

STEEL SUPPLIERS INTERNATIONAL

SUPPLIER FOR THE INTERNATIONAL STEEL INDUSTRY FROM A TO Z

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List of Products

01 Raw materials, auxiliary materials and operating materials

01.01. Ores

- 10 Chrome ore
- 20 Iron ores
- 30 Ores
- 40 Manganese ore
- 50 Steel mill ores

01.02. Coal, coke

- 60 Lignite coke
- 62 Injection coal
- 65 Foundry coke
- 67 Coal / coke conveyor
- 70 Coke
- 80 Coke breeze
- 90 Coke breeze, dry
- 100 Petroleum coke
- 110 Hard coal, anthracite

01.03. Scrap

- 120 Scrap metal

01.04. Sponge iron

- 128 Sponge iron
- 130 Sponge iron

01.05. Metals and alloys

- 140 Cermix metal
- 150 Chromium metal
- 160 Cobalt
- 170 Deoxidation alloys
- 180 Iron granules
- 190 Iron powder
- 200 Ferrobor
- 210 Ferrochrome
- 220 Ferromanganese
- 230 Ferromolybdenum
- 240 Ferronickel
- 250 Ferroniobium
- 260 Ferro-niobium carbide
- 270 Ferroniob powder
- 280 Ferrophosphorus
- 290 Ferro-selenium
- 300 Ferrosilicon
- 310 Ferro-silicon-magnesium
- 315 Ferro-silicon-manganese
- 320 Ferrotitanium
- 330 Ferrovanadium
- 340 Ferrotungsten
- 350 Ferrozinc
- 380 Alloys
- 385 Magnesium alloys
- 390 Manganese metal
- 400 Metals and alloys
- 410 Metal powder
- 420 Molybdenum
- 430 Molybdenum oxide
- 435 Non-ferrous metals
- 440 Nickel

- 450 Nickel-based alloys
- 460 Nickel niobium
- 470 Niobium, metals and alloys
- 475 Pure iron
- 480 Silicon carbide
- 490 Silicon and silicon alloys
- 500 Special metals
- 510 Special alloys
- 520 Tantalum
- 530 Titanium and titanium alloys
- 540 Vanadium metal
- 550 Vanadium pentoxide
- 560 Master alloys
- 570 Tungsten
- 572 Tungsten granules for C and S analysis
- 610 Alloying additions

01.06. Additives and fluxes

- 580 Carburizing agent
- 590 Fluorspar
- 600 Lime and limestone
- 612 Slag conditioner
- 616 Olivine
- 618 Raw bauxite

01.07. Gases

- 620 Acetylene
- 625 Argon
- 630 Gases, technical
- 640 Carbonic acid
- 650 Oxygen
- 660 Protective gas
- 670 Nitrogen
- 675 Hydrogen

01.08. Lubricants

- 680 Coating powder
- 690 Lubricants

01.09. Composite materials

- 678 Bimetal for saws

01.10. Water

- 691 River water / additional water

01.11. Other

- 695 Glass granules
- 698 Titanium dioxide for hearth protection / repair

02 Raw material pretreatment

- 700 Engineering and technical assistance
- 703 Engineering and project management

02.01. Ore dressing

- 710 Ore and aggregate processing plants
- 720 Crushing plants
- 730 Grinding and mixing plants
- 740 Mixers / core sand mixers

- 750 Screens
- 760 Screens and screening plants

02.02. Coal preparation

- 770 Coal preparation plants
- 780 Coal grinding plants

02.03. Coal burden preparation

- 790 Coal burden preparation

02.04. Pelletizing plants

- 795 Ore preparation plants
- 797 Conveying plants for pellets
- 800 Pelletizing plants
- 810 Pelletizing plants with ore preparation plants

02.05. Sintering plants

- 820 Sintering plants
- 822 Sinter hot material conveyors
- 826 Grate bars for sinter plants

02.06. Briquetting plants

- 830 Briquetting plants
- 840 Briquetting of coal and coke
- 850 Compacting plants

02.07. Coke plants

- 858 Emission control in coking plants, charging and discharging
- 859 Heat-recovery coking plants
- 860 Coke plants, general
- 870 Coke crushing and screening plants
- 890 Coke ovens
- 900 Coke oven operating machines
- 910 Coke oven gas treatment plants
- 920 Coke ramming and extruding machines
- 950 Heat exchangers

02.08. Scrap processing plants

- 968 Coil magnets
- 970 Lifting magnets
- 980 Magnetic drums
- 990 Packing presses
- 999 Scrap drying plants
- 1000 Scrap mills, lick-ers
- 1010 Scrap shears
- 1015 Scrap shear blades
- 1017 Scrap magnets
- 1020 Shredder plants
- 1021 Safety equipment for electric load lifting magnets
- 1022 Separation magnets
- 1030 Chip crusher

02.09. Other equipment

- 1041 Equipment for granulation of sludges and dusts
- 1050 Ferroalloying plants
- 1058 Lime burning plants
- 1060 Lime slaking plants
- 1070 Roasting plants

03 Iron making

- 1080 Engineering and technical assistance
- 1090 Pig iron production plants
- 1100 Smelter reduction plants

03.01. Blast furnaces

- 1105 Energy recovery
- 1107 Expansion turbine
- 1110 Blast furnaces
- 1120 Blast furnace linings
- 1123 Blast furnace hearth protection / repair
- 1125 Blast furnace channel lining
- 1130 Blast furnace hot blast stoves
- 1140 Ceramic burners for hot blast stoves
- 1145 Shaft melting furnaces
- 1150 Heat recovery systems
- 1152 Hot blast stoves

03.02. Direct reduction plants

- 1160 Direct reduction plants
- 1170 Direct reduction plants with coal as reducing agent
- 1172 DRI hot material conveyor
- 1174 Fine ore reduction with coal or gas

03.03. Cupola furnaces

- 1180 Hot blast cupola furnaces
- 1190 Cold blast cupola furnaces
- 1195 Shaft furnaces for metallurgical residues

03.04. Components

- 1200 Valves for blast furnace reheaters
- 1205 Fittings for cupola furnaces
- 1207 Copper fittings for cupolas
- 1210 Slide gate maintenance
- 1220 Gassing systems for blast furnaces, cupolas and steel mills
- 1230 Blow mold changing and nozzle block removal carriages
- 1240 boring bar changing devices
- 1250 Nozzle bars
- 1260 Injection plants for carbon
- 1270 Equipment for injecting coal, oil or gas into the blast furnace
- 1280 Equipment for injecting oil or gas into the blast furnace
- 1285 Blast furnace gas expansion turbines
- 1290 Hood manipulators for use on iron channels
- 1295 Hot gas generators for blast furnace and coke gas
- 1300 Hot blast valves
- 1310 Blast furnace blowers
- 1320 Blast furnace stands and shells
- 1330 Blast furnace burdening / also burdening carriages
- 1340 Blast furnace probes
- 1350 Coal grinding, drying and injection systems
- 1351 Copper fittings for cupola furnaces
- 1353 Ladles and mixers, liquid pig iron, engineering and supply
- 1355 Process gas screw compressors
- 1360 Radar level measuring equipment

- 1370 Rest and shaft cooling plates for blast furnaces
- 1380 Pig iron bulk pouring machines
- 1390 Pig iron mixers
- 1400 Pig iron ladle, mixer and transfer cars
- 1410 Slag molds
- 1420 Slag ladles
- 1425 Hoses for blast furnace cooling
- 1430 Special fittings for blast furnace cooling
- 1432 Copper staves for blast furnace cooling
- 1440 Taphole tamping machines
- 1450 Tap hole and slag hole drilling machines
- 1458 Distributor systems for charging burden / ore / coke into the blast furnace
- 1460 Heat exchangers
- 1467 Weighing systems for torpedo cars
- 1470 Wind molds and nozzle stacks
- 1480 Wind vane

03.05. Blast furnace products for foundries

- 1490 Foundry pig iron
- 1500 Hematite pig iron
- 1510 Hematite pig iron for GG
- 1520 Blast furnace ferro-manganese
- 1550 Special pig iron for GGG
- 1560 Mirror Iron
- 1570 Steel iron

03.06. By-products

- 1580 Ferrous sulfate
- 1589 Blast furnace slag
- 1590 Blast furnace slag as a road construction material
- 1600 Blast furnace slag and LD slag
- 1620 Slag lime
- 1630 Slag Sand
- 1639 Converter lime
- 1640 Converter lime057 Thomas lime
- 1643 LD slag
- 1650 Thomas phosphate

04 Steelmaking

- 1668 Equipment for steelmaking plants
- 1670 Engineering and technical assistance
- 1680 Compact steelmaking equipment
- 1690 Second-hand steelmaking plant and equipment
- 1698 Steel mill plants and equipment
- 1699 Steel mill equipment
- 1700 Steel mill plants and equipment (stainless)
- 1710 Steel mill plants and equipment (complete)

04.01. Hot metal preparation plants

- 1715 Desulfurization plants with slag regeneration
- 1720 Hot metal desulfurization plants

04.02. Converter

- 1730 Blown steelmaking plants
- 1740 KTB (Kawasaki Top Blowing) equipment
- 1745 Combined bottom blowing at converter
- 1750 Converter plants

- 1755 Converter sealing plugs
- 1758 Setting machines for converter sealing plugs
- 1760 Purging stones

04.03. Energy optimization furnaces

- 1770 Energy optimization furnaces

04.04. Electric steel plant

- 1780 Charging equipment for electric furnaces
- 1788 Bottom blowing equipment for electric arc furnaces (nitrogen and argon)
- 1790 Bottom tapping
- 1795 CO post-combustion
- 1800 Three-phase arc furnaces
- 1810 Injection systems for electric furnaces
- 1820 Electrode holders and contact jaws for electric furnaces
- 1830 Electrode control for electric arc furnaces and ladle heating systems
- 1840 Electrode extruders
- 1850 Electrode support arms
- 1855 Aluminum electrode support arms, current-carrying (Hot Arms)
- 1860 Electrode support arms, current-carrying (Hot Arms)
- 1865 Electrode discharge arm insulation
- 1870 Electric arc furnaces
- 1875 Electric arc ladle furnaces
- 1880 Electric arc furnaces with integrated scrap preheating (shaft furnaces)
- 1885 Spare and wear parts, consumables
- 1890 Direct current arc furnaces
- 1900 Graphite electrodes
- 1908 Jet Box Technology
- 1910 Cooling elements (tube wall segments, bay covers, plate coolers)
- 1920 Oil / 057gas oxygen burners (also post-combustion)
- 1930 Scrap baskets
- 1938 Scrap dryers
- 1940 Scrap preheating systems
- 1945 Poking machines for electric furnaces
- 1950 Electric tube systems for electric furnaces
- 1960 Water cooled cables
- 1970 Water cooling systems
- 1980 AC arc furnaces
- 1981 EAF high current insulation
- 1982 Power supplies for AC arc furnaces
- 1983 Power supplies for direct current arc furnaces

04.05. Induction furnaces

- 1990 Induction furnaces
- 1995 Protection system for induction coils
- 1996 Induction furnaces \ 057Repairs
- 2000 Water cooled cables

04.06. Vacuum furnaces

- 2008 High vacuum furnaces
- 2010 High vacuum furnaces (also electron beam melting furnaces)
- 2020 Vacuum induction melting furnaces
- 2021 Vacuum pumps, dry running, for vacuum furnaces
- 2025 Vacuum investment casting plants

04.07. Secondary metallurgy

- 2028 Equipment for chemical heating
- 2030 Argon purging equipment
- 2040 Blow and injection conveying systems for filter dusts
- 2042 blowing lances, combined, for RH
- 2050 CAS, CAS-OB and CAB-plants
- 2060 Injection plants for metallurgical processes
- 2070 Electroslag remelting plants
- 2080 Ladle metallurgical plants
- 2090 Plasma arc plants
- 2100 Plasma ladle furnaces
- 2110 Secondary metallurgical plants
- 2120 Steel degassing plants
- 2130 Steel desulfurization plants
- 2140 T+P lance equipment
- 2145 Induction stirrers for ladle furnaces
- 2147 Vacuum degassing plants
- 2148 Vacuum arc furnace

04.08. Tertiary metallurgy

- 2141 Electroslag remelting plant ESU plant
- 2142 Vacuum arc remelting / VAR plant
- 2143 Vacuum induction furnace / VIM plant
- 2144 Vacuum degassing equipment

04.09. Components

- 2150 Deslagging machines
- 2155 Tap hole sealing equipment for converters
- 2156 Converter tap hole drilling and setting machines
- 2160 Tapping gate for converters and electric arc furnaces
- 2170 Andromat manipulator
- 2175 Burning machines for ladles
- 2180 Break-out machines for electric furnaces, converters, ladles, etc.
- 2182 Burning lances (oxygen) for tundish and ladle gate valves
- 2184 CO injection equipment
- 2190 Handling equipment for oxygen / carbon lances
- 2200 Automatic purging gas dome stations
- 2210 Heating equipment for ladles, mixers, converters and tundishes
- 2215 Feeding equipment for metallurgical plants
- 2220 Brakes
- 2230 Charging machines (trough and tongs)
- 2235 Steam jet vacuum pumps for steel degassing
- 2240 Dolomite centrifugal machines
- 2250 Wire spooling machines
- 2268 Injection plants for argon in ladles
- 2270 Injection plants for argon
- 2280 Injection plants for iron carbide dusts
- 2290 Injection plants for Hy / DRI dusts
- 2300 Injection plants for lime granules
- 2310 Injection plants for carbon (electric arc furnaces)
- 2312 Injection plants for alloying materials
- 2320 Electric heating elements for steel degassing plants
- 2340 Electromagnet. Conveying and dosing troughs for liquid metals
- 2350 Desulfurization equipment
- 2360 Oriel tapping fillers, electric arc furnaces
- 2370 Casting ladles, general

- 2380 Casting ladle heaters
- 2390 Ladles for steel mills
- 2400 Casting ladle gates (also slide gate gates)
- 2410 Pouring stream protection
- 2420 Casting carriages
- 2430 Handling equipment
- 2440 Handling equipment for oxygen / carbon lances
- 2450 Metallurgical and rolling mill hydraulics
- 2460 Lime-oxygen dosing and injection systems
- 2480 Tilting chairs for ladles
- 2490 Coal dust injection lances
- 2500 Ingot molds and casting molds for steel mills
- 2510 Ingot mold cars
- 2514 Continuous optical analysis equipment for process vessels
- 2515 Continuous optical temperature measurement for process vessels
- 2520 Converter blowing lance changing device
- 2525 Converter temperature and sampling equipment
- 2530 Lance robots \ 057-manipulators
- 2540 Alloying equipment for steel mills
- 2541 Multifunction lances and burners for electric furnaces
- 2542 Ladles and mixers, liquid pig iron, engineering and supply
- 2543 Mixer ladles
- 2545 Ladle sliders (steel mill ladle slider material)
- 2550 Ladle cars
- 2560 Robots for cutting slag
- 2570 Sand feeding devices for ladle tap hole
- 2580 Oxygen nozzles
- 2590 Oxygen lances
- 2600 Oxygen lance equipment
- 2610 Oxygen tubes, heat protected
- 2615 Shadow tube manipulators
- 2618 Slag with space resistant property
- 2620 Slag bucket
- 2630 Slag retaining device for converter
- 2640 Slag carts
- 2650 Hose reels
- 2655 Fuses (multifunction) for burners
- 2660 Special safety oxygen hose reels
- 2665 Stone coating agent for ladle gate valves
- 2666 Stone coating agents for slide gate systems
- 2668 Poking machines for electric furnaces
- 2669 Sublances
- 2670 Immersion tube spraying devices
- 2680 Torpedo car radar level measuring devices
- 2686 Vacuum pumps, dry running, for vacuum furnaces
- 2690 Preheating and drying stations for ladles and tundishes
- 2695 Weighing systems for scrap and alloying elements
- 2700 Heat exchangers for steel mills
- 2702 Flame cutting machines for ladles
- 2704 Crucibles for remelting furnaces
- 2705 Process gas analyzer

04.10. Steel mill supplies

- 2706 Sealing cords and packings up to 1260°C
- 2710 Carburizing agents of all kinds

- 2720 Deoxidizing agent
- 2730 Deoxidation technology
- 2735 EBT taphole plugging compound
- 2740 Dephosphorizing agents
- 2750 Desulfurization and deoxidation agents
- 2760 desulfurization agents (also magnesium)
- 2770 ESU slags
- 2780 Ferroniob cored wires
- 2790 Cored wires
- 2798 Casting heads
- 2800 Casting powder
- 2801 Casting powders, granulated and powdered
- 2810 Graphite
- 2820 Graphite powder
- 2825 Heat protection fabric to 1260°C
- 2827 Insulating covering agents for tundishes, ladles and troughs
- 2830 Molds
- 2840 Mould inserts
- 2845 Chill putty, -filler up to 1600°C
- 2850 Ingot mold spray and plate protection
- 2855 Oxygen nozzles and blowing lances
- 2860 Blowhole powder
- 2865 Mats and felts up to 1260°C
- 2868 Olivine slag conditioner
- 2870 Ladle covering agent
- 2871 Ladle covering agents, granulated and powdered
- 2880 Ladle slide sand
- 2885 Rotary slide gate for steel ladles
- 2888 Slag granulation
- 2890 Slag sands
- 2900 Slag foaming
- 2904 Protective blankets made of textile fabric up to 1260°C
- 2905 Special adhesives up to 1200°C
- 2910 Steel mill ladle slide material
- 2915 Crucibles for ESR, VAR and casting rolls
- 2920 Tundish covering material, granulated and powdered

04.11. Preparation of steel mill materials

- 2930 Processing of used refractory materials
- 2940 Processing of steel mill dusts, fines and oil-containing steel mill sludges
- 2950 Slag preparation (slag transport and recycling)
- 2954 Separation magnets

04.12. Services

- 2956 Engineering for steel mill plants and equipment
- 2957 Hydraulic cylinder repair
- 2958 Slag bucket maintenance

05 Continuous casting

- 2960 Engineering and technical assistance

05.01. Continuous casting plants of various designs

- 2962 Flat ingots
- 2965 Casting platform robot
- 2970 Casting wheel plants
- 2980 Casting wheels

- 2982 Casting rolls, rollers
- 2990 Horizontal continuous casting plants
- 3000 Continuous casting plants, general
- 3010 Vertical continuous casting plants

05.02. Continuous casting plants for different product dimensions

- 3020 Beam-blank continuous casters
- 3030 Continuous slab casters
- 3035 High-speed continuous billet casters
- 3040 Continuous billet casters
- 3043 Continuous billet casters, horizontal
- 3045 Combined continuous slab casters
- 3050 Round continuous casters
- 3055 Round continuous casting machines, horizontal
- 3058 Continuous bloom casting plants
- 3060 Continuous bloom and slab casters
- 3070 Continuous bloom and billet casting plants
- 3075 Continuous bloom and billet casting plants, horizontal
- 3080 bloom and round continuous casting plants
- 3085 bloom and billet continuous casting plants, horizontal

05.03. Spray compacting plants

- 3090 Spray compacting plants

05.04. Components

- 3100 Al wire injection plants
- 3110 Slab edge adjustment
- 3120 Slab edge heating, inductive
- 3130 Slab cooling plants
- 3140 Slab cooling boiler / heat recovery plants
- 3150 Slab cross-cutting and slitting lines
- 3160 Slab grinding machines
- 3166 Soft slab turning and transporting magnets
- 3170 Brakes
- 3180 Flame removal equipment
- 3190 Flame cutting equipment
- 3200 Slewing ring for water cooled rolls
- 3210 DS stamping machine
- 3216 Electromagnetic brakes, EMBR
- 3220 Single material nozzles for continuous casting cooling
- 3230 Deburrer
- 3240 Inks for marking equipment
- 3250 Paint signing equipment
- 3260 Casting powder feeder
- 3262 Casting stream protection by argon
- 3270 Inductive stirring
- 3280 Cold distribution plates (tundish plates)
- 3290 Marking equipment for slabs, ingots and billets
- 3292 Billet grinding machines
- 3300 Billet processing machines
- 3310 Billet sawing machines
- 3320 Billet grinding machines
- 3330 Mould flow measuring equipment
- 3340 Reading systems for automatic identification of impact and directly applied marks
- 3345 Air atomization nozzles for continuous casting cooling

- 3346 Marking machines
- 3350 Emergency cutting torches
- 3355 Optical product recognition (OPR) for marked billets
- 3360 Plasma tundish heating
- 3370 Plate molds
- 3380 Precision stopper device
- 3390 Tube molds
- 3400 Shadow tube manipulators
- 3405 Safety device for electrolift magnets
- 3410 Marking colors
- 3415 Slab magnets
- 3420 Stamping machines
- 3422 Stamping machines, hydraulic or pneumatic drive
- 3429 Continuous casting molds
- 3430 Continuous casting molds (also made of electrographite)
- 3440 Continuous casting rolls
- 3450 Tundish heating
- 3460 Tundish (manifold) plasma heater
- 3470 Tundish flow control
- 3480 Tundish gate valve (Tundish gate valve)
- 3490 bloom and billet adjustments
- 3500 Heat exchangers
- 3503 Weighing systems for ladles, tundish etc.
- 3510 Two-substance nozzles for continuous casting cooling

05.05. Operating materials

- 3520 Casting powder
- 3530 Lubricants for continuous casting plants
- 3535 Welding consumables for regeneration and against wear

05.06. Services

- 3537 Grinding and scarfing of slabs, billets and blooms

06 Near net shape casting

- 3540 Engineering and technical assistance

06.01. Equipment

- 3550 Strip casting lines
- 3560 Thin strip casting plants
- 3570 Thin slab casting plants
- 3572 Thin slab casting and rolling lines with direct bond
- 3573 EUROSTRIP strip casting plants
- 3574 EUROSTRIP direct strip casting and rolling lines
- 3575 Continuous billet casting plants

06.02. Components

- 3590 Flame cutting equipment
- 3600 Flame cutting equipment
- 3610 DS stamping machine
- 3630 Thin slab cross and slitting lines
- 3640 Thin slab grinding machines
- 3670 Color marking equipment
- 3680 Casting powder feeder
- 3690 Ingot molds

- 3700 Reading systems for automatic identification of impact and directly applied characters
- 3710 Marking inks
- 3712 Stamping machines, hydraulic or pneumatic drive

06.03. Operating supplies

- 3750 Coolant
- 3760 Lubricants

07 Hot rolling

- 3770 Engineering and technical assistance
- 3780 Second-hand hot rolling mills

07.01. Hot strip mills

- 3773 Flat block plants
- 3776 Flat block plants for rolling
- 3790 Thin slab mills
- 3805 Modernization of hot rolling mills
- 3820 Steckel rolling mills, complete
- 3830 Rolling mills, complete
- 3840 Hot rolling mills for slab products

07.02. Heavy plate mills

- 3850 Hot rolling mills, complete

07.03. Billet and semi-finished product mills

- 3860 Ingot, billet and plate mills
- 3861 Ingot, billet and semi-finished product mills

07.04. Section mills

- 3870 Rolling mills for light sectional steel
- 3875 Roll forming mills
- 3880 Special section rolling mills
- 3881 Rail rolling mills
- 3890 Beam and other section mills

07.05. Bar and wire rod mills

- 3900 Automatic coil handling
- 3910 Guide equipment for wire rod, bar and fine iron mills
- 3920 Calibrating mills
- 3930 Precision rolling systems
- 3940 Reducing and sizing mills
- 3944 Reducing and sizing mills
- 3950 Bar and wire rod mills
- 3955 Bar and wire rod mills for carbon and stainless steels
- 3960 Bar mills
- 3968 Rolling mills for flat products
- 3970 Rolling mills for long products
- 3974 Rolling mills for wire rod, rebars and bars

07.06. Ring rolling mills

- 3980 Ring rolling machines and plants
- 3981 Wheel rolling machines and plants

07.07. Finishing lines

- 3990 Finishing lines
- 4000 Finishing machines

- 4010 Chamfering machines for round and square billets
- 4017 Flat block plants for rolling
- 4020 Flying shears
- 4030 Hot / cold cut-off grinding machines
- 4040 Cold circular sawing machines
- 4050 Profile steel roller straightening machines
- 4060 Rotary saws
- 4065 Second-hand finishing lines
- 4070 Packing lines
- 4080 Hot straightening and cutting-off machines

07.08. Rolls for hot rolling mills

- 4090 Work rolls
- 4100 Plate rolls
- 4110 Ingot rolls
- 4120 Slab rolls
- 4128 EcoRolls
- 4130 Fine iron and wire rolls
- 4135 Ferrous cast rolls
- 4140 Forged rolls
- 4160 Chilled cast iron rolls
- 4170 Tungsten carbide \ 057steel rolls
- 4180 Caliber rolls
- 4190 Billet and semi-finished rolls
- 4200 Straightening rolls
- 4210 Ductile iron rolls
- 4220 Cast steel rolls
- 4230 Back-up rolls
- 4240 Composite casting rolls
- 4250 Composite casting rolls in high chrome and indefinite materials
- 4260 Composite chilled cast rolls
- 4270 Composite rolls
- 4280 Rolls for tube mills
- 4290 Roll rings

07.09. Roll machining and machines

- 4300 EDT systems
- 4320 High wear resistant coatings on rolls etc.
- 4330 Caliber processing machines
- 4340 Caliber groove grinding and milling machines
- 4350 Groove milling machines
- 4355 Ring expanders
- 4360 Special machines
- 4370 Roll machining machines
- 4380 Roll turning machines
- 4390 Roll grinding machines
- 4395 Roll grinding wheels
- 4400 Roll blasting machines
- 4410 Lines for roll forming
- 4420 Roll surface, services

07.10. Components

- 4430 Decoilers and rewinders
- 4432 Decoiler components
- 4440 Drives, gearboxes and comb mill stands
- 4450 Strip cooling equipment
- 4460 Belt grinding machines
- 4470 Brakes
- 4479 Coil magnets
- 4490 Nozzles for descaling
- 4500 Nozzles for roll cooling
- 4503 Roll cooling (stainless steel)
- 4510 Electric rolls and roller tables
- 4515 Scrapers for hot strip lines up to 1000°C

- 4520 Descaling systems with solid abrasives
- 4528 Descaling systems with high pressure water
- 4530 Descaling systems with liquid abrasives
- 4540 Colors for marking equipment
- 4550 Paint marking systems
- 4560 Grease lubrication systems
- 4570 Scarfing systems, hot and cold
- 4580 Scarfing equipment, machines and plants
- 4582 Scarfing plants, robot controlled
- 4590 Gear rollers
- 4600 Semi-finished product testing, sorting and fettling lines
- 4610 Decoilers
- 4630 Edging and shifting devices
- 4640 Marking lines for plates, slabs and tubes
- 4650 Marking systems for profiles, strips and sheets
- 4660 Marking lines for slabs and blocks
- 4680 Compactor and press binding lines for wire rod
- 4690 Cooling beds
- 4700 Reading systems for automatic identification of impact and directly applied marks
- 4710 Oil-hydraulic setting devices
- 4720 Oil and emulsion circulation systems
- 4730 Roller tables
- 4740 Rotating and stationary shear blades
- 4750 Lubrication systems
- 4760 Quick change stands
- 4770 Safety device for electrolift magnets
- 4780 Marking inks
- 4790 Marking pins for hot surfaces
- 4800 Steel strapping
- 4810 Stamping machines
- 4820 Stamping machines and stamps for hot and cold operation (also fully automatic)
- 4830 Stamps and tools
- 4840 Transport equipment for wide strapping
- 4850 Strapping machines for coils
- 4860 Heat exchangers
- 4870 Roll transport devices
- 4880 Roll cooling systems, controllable
- 4890 Roll matting systems
- 4892 Roll guides
- 4893 Roll rings
- 4897 Weighing systems for coils and bundles

07.11. Operating fluids

- 4900 Lubricants for hot rolling mills

07.12. Services

- 4920 High wear resistant coating on rolls etc.

08 Forging, extrusion

- 4930 Engineering and technical assistance
- 4940 Modernization of water hydraulic control systems

08.01. Forging machines

- 4950 CNC precision forging machines
- 4960 Open-die forging lines
- 4970 Die forging lines

- 4980 Die spraying plants
- 4985 Hot isothermal forging plants (HIF)
- 4990 Hydraulic forging presses
- 5000 Cold extrusion presses
- 5020 Presses, general
- 5030 Pressing and forging machines
- 5040 Radial forging machines
- 5050 Radial and axial die rolling machines and plants
- 5060 Radial forging machines
- 5061 Radial forging machines, hydraulic
- 5070 Ring blank presses
- 5080 CNC precision forging machines
- 5084 Forging rolls
- 5090 horizontal forging machines, upsetting machines

08.02. Extrusion presses

- 5100 Metal pipe and tube extrusion presses
- 5110 Steel pipe extrusion presses
- 5120 Extrusion presses for profiles

08.03. Components

- 5130 Brakes
- 5150 Forging manipulators
- 5155 Forging manipulators, rail-mounted
- 5160 Forging robots
- 5180 Transport manipulators
- 5184 Water hydraulic drive and control technology

08.04. Operating materials

- 5190 Lubricants for extrusion presses
- 5195 Heat resistant sliding materials

09 Powder metallurgy

- 5200 Engineering and technical assistance
- 5210 Powder Metallurgy

09.01. Hard alloys

- 5220 Hard alloys, general
- 5230 Machinable and hardenable hard alloys

09.02. Hard materials

- 5290 Tungsten carbide

09.03. Hard metal powders

- 5300 Iron, steel, alloy powders, non-ferrous metal powders
- 5310 Carbide powder

09.04. Additives

- 5320 Binder metals
- 5330 Organic additives

09.05. Machines and equipment for powder production

- 5340 Machines and equipment for water atomization
- 5350 Machinery and equipment for melt atomization
- 5360 Machines and equipment for spray drying
- 5370 Powder manufacturers

09.06. Machines and equipment for production of powder metallurgical products

- 5370 Plants, complete
- 5380 Hot and cold isostatic presses and plants
- 5390 Metal powder presses
- 5400 Presses
- 5405 Powder presses, hydraulic, mechanical, hybrid
- 5410 Protective gas furnaces
- 5420 Vacuum furnaces
- 5422 Vacuum pumps, dry running, for vacuum furnaces

09.07. Powder metallurgy manufactured products

- 5430 PM metals / sintered metals
- 5432 PM rolling rings
- 5440 PM steels
- 5450 Composite materials

09.08. Further processing of powder metallurgy products

- 5460 Plasma powder cladding
- 5470 Thermal spraying

09.09. Additive manufacturing

- 5475 3-D printing
- 5476 Additive manufacturing processes

10 Cold rolling

- 5480 Engineering and technical assistance

10.01. Cold rolling mills

- 5490 Strip, sheet, cold and metal rolling mills
- 5510 cold rolling blocks for wire
- 5520 Cold rolling mills, complete
- 5523 Modernization of cold rolling mills
- 5530 Second-hand cold rolling mills
- 5540 Rolling mills for flat products

10.02. Skin pass mills

- 5550 Skin pass mills
- 5555 Skin pass mills for hot and cold strip

10.03. Finishing lines

- 5560 Finishing lines
- 5570 Finishing machines
- 5580 Strip edge trimming lines
- 5590 Strip processing lines
- 5595 Spreader rolls
- 5600 Slitting and cut-to-length lines
- 5610 Slitting and cut-to-length machines
- 5620 Straightening machines for strips and sheets
- 5630 Roller levelers
- 5640 Stretch levelers for strip
- 5650 Current guide rolls
- 5660 Packaging lines

10.04. Annealing lines

- 5668 Continuous annealing
- 5670 Annealing lines

- 5672 Annealing and pickling lines
- 5680 Annealing lines, inductive
- 5682 Annealing plants, continuous
- 5685 Modernization of annealing and pickling lines

10.05. Rolls for cold rolling mills

- 5686 Squeeze rolls
- 5690 Work rolls
- 5695 Spreader rolls
- 5700 Dressing rolls
- 5710 Polishing rolls
- 5715 Straightening rolls
- 5720 Straightening rolls
- 5730 Backing rolls
- 5750 Nonwoven rolls
- 5760 Rolls
- 5763 Roll sealing sleeves
- 5766 Roll core production and machining
- 5770 Rolls with polyurethane coating

10.06. Components

- 5780 Drives, gears and comb mill stands
- 5784 Strip guiding
- 5790 Tape remover
- 5800 Brakes
- 5803 Brake felt, stripper felt
- 5810 Letter and number types for stamping machines
- 5814 Labeling machines for rolled profiles (cold)
- 5830 Labeling machines
- 5840 Color marking machines
- 5845 Reel covers
- 5850 Reading systems for automatic identification of impact and directly applied characters
- 5860 Marking systems
- 5870 Oil circulation systems
- 5880 Rotating and stationary shear blades
- 5890 Marking inks for stamping machines
- 5900 Marking devices
- 5910 Marking pens for metals
- 5920 Steel strapping
- 5930 Stamping machines and stamps for hot and cold operation (also fully automatic)
- 5932 Roller cooling systems for high demands
- 5940 Heat exchangers
- 5950 Winding coils
- 5952 Weighing systems for bundles and coils

10.07. Operating materials

- 5960 Lubricants for cold rolling

11 Surface treatment

- 5970 Engineering and technical assistance
- 5980 Descaling of sheet metal parts
- 5988 Titanium processing

11.01. Descaling equipment

- 5990 Bend descaling for strip
- 6000 Bending descaling for wire
- 6010 Descaling systems with solid abrasives

- 6018 Descaling systems with high pressure water
- 6020 Descaling systems with liquid abrasives
- 6030 Free blasting systems
- 6040 Chamber blasting systems
- 6050 Shot peening systems
- 6060 Trough belt blast cleaning systems
- 6070 Roller table systems

11.02. Pickling plants

- 6080 Preparation of pickling baths
- 6088 Pickling lines, exhaust gas free, for stainless steel
- 6090 Pickling lines, complete
- 6100 Pickling lines for strip and wire
- 6109 Pickling tanks for high mechanical stress
- 6110 Pickling tanks and electrolysis cells for high mechanical stress
- 6120 Pickling baskets and hooks
- 6130 Pickling agents
- 6140 Pickling products for stainless steel
- 6150 Pickling products for stainless steels
- 6160 Pickling and surface treatment plants, general
- 6170 Pickling and surface treatment plants for wire
- 6180 Pickling additives
- 6190 Contract pickling plants
- 6192 Pumps for steel and stainless steel pickling
- 6200 Regeneration plants for pickling solutions
- 6203 Push pickling lines

11.03. Grinding and polishing machines

- 6210 Belt grinding machines
- 6230 Centrifugal grinding plants
- 6240 Polishing plants
- 6250 Drag grinding plants

11.04. Surface treatment plants

- 6260 Coil coating lines
- 6270 Strip edge trimming
- 6280 Strip processing and finishing lines
- 6282 Electrolytic strip pre-cleaning plants
- 6285 Strip washing lines
- 6290 Coating plants
- 6295 Burnishing plants and means
- 6300 CVD coating plants
- 6310 Services pickling and electropolishing of steel and stainless steel
- 6320 Oiling machines
- 6330 Electropolishing plants
- 6340 Deburring
- 6350 Deburring machines
- 6360 Color coating machines
- 6370 Paint spraying plants
- 6380 Vibratory finishing machines for surface treatment of metal parts
- 6386 High pressure water jet cleaning technology
- 6390 Shot peening
- 6400 Plastic coating plants
- 6410 Metal working equipment, electrochemical
- 6420 Metal degreasing lines
- 6430 Degreasing lines for metal strip
- 6440 Lines for cleaning and drying of metal
- 6450 Surface treatment, surface technology
- 6460 Surface treatment lines

- 6470 Surface drying, general
- 6480 Surface drying, inductive
- 6490 Surface finishing
- 6500 Phosphating plants
- 6510 Phosphating process
- 6520 Plasma CVD coating systems
- 6525 Plasma generators, power supply
- 6527 Blank washing systems
- 6530 Plating plants
- 6540 Plasma CVD systems
- 6550 PVD coating systems
- 6565 Blasting plants
- 6570 Pretreatment plants for galvanizing plants
- 6580 Water demineralization for surface treatment

11.05. Aluminizing, tin plating, galvanizing

- 6600 Equipment for hot-dip galvanizing and aluminizing of strip
- 6603 Equipment for hot-dip galvanizing, tin-plating and aluminizing of strip
- 6610 Electrolytic galvanizing equipment
- 6620 Electrolytic galvanizing lines
- 6630 Hot dip galvanizing lines
- 6640 Hot dip galvanizing lines, accessories
- 6642 Hot dip galvanizing lines, zinc bath equipment
- 6648 Galvannealing
- 6650 Galvannealing, inductive
- 6660 High current lines for electrolytic galvanizing plants
- 6670 Galvanizing
- 6675 Tin plating plants
- 6680 Tin fusion, inductive

11.06. Corrosion protection

- 6690 Linings and coatings
- 6700 Coatings, inorganic
- 6702 Coatings, overlays, expert opinions
- 6710 Burnishing and corrosion protection
- 6720 Oilers
- 6730 Electrophoretic dip coatings
- 6740 Rubber coatings
- 6744 Corrosion protection systems
- 6750 Corrosion and oxidation protection
- 6755 Oil felt
- 6760 Powder coatings
- 6770 Rust protection paints
- 6780 VPI / VCI corrosion protection papers and films

11.07. Components

- 6790 Nozzles (also blow-off and descaling nozzles)
- 6795 Rubber and PU reel covers
- 6800 Rubber and PU roller covers for the sheet metal finishing industry
- 6810 Rubber rollers for the sheet metal finishing industry
- 6820 Spray pipes
- 6826 Weighing systems for coils and bundles

11.08. Operating materials

- 6830 Chips and compounds for vibratory finishing
- 6840 Wire grit

- 6860 Electrocorundum abrasives
- 6865 Bonded coatings
- 6870 Metal cleaners
- 6880 Phosphating agents
- 6890 Blasting glass beads
- 6898 Steel blasting media
- 6900 Blasting media and technology, general

11.09. Services

- 6906 Large format surface grinding
- 6910 Contract finishing

11.10. Wear protection

- 6914 Ceramic wear protection
- 6916 Linings and coatings
- 6918 Wear protection, metallic
- 6919 Wear protection, general

12 Production of bright steel and wire

- 6920 Engineering and technical assistance
- 6925 Second-hand equipment

12.01. Wire rod mills

- 6930 Wire and fine steel rolling mills
- 6940 Wire stretching machines
- 6950 Guiding equipment for wire rod and fine iron rolling mills
- 6960 Rolling machines for flat wires and wire profiles

12.02. Wire, bar and profile drawing

- 6965 Drawing tools
- 6970 Wire drawing machines
- 6980 Wire drawing machines
- 6990 Bar and profile drawing machines
- 7000 Bar drawing benches

12.03. Finishing lines for drawing shops

- 7010 Automatic stirrup bending machines
- 7020 Combi automatic machines
- 7030 Wire straightening and cutting machines
- 7040 Rotary peeling machines for bars and wire
- 7050 Bar straightening and polishing machines
- 7060 Peeling machines for bars
- 7065 Grinding machines
- 7070 Grinding machines for bars

12.04. Components

- 7080 Binding machines for wire rod, concrete and bar steel
- 7090 Brakes
- 7100 Seals for rolling mills
- 7110 Wire cooling lines
- 7120 Wire coil and coiling machines
- 7140 Wire and bar pointing machines
- 7150 Electric rolls and roller tables
- 7160 Colors for marking equipment
- 7170 Ink marking systems
- 7180 Hook web systems
- 7200 Compactor and press binding systems for wire rod

- 7210 Reading systems for automatic identification of impact and directly applied characters
- 7220 Marking systems
- 7230 Marking inks
- 7235 Spools for winding and unwinding, rewinding
- 7240 Stamping machines and stamps for hot and cold operation (also fully automatic)
- 7250 Heat exchangers

12.05. Operating supplies

- 7270 Lubricants and process materials
- 7280 Drawing agents (greases, oils, soaps, etc.)

13 Production of tubes / pipes

- 7290 Engineering and technical assistance
- 7295 Second-hand equipment

13.01. Tube rolling mills

- 7300 Expanding mills
- 7310 Diescher rolling mills
- 7320 Forming mills
- 7330 Sizing mills
- 7340 Reducing mills
- 7350 Pipe and expander mills
- 7360 Pipe rolling mills with planetary piercing mill
- 7370 Pitch rolling mills
- 7380 Plug rolling mills
- 7390 Stretch-reducing mills

13.02. Tube drawing machines

- 7400 Continuous drawing machines
- 7410 Tube drawing machines
- 7420 Drum drawing machines
- 7430 Drawing benches

13.03. Pipe welding machines

- 7440 Longitudinal seam pipe welding machines
- 7450 Pipe welding plants
- 7460 Spiral pipe plants

13.04. Finishing lines for tubes

- 7480 Finishing lines
- 7490 Finishing lines for tubes
- 7495 Deburring machines for tubes, profiles and solid bars
- 7500 Travelling cut-off machines
- 7510 Straightening machines for tubes, sections and bars
- 7520 Tube bending machines
- 7530 Pipe end calibrating and upsetting presses
- 7540 Pipe deburring equipment
- 7542 Pipe deburring machines
- 7544 Pipe straightening machines
- 7550 Pipe straightening presses
- 7560 Pipe straightening and cutting machines
- 7570 Pipe grinding machines (internal and external)

13.05. Components

- 7580 Binding machines

7600 Colors for marking equipment
 7610 Paint signing machines
 7615 Cleaning machines for tubes, profiles and solids
 7620 Pipe pointing machines
 7630 Pipe marking equipment
 7640 Pipe testing equipment
 7650 Pipe sawing machines
 7660 Pipe spooling machines
 7663 Automatic sawing machines
 7665 Technical brushes

14 Sheet metal processing

7690 CAD constructions
 7700 Spinning of sheet metal parts
 7710 Spinning of sheet metal parts
 7720 Engineering and technical assistance
 7730 Cold forming of sheet metal parts and panels

14.01. Plants, presses, machines

7740 Bending machines
 7750 Strip edge trimming machines
 7760 Strip straightening machines
 7765 Strip preparation lines for profilers
 7780 Sheet metal round bending machines
 7790 Sheet metal stacking machines, automatic
 7800 Sheet metal forming
 7810 Sheet metal working machines, general
 7820 Flanging machines
 7825 Pressure joining machines
 7830 Deburring machines
 7835 Deburring machines for tubes, profiles and solid bars
 7840 Die bending presses
 7845 Hot and cold riveting machines
 7848 Hydraulic high-pressure sheet metal forming presses and lines
 7849 Hydroforming (IHU)
 7850 Hydraulic presses and plants
 7860 Hydraulic presses for raw forming
 7868 Internal high pressure forming
 7870 Cold extrusion presses
 7880 Cold forming lines
 7882 Press feeding systems
 7910 Roller profiling lines
 7920 Round forming presses (presses)
 7921 Wobble forming presses
 7922 Special lines for coil processing
 7924 Punching and pre-punching lines
 7926 Dividing levelers
 7930 Deep drawing presses
 7940 Pre-rounding presses (presses)
 7945 Feed straightening machines
 7947 Roll feeders
 7950 Roll forming of strip
 7960 Tooling and sheet metal working machines, used

14.02. Slitting lines

7970 Strip slitting lines
 7980 Sheet metal cut-to-length and cut-to-length lines
 7990 Sheet metal cutting, laser cut

7995 Slitting blades and accessories for slitting lines
 8010 Fine blanking lines
 8015 High pressure water jet cutting technology
 8020 Slitting and cut-to-length lines
 8030 Slitting and cut-to-length machines
 8040 Laser cutting systems
 8050 Plasma cutting systems
 8070 Cut-to-length lines
 8072 Shears
 8075 Shears (standing and flying) for sheet metal working
 8080 Second-hand laser beam cutting machines
 8090 Blast machine performance tuning
 8100 Waste optimization systems

14.03. Welding technology

8110 Deposition welding on rollers etc.
 8115 Fire protection blankets made of textile fabric
 8120 Strip welding machines
 8130 Stud welding machines
 8140 Electron and laser beam welding (service)
 8150 Electron beam welding machines
 8170 Gouging machines
 8180 Lattice girder welding machines
 8190 Carbon electrodes (welding carbons)
 8200 Mould welding
 8205 Laser welding machines
 8210 Laser beam welding machines
 8215 Solder protection mats made of textile fabric
 8220 MIG, MAG and TIG \ 057TIG welding torches
 8230 Peripheral devices for robots
 8250 Repair of cracks and engravings
 8257 Rolling seam resistance welding equipment
 8260 Repair welding
 8280 Welding, general
 8288 Welding wire
 8290 Welding wire, stainless
 8300 Welding wire and filler metals (also from CuAl alloys)
 8310 Welding electrodes
 8312 Welding protection blankets made of textile fabric
 8314 Welding protection fabric up to 1250°C
 8316 Welding protection mats and curtains made of textile fabric up to 1250°C
 8318 Welding protection paste up to 1400°C
 8320 Welding constructions
 8330 Welding machines, general
 8340 Welding robots
 8350 Welding technology, general
 8360 Welding accessories, general
 8363 Wire mesh welding
 8370 Sensor systems for automated welding
 8380 Butt welding machines, electric
 8400 Resistance welding equipment

14.04. Components

8410 Brakes
 8415 Color marking systems
 8420 Laser marking equipment
 8430 Plate stretcher
 8435 Profile Stretchers
 8440 Rotary shear blades and accessories

8450 Cutting and punching tools
 8470 Marking pins for metals
 8480 Deep drawing tools

14.05. Services

8481 Electron and laser beam welding
 8482 Laser cutting of steels and sheet metal processing
 8483 Laser welding
 8484 Water jet cutting of steels
 8485 Tube laser cutting
 8486 Large format surface grinding

15 Steel products

15.01. Rolled steel

8489 Folded profiles, welded structural elements
 8490 Aluminized sheet (hot-dip aluminized or roll clad)
 8500 Aluminum-zinc coated steel sheet
 8510 Antiphon sheets
 8520 Elevator guide rails
 8530 Strip steel, hot rolled
 8540 Machined sheet
 8550 Container bottoms
 8560 Coated sheet (painted, foil coated)
 8570 Reinforcing steel
 8580 Reinforcing steel in coils, cold-rolled
 8590 Reinforcing steel in coils, hot rolled
 8600 Reinforcing steel in bars
 8610 Reinforcing steel in bars and coils
 8620 Reinforcing steel (stainless)
 8630 Wide strip, organically coated
 8640 Wide strip, cold rolled
 8650 Wide strip, hot and cold rolled
 8660 Wide flat steel
 8670 Wide-flange beams
 8672 Cellform beams
 8680 Electrical sheet and strip
 8690 Enameled steel sheet
 8700 Thin sheet in further processed special designs
 8710 Thin sheet, cold-rolled
 8720 Thin sheet, surface finished
 8740 Sheet products, laser welded
 8750 Sheet products, mash-seam welded
 8760 Flat steel
 8769 Sectional steel
 8770 Shaped steel (incl. pit lining)
 8780 Welded sections
 8790 Heavy plate
 8795 Heavy plate blanks
 8800 Heavy plate products, pressed, dimpled, bent, edge-finished
 8810 Heavy and medium plate, incl. lining plate
 8820 Semi-finished products
 8830 Semi-finished products, continuously cast
 8831 Semi-finished products, continuously cast, ingot
 8840 Semi-finished products for rolling
 8850 Semi-finished products for forging
 8860 Superstructure material
 8870 Clad steel sheet
 8880 Rails

8890	Shipbuilding material
8900	Shipbuilding profiles
8910	Forging semi-finished products
8915	Forged bars
8920	Slit strip
8922	Slit strip, surface finished
8930	Cold drawn special steel sections
8940	Special profiles, hot rolled
8950	Special profiles, hot rolled and drawn for lift trucks, vehicle, machine and pipeline construction
8960	Special profiles, hot extruded
8970	Bar steel (quality, case-hardened, quenched and tempered, spring, free-cutting)
8975	Bar steel (angle steel)
8976	Steel bars (stainless steel, all dimensions)
8980	Steel sheet piling sections (box piles and accessories, driven steel piles)
8981	Steel sheet piling sections (box piles and driven steel piles)
8985	Steel sheet pile sections, box piles, steel piles, anchoring and accessories
8990	Continuous cast billets
8992	Trapezoidal profiles - PUR and mineral wool, sandwich elements, acoustic elements, cassettes
9010	Galvanized steel strip
9020	Galvanized profiled steel sheet
9030	Galvanized steel sheet in sheets and rolls, galvanized strip steel
9040	Honeycomb beams, machined beams
9050	Wire rod
9060	Wire rod, flat or round
9070	Wire rod, round
9080	Wire rod in spring steel grades
9090	Wire rod in cold heading grades
9100	Wire rod in welding wire grades
9130	Rolled steel
9140	Hot wide strip
9150	Tinplate and strip, ultra-fine sheet and strip, tin-plated sheet and strip, special chrome-plated ultra-fine sheet and strip (ECCS)
9160	Y-sleepers

15.02. Pipes

9170	Fittings for pipes, stainless
9180	Large-diameter pipes
9190	Large diameter tubes, spiral welded
9200	Boiler tubes
9220	Flanges, stainless
9230	Oilfield tubes
9260	Clad tubes
9270	Precision steel tubes, welded
9280	Precision steel tubes, seamless and welded (round, oval, square, rectangular and as special sections)
9290	Precision steel tubes, seamless and welded, with surface finishing such as electrogalvanizing, chromating, phosphating, etc.
9300	Tubes prematerial (round and square)
9310	Tubes
9320	Tubes made of degussite
9330	Tubes made of cold-tempered steels, weldable fine-grained steels
9332	Tubes, ceramic

9334	Tubes of circular or square cross-section
9335	Tubes, circular or square cross-section, hot-dip galvanized
9340	Stainless steel tubes
9345	Pipe parts and components
9350	Tube products (U-tubes, also with special radii, coil systems, etc.)
9360	Centrifugally cast tubes (also made of stainless steel)
9370	Special section tubes, welded, cold-rolled
9380	Steel drainage pipes, hot-dip galvanized
9390	Steel pipes, machined
9400	Steel pipes, welded
9410	Steel tubes, seamless
9420	Door reinforcement tubes, welded
9430	Door reinforcement tubes, seamless
9440	Cylinder tubes

15.03. Forgings

9450	vessels (flanges, nozzles, etc.)
9460	Products for general engineering (crankshafts, tools, gears, etc.)
9470	Products for power engineering (generator parts, turbine parts, etc.)
9480	Products for aircraft engine construction (e.g. compressor blades, disks)
9490	Products for shipbuilding
9500	Open die forgings, general
9510	Die forgings, general
9520	Seamless rolled rings
9530	Forgings, general
9532	Non-ferrous forgings (copper and copper alloys, aluminum alloys)

15.04. Railroad rolling stock

9540	Axles
9550	Wheel tires

15.05. Steel in the following delivery forms

9560	Structural steels, general
9570	engineering steels, case-hardening steels, quenched and tempered steels, surface-hardening steels, low-temperature steels, cold-heading steels, fine-grained steels, steels resistant to compressed hydrogen
9580	Stainless steel special remnants (Ia and IIa quality)
9590	Stainless steels
9600	Case hardening steels, foreign standard steels, wear resistant steels
9610	Case-hardened steels, nitriding steels, spring steels, foreign standard steels, wear-resistant steels
9618	ESU remelted steels
9620	Spring steel wire, stainless
9625	Thin sheets
9630	High temperature steels and alloys
9635	Perforated plates
9638	Cold rolled sections
9640	Stainless bars and tubes
9641	Stainless bars
9642	Special sections, hot rolled, hot extruded or drawn
9650	Stainless, acid and heat resistant steels
9655	Stainless, acid and heat resistant steels and alloys

9660	Stainless, acid- and heat-resistant steels and alloys, also heating conductor and resistance alloys
9670	High-speed steels
9680	Special structural steels, alloyed, weldable
9685	Engineering steels, alloyed, weldable
9690	Steels with special physical properties
9696	Chromium-plated steels
9700	Pre-machined steels in bars and plates, rough milled, fine milled, ground
9710	Rolling bearing steels
9714	Mild unalloyed steels
9718	Tool steels, hardened
9720	Tool steels, alloyed and unalloyed

15.06. Drawing and cold rolling mill products

9730	Bright steel (including free-cutting bright steel, bright steel shafts, bright special sections)
9740	Spring steel strip
9750	Cold rolled strip
9751	Hardened strip steel
9755	Cold rolled strip, coated
9760	Cold rolled strip with bright surface
9770	Cold rolled strip with refined surface
9780	Cold rolled clad strip
9790	Cold rolled profiles from hot rolled or cold rolled strip
9800	Cold rolled profiles with refined surface
9810	Body parts
9814	Sheet metal formed parts
9817	Precision strip steel
9820	Pressed, stamped and drawn parts
9830	Steel strip for packaging purposes
9838	Tailored beams
9840	Tailored blanks (sheet blanks)
9850	Formed tube and sheet components for the automotive industry
9860	Drawing and cold rolling mill products
9870	Cylinder tubes for hydraulics and pneumatics

15.07. Wire and wire products

9880	Anchor steel, screwable
9885	Structural steel mesh
9890	Reinforcing wire, reinforcing mats, pit mats
9900	Reinforcing meshes for reinforced concrete
9920	Wire meshes
9930	Wire mesh
9932	Wire mesh
9950	Wire ropes and strands
9960	Wire and wire products
9970	Iron, free-cutting, cold extrusion and cold heading wires
9980	Iron fine and superfine wires
9990	Iron and steel wire, drawn
10000	Spring steel wire, oil hardened
10010	Spring steel wire, unalloyed
10015	Profile wire
10020	Flat and shaped wires
10025	Threaded steel
10030	Other wire products
10035	Prestressing steel
10040	Prestressing steel, prestressed concrete strands
10050	Galvanized and PVC coated iron wire

15.08. Steel construction

- 10058 Car lifts, mobile
- 10060 Automatic reinforcement station
- 10070 Sheet metal structures
- 10080 Bridge construction
- 10090 Hall construction
- 10100 Masts
- 10110 Steel construction, general
- 10115 Joining technology in steel construction, general
- 10120 Steel construction, general
- 10130 Assembly hall construction

15.09. Services

- 10140 Deep hole drilling, contract
- 10141 Deep hole drilling, horizontal
- 10145 Forming and smoothing
- 10146 Cutting tool steel

16 Furnace and energy technology

- 10150 Engineering and technical assistance
- 10152 Waste gas systems behind electric arc furnaces
- 10154 Waste heat systems behind walking beam furnaces and pusher furnaces
- 10160 Complete heating systems
- 10170 Furnace optimization (conversion to low NOx combustion)
- 10180 Process control systems for industrial furnaces and energy plants
- 10190 Rational use of energy

16.01. Rolling mill furnaces

- 10200 Deep annealing furnaces
- 10210 Rolling mill furnaces, induction
- 10220 Rolling mill furnaces

16.02. Forging furnaces

- 10230 Forging furnaces
- 10240 Forging furnaces, gas fired
- 10250 Forging furnaces, induction

16.03. Roller Hearth Continuous Furnaces

- 10260 Roller Hearth Continuous Furnaces
- 10270 Roller hearth and walking beam furnaces

16.04. Continuous furnaces for wide strip

- 10280 Strip heating, inductive
- 10290 Strip edge heating, inductive
- 10300 Continuous furnaces for wide strip

16.05. Top-hat furnaces

- 10310 Top-hat furnaces
- 10320 Top and pot annealing furnaces

16.06. Vacuum furnaces

- 10330 Vacuum annealing furnaces
- 10340 Vacuum hardening furnaces
- 10341 Vacuum pumps, dry running, for vacuum furnaces

16.07. Hardening and tempering equipment

- 10350 Quenching baths
- 10355 Carburizing furnaces
- 10360 Hardening furnaces
- 10370 Hardening plants, general
- 10375 Hardening and tempering plants, electrically heated
- 10380 Hardening and tempering plants, gas heated
- 10390 Hardening and tempering plants, with inductive heating
- 10400 Hardening and tempering plants, with resistance heating
- 10401 Laser hardening systems
- 10403 Nitriding furnaces

16.08. Heating furnaces and heat treatment plants

- 10408 Continuous furnaces
- 10410 Co-step furnaces
- 10420 Hardening furnaces
- 10430 Bogie hearth furnaces
- 10440 Induction heating plants
- 10450 Industrial furnaces, used
- 10460 Chamber furnaces
- 10470 Conductive heating plants
- 10480 Furnaces with mechanically driven hearth
- 10490 Patenting plants for wire
- 10500 Plasma nitriding plants
- 10505 Radiators
- 10510 Roller hearth and walking beam furnaces
- 10520 Pit furnaces
- 10530 plug furnaces
- 10540 Pusher-type, roller and rotary hearth furnaces
- 10545 Tempering and drying plants
- 10550 Vertical and horizontal strip furnaces for heat treatments
- 10560 Heat treatment plants
- 10562 Heat treatment furnaces (continuous and discontinuous)
- 10570 Heat treatment furnaces for batch operation, open heated

16.09. Bath furnaces

- 10580 Aluminum melting furnaces
- 10582 Aluminum melting and holding furnaces
- 10590 Furnaces and plants for lead coating, galvanizing and tinning
- 10600 Salt and metal bath furnaces

16.10. Industrial furnaces for special purposes

- 10610 Furnaces for the ceramic industry
- 10615 Lime kilns
- 10620 Inert gas, vacuum furnaces
- 10630 Tempering furnaces
- 10640 Drying furnaces for casting cores, molds and mold covers
- 10650 Drying furnaces for stopper rods
- 10652 Microwave ovens / dryers
- 10660 Accessories for industrial furnaces

16.11. Protective gas plants

- 10670 Protective gas plants

16.12. Insulations

- 10680 Block insulation
- 10690 Firing pads
- 10700 Calcium silicate
- 10710 Insulation materials
- 10720 Vibration protection
- 10730 Backing insulation
- 10732 Electrical insulation systems for arc furnaces and transformer houses
- 10735 Heat protection and insulation products
- 10740 Insulating and sealing boards, asbestos-free
- 10744 Insulating fabrics up to 1260°C
- 10746 Insulating cords, tapes, packings and hoses up to 1260°C
- 10748 Support arm insulations, asbestos-free
- 10750 Insulating bricks
- 10760 Cooling pipe insulations
- 10770 Furnace components
- 10780 Sound insulation
- 10790 Vibration insulation
- 10800 Thermal insulation
- 10803 Wool felt for bright annealing furnaces

16.13. Components

- 10805 Exhaust technology
- 10810 Bath rollers
- 10820 Belt coolers, belt dryers
- 10830 Block pressers
- 10840 Block and slab pushers for heating furnaces
- 10850 Burners for gas and oil
- 10860 Custom-made burners
- 10870 Feeding and discharging machines
- 10880 Electric heaters
- 10890 Natural gas burners
- 10895 Furnace probes (for the use of video cameras)
- 10900 Gas burners
- 10910 Generators for protective and reaction gases
- 10915 Hardeners
- 10920 Heating conductors
- 10930 Hearth rollers
- 10950 pulverized coal furnaces (also -plants)
- 10960 Laser light barriers
- 10970 Oil burners
- 10990 Furnace riders
- 11000 Furnace rollers
- 11005 Plasma generators
- 11010 Regenerative burners
- 11020 Recuperative burners
- 11028 Recuperators
- 11030 Recuperators, regenerators
- 11040 Rollers (e.g. from SIC)
- 11050 Safety devices for EAF oxygen-fuel burners
- 11060 Jet tubes
- 11070 Radiant tube burners
- 11078 Vacuum pumps, dry running, for vacuum furnaces
- 11080 Heat exchangers
- 11090 Heat recovery systems
- 11092 Weighing systems for melting furnaces
- 11093 Wool felt for bright annealing furnaces

16.14. Operating materials

- 11110 Hardening agents (also hardening powders and carbon restoration agents)
- 11120 Hardening oils
- 11150 Fire-resistant hydraulic fluids
- 11160 Polymer solutions
- 11170 Lubricants
- 11180 Spray cleaners
- 11190 Heat transfer fluids

16.15. Services

- 11200 Energy consulting
- 11210 Energy saving
- 11215 Commissioning, maintenance and service of heating equipment
- 11240 Planning and projecting of energy-technical plants

17 Refractory technology

- 11245 Product know-how for basic refractory bricks and mixes
- 11248 Monitoring of refractory components

17.01. Raw materials, precursors and binders for refractory materials

- 11250 Aluminum hydroxide
- 11260 Alumina, alumina
- 11263 Reinforcing wires for refractory mixes
- 11265 Binders for the production of refractory materials
- 11270 Electrocorundum
- 11280 Graphite
- 11290 Adhesive sand
- 11300 Coke breeze
- 11310 Coke breeze, dry
- 11320 Magnesium oxide
- 11330 Microsilica
- 11360 Silicon carbide
- 11366 Titanium dioxide
- 11370 Clays
- 11380 Alumina specialties
- 11390 Zirconia

17.02. Plants for the production of refractory materials

- 11400 Equipment for the production of refractory materials

17.03. Refractory materials and equipment

- 11410 Tapping stones for converters and electric arc furnaces
- 11420 Painting, filling and plastering materials
- 11430 Basic ramming, gunning and casting mixes
- 11440 Basic bricks (magnesia, magnesia-chromium, chromium ore, chromite, dolomite, spinel, forsterite and carbon bricks)
- 11450 Calcium silicate
- 11460 Dolomite products
- 11470 Electrode masses
- 11480 Fiber ceramic moldings, vacuum formed
- 11481 Fiber ceramic moldings, vacuum formed, up to 1750°C

- 11485 Fiber mats and felts up to 1600°C
- 11490 Fiber products, ceramic
- 11500 Prefabricated parts, refractory
- 11510 Refractory concrete
- 11512 Refractory concrete, high strength, for industrial floors
- 11520 Refractory products, general
- 11530 Refractory ramming mixes
- 11540 Refractory anchorages
- 11550 Refractory material
- 11560 Lightweight refractory bricks
- 11570 Lightweight refractory and insulating mixes
- 11580 Lightweight refractory and insulating bricks
- 11590 Gas purging equipment, refractory
- 11600 Pouring mixes, self-flowing
- 11610 hearth masses
- 11620 High-fire bricks
- 11630 Blast furnace bricks
- 11640 Induction furnace mixes
- 11650 Insulating material, asbestos-free
- 11660 Isostatically pressed products
- 11670 Carbon and graphite bricks
- 11690 Converter bricks
- 11700 Arc furnace bricks
- 11710 Perforated bricks
- 11720 Masses, refractory (general)
- 11725 MgO-C bricks
- 11730 Mortars and mastics, refractory
- 11740 Mux masses
- 11750 Ladle masses
- 11752 Torpedo ladle lining
- 11755 Ladle lining, monolithic
- 11760 Ladle bricks
- 11768 Products made of \ 050HTW \ 051 high temperature wool
- 11790 Gutter and taphole masses
- 11800 Gutter lining, cooled
- 11810 Acid resistant bricks
- 11820 Acid ramming and centrifugal masses
- 11830 Firebricks
- 11840 Shadow pipe
- 11850 Slide gate ceramics
- 11860 Cast basalt
- 11865 Protective blankets made of textile fabric, refractory
- 11870 Silicon carbide bricks
- 11880 Silica bricks, tondina bricks
- 11886 Special adhesives up to 1200°C
- 11890 gunning and repair compounds
- 11900 Steel mill wear material
- 11910 ramming, casting and vibrating masses
- 11915 ramming, spraying and casting compounds
- 11920 Stoppers and spouts
- 11930 Continuous castings, refractory
- 11940 Immersion tube, monota immersion spout
- 11950 Technical ceramics
- 11960 High-alumina bricks (andalusite, bauxite, corundum, mullite, sillimanite bricks)
- 11970 Torpedo mixer stones
- 11980 Tundish masses
- 11985 Pouring compounds, cement-free, for blast furnace tapping troughs
- 11990 Vermiculite
- 12000 Thermal insulation materials, asbestos-free

- 12004 Vacuum formed parts
- 12005 Vacuum formed parts, without ceramic fibers
- 12010 Wollastonite
- 12020 Zircon nozzles
- 12030 Zircon containing stones
- 12040 Zircon sand / flour)

17.04. Processing of refractory materials

- 12050 Processing of used refractory materials
- 12060 Testing of FF materials

17.05. Machines for refractory construction

- 12070 break-out hammers, pneumatic and hydraulic, for electric furnaces, converters, ladles and troughs
- 12071 Excavation robots
- 12075 Chipper
- 12080 Converter tap hole repair vehicles
- 12095 Converter lining devices
- 12100 Manipulators for FF masses
- 12110 Ladle spraying machines
- 12118 Pumping machines for refractory materials
- 12120 Pumping machines for refractory materials
- 12130 Centrifugal machines for FF-masses
- 12140 Spraying machines for FF materials
- 12150 Tamping plants, autom., for ladles

17.06. Refractory construction

- 12160 lining of all kinds of furnaces
- 12170 Firing chambers
- 12175 Refractory anchors
- 12180 Refractory construction
- 12190 Refractory ramming mixes
- 12200 Suspended ceilings

17.07. Services

- 12204 Training - Refractory
- 12205 Refractory maintenance at operating temperature
- 12206 Refractory systems

18 Machinery and plant engineering

- 12210 Plant engineering, general
- 12220 CAD design
- 12230 Engineering and technical assistance
- 12240 beams, columns, shafts
- 12250 Industrial Engineering
- 12258 Standard parts for cutting and punching tool construction
- 12260 Cleaning and cleaning materials
- 12270 Second-hand machines (purchase and sale)
- 12280 Special constructions
- 12285 Heat exchangers
- 18.01. Mining equipment, machines and supplies
- 12290 Plants and machines for underground mining
- 12300 Bucket elevators

- 12309 Conveyor systems
12310 Conveying plants and machines
12330 Mine support profiles
- 18.02. Chemical plants and accessories**
12350 Tank and apparatus construction
12360 Liquid gas - storage stations
12370 Gas tanks
12390 Acid chimneys
12400 Acid and chemical resistant plants and equipment
12410 Nitrogen production plants
- 18.03. Steam generation plants and equipment**
12425 Exhaust gas technology
12430 Waste heat boilers
12440 Steam filters
12450 Steam boilers, general
12460 Pressure boilers
12470 Hydrazine removal
12480 Pulverized coal firing systems
- 18.04. Foundry equipment, machinery and supplies**
12354 Casting ladles
12500 Molding machines
12530 Foundry equipment, machines and supplies
12535 Foundry tools
12540 Foundry consulting and engineering
12542 Foundry software
12550 Core shooters
12560 fettling machines
12570 Robots
12580 Sand mixers
12586 Melting furnaces, inductive
12590 Shaking ladles
12592 Crucible tongs
12605 Vacuum investment casting plants-super alloys
12607 Vacuum investment casting plants with cold crucibles for titanium or titanium alloys
- 18.05. Power plants and power stations**
12610 Power plants and power stations, steam
12620 Power plants and power stations, electric
- 18.06. Ventilation plants and equipment**
12630 Blowers
12635 Industrial fans
12650 Air conditioners, general
12660 Air conditioners for heat plants
12670 Air conditioners for crane lances, crane bridges, etc.
12690 Expansion joints
12700 Ventilation ducts
12710 Ventilation systems and equipment, general
12720 Natural ventilation
12730 Induced draught systems and equipment
12740 Ventilators
- 18.07. Water treatment plants, equipment and accessories**
12750 Chemical water treatment
12760 Pressurized water plants and accumulators
12770 Filtering plants for circulating water
12780 Rubber compensators
12790 Cooling towers
12793 Cooling water / circulating water systems
12796 Magnetic filters
12800 Press water additives
12810 Water treatment systems
12830 Water demineralization, treatment and recycling
12840 Water recooling systems
12846 Water filtration
- 18.08. Other plants**
12848 Chillers
12850 Slag granulation hoses
12860 Slag recycling plants (also slag granulation plants)
12862 Slag granulation plants
12870 Lube oil plants
- 18.09. Maintenance**
12880 Spare parts and consumables
12890 Maintenance, general
12892 Maintenance organization
12894 Maintenance systems
12896 Repair, overhaul and modernization of machine tools
12900 Maintenance of large gear units
12920 Maintenance of continuous casting plants for ingots and slabs
12930 Maintenance of continuous casters for ingots and billets
12950 Repair of ingot molds
12960 Repair of ingot molds
12964 Cooling system cleaning
12970 Ladle repair, FF
12980 Repairs, spare parts
12983 Software for maintenance
12990 Preventive maintenance
13000 Heat exchanger cleaning
13010 Condition based machine maintenance
- 18.10. Power and work machines**
13020 Steam turbines
13021 Gas turbines
13030 Rotary compressors
13040 Compressed air equipment
13050 Natural gas, gas transmission compressor stations
13060 Natural gas HP storage
13070 Piston pumps
13080 Piston compressors
13083 Corrosion resistant pumps
13090 Centrifugal pumps
13100 Mixing units for all fuel gases
13120 Lubrication pumps
13130 Screw compressors
13150 Turbo compressors
13160 Vacuum pumps
- 18.11. Gearboxes and drive elements**
13168 Drive elements
- 13170 Drive engineering
13174 Valve gearboxes
13180 Brakes
13190 Brake disc mounting
13195 Torque limiter
13200 Flange couplings
13210 Cardan joints
13220 Cardan shafts
13230 Gear rollers
13240 Gearboxes and drive elements
13250 Large gearboxes
13255 Chain drives and sprockets
13260 Hirth serration
13261 Hirth spur gearing
13270 Couplings
13285 Couplings, flexible, elastic
13290 Couplings, mechanical and hydrodynamic
13300 Planetary gearboxes
13308 Slew drives
13310 Safety couplings
13318 Spindles
13320 Special constructions
13350 Shaft-hub couplings (backlash-free)
13360 Shaft couplings (rigid)
13370 Winding shafts
13380 Gear drives
13390 Gear wheels
13395 Gearbox repairs
- 18.12. Bearings**
13400 Slewing rings
13404 Elastomeric bearings
13406 Spherical plain bearings / rod ends
13410 Plain bearings
13420 Ceramic-metal compact plain bearings
13430 Ball bearings
13440 Cam rollers
13460 Linear systems
13470 Roller bearings
13480 Yoke type track rollers
13484 Thermal separation
13485 Support and guide rollers
13490 Rolling bearings
13492 High-temperature rolling bearings
13500 Roller bearings
- 18.13. Oil hydraulic systems, equipment and accessories**
13508 Rotary distributors
13510 Rotary feeders
13520 Pressure measuring, switching and writing devices
13530 Pressure switch
13540 High pressure flange connectors
13550 Hydraulic systems
13560 Hydraulic and shaft seals
13570 Hydro gears
13580 Hydro motors
13590 Hydro pumps
13595 Hydraulic accumulators
13600 Hydro valves
13610 Hydraulic cylinders
13620 Oil hydraulic systems, devices and accessories
13630 Vibration dampers
13640 Servo valves
13645 Continuous valves

- 13660 Complete plants, oil hydraulic
13670 Water hydraulic

18.14. Control systems and components

- 13680 Shut-off valves
13690 Automatic inflow control
with distribution gate valves
13695 Torque limiters
13710 Electro-hydraulic actuators
13718 Electro-servo cylinders
13720 Multipoint single
and multi-purpose regulators
13730 Control systems, complete
13740 Control valves
13760 Actuators
13780 Continuous single
and multi-purpose regulators

18.15. Piping and accessories

- 13786 Exhaust gas technology
13790 Butterfly valves
13800 Asbestos-free fabric expansion joints
13810 Fittings
13820 Flanges
13840 Rubber expansion joints
13850 High pressure pipe technology
13859 Safety valves
13860 Expansion joints
13890 Pipe break safety valves
13900 Pipe swivels
13910 Piping and accessories
13920 Pipeline construction
13930 Piping accessories
13940 Check valves
13945 Hoses
13947 Flexible hoses with ceramic wear protection
13950 Plug-in disc gate valves

18.16. Stranding machines

- 13955 Stranding machines
13958 Rope making machines

18.17. Tool and model making

- 13956 Mold frames, mold assemblies
13960 Materials for model
and prototype construction
13970 Model and prototype making

18.18. Machine tools

- 13980 Cutting-off machines
13990 External thread cutting machines
14000 Band sawing machines
14010 Bending and straightening machines
14015 Slab sawing machines
14020 Wire working and processing machines
14030 Flow-forming machines
14040 Milling machines
14060 Spark erosion machines
14070 honing and lapping machines
14080 Cable sheathing presses
14081 Cable sheathing presses
(lead and aluminum)
14088 Sharpening machines
14090 Cold circular saws
14095 Hot circular saws
14100 Mould processing machines

- 14120 profile and flat shears
14130 Shears (standing, flying)
for metallurgical operations
14140 Shears (standing, flying)
for sheet metal working
14150 Shearing centers
14160 Grinding and polishing machines
(also internal)
14170 Special machines for chip forming
14180 Special machines for chipless forming
14190 Special machines for special tasks
14195 Concrete sawing machines
14200 Stone cutting saws
14210 Plate shears
14220 Cut-off machines

18.19. Tools

- 14230 Press brake tools
14240 Drills
14242 Taphole drilling tools
14250 Diamond tools
14260 Pneumatic tools
14280 Carbide (also metal carbide)
14290 Tungsten carbide inserts
and molded parts
14300 Carbide tools
14302 HM tipped saw blades
14304 HP grinding wheels
14306 Saw bands and blades for metallic
and non-metallic materials
14310 Saw blades for metal
14318 Cutters
14320 Shear blades
14323 Splitting knives and accessories
for splitting lines
14330 Abrasives and grinding wheels
14334 Special tools for die casting industry
14336 Cutting wheels
14337 Roll grinding wheels
14338 Cutting and special tools

18.20. Clamping technology

- 14380 Clamping hydraulics
14400 Clamping elements
14401 Clamping tools, screws

18.21. Components

- 14410 Seals
14412 Seals with high chemical
and thermal resistance
14420 Rotary seals for feeding gases
or liquid media
14430 Cooling water circulation units
for continuous casting-rolling lines
14440 Nozzles
(also blow-off and descaling nozzles)
14450 Pistons
14460 Metal hoses
14470 Buffers (rubber and cellular buffers)
14480 Stuffing box packings
14490 Wear plates

18.22. Operating fluids

- 14500 Solid lubricants
14510 Industrial oils
14520 Cooling lubricants

18.23. Tribology

- 14522 Dosing and monitoring equipment
for lubricants
14523 Oil circulation systems for bearing
and gear lubrication
14524 Two-line grease lubrication systems for
metallurgical plants and rolling mills
14525 Special lubricants
14526 Central lubrication systems
14527 Machines for degreasing and lubrication

18.24. Services

- 14528 Service for compressors and turbines
14529 Mechanical processing of hydraulic parts

19 Transport and storage technique

- 14530 Engineering and technical assistance
14535 Hot material conveyors
14540 Transport and logistics for industrial
residues
14545 Hot material conveyors
14548 Transport
14550 Transport technology

19.01. Metallurgical plant vehicles

- 14560 Slab, bloom and billet transporters,
rubber tires
14570 Coil transport systems
14580 Coil transporters
14590 Steel mill vehicles, general
14600 Metallurgical plant vehicles, track-bound
14605 Air cushion vehicles-FTS
14610 Slag ladle transporters
14620 Slag transporter
14630 Scrap transport trailers
with weighing equipment
14640 Steel mill vehicles

19.02. Rail vehicles

- 14650 Diesel locomotives
14660 Railroad wagons
14670 Self-propelled wagons

19.03. Track technology

- 14680 Turntables and transfer cars
14684 Track technology
14690 Shunting systems

19.04. Trackless vehicles

- 14700 Trailers
14705 Trucks and trailers
14720 Electric industrial trucks
14730 Electric trucks
14734 Electric four-way sideloaders
14740 Driverless transport systems
14742 Driverless transport systems
for steel and aluminum coils
14750 Forklifts and cross stackers
14760 Rubber-tired heavy-duty
transport vehicles
14810 Heavy-duty tractors
14820 Telescopic excavators
14822 Transport systems for coils

19.05. Continuous conveyors

- 14830 Conveyors (general)
- 14840 Pneumatic conveyors
- 14850 Vibratory conveyors
- 14860 Vertical conveyors
- 14880 Steep conveyors
- 14890 Continuous conveyors for bulk material
- 14900 Continuous conveyors for piece goods
- 14910 Conveyor belts and screws
- 14920 Trough chain conveyors

19.06. Cranes

- 14930 Slewing cranes
- 14940 Casting cranes
- 14945 Crane systems, automatic
- 14946 High capacity automatic cranes
- 14950 Cranes, hoists and accessories, general
- 14955 Crane service
- 14960 Overhead travelling cranes
- 14970 Gantry cranes
- 14980 Bracket cranes
- 14990 Buffers
- 14992 Vacuum lifting devices for heavy industry
- 14993 Automatic stacking devices (vacuum lifting devices)

19.07. Scales

- 14997 Bundle and coil scales
- 15000 Batching and blending scales
- 15010 Track and truck scales
- 15020 Crane scales
- 15030 Roller table scales
- 15040 Scales for continuous weighing
- 15041 Scales for alloying elements
- 15042 Scales for pig iron
- 15043 Scales for scrap
- 15044 Scales for static weighing
- 15045 Scales for stationary weighing
- 15050 Weighing systems for ladle turrets and ladle cars
- 15060 Load cells
- 15080 Weighing systems for silos

19.08. Storage and retrieval systems

- 15090 Bund high-bay warehouse
- 15100 Container staging systems
- 15110 Labeling systems
- 15120 Lattice girder storage systems
- 15130 Manual overhead conveyors
- 15134 Aerial work platforms
- 15140 Storage technology and automation systems for sheet metal, long goods and stacking boxes
- 15141 Storage technology and automation systems for sheet metal, long goods and stacking boxes
- 15150 Storage and retrieval systems
- 15155 Storage systems for coils
- 15160 Storage and racking systems
- 15164 Long goods order pickers, high rack stackers
- 15170 Marking systems
- 15180 Pallets and cassettes
- 15188 Vertical elevators (paternosters)
- 15190 Stacker cranes
- 15193 Traversers and turning devices

- 15195 Honeycomb racking systems

19.09. Warehouse organization

- 15198 Labels
- 15200 Identification
- 15208 Warehouse logistics
- 15210 warehouse organization)

19.10. Components

- 15220 Slings equipment
- 15230 Loading and unloading equipment
- 15240 Sheet metal package tongs
- 15250 block pushers, extractors
- 15270 Bunker discharge aid
- 15280 Bunker and silo equipment
- 15290 Coil and sheet metal packaging
- 15300 Coil tongs
- 15310 Permanent magnets
- 15320 Electrical equipment for cranes etc.
- 15330 Electric hoists
- 15333 Distance measuring devices for cranes
- 15335 Labels
- 15340 Conveyor belt cover
- 15350 Conveyor belt scraper
- 15360 Conveyor devices and equipment
- 15370 Conveyor belt splices
- 15380 Conveyor belt vulcanizing equipment and material
- 15390 Grippers and tongs
- 15400 Handling machines
- 15410 Lifting clamps, safety lifting clamps
- 15420 Industrial robots, metallurgical, sensor controlled
- 15430 Chains
- 15431 Sprockets
- 15440 Tipping eyes, tipping shackles
- 15450 Crane wheels
- 15455 Crane ropes
- 15460 Storage yard equipment
- 15470 Laser distance measuring devices for cranes
- 15480 Load lifting belts
- 15490 Lifting magnets and equipment
- 15500 Magnetic brakes
- 15510 Magnets, magnet systems
- 15511 EGIS safety device for electric lifting magnets
- 15520 Wheels
- 15530 Corrosion, friction and wear protection
- 15540 Bulk containers
- 15550 Pulleys
- 15555 Safety device for electric load lifting magnets
- 15560 Separation magnets
- 15570 Silos for FF-masses
- 15580 Silos for bulk materials
- 15590 Handling plants for bulk materials
- 15600 Deflection rollers
- 15610 Packaging technology
- 15620 Wear protection coatings with aluminum oxide ceramics
- 15630 Wear protection coatings with rubber
- 15632 Wear protection technology
- 15635 Track-bound tippers
- 15640 Wagon tipper
- 15650 Hot transport and cooling hoods for steel ingots

- 15652 Weighing systems for steel production

19.11. Operating materials

- 15660 Lubricants

19.12. Packaging technology

- 15662 Automated packing stations for coils and long goods
- 15664 Packaging materials

20 Electrical engineering and automation

- 15670 Electromechanical actuators
- 15680 Engineering and technical assistance
- 15690 Technical translations and documentation

20.01. Electrical equipment for metallurgical plants and rolling mills

- 15700 Workplace design systems
- 15720 Three-phase motors
- 15730 Electrical equipment for metallurgical plants and rolling mills
- 15740 Electrical equipment for rolling mills
- 15750 Large electrical installations, complete
- 15760 Power supply systems for mobile consumers
- 15770 Spring cable reels
- 15780 Spring hose reels
- 15785 Radio remote controls
- 15788 Radio systems
- 15790 Radio control systems
- 15800 Gear motors
- 15810 DC motors
- 15820 High current cables and lines, water cooled
- 15830 Cables and wires
- 15840 Cables, cable reels and accessories
- 15850 Motorized cable reels
- 15860 Low voltage switchgears and installations
- 15870 Switchgears
- 15880 Slip ring bodies
- 15890 Fuse systems
- 15900 Heavy current capacitors
- 15910 Plugs and socket-outlets
- 15920 Power converters (frequency converters)
- 15930 Power supply systems (movable and also busbars)
- 15940 transformers (also for industrial furnaces)
- 15960 AC and intercom systems
- 15962 High voltage feeders and contacts

20.02. Control and automation systems

- 15967 Electrical, instrumentation and control engineering, general
- 15968 Installations for anisotropic control technology
- 15970 Automation, general
- 15980 Automation plants for ore and fine ore
- 15990 Automation plants for blast furnaces
- 16000 Automation plants for industrial furnaces, general
- 16010 Automation plants for cold rolling mills
- 16020 Automation plants for coking plants
- 16030 Automation systems for steel mills

- 16035 Automation systems for blast furnaces
- 16040 Automation systems for hot rolling mills and tube mills
- 16041 Automation systems for hot rolling mills
- 16050 Automation plants and process control systems in metallurgical plants and rolling mills
- 16055 Automation of strip processing lines
- 16060 Automatic detection systems
- 16063 Strip guiding systems
- 16070 Data transmission equipment and systems
- 16080 Industrial television technology
- 16090 Information and communication systems
- 16100 Identification
- 16110 Customized complete systems
- 16120 Guidance systems (inductive) for vehicles
- 16130 Control systems (by image processing) for vehicles
- 16140 Control and automation systems, general
- 16150 Positioning systems for cranes
- 16160 Process automation
- 16162 Process automation for strip processing lines
- 16170 Process automation for continuous steel casting plants
- 16180 Process automation for metallurgical plants
- 16190 Process control systems
- 16192 Process control with infrared detectors
- 16200 Process optimization
- 16202 Process optimization with weighing systems
- 16205 Shopfloor systems
- 16210 Control systems, complete
- 16220 Control stations for metallurgical and rolling mill plants
- 16230 Control systems, electrical
- 16240 Control systems, electronic
- 16250 Control systems for press water tanks
- 16260 Control systems, hydraulic
- 16270 Control systems, infrared
- 16280 Power supplies for automation and control
- 16290 Networking
- 16293 Video technology
- 16295 Weighing systems for process automation in steelworks

20.03. Data processing

- 16300 Analog devices and accessories
- 16305 Archiving
- 16310 Production and machine data acquisition BDE / MDE
- 16320 Data acquisition devices and systems
- 16330 Data processing
- 16338 Digital image processing
- 16340 Digital devices and accessories
- 16350 Expert systems
- 16355 Manufacturing Execution System (MES)
- 16360 Turnkey system solutions, hardware \ 057software
- 16380 X-Window Terminal

20.04. Software

- 16390 Simulation software
- 16393 Software for archiving, document management and workflow

- 16395 Software for order processing, warehouse and test certificate management
- 16400 Application software
- 16410 Software for slitting lines
- 16415 Enterprise resource planning system for metal and steel trade
- 16420 Software for production planning and control
- 16430 Software for statistical process control and quality assurance
- 16440 Technical calculation programs
- 20.05. Maintenance**
- 16450 Machine diagnostics
- 16460 Maintenance and inspection

21 Measuring and testing technique

- 16470 Gas measuring instruments for degreasing plants
- 16472 Gas measuring devices for metal degreasing plants
- 16480 Gas measuring devices for metal cleaning plants
- 16488 Multichannel measuring systems
- 21.01. Measuring and testing technology, general**
- 16490 Automation and metrology, color measurement
- 16500 Pressure transducers
- 16508 Corrosion testers
- 16510 Metrology
- 16511 Measuring magnetism
- 16520 Measuring and testing systems, general
- 16530 Measuring and testing systems, general
- 16540 Measurement value acquisition
- 16550 Measured value processing
- 16552 Measuring and test equipment identification labels
- 16553 Measuring equipment and test status identification labels
- 16560 Radioactivity warning systems
- 16564 Recorder systems, paperless
- 16566 Pre-warning of melt breakthroughs and residual wall thickness measurement on refractory linings
- 16568 Roll gauges

21.02. Measurement of physical properties

- 16570 Distance measuring system
- 16580 Distance sensors for positioning and length measurement (laser, ultrasonic, optical, inductive and capacitive)
- 16581 Distance sensors for positioning and length measurement (magnetostrictive)
- 16590 Bath mirror measurement in converter
- 16600 Bath mirror control
- 16608 Strip thickness control (AGC)
- 16610 Strip sag measuring device
- 16612 Strip flatness measurement
- 16613 Strip flatness control
- 16615 Strip guiding system

- 16620 Tape tension measuring systems
- 16625 Tension measuring system for driven S-rolls
- 16630 Width measuring devices
- 16640 Strain gauges and measuring strips
- 16645 Strain measuring systems
- 16650 Strain and mass flow measuring systems
- 16652 Dressing degree and mass flow measuring systems
- 16660 Thickness measuring systems and devices
- 16670 Thickness gauges
- 16680 Distance switches and measuring devices (optical, acoustic and inductive)
- 16690 Torque measuring devices for S-rollers
- 16700 Torque measuring device
- 16710 Speed measuring devices
- 16720 Flow meters
- 16721 Flow measuring devices, capacitive, e.g. for coal injection
- 16730 Flow monitoring
- 16740 Diameter measurement
- 16750 Electrical measurement of mechanical quantities
- 16755 Electronic measuring system for hydraulic and lubricating oils
- 16770 Form measurement
- 16780 Level measuring devices
- 16790 Level control
- 16800 Level control
- 16810 Gas measuring instruments
- 16815 Oxygen sensors for waste gas
- 16820 Equipment and chemicals for waste water control
- 16830 Speed measuring devices
- 16850 Infrared switch
- 16860 Infrared radiation pyrometer
- 16861 Infrared radiation thermometer with scanner
- 16870 Infrared radiation pyrometer with scanner
- 16871 Infrared Radiation Thermometer
- 16875 Infrared thermography
- 16877 IR camera - infrared based slag detection
- 16878 Cameras, furnace cameras
- 16879 Cast iron temperature measurement
- 16880 Insulating capillary
- 16890 Force measuring devices for tension and compression
- 16891 Force measurement and weighing systems
- 16892 Force measuring systems
- 16900 Cooling water monitoring
- 16910 Length measuring devices for tubes
- 16920 Linear encoders
- 16930 Linear encoders (also for ways and distances)
- 16940 Linear encoders, ultrasonic (also for ways and distances)
- 16950 Length and speed measuring systems (optical)
- 16960 Laser speed and length measuring systems
- 16970 Conductivity and pH meters
- 16980 Mass flow meters
- 17000 Measurement of refractory linings (in operating condition)
- 17010 Measuring devices for electrical quantities

17020 Measuring machines
 17030 Measurement printers
 17033 Microstructure / roughness measurement
 17035 Surface crack detection
 17040 Opto-electronic measuring instruments
 17050 Flatness measuring devices
 17057 Profile measuring devices
 17060 Profile measuring systems (non-contact)
 17080 Pyrometer
 17090 Pyrometer tubes
 17100 Ratio pyrometer
 17105 Inline concentration measurement of liquids
 17110 Probes for liquid pig iron
 17120 Tube measuring equipment
 17130 Coating thickness gauges
 17133 Coating thickness control
 17135 Layer thickness control
 17138 Slag detection with infrared
 17140 Slag detectors
 17160 Forging measurement
 17180 Vibration measuring devices
 17190 Rope testing equipment for round and flat steel ropes (rope belt conveyors)
 17200 Dust measuring equipment
 17210 Equipment for radiation measurements
 17220 Systems for nuclear radiation measurement (input control)
 17230 Immersion thermocouples
 17250 Temperature measurement equipment
 17255 Temperature profile measuring systems
 17260 Thermocouples
 17270 Thermocouple protection tubes
 17274 Thermographic measurement
 17280 Thermal conductivity measuring systems
 17290 Rolling mill force measuring systems
 17300 Rolling mill measuring systems
 17310 Resistance thermometers
 17320 Line scan cameras
 17322 Non-destructive thickness measurement of refractory linings (during furnace shutdown)
 17325 2-color pyrometer with fiber optics

21.03. Quality management

17340 3-D profile measurement of rails and other profiles
 17341 3-D profile measurement of weld seams
 17345 Pickling bath monitoring
 17350 Breakdown early detection
 17352 Breakdown early detection and monitoring
 17360 Breakdown monitoring
 17365 Chrome bath monitoring
 17368 Roller emulsion control
 17370 In-line surface inspection, optical
 17380 Measuring instruments for quality management
 17384 Mold control
 17390 Length, speed and profile measuring systems
 17400 Hole detection
 17408 Surface inspection
 17409 Surface inspection systems
 17410 Surface inspection
 17415 Surface inspection of strip steel
 17426 On-line measurement of oils and waxes
 17430 On-line surface inspection, optical

17432 On-line surface quality inspection, optical
 17440 On-line roughness measurement
 17445 Systems for quality data acquisition and processing

21.04. Quality control

17446 Strip edge inspection
 17447 Strip steel surface inspection, automatic and complete
 17448 Strip steel surface inspection, automatic and complete
 17450 Quality control, visual
 17460 Testing services
 21. Mai Services
 17470 Metrology services

22 Materials testing

17473 Destructive and non-destructive materials testing

22.01. Non-destructive materials testing

17480 Consulting, execution, equipment
 17490 Image processing, barcode readers
 17500 Demagnetization equipment
 17510 Internal pressure testing equipment
 17520 Corrosion testing
 17530 Measuring and testing machines
 17536 Training and certification for NDT
 17540 Ultrasonic testing equipment / machines
 17560 Non-destructive testing of round and flat steel cables
 17570 Non-destructive pipe testing equipment
 17580 Non-destructive material testing equipment, general
 17589 Non-destructive material testing equipment, acoustic
 17590 Non-destructive material testing equipment, electromagnetic
 17620 Non-destructive material testing equipment, optical
 17630 Non-destructive materials testing with X-rays
 17640 Non-destructive materials testing with acoustic emission analysis
 17650 Non-destructive materials testing equipment with ultrasound
 17660 Non-destructive materials testing
 17664 Non-destructive materials testing with fluorescent and red / white penetrant methods
 17665 Non-destructive material testing with fluorescent and red / white test method
 17670 Non-destructive materials testing with coupling agent-free ultrasonic excitation
 17680 Non-destructive materials testing, optoelectronic
 17690 Non-destructive materials testing (service)

22.02. Strength testing, endurance testing

17698 Fixtures for tensile testing
 17700 Stress analyses and reliability tests on machines and components
 17710 Consulting, execution, equipment
 17720 Fatigue testing machines

17730 Hardness testers
 17740 Hardness testing equipment
 17750 Machines for tensile test preparation
 17760 Friction and wear testing machines
 17770 Crack testing machines
 17780 Pipe testing presses
 17790 Torsion testing machines
 17800 Universal testing machines for tension, compression, bending and tensile tests

22.03. Technological testing methods, testing service

17810 Chemical analyses
 17820 Grain size analysis
 17830 Mechanical-technological testing
 17840 Metallographic testing
 17850 Technological testing
 17852 Technological testing, microscope image analysis
 17860 Deep drawing testing machines for sheets and strips
 17870 Conversion of conventional universal testing machines to electronic measurement with data processing
 17880 Roll testing (concentricity, eccentricity)

22.04. Destructive material testing

17888 Corrosion testing
 17890 Machines for the production of notched bar impact specimens

22.05. Fatigue testing

17896 Testing of safety valves in operating condition

22.06. Damage analysis

17898 Damage analysis

23 Analysis and laboratory equipment

17900 Engineering and technical assistance

23.01. Sampling and sample preparation

17910 Gas probes, gas sampling probes
 17915 Sampling
 17920 Sampling equipment
 17940 Sample punching
 17950 Sample transport
 17960 Sample preparation
 17970 Sample preparation for X-ray fluorescence analysis
 17980 Sample preparation for OES and XRF (X-ray testing)
 17990 Sample preparation machines
 18000 Spectrometer sample preparation with remelting equipment
 18010 Punching tools for samples

23.02. Analytical equipment

18020 Analytical instruments
 18022 Devices for inline concentration measurement of liquids
 18025 Analyzers for oxygen measurement

- 18027 Automated analyzers for process control and wastewater management
 18030 Automation equipment for analysis and laboratory
 18040 Gas analyzers
 18048 Laser induced fluorescence
 18050 Laser plasma spectrometer
 18059 Mass spectrometers
 18060 Conductivity and pH measuring instruments
 18070 Oil-in-water monitoring in the laboratory and in industry
 18080 Optical emission spectrometers
 18090 O₂ analyzers
 18100 Plasma spectrometers
 18105 X-ray diffractometers
 18110 X-ray fluorescence spectrometer
 18120 X-ray fluorescence spectrometers, portable
 18130 Oxygen probes
 18138 Heavy metal analysis in water, laboratory, field, process and online
 18140 Nitrogen analyzer system for direct determination
 18150 Nitrogen probes
 18160 Hydrogen analysis system for direct determination
 18170 Hydrogen probes
 18180 Accessories for analytical technology

23.03. Laboratory equipment, general

- 18190 Analytical standards
 18200 Analytical reference material
 18202 Equipment for sample preparation for OES and XRF (X-ray testing)
 18210 Calibration samples
 18220 Annealing boxes
 18230 Laboratory furnaces
 18240 Laboratory equipment
 18250 Laboratory automation
 18260 Shuttles
 18264 Shuttles and HF crucibles for C+S determination
 18270 Spectral samples
 18280 Crucibles

23.04. Metallography

- 18290 Services
 18300 Metallography equipment
 18310 Metallographic laboratories
 18320 Metallographic testing

24 Environmental protection and disposal

- 18330 Consulting and measurement
 18340 Engineering and technical assistance

24.01. Dedusting and gas cleaning

- 18342 Exhaust gas technology
 18348 Oxygen sensors for exhaust gas
 18350 Exhaust systems
 18360 Exhaust gas cooling systems
 18362 Exhaust gas cooling with heat recovery
 18370 Exhaust gas cleaning systems

- 18375 Secondary exhaust gas cleaning systems
 18376 Sintered exhaust gas cleaning systems
 18377 Desulfurization of sinter flue gases
 18378 Exhaust gas cleaning for pellet plants
 18380 Waste heat boiler
 18390 Aerosol separation
 18400 Treatment of dusts from steel mills and foundries
 18410 Electrostatic precipitator
 18420 Dedusting and gas cleaning
 18430 Dedusting plants and accessories, general
 18440 Dedusting filters and plants (cassette, cartridge, round, bag, pocket filters, etc.)
 18450 Denitrification plants
 18460 Denitrification catalysts (DENOX)
 18470 Fine dust removal for sinter plants
 18480 Filter media
 18490 Gas recovery plants
 18500 Fabric filters
 18510 Casting shop dedusting
 18515 Blast furnace exhaust gas cleaning
 18520 Hot gas filtration
 18530 Industrial vacuum cleaners
 18535 Catalytic plants
 18536 Catalyst service
 18540 Compact air cleaner
 18550 Laser Clean Box
 18560 Air filters (also in-line filters)
 18570 Multicyclones and cyclones
 18580 Afterburning, catalytic
 18590 Afterburning, thermal
 18600 Wet dust collectors
 18608 Wet dedusting systems
 18610 Wet fine dust removal for sinter plants
 18615 Wet electrostatic precipitators
 18620 Wet cleaning plants
 18630 Flue gas desulfurization for boiler and sinter plants
 18640 Flue gas cleaning plants for waste and hazardous waste incinerators
 18650 Dust collectors
 18660 Dust measuring devices
 18670 Dust recovery plants
 18690 Thermal exhaust air purification
 18693 Dry exhaust gas cleaning plants
 18700 Dry dedusting plants (also rotary flow dedusters)
 18710 Dry cleaning plants
 18720 Venturi dust collectors
 18728 Central exhaust systems
 18730 Central dust extraction plants

24.02. Waste water treatment

- 18740 Waste water plants, grease separators, chemical pumps
 18750 Waste water treatment
 18755 Waste water treatment, thermal
 18756 Wastewater treatment for wastewater containing oil and grease
 18760 Wastewater treatment plants
 18770 Chemical water treatment
 18774 Evaporation plants
 18790 Wastewater treatment plants
 18800 Recirculation systems
 18802 Recirculating water treatment
 18810 Solvent recovery plants
 18820 Neutralization and detoxification plants

- 18830 Sludge dewatering, mobile
 18840 Sludge dewatering, stationary
 18842 Water management

24.03. Regeneration plants

- 18870 Regeneration plants for pickling solutions
 18880 Acid resistant collection cups and wall coatings with DIBt test mark
 18890 Sand regeneration plants

24.04. Recycling and waste disposal

- 18900 Exhaust air purification
 18910 Remediation of contaminated sites
 18920 Plants for the recycling of raw materials (dusts)
 18921 Plants for the recycling of residual materials
 18922 Car recycling plants
 18923 Electric arc dust recycling
 18925 Biological exhaust air treatment
 18930 Soil and groundwater remediation
 18940 Flaring plants, thermal afterburning
 18970 Injection plants for filter dust
 18975 Injection plants for alloy and residual materials using oxygen burners
 18980 Storage of substances hazardous to water
 18990 Oil and grease removers
 18997 Radioactive substances
 19000 Residue-free vibratory grinding
 19005 Slag processing (slag transport and recycling)
 19009 Chimney construction
 19010 Chimneys (also sheet metal chimneys)
 19020 Separation of non-ferrous metals
 19045 Plants for preparation and recycling of metallurgical residues
 19050 Other disposal plants
 19060 Recycling of residual materials (ashes, slags, dusts, sands)
 19070 Rolling mill slag de-zincification
 19072 Dezincification of metallurgical dusts
 19080 Recovery of recyclable materials
 19090 Fluidized-bed drying of steel mill sludges

24.05. Components

- 19110 Separators (gasoline, benzene, oil, water)
 19114 Aerators and agitators
 19120 Emulsion splitting plants
 19130 Injection plants for processed, oil-containing mill scale sludges
 19140 Injection plants for Carbo Fer
 19150 Injection plants for PE granules
 19160 Heat exchangers

24.06. Operating materials

- 19170 Activated carbon
 19180 Lignite coke
 19190 Oil binder
 19200 Lubricants

24.07. Services

- 19210 Exhaust gas measurements
 19220 Chemical and mineralogical analysis
 19230 Emission measurements
 19232 Simulation software for exhaust gas measurement with design and optimization of exhaust systems

25 Occupational safety and ergonomics

25.01. Occupational safety

- 19240 Occupational safety clothing
- 19260 Respiratory protection masks
- 19263 Fire blankets for welding work made of textile fabric
- 19266 Fire blankets and containers
- 19270 Gas detectors
- 19280 Heat protective clothing
- 19285 High temperature resistant and fireproof textile products
- 19289 Protective glass
- 19290 Industrial protective glass
- 19300 Light curtains for accident prevention and other applications
- 19305 Soldering protection mats made of textile fabric
- 19310 Furnace sight glass Neotherm®
- 19320 Safety edges
- 19330 Safety mats
- 19340 Welding protection glass Athermal®
- 19350 Welding accessories
- 19360 Dust measuring devices

25.02. Noise protection devices

- 19368 Hearing protection
- 19370 Noise reduction
- 19380 Industrial noise protection
- 19390 Noise protection devices
- 19400 Noise monitoring
- 19410 Level recorder
- 19420 Sound insulation
- 19430 Sound level meter
- 19432 Sound insulation

26 Other products

- 19440 Aluminium and zinc slug production

26.01. Foundry products

- 19450 Stainless steel mold casting
- 19460 Stainless steel shell mold casting
- 19470 Stainless steel centrifugal casting
- 19490 Investment casting by the lost wax process
- 19500 Cast iron with spheroidal graphite (ductile iron)
- 19510 Cast iron with lamellar graphite (gray cast iron)
- 19520 Cast iron shape casting
- 19530 Continuous cast iron
- 19540 Chilled cast iron
- 19550 Heat resistant cast iron
- 19560 Gravity die casting
- 19570 Copper and copper alloy castings
- 19580 Light metal castings
- 19590 Machine mold casting
- 19610 Acid resistant castings
- 19630 Centrifugal casting
- 19640 Heavy metal casting
- 19660 Steel casting
- 19670 Wear-resistant casting

27 Consulting, planning and services

- 19695 Hot tapping under pressure
- 19700 Fittings service
- 19710 Training and further education of welding personnel
- 19715 Consulting, planning and services
- 19720 Consulting services
- 19721 Consulting for optimization of weighing systems
- 19730 Consulting service
- 19731 Procurement, eProcurement
- 19734 blended learning
- 19740 Services, quality assurance
- 19750 Emission measurements
- 19760 Energy consulting
- 19770 Energy saving
- 19780 Energy service (optimization, recovery, supply)
- 19790 Decoating
- 19792 Spare parts for commissioning
- 19794 Commissioning
- 19810 Engineering services (also commissioning of metallurgical plants as well as conveyor and drive technology plants)
- 19815 Engineering problem solving
- 19820 Maintenance organization
- 19822 Cooling and boiler water treatment
- 19824 Lean management
- 19825 Leak sealing under operating pressure
- 19830 Logistics consulting
- 19832 Logistics services, steel logistics
- 19840 Contract annealing
- 19850 Contract annealing (own mobile annealing facilities)
- 19860 Management consulting
- 19875 On-site machining (milling, drilling, turning, grinding, etc.)
- 19880 Assembly and maintenance
- 19890 Marketing services
- 19892 Offline Maintenance
- 19893 Online Maintenance
- 19895 Quality management consulting
- 19900 Experts
- 19910 Cutting and welding consulting
- 19920 Welding research and education
- 19930 Simulation studies and software
- 19935 Software for metalworking
- 19940 Supplier of spare parts, equipment and accessories for the steel industry, general
- 19950 Radiation
- 19952 Radiation protection
- 19955 supply chain management
- 19960 Digitalization consulting
- 19970 Software solutions for digitalization
- 19980 Digitization analysis
- 19990 Technical translations and documentation
- 20000 Training and commissioning of metallurgical plants
- 20005 Management consulting
- 20010 Leasing of electronic measuring equipment, data technology and computers
- 20015 Continuing education

- 20016 Continuing education - refractory
- 20020 Certifications

28 Steel in civil engineering

28.01. Software for building and construction

- 20050 Cad software

28.02. Steel in building construction

- 20058 Structural steel
- 20070 Hall gates
- 20086 Pipelines

28.03. Steel in civil engineering

- 20100 Offshore technology
- 20106 Tubes
- 20108 Micropiles
- 20110 Anchorages
- 20112 Sheet piling

30 Service concerning steel materials

- 20135 Processing services

30.01. Joining

- 20178 Soldering