NOMENCLATURE

60th International Engineering Fair
IMT 2018
11th International Machine Tools Exhibition

17th International Foundry Fair
24th International Welding Engineering Fair

7th International Surface Technology Fair
6th International Plastics, Rubber and Composites Fair

1–5 October, 2018
Brno – Czech Republic
# MSV – 60th INTERNATIONAL ENGINEERING FAIR

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# Materials and Components for Mechanical Engineering

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- 7.5.5.2 Hydraulic controllers
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### Control systems with fuzzy logic

### Interconnection of programmable logic controller with master computer

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- 7.5.6.2 Power units (actuators)
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8.3.9 Treatment of household water
8.3.9.1 Household water treatment filters

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

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

8.5.1 Design of sewage water treatment plants
8.5.2 Equipment for mechanical clarification of sewage water
8.5.2.6 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, biotric)
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

Chemical and physical purification of sewage waters

8.5.4.1 Rotation and flocculation units
8.5.4.2 Absorption and adsorption equipment for the purification of sewage waters
8.5.4.3 Separators of crude oil substances
8.5.4.3.1 Separators of oils, emulsions, diluents
8.5.4.4 Microfiltration and ultra-filtration units for sewage water treatment plants
8.5.4.5 Units for electrical dialysis
8.5.4.6.1 Flotation and flocculation units
8.5.4.6.2 Separators of oils, emulsions, diluents
8.5.4.6.3 Separators of crude oil substances
8.5.4.6.4 Equipments for the purification of sewage waters – other

Equipment for sewage sludge processing

8.5.5.1 Bioreactors
8.5.5.2 Digestion tanks
8.5.5.3 Gas holders for sludge gas
8.5.5.4 Equipment for sludge thickening and dewatering
8.5.5.5 Biogas engines
8.5.5.6 Equipment for the production of sewage sludge granulation products
8.5.5.7 Sludge management
8.5.5.8 Transportation and storage of sludge
8.5.5.99 Equipment for the processing of sewage – other

Waste processing and utilization

8.6 Pumps, blowers, agitators for water management
8.7 Power plants for water management
8.8 Construction components for water management

8.9 Chemical products for water treatment and purification
8.9.1 Active coal for water treatment and sewage plants
8.9.2 Flocculation and coagulation agents
8.9.3 Ferric chloride
8.9.4 Ionexes
8.9.5 Incrustation inhibitors
8.9.6 Metals or sorbents for the removal of heavy metals
8.9.7 Oil-absorbing agents for the removal of crude oil substances and PCBs

Sewage water treatment plants

8.10.1 Communal sewage treatment plants

Industrial sewage water treatment plants
8.10.2.1 Sewage treatment plants for the food industry
8.10.2.2 Sewage treatment plants for the greasy industry
8.10.2.3 Sewage treatment plants for the textile industry
8.10.2.4 Sewage treatment plants for the paper industry
8.10.2.5 Sewage treatment plants for the chemical industry
8.10.2.6 Sewage treatment plants for the petrochemical industry
8.10.2.7 Sewage treatment plants for the pharmaceutical industry
8.10.2.8 Sewage treatment plants for agriculture
8.10.2.9 Sewage treatment plants for the engineering industry
8.10.2.9.1 Plating shop water treatment plants
8.10.2.10 Closed-circuit water management of industrial plants
8.10.2.10.1 Recirculation sewage treatment plants for garages and car wash facilities

8.10.11 Chemical and physical sewage treatment plants for industry and trade
8.10.12 Sewage treatment plants for effluents from the process industry

8.10.3 Complete deliveries of sewage treatment plants

8.11 Sewage networks and sewers
8.12 Water reservoirs for water accumulation

8.13 Advisory service for water quality protection
8.13.1 Advisory service for water treatment
8.13.2 Advisory service for sewage water treatment

8.14 Reconstruction and upgrading of unsuitable sewage water treatment plants
8.15 Service and repair of water treatment and sewage plants equipment
8.16 Technology for the reduction of technological water consumption

Waste processing and utilization

8.20.1.1 Waste bins
8.20.1.2 Containers for the collection of communal waste
8.20.1.3 Containers for the collection of industrial waste
8.20.1.4 Containers and barrels for the collection of hazardous waste
8.20.1.5 Silos and industrial tanks for waste
8.20.1.6 Hospital waste bins
8.20.1.7 Mobile and ecological toilets
8.20.1.8 Equipment for waste compaction and compression
8.20.1.9 Waste loading and handling equipment
8.20.1.10 Transport equipment for waste transportation
8.20.1.11 Complete programme for storing and handling of hazardous materials
8.20.1.99 Equipment for the collection and transportation of waste – other

Machines and equipment for waste treatment
8.20.2.1 High-pressure water cutting and demolition systems
8.20.2.2 Hydraulic shears
8.20.2.3 Cutting mills
8.20.2.4 Waste crushers
8.20.2.5 Bulk transport conveyers and waste feeders
8.20.2.6 Waste-storage bins
8.20.2.7 Waste sorting plants
8.20.2.7.1 Communal waste sorting plants
8.20.2.7.2 Industrial waste sorting plants
8.20.2.7.3 Construction waste sorting plants
8.20.2.7.4 Road building waste sorting plants
8.20.2.8 Waste presses
8.20.2.8.1 Waste baling presses

Recovery of raw materials from waste, recycling
8.20.3.1 Recycling of metal-containing waste
8.20.3.1.1 Recycling of ferrous metal waste
8.20.3.1.2 Recycling of non-ferrous metal waste
8.20.3.1.3 Recycling of mercury-containing waste
8.20.3.1.4 Recycling of waste containing precious metals
8.20.3.2 Recycling of electrotechnical scrap
8.20.3.2.1 Recycling of catalysts
8.20.3.3 Recycling of used cars
8.20.3.4 Recycling of used cooling equipment and refrigerators
8.20.3.5 Recycling of plastic waste
8.20.3.6 Recycling of textile waste
8.20.3.7 Recycling of used tyres, rubber
8.20.3.8 Recycling of used glass
8.20.3.9 Recycling of used paper
8.20.3.10 Recycling of building debris
8.20.3.11 Processing of waste from the food industry into animal feed
8.20.3.12 Recycling of pollutant loaded air and gases
8.20.3.13 Recycling of liquid waste
8.20.3.13.1 Purification and regeneration of mineral oils
8.20.3.13.2 Recycling of liquid waste
8.20.4 Composting lines
8.20.5 Fermentation plants
8.20.5.1 Fermentation troughs for the processing of sewage treatment plant sludge
8.20.5.2 Recycling of liquid waste
8.20.6 Pyrolysis
8.20.6.1 Communal waste incinerators
8.20.6.2 Industrial waste incinerators
8.20.6.2.1 Muffle kilns for burning liquid waste
8.20.6.3 Hospital waste incinerators
8.20.6.4 Equipment for pyrolysis
8.20.7 Solidification
8.20.7.1 Engineering and geological investigation
8.20.7.2 Design of dumping sites
8.20.7.3 Geotextiles
8.20.7.4 Insulation and sealing films and materials for dumping sites
8.20.7.5 Tubes for degasification and drainage of dumping sites
8.20.8 Biogas stations
8.20.8.1 Gas holders for storage of biogas
8.20.8.1.1 Gas holders for storage of biogas
8.20.8.2 Weighing equipment for dumping sites
8.20.8.3 Monitoring systems for dumping sites
8.20.8.4 Operation of dumping sites
8.20.9 Elimination of waste by solidification
8.20.9.1 Elimination of PCB-containing waste
8.20.9.2 Elimination of heavy metal containing waste
8.20.9.3 Elimination of crude oil substance containing waste
8.20.9.4 Elimination of cyanide-containing waste
8.20.10 Hazardous waste elimination technology
8.20.10.1 Elimination of PCB-containing waste
8.20.10.2 Elimination of heavy metal containing waste
8.20.10.3 Elimination of crude oil substance containing waste
8.20.10.4 Elimination of cyanide-containing waste
8.20.11 Advisory service for waste disposal
8.20.11.1 Advisory service for hazardous waste disposal
8.20.12 Elaboration of waste management studies
8.20.13 Transportation of hazardous waste and substances
8.20.14 Comprehensive solutions in waste disposal
8.20.14.1 Comprehensive solutions in industrial waste disposal
8.20.15 Complex waste management by own staff to order
8.20.16 Reduction of waste production
8.20.17 Waste processing and utilization – other
8.21 Soil and Landscape protection

8.22 Environment-friendly technologies for and industry
8.22.1 Alternative power sources
8.22.2 Energy-saving devices and technologies
8.22.3 Packaging engineering and materials harmless for the environment
8.22.4 Environment-sound chemicals
8.22.5 Waste free technologies
8.22.6 Environment-friendly technologies for industry other

Removal of old environmental burden and consequences of ecological disasters
8.25.1 Equipment for the detection of contaminants
8.25.1.1 in soil and soil air
8.25.2 Equipment for the detection of contaminants in water
8.25.3 Hydrogeological research for the detection of bedrock contamination
8.25.4 Elimination of contaminants from geological environment
8.25.5 Cleaning of soils
8.25.5.1 Cleaning of soils contaminated with crude oil substances
8.25.5.2 Thermal processing of soils
8.25.6 Maintenance and recultivation of old landfills
8.25.6.1 Recultivation of spoilbanks after surface mining

Noise reduction
8.30.1 Soundproof insulation materials
8.30.2 Sound protection absorption walls and panels
8.30.3 Sound protection booths, sheaths, walls, barriers
8.30.4 Sound mufflers
8.30.5 Impact and vibration suppressors
8.30.5.1 Vibration isolators
8.30.6 Soundproof windows
8.30.7 Design of sound protection measures
8.30.99 Noise reduction – other

Instrumentation for environment control
8.33.1 Control and regulating systems for environmental technology
8.33.2 Instrumentation for air and flue gas analysis
8.33.3 Instrumentation for ionizing radiation measurements
8.33.4 Instrumentation for noise and vibration measurements
8.33.5 Instrumentation for soil analysis
8.33.6 Monitoring in the environmental sector
8.33.7 Accredited test laboratories
8.33.8 Production of measuring devices for the environmental sector to order
8.33.9 Complex equipment of laboratories
8.33.10 Hardware and software for environmental protection
8.33.11 Communication engineering for data transmission
8.33.99 Instrumentation for environment control other

Machines for industrial cleaning and washing
8.40.1 Cleaning machines
8.40.1.1 Machines for chemical cleaning shops
8.40.1.1.1 Feather cleaning equipment
8.40.1.2 Machines for laundries and ironing shops
ECOLOGICAL TECHNOLOGY

8.40.2 Baling presses for waste separation and handling

8.40.3 Industrial cleaning machines
8.40.3.1 High-pressure cleaning equipment
8.40.3.2 Ultrasonic washing equipment
8.40.3.3 Industrial washing tables
8.40.3.4 Industrial vacuum cleaners
8.40.3.4.1 Vacuum cleaners for dry and moist impurities
8.40.3.4.2 Vacuum cleaners for toxic, carcinogenic and flammable dusts

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

8.40.5 Machines for the cleaning of roads and airports
8.40.99 Machines for industrial cleaning and washing – other

Literature, services, research, environmental organizations

8.50.1 Literature and periodicals on the environment

Environmental services
8.50.2.1 Elaboration of environmental audits
8.50.2.2 Energy audit elaboration
8.50.2.3 Risk analysis
8.50.2.4 Investigation of environmental burden
8.50.2.5 Dispersion studies
8.50.2.6 Assessment of project impact on the environment
8.50.2.7 Expert opinions for the State Environmental Fund
8.50.2.8 Projects of ecological business management systems
8.50.2.9 Consultancy in the introduction of ISO 14000 Standards
8.50.2.10 Advisory service for environmental legislation
8.50.2.11 Legal representation
8.50.2.12 Patents, licences, know-how in environmental protection
8.50.2.13 Product certification complying with environmental protection
8.50.2.14 Assessment of environmental damages
8.50.2.15 Financing of environmental projects
8.50.2.16 Information service
8.50.2.17 Environment marketing studies
8.50.2.18 Integrated Pollution Prevention and Control (IPPC)
8.50.2.19 Consultancy and trading in CO₂ emissions

8.50.3 Environment monitoring

8.50.4 Accredited testing laboratories for the environment
8.50.4.1 Accredited soil and waste analyses
8.50.4.2 Accredited water analyses
8.50.4.3 Accredited analyses of emissions and air pollution

8.50.5 Environment research

8.50.6 Environmental organisations
8.50.6.1 State administration authorities for the environment
8.50.6.2 Non-governmental environmental organisations

8.50.99 Literature, services, research, environmental organisations – other
RESEARCH, DEVELOPMENT, TRANSFER OF TECHNOLOGIES, FINANCIAL AND OTHER SERVICES

Science and research

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 – other

Economic, financial, advertising and other services, institutions

9.2.1 Banks and financial institutions
9.2.2 Financial consulting
9.2.3 Organizational, economic and entrepreneurial consultancy
9.2.4 Financing
9.2.5 Leasing
9.2.6 Insurance
9.2.6.1 Contract insurance
9.2.7 Export consultancy
9.2.8 Searching of business contacts abroad
9.2.9 Assessment of company’s financial standing
9.2.10 Securing import - export
9.2.11 Representation of foreign companies
9.2.12 Evaluation of patents, patent representation
9.2.13 Know-how
9.2.14 Licensing
9.2.15 Trade marks
9.2.16 Standards
9.2.17 Product certification
9.2.18 Quality certification
9.2.18.1 Consultancy in the field of introduction of ISO 9 000 and ISO 14 000 Standards
9.2.19 Take-over tests
9.2.20 Product and package design
9.2.21 Marketing
9.2.21.1 Market research
9.2.21.2 Market Information
9.2.21.3 Addresses of prospective customers
9.2.21.4 Information data banks
9.2.21.5 Direct mailing

9.2.22 Advertising and publicity services
9.2.22.1 Advertising articles and gifts
9.2.22.2 Advertising services abroad
9.2.22.3 Advertising printed matter
9.2.22.4 Internet-based advertising services
9.2.22.4.1 Creating of www sites

9.2.23 Publishing houses
9.2.23.1 Specialist newspapers and journals
9.2.23.2 Specialist publications
9.2.24 Technical information
9.2.25 Seminars and special training
9.2.26 Support of trading and export
9.2.27 Engineering services
9.2.27.1 Product development
9.3.1  Land planning
9.3.2  Programmes for regional development
9.3.3  Presentation of development and investment plans
9.3.3.1  Presentation of business activities in towns
9.3.4  Technology parks, business centres, free trade areas
9.3.5  Offer of development localities for industrial construction
9.3.5.1  Offer of plots of land with engineering networks for industrial zones
9.3.5.2  Offer of plots of land without engineering networks for industrial zones
9.3.6  Offer of industrial real estates
9.3.7  Demand for investors
9.3.8  Financial institutions, project financing, services
9.3.99  Business and investment activities - other

OFFER OF INDUSTRIAL REAL ESTATES AND LOCALITIES, REGIONAL DEVELOPMENT
10.1 Ships
  10.1.1 Parts and accessories for ships

10.2 Aircraft and aero instruments
  10.2.1 Airplane parts and accessories
  10.2.2 Aviation instruments
  10.2.3 Security aircraft technology

10.2.4 Airport equipment

Rail vehicles
  10.3.1 Parts and accessories for rail vehicles
    10.3.1.1 Remote control of locomotives
  10.3.2 Locomotives
  10.3.3 Carriages
  10.3.4 Special carriages
    10.3.4.1 Tilting wagons
  10.3.5 Undercarriages
  10.3.6 Trams
  10.3.90 Overhauls, upgrading and reconstructions of rail vehicles
    10.3.91 Turnouts and superstructures

Cranes
  10.4.1 Parts and accessories for cranes
    10.4.1.1 Remote control of cranes
    10.4.1.2 Binding ropes, eyes and hooks
    10.4.1.3 Crane tracks
    10.4.1.4 Suspension equipment
  10.4.2 Bridge cranes
  10.4.3 Crane wagons
  10.4.4 Tower cranes
  10.4.5 Full-portal gantry cranes
  10.4.6 Pillar and mast cranes
  10.4.7 Truck cranes
  10.4.8 Jib cranes
  10.4.9 Bracket cranes
  10.4.10 Erecting cranes
  10.4.11 Grab cranes
  10.4.12 Telescopic cranes
  10.4.13 Cable cranes
  10.4.14 Rotary cranes
  10.4.15 Metallurgical industrial cranes
  10.4.16 Cranes for works on electrical lines
  10.4.17 Cranes for harbours and shipyards
  10.4.90 Overhauls, upgrading and reconstructions of cranes
    10.4.99 Cranes – other

Lifting mechanisms
  10.5.1 Pulley blocks
    10.5.1.1 Rope pulley blocks
    10.5.1.2 Chain pulley blocks
  10.5.2 Jacks
  10.5.3 Pneumatic lifting mechanisms
  10.5.4 Hydraulic lifting mechanisms
    10.5.4.1 Hydraulic jacks

Lifting platforms and ramps
  10.5.5.1 Erecting platforms and ramps
    10.5.5.1.1 High-lift self-propelled erecting platforms
  10.5.5.2 Lifting working platforms on undercarriages
  10.5.5.3 Hydraulic platforms for wheel chairs
  10.5.5.4 Mobile ramps
  10.5.6 Lifting electromagnets
  10.5.7 Permanent lifting magnets
  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

Transport and lift trucks
  10.6.1 Truck parts
  10.6.2 Hand trucks
  10.6.3 Battery trucks
    10.6.3.1 Batteries and accessories for battery trucks
  10.6.4 Gas-operated trucks
  10.6.5 I.C. engine equipped trucks
  10.6.6 Driverless trucks, induction trucks
  10.6.7 Attachments for transport trucks
    10.6.7.1 Attachments for high-lift trucks
  10.6.99 Transport and lift trucks – other

10.7 Lifts

Transport equipment
  10.8.1 Parts and accessories of transport equipment
    10.8.1.1 Conveyor parts and accessories

Conveyors for loose materials transport
  10.8.2.1 Band conveyers
  10.8.2.2 Worm conveyers
  10.8.2.3 Vibratory conveyers
  10.8.2.4 Chain/Redler conveyers
  10.8.2.5 Bucket elevators
  10.8.2.99 Conveyors for loose materials transport – other

Conveyors for lump materials transport
  10.8.3.1 Roller conveyers
  10.8.3.2 Wheel conveyers
  10.8.3.3 Ball conveyers
  10.8.3.4 Overhead conveyers incl. overhead grooves
  10.8.3.5 Floor conveyers – truck-type conveyers
  10.8.3.99 Conveyers for lump materials transport – other
  10.8.4 Pneumatic transport
  10.8.99 Transport equipment – other

Rope conveyers
  10.9.1 Parts and accessories for rope conveyers
  10.9.2 Passenger and freight services
  10.9.3 Ropeways for wood transport
  10.9.4 Ski lifts
  10.9.99 Rope conveyers – other

Handling equipment

Equipment for loading and unloading lump materials
  10.10.1.1 Arm loaders
  10.10.1.2 Hydraulic arms
  10.10.1.3 Tail lifts
  10.10.1.4 Filling and emptying equipment for containers and wagons
  10.10.1.9 Equipment for loading and unloading lump materials – other

Equipment for loading and unloading loose materials
  10.10.2.1 Worm unloaders
  10.10.2.2 Shovel loaders
  10.10.2.3 Mechanical shovels
10.10.2.4 Accessories and auxiliary equipment for loading and unloading loose materials
10.10.2.9 Equipment for loading and unloading loose materials – other

Transport means
10.10.3.1 Pallets
10.10.3.2 Pallet superstructures
10.10.3.3 Storing cases
10.10.3.4 Crates
10.10.3.5 Rolltainers
10.10.3.6 Containers incl. ISO
10.10.3.7 Containers for the transport of liquids
10.10.3.8 Omnitrainers
10.10.3.9 Cistern semi-trailers
10.10.3.99 Transport means – other

Storing and disassembling machines
10.10.4.1 Palletizing and depalletizing machines
10.10.4.2 Stacking and destacking equipment
10.10.4.9 Storing and disassembling machines – other

Machines for adjusting handling equipment
10.10.5.1 Bundling equipment
10.10.5.2 Strapping equipment
10.10.5.2.1 Strappings
10.10.5.3 Binding equipment
10.10.5.3.1 Chain, textile and rope binding means
10.10.5.4 Baling presses
10.10.5.5 Handling equipment contour checking devices
10.10.5.9 Machines for adjusting handling equipment – other

10.10.6 Single purpose and municipal vehicles with superstructures
10.10.6.1 Handling aids
10.10.6.2 Vacuum, magnetic suction equipment
10.10.6.3 Crowbars
10.10.6.4 Slide rails incl. wagon slide rails
10.10.6.5 Displacing rollers
10.10.6.6 Rolling undercarriages
10.10.6.7 Lifting wheels
10.10.6.8 Stands
10.10.6.9 Steps
10.10.6.10 Ladders
10.10.6.11 Air cushion handling equipment
10.10.6.99 Handling aids – other

10.10.8 Automated handling systems
10.10.9 Container-type transport systems
10.10.99 Handling equipment – other

10.11 Scaffolds
10.11.1 Mobile scaffolds

10.12 Working, safety and evacuation technology for work at heights

Assembly machines and equipment
10.13.1 Accessories for assembly machines
10.13.2 Assembly machines
10.13.3 Assembly lines
10.13.3.1 Benches for assembly lines
10.13.4 Unit-construction assembly lines
10.13.5 Assembly controls
10.13.6 Assembly riveting machines

10.13.7 Automatic and control instruments for assembly machines and equipment
10.13.99 Assembly machines and equipment – other

10.14 Assembly and handling robots for industrial production
10.14.1 Robot peripherals and accessories

Storing technology and operation equipment
10.15.1 Shelves
10.15.1.1 Pallet shelves
10.15.1.2 Rack shelves
10.15.1.3 Bracket shelves
10.15.1.4 Paternoster shelves
10.15.1.5 Pull-out shelves for long materials
10.15.1.6 Mobile shelves
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
10.15.4.1 Balance for storage handling
10.15.4.2 Balance for suspension handling
10.15.4.3 Balance, other (except laboratory balance)
10.15.4.4 Balance accessories for logistics and transport
10.15.5 Ramps and bridges
10.15.6 Automated storing systems
10.15.7 Parking systems
10.15.7.1 Automated parking houses
10.15.8 Warehouse fire and explosion security
10.15.99 Storing technology and operation equipment – other
10.16 Industrial gates, bolts, automatic and turnstile doors
10.16.1 Gate packings and screens
10.17 CAD, CAM, CIM in transport, handling and assembly technology
10.18 Engineering and design services in transport, handling and assembly technology

Service and repairs in transport, handling and assembly technology
10.19.1 Diagnostics in transport, handling and assembly technology
10.19.2 Spare parts for transport, handling and assembly technology
10.19.2.1 Travelling wheels and rollers
10.19.2.2 Tyres for transport and handling equipment
10.19.3 Reconstructions and upgrading in transport, handling and assembly technology
10.19.3.1 Design, reconstructions, assembly and tests in lifting technology
10.20 Refurbished transport, handling and assembly technology

Technologies for transport, handling and assembly technology
10.21.1 Technological projects for transport, handling and assembly technology
10.21.2 Technological supplies for transport, handling and assembly technology
10.22 Execution of investment units for transport, handling and assembly technology

Packaging materials and packages, packaging machines for the industry
10.23.1 Materials for the production of packages
TRANSPORTATION, HANDLING, INDUSTRIAL PACKING, WAREHOUSING AND LOGISTICS

10.23.2 Packages for industrial packaging
10.23.2.1 Anticorrosive paper

10.23.3 Packing machines and equipment
10.23.3.1 Barrier film packaging machines
10.23.3.2 Machines for container forming, filling and sealing
10.23.3.3 Group packaging machines

10.23.4 Marking machines and equipment for packaging
10.23.5 Turn-key packaging solutions

10.23.6 Custom-made packaging
10.23.6.1 Packaging of two or more products into one pack (copacking)

10.23.9 Packaging materials and packages, packaging machines for the industry – other

Services by carriers and forwarding agents

10.24.1 Domestic freight traffic
10.24.1.1 Road domestic freight traffic
10.24.1.2 Railway domestic freight traffic
10.24.1.3 Air domestic freight traffic
10.24.1.4 Ship domestic transport
10.24.1.5 Combined domestic freight traffic

10.24.2 International freight traffic
10.24.2.1 International road freight traffic
10.24.2.2 International railway freight traffic
10.24.2.3 International river transport
10.24.2.4 Sea transport
10.24.2.5 International air freight traffic
10.24.2.6 Combined international freight traffic
10.24.2.6.1 Ferry transport

10.24.3 Special loads transport
10.24.3.1 Transport of heavy and oversize loads
10.24.3.2 Transport of dangerous loads based on ADR

10.24.4 Tubular transport
10.24.5 City logistics

10.24.6 Storage rooms and storing services
10.24.6.1 Public customs storage rooms

10.24.7 Packing of transport consignments
10.24.7.1 Arranging freight handling units

10.24.8 Forwarding services
10.24.8.1 Domestic forwarding services
10.24.8.2 International forwarding services

10.24.9 Collecting services
10.24.10 Loading and securing services in transport

10.24.11 Customs services
10.24.11.1 Border clearance services

10.24.12 Express transport of lump consignments
10.24.12.1 Courier services

10.24.99 Services by carriers and forwarding agents – other

Freight terminals
10.25.1 Airports
10.25.2 Harbours
10.25.2.1 River ports
10.25.2.2 Sea harbours
10.25.3 Container transshipment terminal

10.25.4 Logistic (distribution) centers, areals
10.25.4.1 Logistic providers

Services in transport

10.26.1 Services for truck crews abroad
10.26.1.1 Technical assistance to truck crews
10.26.1.2 Legal assistance to truck crews
10.26.1.3 Credit cards

10.26.2 Insurance in transport

10.26.3 Postal services

10.26.4 Providing permits for special load transport abroad

10.26.5 Banking services in transport

10.26.99 Services in transport – other

Telematics, communication, information and control systems in logistics

10.27.1 Printing, labelling and marking equipment
10.27.1.1 Bar code printers

10.27.2 Data collecting equipment
10.27.2.1 Data collecting terminals
10.27.2.1.1 Mobile (hand) terminals for data records

10.27.3 Communication equipment for storage rooms and logistics
10.27.3.1 Wireless communication equipment for storage rooms and logistics

10.27.4 Identification equipment and systems
10.27.4.1 Bar code based identification equipment and systems
10.27.4.2 RFID based identification equipment and systems
10.27.4.3 RTLS (Real Time Location Systems) and their accessories

10.27.5 Dashboard PCs and their peripherals

10.27.6 GPS (Global Positioning System)

10.27.7 Navigation systems

10.27.8 Systems for tracing vehicle movement
10.27.8.1 Localization by means of GSM networks

10.27.9 Satellite systems for truck traffic control
10.27.10 Geographic information systems (GIS)

10.27.11 Software for transport, storage and materials handling
10.27.11.1 Application software for transport and forwarding
10.27.11.1.1 Vehicle log book
10.27.11.1.2 Software for tracing consignment movement
10.27.11.1.3 Software for elaborating forwarding contracts
10.27.11.1.4 Transport and forwarding data bases

10.27.12 Software for label printing

10.27.13 Software for enterprise resource planning – ERP
10.27.13.1 Software for Business Intelligence (BI)
10.27.13.2 Software for supply chain management – SCM
10.27.13.3 Software for customer relationship management – CRM
10.27.13.4 Software for order flow management and for production automation
10.27.99 Telematics, communication, information and control systems for logistics – other

Literature, consultancy, training, service in transport and logistics
10.28.1 Professional literature and periodicals for transport and logistics
10.28.2 Technical information in logistics
10.28.3 Consultancy in transport and distribution
10.28.4 Consultancy in customs affairs
10.28.5 Consultancy in dangerous loads transport
10.28.6 Drivers' training
10.28.7 Services for railway engineering
10.28.8 Consultancy in organizing assembly lines
10.28.9 Logistic system audit
10.28.10 Training, education and requalification in logistics and transport
10.28.11 Customer solutions of storing equipment
10.28.12 Design of logistic systems
10.28.13 Reengineering of logistic systems
10.28.14 Outsourcing of logistic systems
10.28.15 Turnkey supplies of logistic systems
10.28.16 Finance and insurance in logistics and transport
10.28.17 Information and service equipment for passengers' transport
10.28.18 Security services in storage and transport
10.28.99 Literature, consultancy, training, service in transport and logistics – other

10.29 Research and development in logistics and transport
10.29.1 Simulation and planning models in logistics, design process optimizing
10.29.2 Accredited laboratories for logistics and transport

10.30 Organizations, associations, unions for logistics and transport
### Machine tools

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

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

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

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

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

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

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

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

#### Grinding machines
- **11.1.10.1** Horizontal spindle surface-grinding machines
- **11.1.10.2** Vertical spindle surface-grinding machines
- **11.1.10.3** Universal spindle surface-grinding machines (with adjustable wheelhead)
- **11.1.10.4** Horizontal surface-grinding machines with rotary table
- **11.1.10.5** Vertical surface-grinding machines with rotary table
- **11.1.10.6** Plain cylindrical grinding machines
- **11.1.10.7** Production plain cylindrical grinding machines with possible recess grinding (for lot production)
- **11.1.10.8** Internal grinding machines
- **11.1.10.9** Universal grinding machines
11.1.10.10 Centreless grinding machines
11.1.10.11 Copying grinding machines
11.1.10.12 High speed grinding machines
11.1.10.13 Abrasive band grinding machines
11.1.10.14 Double-spindle surface-grinding machines
11.1.10.15 Jig grinding machines
11.1.10.16 Automatic grinding machines with tool magazine (grinding centres)

**Special purpose grinding machines**

11.1.11.1 Electrolytic grinding machines
11.1.11.2 Superfinishing grinding machines
11.1.11.3 Profile grinding machines
11.1.11.4 Cylindrical grinding machines
11.1.11.5 Oval grinding machines
11.1.11.6 Polygon grinding machines
11.1.11.7 Spline grinding machines
11.1.11.8 Calliper gauge grinding machines (surfaces, parallelity)
11.1.11.9 Centre hole grinding machines
11.1.11.10 Slideway shaft grinding machines
11.1.11.11 Cam grinding machines
11.1.11.12 Camshaft grinding machines
11.1.11.13 Crankshaft grinding machines
11.1.11.14 Valve grinding machines
11.1.11.15 Piston grinding machines
11.1.11.16 Axle journal grinding machines
11.1.11.17 Roller bearing race grinding machines
11.1.11.18 Grinding machines with flexible shaft
11.1.11.99 Special purpose grinding machines - other

**Tool grinding and sharpening machines**

11.1.12.1 Universal tool and cutter grinding machines
11.1.12.2 Single point cutting tool sharpening machines
11.1.12.3 Carbide tool sharpening machines
11.1.12.4 Broaching tool sharpening machines
11.1.12.5 Twist drill sharpening machines
11.1.12.6 Cutter and reamer sharpening machines
11.1.12.7 Sharpening machines for saw blades
11.1.12.8 Gear cutting tool sharpening machines
11.1.12.9 Tap grinding machines
11.1.12.10 Tool sharpening and lapping machines
11.1.12.11 Threading die and chaser grinding machines
11.1.12.12 Milling head sharpening machines
11.1.12.13 Shear blade and machine knife sharpening machines
11.1.12.14 Swing-frame grinding machines
11.1.12.99 Tool grinding and sharpening machines – other

**Grinding tools and accessories**

11.1.13.1 Bonded abrasives
11.1.13.2 Coated abrasives
11.1.13.3 Grinding and polishing pastes
11.1.13.4 Abrasive products with diamond
11.1.13.5 Grinding and polishing wheels, discs and belts
11.1.13.6 Synthetik diamond powder
11.1.13.7 Superfinishing materials
11.1.13.8 Blast media
11.1.13.99 Grinding tools and accessories - other

**Honing, lapping, polishing and deburring machines**

11.1.14.1 Honing machines
11.1.14.2 Cylinder honing machines
11.1.14.3 Surface lapping and cylindrical lapping machines
11.1.14.4 Lapping machines - other
11.1.14.5 Polishing machines, abrasive belt
11.1.14.6 Polishing machines, abrasive disc
11.1.14.7 Centreless polishing machines
11.1.14.8 Double ended grinding and polishing machines
11.1.14.9 Grinding, polishing and tumbling barrels
11.1.14.10 Grinding vibrators
11.1.14.11 Deburring machines
11.1.14.12 Polishing machines - other
11.1.14.13 Electromechanical deburring machines
11.1.14.14 Thermal deburring machines
11.1.14.15 Ultrasonic polishing machines

**Special production machines and modular units**

11.1.15.1 Special production machines with rotating tools
11.1.15.2 Rotary indexing table machines
11.1.15.3 Positioning units with rotary table and drum
11.1.15.4 Transfer lines
11.1.15.5 Special production machines - other
11.1.15.6 Turning units
11.1.15.7 Drilling units
11.1.15.8 Milling units
11.1.15.9 Special modular units - other
11.1.15.10 Finishing machines - centring and end facing

**Electroerosion machine tools**

11.1.16.1 Electrochemical machine tools
11.1.16.2 Electrolytic machine tools

**Forming machines**

11.1.17.1 Laser tube and profile processing machine tools
11.1.17.2 Laser metal sheet processing machine tools
11.1.17.3 Laser cutting machines

**Micro-machine tools**

11.1.18.1 Machine tools with parallel kinematic structure
11.1.19.1 Machine tools - other

**Honing, lapping, polishing and deburring machines**

11.1.2.1.1 Open gap non-inclindable eccentric presses
11.1.2.1.2 Inclindable eccentric presses
11.1.2.1.3 Straight sided presses
11.1.2.1.4 Two-point crank presses
11.1.2.1.5 Toggle lever presses
11.1.2.1.6 Crank presses
11.1.2.1.7 Transfer presses
11.1.2.1.8 Mechanical table presses
11.1.2.1.9 High-duty mechanical presses with automatic feed

**Hydraulic presses**

11.1.2.2.1 Double-action presses
11.1.2.2.2 Double- and four-column hydraulic presses
11.1.2.2.3 Wide frame drawing presses
11.1.2.2.4 Hydraulic transfer presses
11.1.2.2.5 Hydraulic table presses
11.1.2.2.6 Straight double sided presses
11.1.2.2.7 Open gap presses
11.1.2.2.8 Embossing/stamping hydraulic presses
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**Forging machines and hammers**
- 11.2.4.1: Hammers
- 11.2.4.2: Forging machines and presses
- 11.2.4.3: Automatic transfer forging machines
- 11.2.4.9:9.9 Forging machines and hammers - other

**Bar, section and tube working machines**
- 11.2.5.1: Straightening machines
- 11.2.5.2: Bar and section bending machines
- 11.2.5.3: Bending machines for reinforcing bars
- 11.2.5.4: Roller finishing and deep rolling machines
- 11.2.5.5: Section roll bending machines
- 11.2.5.6: Ring rolling machines
- 11.2.5.7: Tube forming, welding and cutting-off machines
- 11.2.5.8: Tube bending machines
- 11.2.5.9: Tube reducing and flaring machines
- 11.2.5.10: Tube finishing machines
- 11.2.5.11: Automatic transfer bar, profile and tube forming lines
- 11.2.5.99: Bar, section and tube working machines - other

**Wire forming machines**
- 11.2.6.1: Wire drawing machines
- 11.2.6.2: Wire straightening and cutting-off machines
- 11.2.6.3: Wire bending machines
- 11.2.6.4: Spring coiling machines and devices
- 11.2.6.5: Chain making machines
- 11.2.6.6: Wire netting and weaving machines
- 11.2.6.7: Threaded, screwing and bolt rolling machines
- 11.2.6.8: Rope and cable making machines
- 11.2.6.9: Nail making machines
- 11.2.6.99: Wire forming machines - other

**Bolt, screw, nut and rivet making machines**
- 11.2.7.1: Hot and cold pressing machines for bolts and screws
- 11.2.7.2: Bolt shears
- 11.2.7.3: Bolt and screw chamfering machines
- 11.2.7.4: Nut presses
- 11.2.7.5: Nut tapping machines
- 11.2.7.6: Screw and bolt threading machines
- 11.2.7.7: Thread, screw and bolt rolling machines
- 11.2.7.8: Screw head turning and slotting machines
- 11.2.7.9: Bolt, nut and rivet deburring (trimming) machines
- 11.2.7.10: Wood screw making machines
- 11.2.7.11: Multistation-Partformer
- 11.2.7.99: Bolt, screw, nut and rivet making machines - others

**Sheets working machines, laser based equipment**
- 11.2.8.1: Sheet metal machining centers, incl. laser based machines or plasma units
- 11.2.8.2: Nibbling machines
- 11.2.8.3: Strip levelling and cutting-off machines
- 11.2.8.4: Cutting-to-length and slitting lines
- 11.2.8.6: Sheet forming machines
- 11.2.8.7: Sheet metal forming machines
- 11.2.8.8: Spinning machines
- 11.2.8.9: Swing-arm bending machines
- 11.2.8.10: Mechanical press brakes
- 11.2.8.11: Hydraulic press brakes
- 11.2.8.12: Sheet bending rolls
- 11.2.8.13: Knurling, flanging, ribbing and curling machines
- 11.2.8.14: Seaming machines
- 11.2.8.15: Marking machines
- 11.2.8.16: Can making machines
- 11.2.8.17: Riveting machines
- 11.2.8.18: Winding devices
- 11.2.8.19: Pressure compression and joining machines and tools
- 11.2.8.99: Sheet working machines, laser based equipment - other

**Forging machines and hammers**
- 11.2.9.9:9.9 Forging machines and hammers - other

**Bar, section and tube working machines**
- 11.2.9.1: Swing-armed bending machines
- 11.2.9.2: Mechanical press brakes
- 11.2.9.3: Hydraulic press brakes
- 11.2.9.12: Sheet bending rolls
- 11.2.9.13: Knurling, flanging, ribbing and curling machines
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- 11.2.9.18: Winding devices
- 11.2.9.19: Pressure compression and joining machines and tools
- 11.2.9.99: Sheet working machines, laser based equipment - other

**Machines for unconventional and special machining and forming technologies**
- 11.3.1: Rapid prototyping devices
- 11.3.2: Ultrasonic machine tools
- 11.3.3: Water jet cutting machines
- 11.3.4: Electron beam working machines
- 11.3.5: Plasma beam working machines
- 11.3.6: Machines for unconventional machining - other
- 11.3.7: Laminating (sandwiching) machines and equipment for composites
- 11.3.8: Die casting machines
- 11.3.9: Longitudinal and circular dividing machines
- 11.3.10: Finishing (make-up) machines
- 11.3.11: Embossing, stamping and marking equipment
- 11.3.12: Laser lettering machines
- 11.3.13: Coating machines
- 11.3.99: Machines for unconventional and special machining and forming technologies - other

**Quality control for machining and forming sector**

| Measuring and checking instruments for machining and forming |
|---------------|------------------|
| 11.4.1.1: | Length measuring instruments for machining and forming |
| 11.4.1.2: | Angle and inclination measuring instruments for machining and forming |
| 11.4.1.3: | Vibration measuring instruments for machining and forming |
| 11.4.1.4: | Speed measuring instruments for machining and forming |
| 11.4.1.5: | Surface quality measuring instruments for machining and forming |
| 11.4.1.6: | Layer thickness measuring instruments for machining and forming |
| 11.4.1.7: | Noise level measuring instruments for machining and forming |
| 11.4.1.8: | Temperature measuring instruments for machining and forming |
| 11.4.1.9: | Force and torque measuring instruments for machining and forming |
| 11.4.1.10: | Clamping force measuring instruments for machining and forming |
| 11.4.1.11: | Pressure measuring instruments for machining and forming |
11.4.1.12 Profile and shape measuring instruments for machining and forming
11.4.1.13 Thread measuring instruments for machining and forming
11.4.1.14 Circularity measuring instruments for machining and forming
11.4.1.15 Gauges and meters for machining and forming
11.4.1.16 Measuring and testing devices, machining and forming standards
11.4.1.17 Mechanical precision measuring instruments for machining and forming
11.4.1.18 Optical precision measuring instruments for machining and forming
11.4.1.19 Electric precision measuring instruments for machining and forming
11.4.1.20 Electronic precision measuring instruments for machining and forming
11.4.1.21 Pneumatic precision measuring instruments
11.4.1.22 Laser measuring instruments for machining and forming
11.4.1.23 Measured value transducers for machining and forming
11.4.1.24 Measured value amplifiers for machining and forming
11.4.1.25 Measuring tables for machining and forming
11.4.1.26 Digital read out systems
11.4.1.27 Breakage and wear detection systems
11.4.1.28 Measuring microscopes for machining and forming
11.4.1.29 Surface plates and flatness testing equipment

**Measuring machines**

11.4.2.1 Measuring and marking machines
11.4.2.2 Computerized measuring machines for machining and forming sector
11.4.2.3 Tool setting devices
11.4.2.4 Hob testing instruments
11.4.2.5 Gear testing equipment
11.4.2.6 Sorting machines and equipment
11.4.2.7 Measuring robots
11.4.2.8 Measuring machines for lot production in machining and forming sector
11.4.2.9 Measuring projectors
11.4.2.10 Coordinate and multicoordinate measuring machines
11.4.2.11 Systems for 3D scanning
11.4.2.12 Measuring machine accessories

**Testing machines for machining and forming sector**

11.4.3.1 Testing machines for tension, compression, bending and other features
11.4.3.2 Tension testing machines
11.4.3.3 Pendulum impact testing machines
11.4.3.4 Drop hammers for material testing
11.4.3.5 Hardness testing machines and devices
11.4.3.6 Spring testing machines
11.4.3.7 Material fatigue testing machines (tension, compression, bending)
11.4.3.8 Torsion testing machines
11.4.3.9 Deep-drawing testers
11.4.3.10 Machines and devices for non-destructive material testing
11.4.3.11 Gear testing machines
11.4.3.12 Balancing machines for machining and forming
11.4.3.13 Electronic balancing equipment for machining and forming
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11.4.4.2 Video systems and endoscopes
11.4.4.3 Sensor systems for image and signal pattern recognition for machining and forming sector
11.4.4.4 Visual geometry measuring devices
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11.4.5.1 Software for acquisition of measured electrical data in machining and forming sector
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**Computer systems and peripherals for flexible manufacturing systems**

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11.5.1.2 Turbine computer systems for flexible manufacturing systems
11.5.1.3 CAD workstations
11.5.1.4 Servers for flexible manufacturing systems
11.5.1.5 Data network elements for flexible manufacturing systems
11.5.1.6 Communication adapters
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11.5.1.8 Input devices for flexible manufacturing systems
11.5.1.9 Interactive terminals for flexible manufacturing systems
11.5.1.10 Digitizers, tablets for flexible manufacturing systems
11.5.1.11 Scanners for flexible manufacturing systems
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11.5.2.2 Software for TPV and PDM (Product Data Management)
11.5.2.3 Software for CNC control
11.5.2.4 Software for PLC control
11.5.2.5 Software for calculation of stress analysis, dynamic design and heat balance by the finite-element method
11.5.2.6 Software for electrical design
11.5.2.7 Software for production planning and management in flexible manufacturing systems
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## 11.6. Precision tools

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**11.6.2.10** Thread cutting tools (forming)

**11.6.2.10.1** Heads for thread cold rolling

**11.6.2.11** Roller burnishing tools, smoothing and straining tools

**11.6.2.12** Drawing dies

**11.6.2.13** Die blocks

**11.6.2.14** Deep drawing dies

**11.6.2.15** Forming tools coated

**11.6.2.16** Quick-action fixtures for press tools

**11.6.2.17** Press tool changing systems

**11.6.2.18** Special tools for forming

**11.6.2.19** Die-casting dies

**11.6.2.20** Guide racks

**11.6.2.21** Standardized parts for forming tools and moulds (punching, stamping tools, posts, sleeves)

**11.6.2.22** Wedge units

**11.6.2.99** Forming tools - other

---

**Accessories for metal working and forming**

**11.7.1.1** Lubricating oils and consumables for metal working and forming machines

**11.7.1.2** Coolants and lubricants

**11.7.1.3** Central lubricating systems

**11.7.1.4** Oiling and greasing systems

**11.7.1.5** Cooling systems

**11.7.1.6** Separators for coolants and lubricants, filters, centrifuges

**11.7.1.7** Metal cleaning and deoiling devices

**11.7.1.8** Spraying attachment for forging machines

**11.7.1.9** Cask cleaning equipment

**11.7.1.10** Coolant hoses

---

**11.7.2.1** Exhaust systems in machining and forming sector

**11.7.2.2** Dust collection equipment, filtering systems, filters

**11.7.2.3** Wastewater treatment equipment and components in machining and forming sector

**11.7.2.4** Water treatment equipment and components in machining and forming sector

**11.7.2.5** Emulsion recovery equipment

**11.7.2.6** Processing of coolants and lubricants

**11.7.2.7** Oil separation, oil mist separation

**11.7.2.8** Waste oil collecting tanks

**11.7.2.9** Filtration, ultrafiltration

**11.7.2.10** Chip breakers

**11.7.2.11** Chip conveyors

**11.7.2.12** Chip briquetting presses

**11.7.2.13** Oil recovery equipment (chip separators)

**11.7.2.14** Tipping containers for chip removal

**11.7.2.15** Industrial dust collectors for cleaning of machines

**11.7.2.16** Process water treatment for superfinishing systems

---

**Tool systems**

**11.6.4.1** Tool systems, modular

**11.6.4.2** Tool turrets

**11.6.4.3** Tool magazines and magazines

**11.6.4.4** Tool management software

**11.6.4.5** Multi-spindle heads

**11.6.4.6** Boring and facing heads

**11.6.4.7** Magnetic fixing plates

**11.6.4.8** Vacuum fixing plates

**11.6.4.9** Manual fixing plates

**11.6.4.10** Chip conveyors

**11.6.4.11** Chip conveyors

**11.6.4.12** Chip breaking units

**11.6.4.13** Chip breakage identification devices

**11.6.4.14** Tool measuring and setting units

**11.6.4.15** Tool maintenance systems

**11.6.4.22** Spherical turning attachments

**11.6.4.99** Tool systems - other

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**Precision tools - other**

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**Lubrication and cooling of metal working and forming machines**

**11.6.99** Precision tools - other

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**Waste disposal in machining and forming sector**

**Mechanical components and accessories for construction of machine-tools and forming machines**

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**Mechanical components and accessories for construction of machine-tools and forming machines**

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### 11.7.99 Accessories for metal working and forming - other

#### 11.8.1 Spare parts for machine tools

11.8.2 Spare parts for forming machines

#### 11.8.3 General overhauls of machine tools and forming machines

11.8.3.1 General overhauls of machine tools

11.8.3.2 General overhauls of metal forming machines

#### 11.8.4 Redesign and upgrading of machine tools and metal forming machines

11.8.4.1 Upgrading of el. equipment of machine tools and metal forming machines

11.8.4.2 Upgrading of peripheral units for NC and CNC machines

11.8.4.3 Redesign and upgrading of machine tools

11.8.4.4 Redesign and upgrading of metal forming machines

11.8.5 Reworked machine tools

11.8.6 Reworked metal forming machines

11.8.99 Service and repairs of metal working and forming machines, reworked machines - other

#### Hand tools

**Hand-operated tools**

11.9.1 **Pneumatic hand-operated tools**

11.9.1.1 Hand-operated pneumatic drills

11.9.1.2 Hand-operated pneumatic thread-cutting machines

11.9.1.3 Hand-operated pneumatic nut runners and screwdrivers

11.9.1.4 Hand-operated pneumatic grinding machines, angle grinders and polishing machines

11.9.1.5 Hand-operated pneumatic shears

11.9.1.6 Manual pneumatic rivet guns

11.9.1.99 Pneumatic hand-operated tools - other

11.9.2 **Electric hand-operated tools, incl. cordless programme**

11.9.2.1 Hand-operated electric drills and hammers

11.9.2.2 Hand-operated electric grinders, angle grinders and polishing machines

11.9.2.3 Hand-operated electric saws, shears and milling machines

11.9.2.4 Hand-operated electric nut runners, screwdrivers and threading machines

11.9.2.5 Hand-operated electric staplers

11.9.2.6 Manual electric rivet guns

11.9.2.7 Microtools

11.9.2.99 Electric hand-operated tools, incl. cordless programme - other

11.9.3 **Hand-operated hydraulic tools**

11.9.4 **Hand-operated tools driven by internal combustion engine**

11.9.5 **Mobile and suspension hand-operated tools**

11.9.99 **Hand-operated tools – others**

**Manual non-mechanized tools**

11.10.1 Hand hammers

11.10.2 Pliers, alligator wrenches

11.10.3 Manual deburring tools, files

11.10.4 Chisels, axes

11.10.5 Screwdrivers

11.10.6 Wrenches, torque wrenches

11.10.7 Hand cutting tools

11.10.8 Vices

11.10.9 Clamps (cramps)

11.10.10 Pulleys/removers

11.10.11 Gases and bags for tools

11.10.99 Manual non-mechanized tools – other

**Institutions, literature and services in metal working and forming sector**

11.11.1 Associations, organizations in metal-working and forming sector

11.11.2 Technical publishing houses, literature, specialized periodicals

11.11.3 Consultancy in the field of machine tools and metal-forming machines

11.11.3.1 Consultancy in the field of machine tools

11.11.3.2 Consultancy in the field of metal-forming machines

11.11.4 Engineering and design services in the field of machine tools and metal-forming machines

11.11.4.1 Engineering and design services in the field of machine tools

11.11.4.2 Engineering and design services in the field of metal-forming machines

11.11.5 Technologies for metal working and forming

11.11.5.1 Technological projects for metal working and forming

11.11.5.2 Technological deliveries for metal working and forming

11.11.6 Custom manufacture of single-purpose machine tools and metal forming machines

11.11.6.1 Custom manufacture of single-purpose machine tools

11.11.6.2 Custom manufacture of single-purpose metal forming machines

11.11.7 Execution of investments in the field of metal working and forming

11.11.8 Business services in the field of machine tools and metal forming machines

11.11.9 Leasing of metal working and forming machines

11.11.10 Custom coating of metal cutting and forming tools

11.11.11 Custom tool renovation and reconditioning

11.11.11.1 Compression mould refurbishment

11.11.12 Reverse engineering services

11.11.13 Custom rapid prototyping

11.11.14 Offer of production capacities in the metal-working and forming sector

11.11.14.1 Custom material cutting

11.11.14.2 Custom sheet-metal processing

11.11.14.3 Custom metal-working manufacturing

11.11.14.4 Offer of production capacities in the metal working sector
11.11.14.1 Custom CNC machining
11.11.14.2 Custom high-speed (HSC) machining
11.11.14.3 Custom machining of hard-to-work materials
11.11.14.4 Custom laser marking, lettering, engraving
11.11.14.5 Custom piece polishing

11.11.14.5 Offer of production capacities in the metal forming sector

11.11.99 Institutions, literature and services in metal working and forming sector - other

11.99 Metal working and forming machines, manual tools – other
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### Equipment and accessories for finishing raw castings

- Equipment and accessories for surface cleaning of castings
- Gating and feeding system separator equipment and accessories

### Equipment and materials for welding, cutting and repairs of castings

### Equipment and materials for treatment and machining of castings

### Air conditioning for foundries

### Transport and storage equipment for the foundry industry

### Robots, manipulators, handling equipment and their accessories for the foundry industry

### Control and regulation technology for the foundry industry

### Measuring and testing technology for the foundry industry

### Scales and weighing systems for foundries

### Computer equipment, control, calculations, simulation

- CAD, CAM, CIM for foundry industry

### Environment protection and waste disposal in the foundry industry waste

### Cast iron castings

### Grey cast iron castings

### Nodular cast iron castings

### Mallealizing cast iron castings

### Compacted graphite cast iron castings

### White cast iron castings

### Hardened cast iron castings

### Alloyed cast iron castings

### Carbon steel castings

### Alloy steel castings

### Low-alloy steel castings

### Medium-alloy steel castings

### High-alloy steel castings

### Corrosion-proof steel castings

### Heat-resistant steel castings

### Wear-resistant steel castings

### Aluminium alloy castings

### Magnesium alloy castings

### Copper alloy castings

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### Nonferrous metal and alloy castings – other

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### Research, services, institutions, literature for foundry industry

### Research in area of the foundry industry

### Offer of manufacturing capacities in area of the foundry industry

### Manufacturing patterns to order

### Manufacturing cores to order

### Manufacturing moulds to order

### Manufacturing castings to order

### Consultancy in area of the foundry industry

### Engineering and design services in area of the foundry industry

### Service and repairs of machines and equipment in the foundry industry

### Spare parts for machines and equipment in the foundry industry

### Refurbishment and modernization of machines and equipment for the foundry industry

### Overhauled machines and equipment for the foundry industry

### Manufacturing of prototype and single-purpose equipment for the foundry industry

### Technology for the foundry industry

### Turn-key implementation of new technology processes in the foundry industry

### Execution of investment projects for the foundry industry

### Professional literature, periodicals in area of the foundry industry

### Institutions and organizations in area of the foundry industry

### Vocation schools in area of the foundry industry

### Professional courses and education in area of the foundry industry

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Research, services and institutions in welding, cutting, soldering and metal bonding
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15.4.2.19 Large tanks, silos, containers

15.4.2.20 Vessels, barrels, canisters, bottles

15.4.2.21 Pallets, crates, containers, cases, boxes, packs, trays

15.4.2.22 Ropes, cords, binding straps

15.4.2.23 Filters

15.4.2.24 Mesh screens

15.4.2.25 Linings and panelling of plants, equipment for transport and storage of bulk and abrasive materials

15.4.2.26 Masts

15.4.2.27 Sound protecting, thermal and waterproofing parts, panels and fillings

15.4.2.28 Facade lining and decorative panels, roofing

15.4.2.29 Electric insulation boards and components

15.4.2.30 Oversize and small boxes, covers and lids

15.4.2.31 Filets, furniture strips and components

15.4.2.32 Sacks, bags

15.4.2.33 Cups, mugs, plates, trays and kitchen utensils

15.4.2.34 Floor coverings, industrial carpets

15.4.2.35 Synthetic leather, plastic coated paper or textile products

15.4.2.36 Pressed plastic constructional units

15.4.3 Plastic constructional units

15.4.3.1 Injection moulded plastic constructional units

15.4.3.2 Pressed plastic constructional units

15.4.3.3 Blown plastic constructional units

15.4.3.4 Structural parts of thermoformed plastics

15.4.3.5 Expanded plastic structural parts

15.4.3.6 Structural parts of polycarbonates

15.4.3.7 Polyamide structural parts

15.4.3.8 Polyoxyymethylene structural parts

15.4.3.9 Structural parts with inserts

15.4.3.10 Reinforced structural parts

15.4.3.11 Plastic machined structural parts

15.4.3.12 Sliding and wear-resistant structural parts

15.4.3.99 Plastic constructional units – other

15.4.4 Plastic parts and products for selected industries and end users

15.4.4.1 Plastic parts and products for mechanical engineering

15.4.4.2 Plastic parts and products for transport

15.4.4.3 Plastic parts and products for the automotive industry

15.4.4.3.1 Motor vehicle components for interior fittings

15.4.4.3.2 Motor vehicle components for exterior fittings

15.4.4.3.3 Plastic parts for vehicle driving sets

15.4.4.4 Plastic parts and products for power engineering

15.4.4.5 Plastic parts and products for the building industry

15.4.4.6 Plastic parts and products for the environment protection

15.4.4.7 Plastic parts and products for agriculture

15.4.4.8 Plastic parts and products for the food industry

15.4.4.9 Plastic parts and products for the printing and packaging industries

15.4.4.10 Plastic parts and products for electrical engineering

15.4.4.11 Plastic parts and products for electronics

15.4.4.12 Plastic parts and products for information and communication technologies and office machinery

15.4.4.13 Plastic parts and products for health services

15.4.4.14 Plastic parts and products for the textile and clothing industries

15.4.4.15 Plastic parts and products for the furniture-making industry

15.4.4.16 Plastic parts and products for home appliances, households

15.4.4.17 Plastic parts and products for school and office supplies

15.4.4.18 Plastic parts and products for garden, garden appliances

15.4.4.19 Plastic parts and products for games, hobbies, sports, leisure time

15.4.4.20 Plastic parts and products for advertising, promotional items

15.4.4.99 Plastic parts and products for selected industries and end users – other

15.4.5 Semi-finished and finished products made of polyurethane elastomers

15.4.5.1 Rubber boards, blocks

15.4.5.2 Rubber sections

15.4.5.3 Rubber fibres, ropes

15.4.5.4 Rubber hoses

15.4.5.5 Rubber flooring

15.4.5.6 Rubber V-belts, indented belts

15.4.5.7 Rubber conveyor belts

15.4.5.8 Rubber bellows, sleeves, covers, rings

15.4.5.9 Rubber dilatation compensators

15.4.5.10 Rubber-metal

15.4.5.11 Shaft seal rings

15.4.5.12 Rubber seals

15.4.5.13 Rubber vibration dampers

15.4.5.14 Silentblocks

15.4.5.15 Shaped rubber products

15.4.5.16 Rubber textile products

15.4.5.17 Rubber wheels

15.4.5.18 Solid rubber wheels

15.4.5.19 Cellular rubber products

15.4.5.20 Tyres and tubes

15.4.5.21 Rubber containers and bags

15.4.5.22 Rubber-coated cylinders

15.4.5.23 Articles produced by dipping

15.4.5.24 Ebonite products

15.4.5.98 Rubber components for automotive applications of all kinds

15.4.5.99 Semi-finished and finished rubber-based products – other

15.4.6 Machines and equipment for recycling and use of plastic and rubber waste materi als

15.4.6.1 Mills and crushers for plastic waste

15.4.6.1.1 Cryogenic mills and crushers for plastic and rubber waste

15.4.6.1.2 Tyre crushers

15.4.6.2 Machines, equipment and technologies for separation of contaminating materials from plastic and rubber waste

15.4.6.3 Technologies, machines and equipment for chemical and thermal recycling of waste polymer materials
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15.6.4 Solid waste processing lines (plastics, cables, tyres)
15.6.5 Plastic re-granulates and waste (HDPE, LDPE, PP, PS, PVC, PUR)
15.6.6 Recycled elastomer materials
15.6.7 Consultancy in recycling and use of plastic and rubber waste materials
15.6.99 Machines and equipment for recycling and use of plastic and rubber waste materials – other

Computer, testing and measuring technologies for plastics and rubbers

15.7.1 Control systems for plastics and rubber enterprises
15.7.2 Statistical Process Control (SPC) systems for long-term monitoring of production processes and quality
15.7.3 CAD, CAM and CIM for plastics and rubber plants
15.7.3.1 CAD systems for injection processes analysis and optimization
15.7.3.2 Regulation system for melt flow in the mould
15.7.4 Development software for designers
15.7.5 Pick-up sensors of dimensions, pressure, temperature and forces in plastics and rubber processing machines
15.7.6 Measuring equipment for length, thickness and surface geometry of plastic components
15.7.6.1 Systems for 2D and 3D scanning of complex shapes
15.7.7 Rheometers, plasmometers, viscosimeters
15.7.8 Temperature measuring instruments for manufacture and processing of plastics and rubbers
15.7.9 Thermomechanical analysers
15.7.10 Measuring instruments of optical properties of plastics and rubbers
15.7.11 Multiparameter measuring stations
15.7.12 Material thermostability testers
15.7.13 Testers of mechanical and dynamic ruggedness of materials
15.7.99 Computer, testing and measuring technologies for plastics and rubbers – other

Research, services and institutions in plastics and rubbers sector

15.8.1 Research in plastics and rubbers
15.8.2 Custom plastic and rubber components manufacture
15.8.2.1 Custom plastic components manufacture
15.8.2.2 Custom rubber components manufacture
15.8.2.3 Custom adjustments and assembly of components
15.8.3 Consultancy in plastics and rubber manufacturing
15.8.4 Engineering and design services for plastics and rubber manufacturing
15.8.5.1 Service and repairs of machines for plastics and rubber industries
15.8.5.2 Renovation of moulds, screws, chambers and cylinders
15.8.5.3 Turnkey systems of general overhauls of machines for plastics and rubber industries
15.8.5.4 Reconstruction and modernisation of machines for plastics and rubber industries
15.8.6 Refurbished machines for plastics and rubber industries
15.8.7 Manufacture of prototype and single-purpose equipment for plastics and rubber industries
15.8.8 Technologies for plastics and rubber industries
15.8.8.1 Technology projects for plastics and rubber industries
15.8.8.2 Technology supplies to plastics and rubber industries
15.8.9 Execution of investment projects in plastics and rubber industries
15.8.10 Financial services, leasing for plastics and rubber industries
15.8.11 Technical literature and publications for plastics and rubber industries
15.8.12 Institutions and organisations in plastics and rubber industries
15.8.13 Vocational training schools for plastics and rubber industries
15.8.14 Vocational training courses and education for plastics and rubber industries
15.8.99 Research, services, institutions in plastics and rubbers sector – other

Chemistry for engineering

16.1 Equipment for the chemical industry
16.1.1 Tanks, vessels, pressure vessels for the chemical industry
16.1.1.1 Tanks and vessels of corrosion-proof steels for the chemical industries
16.1.1.2 Containers, barrels for storing of chemicals
16.1.2 Columns
16.1.2.1 Rectification columns
16.1.3 Filters for chemical production
16.1.3.1 Filters for liquid materials
16.1.3.2 Filters for gaseous materials
16.1.3.3 Filters with automatic cleaning of filter partition
16.1.3.4 Equipment for diaphragm technology, ultrafiltration and nanofiltration
16.1.4 Filtration systems for the chemical industry
16.1.4.1 Filtration systems for plastic and rubber melts
16.1.4.2 Filtration systems for the production of synthetic fibres
16.1.4.3 Filtration systems for plastic melt recycling
16.1.5 Mixing and kneading machines
16.1.5.1 Fluid mixing equipment
16.1.5.2 Static mixers
16.1.6 Crushers
16.1.7 Mills for the chemical industry
16.1.7.1 Colloid mills
16.1.7.2 Pulverizers
16.1.7.3 Screens for the chemical industry
16.1.8 Separators
16.1.8.1 Hydrocyclones
16.1.8.2 Devices for fluid separators
16.1.9 Air separators and screening machines
16.1.10 Dedusting equipment
16.1.11 Centrifuges
16.1.12 Evaporators, evaporating equipment
16.1.12.1 Vacuum evaporators
16.1.13 Homogenizers
16.1.14 Decanters
16.1.15 Crystallization equipment
16.1.16 Cleaning equipment for chemical engineering
16.1.17 Heat exchangers for chemical engineering
16.1.18 Industrial furnaces for chemical production
16.1.18.1 Tube furnaces for the chemical and refinery industries
16.1.18.2 High-temperature fluid-bed furnaces
16.1.19 Dosing equipment for chemical engineering
16.1.19.1 Continuous weighing equipment for the chemical industries
16.1.20 Transport equipment for chemical plants
16.1.21 Silos
16.1.22 Synthetic fibre production equipment
16.1.22.1 Synthetic fibre winders
16.1.22.2 Synthetic fibre spinning nozzles
16.1.23 Biochemical and biotechnological equipment
16.1.23.1 Fermentors
16.1.24 Process gas distribution
16.1.25 Process burners
16.1.26 Exhausting and dedusting equipment for the chemical industry
16.1.99 Equipment for the chemical industry – other
16.2 Machines and accessories for the chemical industry
16.2.1 Components and accessories for the chemical industry
16.2.2 Equipment for the petrochemical industry
16.2.2.1 Oil refinery equipment
16.2.3 Equipment for coal and tar processing
16.2.4 Natural gas processing equipment
16.2.5 Inorganic production equipment
16.2.6 Organic production equipment
16.2.7 Macromolecular material production
16.2.8 Coating substance production equipment
16.2.9 Agrochemical production equipment
16.2.10 Synthetic fibre production equipment
16.2.11 Explosive equipment
16.2.12 Equipment for pharmaceutical production
16.2.13 Granulate production machines
16.2.14 Machines for the production of soap and cleaning agents
16.2.15 Machines for cosmetic production
16.2.16 Cream, solution, suspension and emulsion processing equipment
16.2.17 Stearin, glycerol and candle production equipment
16.2.18 Equipment for the production and storing of technical gases
16.2.99 Machines and accessories for the chemical industry – other
16.3 Lubricants, oils
16.3.1 Lubricating greases for industry
16.3.2 Lubricating oils for industry
16.3.3 Oils for industrial transmissions
16.3.4 Hydraulic oils
16.3.5 Oils for rolling
16.3.6 Oils, emulsions, pastes for corrosion protection
16.3.7 Cooling lubricants and liquids
16.3.8 Working emulsions and cutting oils
16.3.9 Additives for lubricants
16.3.10 Environmental lubricants
16.3.11 Oils for the food industry
16.3.99 Lubricants, oils – other
16.4 Mineral oil regeneration equipment
16.4.1 Oil cleaning equipment, dehydrators
16.5 Corrosion and wear protection pastes
16.6 Sprays for metal surface finishing
16.7 Coating compositions
16.7.1 Synthetic coating compositions
16.7.2 Water soluble coating compositions
16.7.3 Powder paints
16.8 Colours, pigments
16.9 Enamels
16.10 Cements
16.11 Adhesives
16.11.1 Instantaneous adhesives
16.11.2 Two component adhesives (2K)
16.12 Adhesive tapes and films
16.13 Gases
16.13.1 Pure and rare gases and their mixtures
16.13.2 Technical gases in liquid and gaseous phase
16.14 Active carbon, charcoal, soot
16.15 Chemicals for industrial production
16.15.1 Chemicals for mechanical engineering
16.15.1.1 Solvents, thinners
16.15.1.2 Varnish / lacquer removers
16.15.1.3 Degreasing and cleaning liquids
16.15.1.4 Corrosion inhibitors
16.15.1.5 Moulding equipment
16.15.1.6 Heat-carrying media
16.15.1.7 Chemicals for chemical and heat processing of iron and steel
16.15.1.8 Treatment salts for light metals
16.15.1.9 Chemicals for electroplating
16.15.1.10 Mordants for metals
16.15.1.11 Antifoaming agents
16.15.1.12 Emulsifiers
16.15.1.13 Additive concentrates
16.15.1.14 Technical fungicides
16.15.1.99 Chemicals for mechanical engineering – other
16.16 Industrial explosives
16.17 CAD, CAM, CIM for chemical plants
16.18 Consultancy for chemical production
16.19 Engineering and design services for chemical production
16.20 Service and repairs of machines for the chemical industry
16.20.1 Diagnostics of machines for the chemical industry
16.20.2 Spare parts of machines for the chemical industry
16.20.3 Turnkey general overhauls in the chemical industry
16.20.4 Reconstruction and upgrading of machines in the chemical industry
16.21 Re-worked machines for the chemical industry
16.22 Technologies for the chemical industry
16.22.1 Technology projects for the chemical industry
16.22.2 Technology transfer for the chemical industry
16.22.3 Technology supplies for the chemical industry
16.23 Execution of investment projects for the chemical industry
16.24 Manufacture of prototype and single-purpose machines for the chemical industry
16.25 Assembly works in the chemical industry
16.30 Inorganic chemical semi-products and products
16.31 Catalysts
16.31.1 Catalyst carriers
16.32 Semi-products and products of organic chemistry
16.99 Chemistry for engineering – other