protection booths, sheaths, walls, barriers</i> | | |
| 8.30.4 | <i>Sound mufflers</i> | | |
| 8.30.5 | <i>Impact and vibration suppressors</i> | | |
| 8.30.6 | <i>Soundproof windows</i> | | |
| 8.30.7 | <i>Design of sound protection measures</i> | | |
| 8.30.99 | <i>Noise reduction – other</i> | | |
| 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 | <i>Cleaning machines</i> | | |
| 8.40.2 | <i>Baling presses for waste separation and handling</i> | | |
| 8.40.3 | <i>Industrial cleaning machines</i> | | |
| 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 | | |
| 8.40.4 | <i>Sweeping and floor washing machines</i> | | |
| 8.40.5 | <i>Machines for the cleaning of roads and airports</i> | | |
| 8.40.99 | <i>Machines for industrial cleaning and washing – other</i> | | |
| Literature, services, research, environmental organizations | | | |
| 8.50.1 | <i>Literature and periodicals on the environment</i> | | |
| 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 |
| | | 8.50.2.11 | 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 |
| | | 8.50.3 | 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 |
| | | 8.50.99 | Literature, services, research, environmental organisations – other |
| | | Circular economy | |
| | | 8.60.1 | Recycling of water, nutrients and energy contained in it |
| | | 8.60.2 | Recirculation of water in enterprises |
| | | 8.60.3 | Application of greywater in construction |
| | | 8.60.4 | Rain water management systems |
| | | 8.60.5 | Energy self-sufficient systems for households |
| | | 8.60.6 | New energy sources |
| | | 8.60.7 | Biogas stations of a new generation |
| | | 8.60.8 | Circular economy systems for civil engineering |
| | | 8.60.9 | New building materials |
| | | 8.60.10 | Circular economy systems for waste management |
| | | 8.60.11 | Innovative sorting systems |
| | | 8.60.12 | New waste recycling technologies |
| | | 8.60.13 | Materials from waste in general |
| | | 8.60.14 | Materials from waste flows |
| | | 8.60.15 | Products from secondary raw materials |
| | | 8.60.16 | Digital technologies in circular economy |
| | | 8.60.17 | Smart systems for effective source usage control |
| | | 8.60.18 | Refurbishment and repair systems |
| | | 8.60.19 | Circular economy services |
| | | 8.60.20 | Consultancy in the field of circular economy |
| | | 8.60.21 | Rent of systems and equipment in circular economy |
| | | 8.60.22 | Circular economy research and development |
| | | 8.60.23 | Other circular economy |



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

Science and research

- 9.1.1 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
- 9.2.7 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

- 9.2.23 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**
- 9.3.4 Technology parks, business centres, free trade areas**
- 9.3.5 Offer of development localities for industrial construction**
- 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**

TRANSPORTATION, HANDLING, INDUSTRIAL PACKING, WAREHOUSING AND LOGISTICS

| | | |
|---------------------------|---|---|
| 10.1 | Ships | Transport and lift trucks |
| 10.1.1 | Parts and accessories for ships | 10.6.1 Truck parts |
| | | 10.6.2 Hand trucks |
| 10.2 | Aircraft and aero instruments | 10.6.3 Battery trucks |
| 10.2.1 | Airplane parts and accessories | 10.6.3.1 Batteries and accessories for battery trucks |
| 10.2.2 | Aviation instruments | |
| 10.2.3 | Security aircraft technology | 10.6.4 Gas-operated trucks |
| | | 10.6.5 I.C. engine equipped trucks |
| 10.2.4 | Airport equipment | 10.6.6 Driverless trucks, induction trucks |
| Rail vehicles | | 10.6.7 Attachments for transport trucks |
| 10.3.1 | Parts and accessories for rail vehicles | 10.6.7.1 Attachments for high-lift trucks |
| 10.3.1.1 | Remote control of locomotives | 10.6.99 Transport and lift trucks – other |
| 10.3.2 | Locomotives | 10.7 Lifts |
| 10.3.3 | Carriages | Transport equipment |
| 10.3.4 | Special carriages | 10.8.1 Parts and accessories of transport equipment |
| 10.3.5 | Undercarriages | 10.8.1.1 Conveyer parts and accessories |
| 10.3.6 | Tramways | Conveyers for loose materials transport |
| 10.3.90 | Overhauls, upgrading and reconstructions of rail vehicles | 10.8.2.1 Band conveyers |
| 10.3.91 | Turnouts and superstructures | 10.8.2.2 Worm conveyers |
| Cranes | | 10.8.2.3 Vibratory conveyers |
| 10.4.1 | Parts and accessories for cranes | 10.8.2.4 Chain/Redler conveyers |
| 10.4.1.1 | Remote control of cranes | 10.8.2.5 Bucket elevators |
| 10.4.1.2 | Binding ropes, eyes and hooks | 10.8.2.99 Conveyers for loose materials transport – other |
| 10.4.1.3 | Crane tracks | 10.8.3 Conveyers for lump materials transport |
| 10.4.1.4 | Suspension equipment | 10.8.3.1 Roller conveyers |
| 10.4.2 | Bridge cranes | 10.8.3.2 Wheel conveyers |
| 10.4.3 | Crane wagons | 10.8.3.3 Ball conveyers |
| 10.4.4 | Tower cranes | 10.8.3.4 Overhead conveyers incl. overhead grooves |
| 10.4.5 | Full-portal gantry cranes | 10.8.3.99 Conveyers for lump materials transport – other |
| 10.4.6 | Pillar and mast cranes | 10.8.4 Pneumatic transport |
| 10.4.7 | Truck cranes | 10.8.99 Transport equipment – other |
| 10.4.8 | Jib cranes | 10.9 Rope conveyers |
| 10.4.9 | Bracket cranes | Handling equipment |
| 10.4.10 | Erecting cranes | 10.10.1 Equipment for loading and unloading lump materials |
| 10.4.11 | Grab cranes | 10.10.1.1 Arm loaders |
| 10.4.12 | Telescopic cranes | 10.10.1.2 Hydraulic arms |
| 10.4.13 | Cable cranes | 10.10.2 Equipment for loading and unloading loose materials |
| 10.4.14 | Rotary cranes | 10.10.3 Transport means |
| 10.4.15 | Metallurgical industrial cranes | 10.10.3.1 Pallets |
| 10.4.16 | Cranes for works on electrical lines | 10.10.3.2 Pallet superstructures |
| 10.4.17 | Cranes for harbours and shipyards | 10.10.3.3 Storing cases |
| 10.4.90 | Overhauls, upgrading and reconstructions of cranes | 10.10.3.4 Crates |
| 10.4.99 | Cranes – other | 10.10.3.5 Rolltainers |
| Lifting mechanisms | | 10.10.3.6 Containers incl. ISO |
| 10.5.1 | Pulley blocks | 10.10.3.7 Containers for the transport of liquids |
| 10.5.1.1 | Rope pulley blocks | 10.10.3.8 Omnitainers |
| 10.5.1.2 | Chain pulley blocks | 10.10.3.9 Cistern semi-trailers |
| 10.5.2 | Jacks | 10.10.3.99 Transport means – other |
| 10.5.3 | Pneumatic lifting mechanisms | 10.10.4 Storing and disassembling machines |
| 10.5.4 | Hydraulic lifting mechanisms | 10.10.4.1 Palletizing and depalletizing machines |
| 10.5.4.1 | Hydraulic jacks | 10.10.4.2 Stacking and destacking equipment |
| 10.5.5 | Lifting platforms and ramps | 10.10.4.9 Storing and disassembling machines – other |
| 10.5.6 | Lifting electromagnets | 10.10.5 Machines for adjusting handling equipment |
| 10.5.7 | Permanent lifting magnets | 10.10.5.1 Bundling equipment |
| 10.5.8 | Hand-operated lifting equipment | |
| 10.5.9 | Load grasping equipment | |
| 10.5.10 | Winches | |
| 10.5.11 | Vacuum gripping and hoisting devices | |
| 10.5.99 | Lifting mechanisms – other | |



TRANSPORTATION, HANDLING, INDUSTRIAL PACKING, WAREHOUSING AND LOGISTICS

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| 10.10.5.2 | Strapping equipment | 10.15.7 | Parking systems |
| 10.10.5.2.1 | Strappings | 10.15.7.1 | Automated parking houses |
| 10.10.5.3 | Binding equipment | 10.15.8 | Warehouse fire and explosion security |
| 10.10.5.3.1 | Chain, textile and rope binding means | 10.15.99 | Storing technology and operation equipment – other |
| 10.10.5.4 | Baling presses | 10.16 | Industrial gates, bolts, automatic and turnstile doors |
| 10.10.5.5 | Handling equipment contour checking devices | 10.16.1 | Gate packings and screens |
| 10.10.5.9 | Machines for adjusting handling equipment – other | 10.17 | CAD, CAM, CIM in transport, handling and assembly technology |
| 10.10.6 | Single purpose and municipal vehicles with superstructures | 10.18 | Engineering and design services in transport, handling and assembly technology |
| | Handling aids | Service and repairs in transport, handling and assembly technology | |
| 10.10.7.1 | Hand clamps | 10.19.1 | Diagnostics in transport, handling and assembly technology |
| 10.10.7.2 | Vacuum, magnetic suction equipment | 10.19.2 | Spare parts for transport, handling and assembly technology |
| 10.10.7.3 | Crowbars | 10.19.2.1 | Travelling wheels and rollers |
| 10.10.7.4 | Slide rails incl. wagon slide rails | 10.19.2.2 | Tyres for transport and handling equipment |
| 10.10.7.5 | Displacing rollers | 10.19.3 | Reconstructions and upgrading in transport, handling and assembly technology |
| 10.10.7.6 | Rolling undercarriages | 10.20 | Refurbished transport, handling and assembly technology |
| 10.10.7.7 | Lifting wheels | 10.21 | Technologies for transport, handling and assembly technology |
| 10.10.7.8 | Stands | 10.21.1 | Technological projects for transport, handling and assembly technology |
| 10.10.7.9 | Steps | 10.21.2 | Technological supplies for transport, handling and assembly technology |
| 10.10.7.10 | Ladders | 10.22 | Execution of investment units for transport, handling and assembly technology |
| 10.10.7.99 | Handling aids – other | Packaging materials and packages, packaging machines for the industry | |
| 10.10.8 | Automated handling systems | 10.23.1 | Materials for the production of packages |
| 10.10.9 | Container-type transport systems | 10.23.2 | Packages for industrial packaging |
| 10.10.99 | Handling equipment – other | 10.23.2.1 | Anticorrosive paper |
| 10.11 | Scaffolds | 10.23.3 | Packing machines and equipment |
| 10.11.1 | Mobile scaffolds | 10.23.3.1 | Barrier film packaging machines |
| 10.12 | Working, safety and evacuation technology for work at heights | 10.23.3.2 | Machines for container forming, filling and sealing |
| | Assembly machines and equipment | 10.23.3.3 | Group packaging machines |
| 10.13.1 | Accessories for assembly machines | 10.23.4 | Marking machines and equipment for packaging |
| 10.13.2 | Assembly machines | 10.23.5 | Turn-key packaging solutions |
| 10.13.3 | Assembly lines | 10.23.6 | Custom-made packaging |
| 10.13.3.1 | Benches for assembly lines | 10.23.9 | Packaging materials and packages, packaging machines for the industry – other |
| 10.13.4 | Unit-construction assembly lines | Services by carriers and forwarding agents | |
| 10.13.5 | Assembly controls | 10.24.1 | Domestic freight traffic |
| 10.13.6 | Assembly riveting machines | 10.24.2 | International freight traffic |
| 10.13.7 | Automatic and control instruments for assembly machines and equipment | 10.24.3 | Special loads transport |
| 10.13.99 | Assembly machines and equipment – other | 10.24.3.1 | Transport of heavy and oversize loads |
| 10.14 | Assembly and handling robots for industrial production | 10.24.3.2 | Transport of dangerous loads based on ADR |
| 10.14.1 | Robot peripherals and accessories | 10.24.4 | Tubular transport |
| | Storing technology and operation equipment | 10.24.5 | City logistics |
| 10.15.1 | Shelves | 10.24.6 | Storage rooms and storing services |
| 10.15.1.1 | Pallet shelves | 10.24.7 | Packing of transport consignments |
| 10.15.1.2 | Rack shelves | 10.24.8 | Forwarding services |
| 10.15.1.3 | Bracket shelves | 10.24.9 | Collecting services |
| 10.15.1.4 | Paternoster shelves | 10.24.10 | Loading and securing services in transport |
| 10.15.1.5 | Pull-out shelves for long materials | 10.24.11 | Customs services |
| 10.15.1.6 | Mobile shelves | 10.24.12 | Express transport of lump consignments |
| 10.15.1.7 | Library, archives and office shelves | | |
| 10.15.1.8 | Storing and wardrobe systems | | |
| 10.15.2 | S/R machines (storage and retrieval machines) | | |
| 10.15.3 | Storage tanks | | |
| 10.15.4 | Balance for logistics and transport | | |
| 10.15.5 | Ramps and bridges | | |
| 10.15.6 | Automated storing systems | | |

TRANSPORTATION, HANDLING, INDUSTRIAL PACKING, WAREHOUSING AND LOGISTICS

| | | | |
|--|--|----------|---|
| 10.24.99 | Services by carriers and forwarding agents – other | 10.28.4 | Consultancy in customs affairs |
| Freight terminals | | 10.28.5 | Consultancy in dangerous loads transport |
| 10.25.1 | Airports | 10.28.6 | Drivers' training |
| 10.25.2 | Harbours | 10.28.7 | Services for railway engineering |
| 10.25.3 | Container transshipment terminal | 10.28.8 | Consultancy in organizing assembly lines |
| 10.25.4 | Logistic (distribution) centers, areals | 10.28.9 | Logistic system audit |
| 10.25.4.1 | Logistic providers | 10.28.10 | Training, education and requalification in logistics and transport |
| Services in transport | | 10.28.11 | Customer solutions of storing equipment |
| 10.26.1 | Services for truck crews abroad | 10.28.12 | Design of logistic systems |
| 10.26.2 | Insurance in transport | 10.28.13 | Reengineering of logistic systems |
| 10.26.3 | Postal services | 10.28.14 | Outsourcing of logistic systems |
| 10.26.4 | Providing permits for special load transport abroad | 10.28.15 | Turnkey supplies of logistic systems |
| 10.26.5 | Banking services in transport | 10.28.16 | Finance and insurance in logistics and transport |
| 10.26.99 | Services in transport – other | 10.28.17 | Information and service equipment for passengers' transport |
| Telematics, communication, information and control systems in logistics | | 10.28.18 | Security services in storage and transport |
| 10.27.1 | Printing, labelling and marking equipment | 10.28.99 | Literature, consultancy, training, service in transport and logistics – other |
| 10.27.1.1 | Bar code printers | 10.29 | Research and development in logistics and transport |
| 10.27.2 | Data collecting equipment | 10.30 | Organizations, associations, unions for logistics and transport |
| 10.27.2.1 | Data collecting terminals | | |
| 10.27.3 | Communication equipment for storage rooms and logistics | | |
| 10.27.4 | Identification equipment and systems | | |
| 10.27.4.1 | Bar code based identification equipment and systems | | |
| 10.27.4.2 | RFID based identification equipment and systems | | |
| 10.27.4.3 | RTLS (Real Time Location Systems) and their accessories | | |
| 10.27.5 | Dashboard PCs and their peripherals | | |
| 10.27.6 | GPS (Global Positioning System) | | |
| 10.27.7 | Navigation systems | | |
| 10.27.8 | Systems for tracing vehicle movement | | |
| 10.27.9 | Satellite systems for truck traffic control | | |
| 10.27.10 | Geographic information systems (GIS) | | |
| 10.27.11 | Software for transport, storage and materials handling | | |
| 10.27.11.1 | Application software for transport and forwarding | | |
| 10.27.11.2 | Application software for provisioning | | |
| 10.27.11.2.1 | Software for controlling material and commodity flows | | |
| 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 | | |



CHEMICALS FOR ENGINEERING

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| Equipment for the chemical industry | 16.2.99 | Machines for other chemical branches |
| 16.1.1 Tanks, vessels, pressure vessels for the chemical industry | Lubricants, oils | |
| 16.1.2 Columns | 16.3.1 Lubricating greases for industry | |
| 16.1.3 Filters for chemical production | 16.3.2 Lubricating oils for industry | |
| 16.1.3.1 Filters for liquid materials | 16.3.3 Oils for industrial transmissions | |
| 16.1.3.2 Filters for gaseous materials | 16.3.4 Hydraulic oils | |
| 16.1.3.3 Filters with automatic cleaning of filter partition | 16.3.5 Oils for rolling | |
| 16.1.3.4 Equipment for diaphragm technology, ultrafiltration and nanofiltration | 16.3.6 Oils, emulsions, pastes for corrosion protection | |
| 16.1.4 Filtration systems for the chemical industry | 16.3.7 Cooling lubricants and liquids | |
| 16.1.4.1 Filtration systems for plastic and rubber melts | 16.3.8 Working emulsions and cutting oils | |
| 16.1.4.2 Filtration systems for the production of synthetic fibres | 16.3.9 Additives for lubricants | |
| 16.1.4.3 Filtration systems for plastic melt recycling | 16.3.10 Environmental lubricants | |
| 16.1.5 Mixing and kneading machines | 16.3.11 Oils for the food industry | |
| 16.1.6 Crushers | 16.3.99 Lubricants and oils – other | |
| 16.1.7 Mills for the chemical industry | 16.4 Mineral oil regeneration equipment | |
| 16.1.7.1 Colloid mills | 16.5 Corrosion and wear protection pastes | |
| 16.1.7.2 Pulverizers | 16.6 Sprays for metal surface finishing | |
| 16.1.7.3 Screens for the chemical industry | 16.7 Coating compositions | |
| 16.1.8 Separators | 16.7.1 Synthetic coating compositions | |
| 16.1.9 Air separators and screening machines | 16.7.2 Water soluble coating compositions | |
| 16.1.10 Dedusting equipment | 16.7.3 Powder paints | |
| 16.1.11 Centrifuges | 16.8 Colours, pigments | |
| 16.1.12 Evaporators, evaporating equipment | 16.9 Enamels | |
| 16.1.12.1 Vacuum evaporators | 16.10 Cements | |
| 16.1.13 Homogenizers | 16.11 Adhesives | |
| 16.1.14 Decanters | 16.12 Adhesive tapes and films | |
| 16.1.15 Crystallization equipment | 16.13 Gases | |
| 16.1.16 Cleaning equipment for chemical engineering | 16.13.1 Pure and rare gases and their mixtures | |
| 16.1.17 Heat exchangers for chemical engineering | 16.13.2 Technical gases in liquid and gaseous phase | |
| 16.1.18 Industrial furnaces for chemical production | 16.14 Active carbon, charcoal, soot | |
| 16.1.19 Dosing equipment for chemical engineering | Chemicals for industrial production | |
| 16.1.20 Transport equipment for chemical plants | 16.15.1 Chemicals for mechanical engineering | |
| 16.1.21 Silos | 16.15.1.1 Solvents, thinners | |
| 16.1.22 Synthetic fibre production equipment | 16.15.1.2 Varnish / lacquer removers | |
| 16.1.23 Biochemical and biotechnological equipment | 16.15.1.3 Degreasing and cleaning liquids | |
| 16.1.24 Process gas distribution | 16.15.1.4 Corrosion inhibitors | |
| 16.1.25 Process burners | 16.15.1.5 Moulding equipment | |
| 16.1.26 Exhausting and dedusting equipment for the chemical industry | 16.15.1.6 Heat-carrying media | |
| 16.1.99 Equipment for the chemical industry – other | 16.15.1.7 Chemicals for chemical and heat processing of iron and steel | |
| Machines and accessories for the chemical industry | 16.15.1.8 Treatment salts for light metals | |
| 16.2.1 Components and accessories for the chemical industry | 16.15.1.9 Chemicals for electroplating | |
| 16.2.2 Equipment for the petrochemical industry | 16.15.1.10 Mordants for metals | |
| 16.2.3 Equipment for coal and tar processing | 16.15.1.11 Antifoaming agents | |
| 16.2.4 Natural gas processing equipment | 16.15.1.12 Emulsifiers | |
| 16.2.5 Inorganic production equipment | 16.15.1.13 Additive concentrates | |
| 16.2.6 Organic production equipment | 16.15.1.14 Technical fungicides | |
| 16.2.7 Macromolecular material production | 16.15.1.99 Chemicals for mechanical engineering – other | |
| 16.2.8 Coating substance production equipment | 16.15.2 Chemicals for the petrochemical industry | |
| 16.2.9 Agrochemical production equipment | 16.15.3 Chemicals for the rubber industry | |
| 16.2.10 Synthetic fibre production equipment | 16.15.4 Chemicals for the pharmaceutical and cosmetic industries | |
| 16.2.11 Explosive production equipment | 16.15.5 Chemicals for industrial water treatment plants | |
| 16.2.12 Equipment for pharmaceutical production | 16.15.6 Chemicals for the textile industry | |
| 16.2.13 Granulate production machines | 16.15.7 Chemicals for the electric engineering industry | |
| 16.2.14 Machines for the production of soap and cleaning agents | 16.15.98 Washing and cleaning agents for industrial site cleaning | |
| 16.2.15 Machines for cosmetic production | 16.15.99 Chemicals for other industrial production branches | |
| 16.2.16 Cream, solution, suspension and emulsion processing equipment | 16.16 Industrial explosives | |
| 16.2.17 Stearin, glycerol and candle production equipment | 16.17 CAD, CAM, CIM for chemical plants | |
| 16.2.18 Equipment for the production and storing of technical gases | 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

16.21 Re-worked machines for the chemical industry

16.22 Technologies for the chemical industry

16.22.1 Technology projects for the chemical industry

16.99 Chemistry for engineering others



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

| | | | |
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| Systems for additive manufacturing | | 17.2.5 | Internet solutions for industrial applications |
| 17.1.1 | Additive manufacturing systems | 17.2.5.1 | Internet solutions for automation |
| 17.1.1.1 | Additive manufacturing systems, 3D printers with 3DP technologies | 17.2.5.2 | On-line monitoring systems |
| 17.1.1.2 | Additive manufacturing systems, 3D printers with fused deposition modelling (FDM), thermal extrusion printing | 17.2.5.3 | Web-based solutions for automation systems |
| 17.1.1.3 | Additive manufacturing systems, 3D printers with laminating technologies, laminated object modelling, LOM for non-metals | 17.2.5.4 | Other internet solutions for industrial applications |
| 17.1.1.4 | Additive manufacturing systems, 3D printers with multijet modelling (MJM) | 17.2.6 | Multimedia software for industrial applications |
| 17.1.1.5 | Additive manufacturing systems, 3D printers with selective laser melting, SLM for metals | 17.2.6.1 | Multimedia technical product documentation systems |
| 17.1.1.6 | Additive manufacturing systems, 3D printers with selective laser sintering, SLS for non-metals | 17.2.6.2 | Multimedia virtual product development systems |
| 17.1.1.7 | Additive manufacturing systems, 3D printers with stereolithography, SLA, STL | 17.2.7 | Operating systems for industrial IT |
| 17.1.1.8 | Other additive manufacturing systems, 3D printers for non-metals | 17.2.8 | Extension of operating systems and system control software for industrial IT |
| 17.1.2 | Industry applications for additive manufacturing with non-metals | 17.2.8.1 | Computer security software and network security software |
| 17.1.3 | Supplementary systems and services for additive manufacturing with non-metals | 17.2.8.2 | OPC controllers, OPC servers, software for industrial IT, OPC UA |
| 17.1.3.1 | 3D digitisation systems for adaptive manufacturing | 17.2.8.3 | Other operating system extensions for industrial IT |
| 17.1.3.2 | 3D graphics software and 3D modelling software for additive manufacturing | 17.2.8.4 | Software for computer data backup |
| 17.1.3.3 | 3D modelling for additive manufacturing | 17.2.8.5 | Software for computer management, maintenance and installation |
| 17.1.3.4 | 3D scanners, 3D laser scanners for additive manufacturing | 17.2.9 | Other basic software and system-oriented industrial software |
| 17.1.3.5 | 3D visualization of models (services) | 17.2.10 | Systems and software for public resource processing |
| 17.1.3.6 | Development and manufacture of 3D printing monofilaments | 17.2.11 | Software for application development for industrial IT, development tools |
| 17.1.3.7 | Other supplementary systems and services for additive manufacturing with non-metals | 17.2.11.1 | Application development systems for CNC controls |
| Basic software and software solutions | | 17.2.11.2 | Application development systems for embedded systems |
| 17.2.1 | Communication software and network software for industrial IT | 17.2.11.3 | Application development systems for mobile, industrial applications |
| 17.2.2 | Data management software for industrial IT | 17.2.11.4 | Application development systems for process control systems, visualization systems |
| 17.2.2.1 | Database systems | 17.2.11.5 | Application development systems for robot controls |
| 17.2.2.2 | Knowledge management systems | 17.2.11.6 | Application development systems for Soft-PLC systems |
| 17.2.2.3 | Other data management software for industrial IT | 17.2.11.7 | Application development systems using C++, C, Basic |
| 17.2.3 | Expert, diagnostic and simulation systems | 17.2.11.8 | Application development systems with Java |
| 17.2.3.1 | Cognitive computing systems for production technologies and production processes | 17.2.11.9 | Application development systems, expert systems, diagnosis systems, artificial intelligence systems |
| 17.2.3.2 | Expert systems and artificial intelligence | 17.2.11.10 | PLC programming systems, application development systems for automation equipment |
| 17.2.3.3 | General simulation software for robotic applications | 17.2.11.11 | Other software for application development for industrial IT, development tools |
| 17.2.3.4 | PLC simulation software (programmable logic controls) | 17.2.12 | Videoconferencing systems |
| 17.2.3.5 | Real time oriented interactive simulation in industrial applications | 17.2.13 | Virtual reality systems for industrial applications |
| 17.2.3.6 | Simulation software for assembly technologies, handling systems and hydraulic and pneumatic systems | 17.2.13.1 | General virtual reality in automation technology |
| 17.2.3.7 | Simulation software for design, optimization and operation in production | 17.2.13.2 | Smart glasses |
| 17.2.3.8 | Simulation systems for material flow optimisation and production layout | 17.2.13.3 | Virtual prototyping systems |
| 17.2.3.9 | Software for fuzzy logic systems and fuzzy control in industrial applications | 17.2.13.4 | Virtual reality in production planning |
| 17.2.3.10 | Systems and software for remote diagnosis systems for machines and installations | 17.2.13.5 | Virtual reality in robotics |
| 17.2.3.11 | Tools for simulation and offline programming of industrial robots | 17.2.13.6 | Virtual reality software for industrial applications |
| 17.2.3.12 | Other expert systems, diagnosis systems and simulation systems | 17.2.13.7 | Other virtual reality systems for industrial applications |
| 17.2.4 | Image processing software | 17.2.14 | Visualization systems |
| 17.2.4.1 | Future-oriented image processing software technologies | 17.2.14.1 | Visualization systems in industrial applications |
| 17.2.4.2 | Image processing development systems | 17.2.14.2 | Software for operating stations (man/machine interface) |
| 17.2.4.3 | Software for identification systems | 17.2.14.3 | Systems for Operating and Observing |
| 17.2.4.4 | Software for pattern recognition, image analysis, image processing | 17.2.14.4 | Visualization software |
| 17.2.4.5 | Software tools for image processing | 17.2.14.5 | Visualization systems (man-to-process communication) |
| | | 17.2.15 | Voice processing systems |
| | | 17.2.16 | Automation software solutions |
| | | 17.2.17 | Software and solutions for specific industrial branches |
| | | 17.2.18 | Specific software and specific solutions |
| | | 17.2.18.1 | Application software for quality assurance and quality control / CAQ |
| | | 17.2.18.2 | Application software for vertical IT integration |
| | | 17.2.18.3 | Product life cycle management, PLM software and solutions |
| | | 17.2.18.3.1 | CAD software and solutions for product data generation |



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| 17.2.18.3.2 | Complete product life cycle management, PLM systems and solutions | 17.2.18.10 | Software and solutions for production, production data management and CAM |
| 17.2.18.3.3 | Software and solutions for computer equipment, CAE, technical computations and simulation | 17.2.18.10.1 | Computer systems for production, CAM solutions |
| 17.2.18.3.4 | Software and solutions for experiments, prototyping and development | 17.2.18.10.2 | Information management systems |
| 17.2.18.3.5 | Software and solutions for media management, media databases | 17.2.18.10.3 | Production systems, MES |
| 17.2.18.3.6 | Software and solutions for product requirement management | 17.2.18.10.4 | Software and solutions for machine monitoring and machine control |
| 17.2.18.3.7 | Software and solutions for production planning, product planning | 17.2.18.10.5 | Software and solutions for production management systems |
| 17.2.18.3.8 | Software and solutions for technical documentation | 17.2.18.10.6 | Software and solutions for production systems, control production stations |
| 17.2.18.3.9 | Software and solutions for product data provision and management (PDM, EDM) | 17.2.18.10.7 | Software and solutions for production data acquisition, collection of data from the plant, FDC, MDA |
| 17.2.18.3.10 | Software and solutions for total life cycle management, TLM | 17.2.18.10.8 | Software and solutions for production data management |
| | | 17.2.18.10.9 | Software and solutions for production management |
| 17.2.18.4 | Software and solutions for business analysis, big data, intelligent data for the industry | 17.2.18.11 | Software and solutions for job allocations, material management and logistics |
| 17.2.18.4.1 | Software and solutions for big data, intelligent data for the industry | 17.2.18.11.1 | Advanced planning solutions (APS) |
| 17.2.18.4.2 | Software and solutions for business analysis, intelligent data for the industry | 17.2.18.11.2 | Software and solutions for logistics management |
| 17.2.18.4.3 | Software and solutions for data storages and data acquisition for the industry | 17.2.18.11.3 | Software and solutions for distribution and shipment |
| 17.2.18.4.4 | Other software and solutions for business analysis, big data for the industry | 17.2.18.11.4 | Software and solutions for electronic notice boards, automatic material inventory management |
| | | 17.2.18.11.5 | Software and solutions for material flow management and material flow optimisation |
| 17.2.18.5 | Software and solutions for CRM, distribution and marketing | 17.2.18.11.6 | Software and solutions for material management |
| 17.2.18.5.1 | Application software customer relations management, CRM and technical sales | 17.2.18.11.7 | Software and solutions for material consumption management and optimisation |
| 17.2.18.5.2 | Application software for technical sales | 17.2.18.11.8 | Software and solutions for warehouse management |
| 17.2.18.5.3 | eCommerce and eBusiness solutions | 17.2.18.11.9 | Software and solutions for supplier chain management (SCM) |
| 17.2.18.5.4 | Software and solutions for marketing, eMarketing, mobile marketing | 17.2.18.11.10 | Software and solutions for transport, traffic logistics |
| 17.2.18.5.5 | Software and solutions for distribution | 17.2.18.11.11 | Other software and solutions for job allocation, material management and logistics |
| 17.2.18.6 | Software and solutions for customer service and support | | |
| 17.2.18.7 | Software and solutions for production planning | | |
| 17.2.18.7.1 | Software and solutions for enterprise resource planning, ERP and production planning, PPC | | |
| 17.2.18.7.2 | Software and solutions for enterprise resource planning, ERP and order processing | | |
| 17.2.18.7.3 | Software and solutions for production and planning integrated control | | |
| 17.2.18.7.4 | Software and solutions for production and control planning, PPC | | |
| 17.2.18.7.5 | Software and solutions for production planning / computer planning, CAP | | |
| 17.2.18.8 | Software and solutions for maintenance and repairs | | |
| 17.2.18.8.1 | MPS, maintenance systems | | |
| 17.2.18.8.2 | Software and solutions for maintenance management | | |
| 17.2.18.8.3 | Software for maintenance in the industry | | |
| 17.2.18.8.4 | Other software and solutions for maintenance and repairs | | |
| 17.2.18.9 | Software and solutions for management and business activities | | |
| 17.2.18.9.1 | Software and solutions for asset management | | |
| 17.2.18.9.2 | Content management software | | |
| 17.2.18.9.3 | Document management systems (DMS) | | |
| 17.2.18.9.4 | Software for personnel working hours management | | |
| 17.2.18.9.5 | Software and solutions for business process optimisation and business process control | | |
| 17.2.18.9.6 | Software and solutions for company management, organisation and control | | |
| 17.2.18.9.7 | Software and solutions for human resources, personnel management | | |
| 17.2.18.9.8 | Software and solutions for project management | | |
| 17.2.18.9.9 | Software and solutions for risk management | | |
| 17.2.18.9.10 | Software for the calculation of production costs | | |
| 17.2.18.9.11 | Systems for workflow | | |
| 17.2.18.9.12 | Other software and solutions for administration and commercial sector | | |
| | | 17.3.1 | Cloud & industrial IT services, digital factory services |
| | | 17.3.1.1 | Cloud services, IT services and outsourcing |
| | | 17.3.1.2 | Applications and hosting systems |
| | | | Application service provision (ASP) for the industry |
| | | 17.3.1.3 | Industrial cloud services |
| | | 17.3.1.3.1 | Cloud services for condition monitoring, predictive maintenance |
| | | 17.3.1.3.2 | Cloud services for mobile sensor systems |
| | | 17.3.1.3.3 | Infrastructure as a Service, SaaS, for industrial applications |
| | | 17.3.1.3.4 | Other cloud services for industrial applications |
| | | 17.3.1.3.5 | Platform as a Service, PaaS, for industrial applications |
| | | 17.3.1.3.6 | Software as a Service, SaaS, for industrial applications |
| | | 17.3.1.4 | IT and network services (outsourcing) |
| | | 17.3.1.5 | Enterprise process outsourcing |
| | | 17.3.1.6 | IT and outsourcing consulting |
| | | 17.3.1.7 | Controlled services for industrial applications |
| | | 17.3.1.8 | Shop floor services and solutions |
| | | 17.3.1.9 | Attendance and maintenance software |
| | | 17.3.2 | Automation software development |
| | | 17.3.2.1 | Development of customer-specific control modules |
| | | 17.3.2.2 | PLC development and programming |
| | | 17.3.2.3 | Other customary automation software |
| | | 17.3.3 | Industrial engineering services |
| | | 17.3.3.1 | Application programming and engineering for automation in factories |
| | | 17.3.3.2 | Documentation services |
| | | 17.3.3.3 | Other industrial engineering services |
| | | 17.3.3.4 | Production planning and control simulation |
| | | 17.3.3.5 | Software consulting |
| | | 17.3.4 | Internet services for automation and industrial use |
| | | 17.3.4.1 | Internet portals for industrial software and engineering |
| | | 17.3.4.2 | Other internet services for automation and industrial use |
| | | 17.3.4.3 | Services for on-line marketplaces (industrial software and engineering) |



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