

DAS Aluminium

Suppliers Directory

known & used for more than 50 years

MEDIA INFORMATION

Trade fair issue for ALUMINUM 2022



www.alu-lieferverzeichnis.de/en/



Media partner of



Index

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Description

The Aluminium Suppliers Directory has, since its introduction more than **50 years** ago, established itself as the **most comprehensive, leading reference work for the Aluminium industry** and its associated peripherals. Our users benefit from the optimum combination of a print, USB and online medium. The B2B target group **worldwide** is **reached directly and without divergence loss**. The Aluminium Suppliers Directory offers all users a speedy and clear access. The detailed product breakdown with numerous technical terms avoids laborious

searching and unnecessary wasted time. **Online linked Internet and email addresses** facilitate the search for further detailed information, as well as the search for trade marks, alloys and special products of the companies.

The **Aluminium Suppliers Directory** and **www.Alu-Lieferverzeichnis.com** stand for qualified contacts between purchasing and sales.

A SPECIAL DISTRIBUTION OF THE 2022 EDITION IS PROVIDED FOR:

ALUMINIUM 2022, THE WORLD'S LEADING TRADE FAIR FOR ALUMINIUM AND ITS APPLICATION INDUSTRIES,
DÜSSELDORF, SEPTEMBER 27-29, 2022


FIND THE OTHER SPECIAL DISTRIBUTIONS PLANNED FOR THE ISSUE YOU CURRENTLY ON [HTTPS://WWW.ALU-LIEFERVERZEICHNIS.DE/EN/MEDIA-INFORMATION/](https://www.alu-lieferverzeichnis.de/en/media-information/)
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Aluminium Suppliers Directory 2023

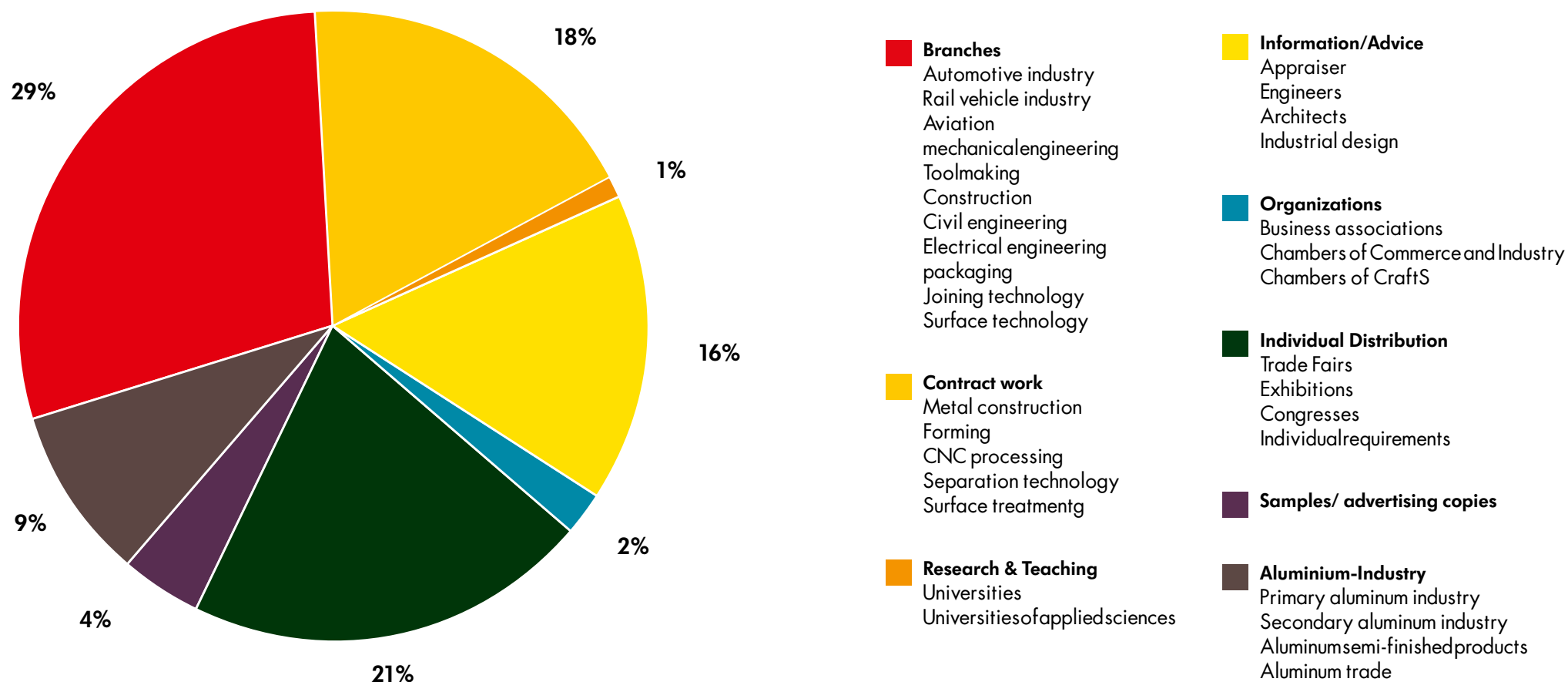
Fair
issue
ALUMINIUM
2022

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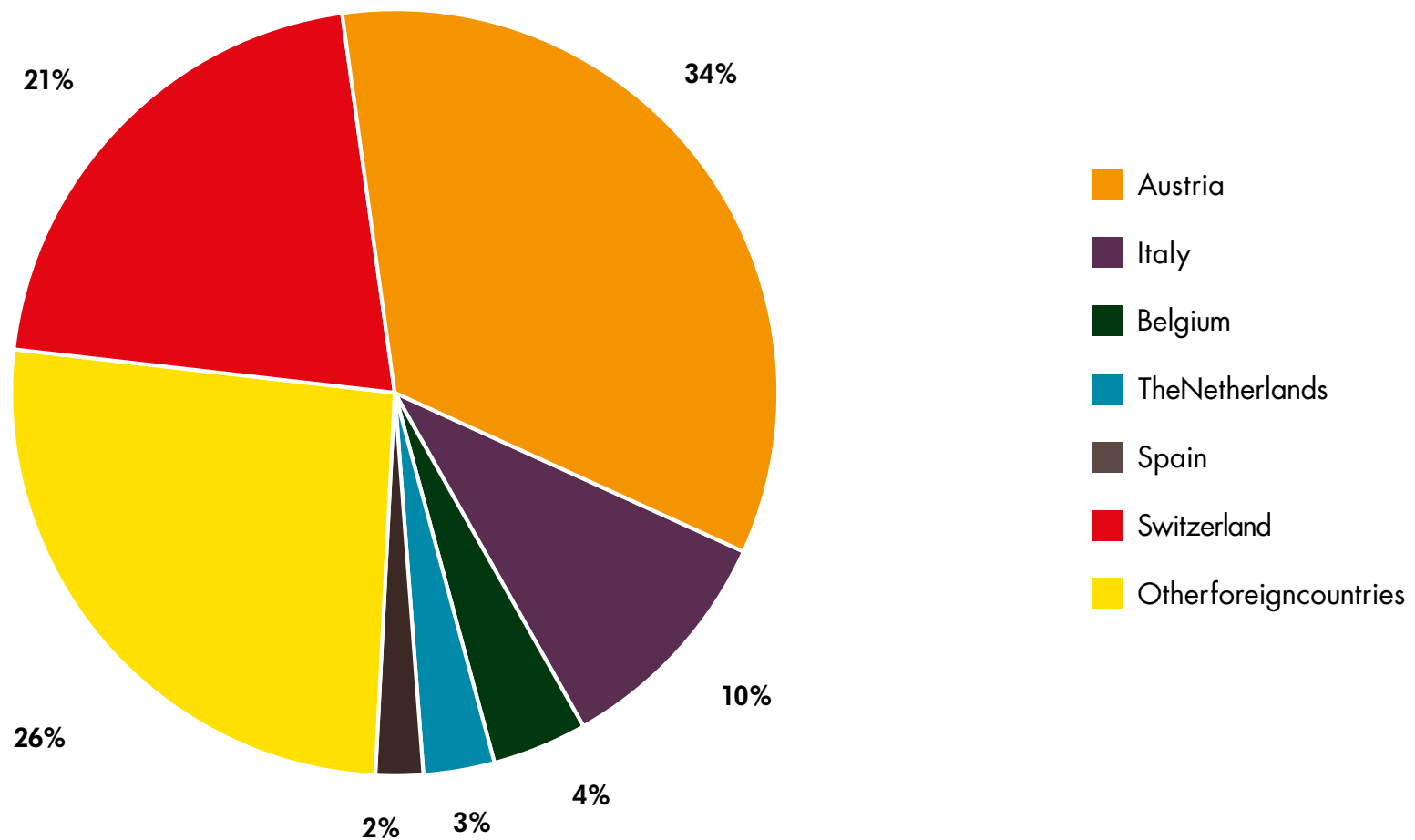
Price List no. 28 valid from January, 1st, 2022

Reader structure analysis + distribution



Distribution

Print run: 10,000 (printed and digital)



Your advertising opportunity

The ADVERTORIAL

The ideal addition to your classic advertising with an editorial-like background. The publication of your text / image material is done by us, adapted to the layout of the aluminum delivery directory.

LOGO



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1/4 page 4-coloured
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490,- EUR

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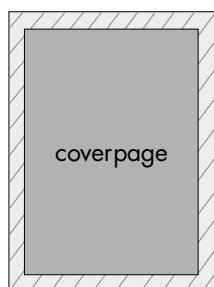
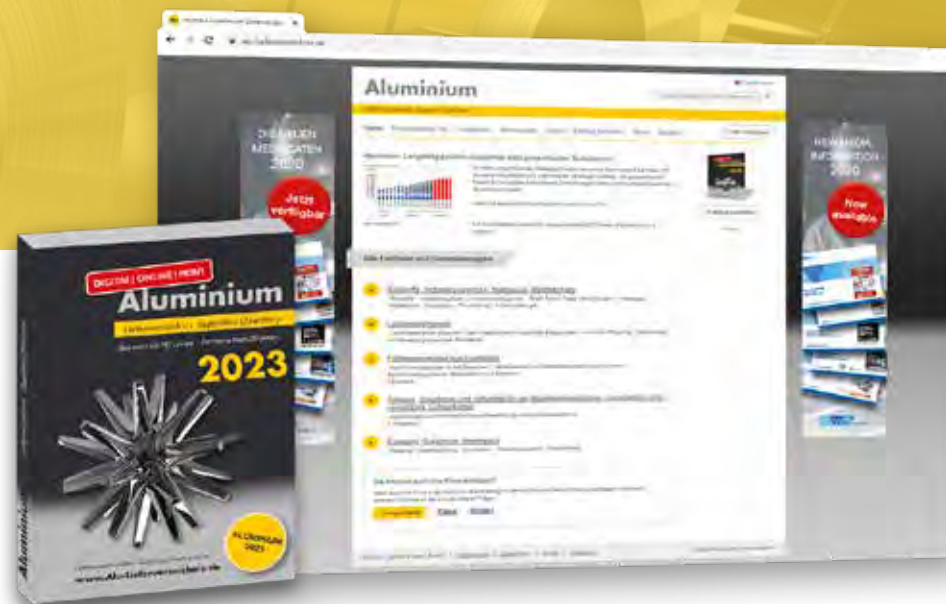
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Aluminium Suppliers Directory 2023

Your advertising opportunity

The PRINT + ONLINE COMBINATION

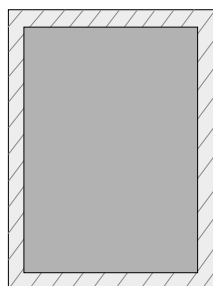
Online term: 12 months



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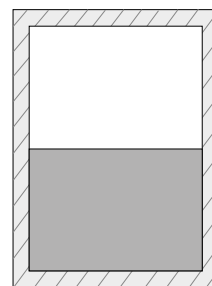
2nd, 3rd & back cover + skyscraper
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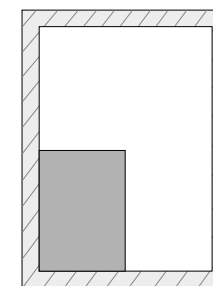
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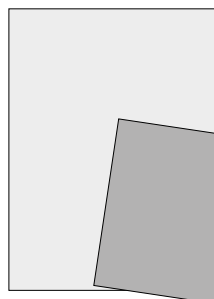
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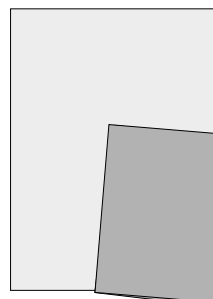
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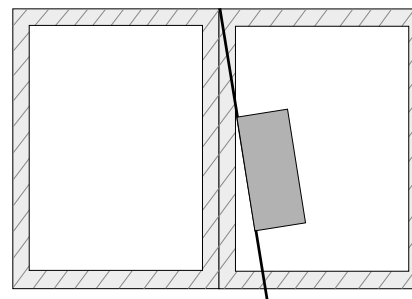
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+



four-sided supplement + skyscraper
EUR 2,750



+



bookmark + skyscraper
Insertion costs (complete delivery)
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Printing costs and production costs of supplements and bookmarks on request.

All prices given in EUR excl. VAT.

Your advertising opportunity

The COMPANY ENTRY

in almost 2,000 categories in the aluminum product directory

entry deadline: 01.07.2022

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ComfortPlus

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Vanessa Wollstein

Price per entry
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Aluminium

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Contact: Britta Wingartz
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Products / Services:
Publications of technical information about
the subject areas industrial ceramics,
refractory and aluminum

Price per entry
EUR 209

Your print entry is included additionally free of charge on USB Version and online: www.Alu-Lieferverzeichnis.com.
The prices for print are for the annual edition of the Aluminium Suppliers Directory. All prices in EUR excl. VAT.

**CHOOSE FROM THE
FOLLOWING CATEGORY LIST**

Category list

A		Raw materials, primary metal products, semi-finished products, rolled products unfinished	
1	Raw materials		
1.1	Aluminium hydroxide		
1.2	Aluminium oxide		
1.2.1	Finished ceramic products		
1.3	Additives for fused-salt electrolysis		
1.3.1	Cryolite		
1.4	Söderberg mix		
1.5	Petroleum coke		
1.6	Binder pitch		
1.7	Cathode materials		
1.8	Prebaked carbon anodes		
1.9	Collar paste		
2	Primary metal products		
2.1	Aluminium		
2.1.1	Primary aluminium		
2.1.1.1	Secondary aluminium		
2.1.2	High purity aluminium and alloys		
2.1.3	Aluminium alloys		
2.1.3.1	Forging alloys, continuously cast		
2.1.3.2	Thixotropic aluminium alloys		
2.1.3.3	High-performance aluminium		
2.1.3.4	High-strength alloys for aerospace industry		
2.1.3.5	Aluminium alloys, tablets		
2.1.3.6	Aluminium alloys, briquettes		
2.1.4	Aluminium master alloys		
2.1.4.1	Deodrops		
2.1.5	Deoxidation alloys		
2.1.6	Rolling ingots		
2.1.6.1	Extrusion billets, extrusion bolts		
2.1.7	Ingots, shapes		
2.1.7.1	T-bar		
2.1.7.2	Molten aluminium		
2.1.8	Notch ingots		
2.1.9	Deodrops		
2.1.10	Piglets		
2.1.11	Granules		
2.1.12	Fine aluminium shot		
2.1.13	Aluminium granules		
2.1.14	De-oxidising granules (for killing steel)		
2.2	Magnesium		
2.2.1	Pure and high-purity magnesium		
2.2.2	Magnesium alloys		
2.2.3	Magnesium master alloys		
2.3	Titanium		
2.4	Silicon		
2.4.1	Silicon powder		
2.5	Ferrous alloys		
2.6	Alloying metals, master alloys		
2.6.1	Aluminium-titanium-boron		
2.6.2	Cast alloys		
2.6.3	Primary aluminium casting alloys		
2.7	Gallium		
2.8	Copper alloys		

Aluminium Suppliers Directory 2023

3 Grit, powder, paste, wool, foam

- 3.1 Aluminium grit
- 3.2 Aluminium powder
- 3.3 Aluminium paste
- 3.4 Aluminium wool
- 3.5 Magnesium powder
- 3.5.1 Magnesium alloy powder
- 3.6 Light-metal alloy powder
- 3.6.1 Alloy ingots
- 3.7 Aluminium foam

4 Semi-finished products

- 4.1 Rolled products, bare
- 4.1.1 Sheet
- 4.1.2 Strip
- 4.1.3 Thin strip
- 4.1.4 Foil
- 4.1.5 Strips
- 4.1.6 Sheet and strip with rolled-in patterns (DIN EN 1386)
- 4.1.7 Sheet and strip, textured
- 4.1.8 Sheet and strip, anodized
- 4.1.9 Sheet and strip, pretreated
- 4.1.10 Sheet and strip, degreased
- 4.1.11 Sheet and strip, cut to shape
- 4.1.12 Plates
- 4.2 Rolled products surface-treated
- 4.2.1 Rolled products, brush-finished
- 4.2.2 Rolled products, ground
- 4.2.3 Rolled products, pickled
- 4.2.4 Rolled products, chemically oxidized
- 4.2.5 Rolled products, anodized
- 4.2.6 Rolled products, lacquered, powder-coated
- 4.2.7 Rolled products, coil-coated

- 4.2.8 Rolled products, plastic-coated
- 4.2.9 Rolled products, coated with self-adhesive backing (foil and thin strip)
- 4.3 Composite semis (sheet and strip)
- 4.3.1 Aluminium with aluminium
- 4.3.1.1 Sheet and strip, braze-clad
- 4.3.2 Aluminium with plastics
- 4.3.3 Aluminium with copper
- 4.3.4 Aluminium with steel
- 4.3.5 Aluminium with wood
- 4.3.6 Steel with aluminium
- 4.3.7 Stainless steel with aluminium
- 4.4 Sections made from strip
- 4.5 Round blanks
- 4.6 Slugs
- 4.6.1 Slugs for impact extrusion, in aluminium and aluminium alloys
- 4.7 Extruded products, bare
- 4.7.1 Solid sections/profiles
- 4.7.1.1 Solid sections/profiles for aerospace applications
- 4.7.2 Hollow sections/profiles
- 4.7.2.1 Hollow sections/profiles for aerospace applications
- 4.7.3 Machined sections/profiles
- 4.7.3.1 CNC treatment of profiles
- 4.7.4 Microprofiles, extruded
- 4.7.5 Large sections/profiles
- 4.7.6 Special Profiles
- 4.7.7 Space frame profiles
- 4.7.8 Design profiles, coated and non-coated
- 4.8 Extruded products, surface-treated
- 4.8.1 Extruded products, brush-finished
- 4.8.1.1 Extruded profiles, mill finish
- 4.8.2 Extruded products, ground
- 4.8.3 Extruded products, polished

Aluminium Suppliers Directory 2023

4.8.4	Extruded products, pickled
4.8.5	Extruded products, chemically oxidized
4.8.6	Extruded products, anodized
4.8.6.1	Extruded products, cleaned and anodised
4.8.7	Extruded products, lacquered
4.8.7.1	Extruded products, powder-coated
4.8.8	Extruded products, plastic-coated
4.8.9	Extruded products, clad with stainless steel
4.8.10	Extruded products, clad with brass or bronze
4.8.11	Extruded products, mechanically treated
4.8.12	Extruded products, welded
4.9	Rods and bars
4.9.1	Extruded rods and bars
4.9.2	Drawn rods and bars
4.9.3	Rods and bars made of free-machining alloys
4.9.4	Round bar, cast and turned
4.10	Tubes
4.10.1	Extruded tubes
4.10.2	Drawn tubes
4.10.3	Pressure-rolled tubes
4.10.4	Welded tubes
4.10.5	Hard-anodized tubes
4.10.6	Tubes made of free-machining alloys
4.10.7	Annular tubes
4.10.8	Centrifugally cast tubes
4.10.9	Composite tubes
4.10.10	Sawn aluminium tubes
4.10.11	Tubes, weldless and drawn
4.11	Wire
4.11.1	Alloyed or unalloyed cast and rolled electrical conductor wire (Properzi wire)
4.11.2	Alloyed or unalloyed cast and rolled wire for mechanical purposes (Properzi wire)

4.11.3	Extruded wire
4.11.4	Wire
4.11.4.1	Drawn wire
4.11.4.2	Anodized wire
4.11.5	Flat and profiled wire
4.11.6	Wire netting and woven products
4.11.7	Clad wire (alclad)
4.11.8	Wire for vacuum metallising
4.12	Drop and open-die forgings
4.12.1	Drop forgings
4.12.2	Open-die forgings
4.12.3	Drop forgings in titanium
4.13	Impact extruded engineering components
4.13.1	Cold impact extrusion, cold extruded parts
4.14	Shaped sheet parts
4.14.1	Embossed sheet
4.15	Perforated sheet
4.16	Expanded metal mesh
4.17	Rolled rings
4.18	Sintered components
4.19	Magnesium alloy semis
4.20	Titanium and titanium alloy semis
4.21	Plates
4.21.1	Plates, milled surface
4.21.2	Plates, machined
4.21.3	Plates, thick
4.21.4	Plates and blocks for mould-making
4.21.5	Aluminiumsandwich

5

5.1	Aluminium and aluminium alloy castings
5.1.1	Sand castings
5.1.1.1	Permanent mould castings

Castings

Aluminium Suppliers Directory 2023

5.1.2	Low-pressure die-castings
5.1.2.1	Low-pressure sand-castings
5.1.2.2	Low pressure castings
5.1.3	Pressure die-castings
5.1.3.1	VACURAL die-castings
5.1.4	Composite castings
5.1.5	Centrifugal castings
5.1.6	Investment castings
5.1.7	Castings made by special casting processes
5.1.8	Artwork castings
5.1.9	Prototype castings
5.1.10	Product development for castings
5.2	Aluminium, Magnesium and spheroidal graphite iron
5.3	Titanium and titanium alloy castings
5.4	Die-castings in alloys of zinc or aluminium

6 Thixoforming

6.1	Thixoforging
6.2	Thixocasting
6.2.1	Aluminium extrusion billets (AirSlip™ process)

7 Powder metallurgy

7.1	Spray compacting
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B Light metals trade

20 Light-metals trade, general

21 Light-metals trade in special products

21.1	Aluminium and aluminium alloys
21.1.1	Ingots, billets
21.1.2	Aluminium grit
21.1.3	Aluminium powder

21.1.4	Aluminium wool, aluminium turnings
21.2	Magnesium and magnesium alloys
21.2.1	Ingots, billets
21.2.2	Magnesium powder
21.2.3	Magnesium turnings
21.2.4	Magnesium semis
21.3	Rolled products, bare
21.3.1	Plates, mechanically stress relieved
21.3.2	Sheet, wide and narrow coiled strip, mill finish
21.3.3	Sheet, wide and narrow coiled strip, textured
21.3.4	Checker plate, bulb plate, button plate
21.3.5	Corrugated sheet and strip
21.3.6	Thin strip, foil
21.3.7	Discs, round blanks
21.3.8	Blanks
21.3.9	Plates, milled on both sides
21.4	Rolled products, surface-treated
21.4.1	Rolled products, brush-finished, ground, polished
21.4.2	Rolled products, pickled, chemically oxidized, anodized
21.4.3	Rolled products, lacquered, coated, self-adhesive
21.5	Composite semis (sheet and strip)
21.5.1	Aluminium with aluminium
21.5.2	Aluminium with other metals
21.5.3	Aluminium with plastics
21.6	Extruded products, bare
21.6.1	Solid sections
21.6.2	Hollow sections
21.7	Extruded products, surface-treated
21.7.1	Extruded products, bright-chrome plated, brush-finished, ground, polished
21.7.2	Extruded products, pickled, chemically oxidized, anodized
21.7.3	Extruded products, lacquered, coated, self-adhesive
21.7.4	Extruded products, electroplated or chemically coated

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21.8	Rods and bars, tubes
21.8.1	Extruded rods and bars, tubes
21.8.2	Drawn rods and bars, tubes
21.8.3	Surface-treated rods and bars, tubes
21.8.4	Rods and bars, tubes made from free-machining alloys
21.8.5	Cast rods and bars
21.9	Wire
21.9.1	Alloyed and unalloyed electrical conductor wire
21.9.2	Alloyed and unalloyed wire for mechanical purposes
21.9.3	Flat or profiled wire
21.9.4	Aluminium-clad steel wire
21.10	Cast aluminium plate
21.11	Magnesium alloy semis
21.12	Titanium and titanium alloy semis
21.13	Finished products
21.13.1	Electric cables, busbars
21.13.2	Vehicle building systems
21.13.3	Window and door systems
21.13.4	Springs, (Kempal®)
21.14	Scrap, waste
21.14.1	Aluminium scrap and process waste
21.14.2	Aluminium-containing residues, dross, ash
21.14.3	Magnesium swarf and dross
21.14.4	Waste disposal
21.14.5	Magnesium offcuts
21.15	Light-metals trade with a service centre
21.16	Protective foil coverings for semis
21.16.1	Covering of painted or lacquered parts with protective foil
21.17	Aeronautical-grade semis
22	Aluminium recycling
22.1	Aluminium collection centres, general
22.2	Aluminium collection centres, with shredder

22.3	Collection centre for scrap windows
22.4	Aluminium recycling
23	Treatment and recycling of industrial waste
23.1	Salt slag disposal

C	Aluminium products
30	Aluminium products for the building industry
30.1	Aluminium load-bearing structures
30.1.1	Halls, roofs
30.1.1.1	Factory buildings
30.1.2	Indoor swimming pools
30.1.3	Porches for house doors
30.1.4	Porches for showcase buildings
30.1.5	Glass roof structures
30.1.5.1	Glass roof access equipment
30.1.6	Waiting halls
30.1.7	Marquees
30.1.8	Trusses
30.1.9	Carports
30.2	Prefabricated buildings
30.2.1	Greenhouse systems
30.2.2	Small greenhouses
30.2.3	Garden sheds
30.2.4	House-building systems, building systems
30.3	Cast or wrought alloy fittings
30.3.1	Door and window fittings
30.3.2	Fittings for sliding glass doors
30.3.3	Hinges
30.3.4	Glazing fittings and mountings
30.4	Structural elements and accessories for roof structures
30.4.1	Sheet, coil, sheet corrugated in various shapes

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30.4.1.1	Sheet, coil, sheet corrugated in various shapes	30.6.4.2.	Drawing profiles, according to individual wishes
30.4.2	Porches, walkway coverings	30.6.5	Sill elements, insulated wall panels
30.4.3	Copings	30.6.6	Cast plates for facades
30.4.3.1	Manhole covers	30.6.7	Facade gratings
30.4.4	Roof jointing sections	30.6.7.1	Facade louvres
30.4.5	Wall junction sections	30.6.7.2	Fall protection
30.4.6	Expansion joint sections	30.6.8	Aluminum gaskets
30.4.7	System sections for porches	30.6.9	Support strips for insulating materials
30.4.8	System sections for patio coverings	30.6.10	Vapour barrier strips for insulation
30.4.9	Fasteners	30.6.11	Sealing sections, sealing strips
30.4.10	Drainage systems for flat roofs	30.6.12	Facade cleaning equipment
30.4.11	Mounting frames for skylight domes	30.6.13	Exterior mobile equipment, Exterior scaffolding
30.4.12	Flat roof ventilators	30.6.13.1	Exterior travelling platforms for erection and maintenance
30.4.13	Dormer windows	30.6.14	Working platforms
30.5	Guttering, downpipes	30.6.15	Supporting structures for facades
30.5.1	Roof drainage components	30.7	Windows, window assembly elements
30.6	Structural elements and accessories for facades and panelling	30.7.1	Extruded sections and assemblies
30.6.1	Facade elements	30.7.1.1	Profile systems for aluminium-wood windows
30.6.1.1	Facade elements, insulated	30.7.1.3	profile connection by insulating bars
30.6.1.2	Facade elements, uninsulated	30.7.1.2	Profile systems for aluminium-plastic windows
30.6.1.3	Facade elements in coloured aluminium	30.7.2	Insulating sections
30.6.1.4	Expanded metal facade	30.7.3	Mass-produced windows
30.6.2	Prefabricated facades	30.7.4	Specially designed windows
30.6.2.1	Prefabricated facades with heating, ventilation and air-conditioning and air-conditioning equipment	30.7.4.1	Specially designed sash windows
30.6.2.2	All-glass facades (structural glazing)	30.7.4.2	Tilting/sliding windows
30.6.2.3	Highly insulated facades	30.7.5	Standard-sized windows
30.6.2.4	Facades in aluminium or fibreglass	30.7.6	Aluminium-wood windows
30.6.2.5	Facade components - special designs	30.7.6.1	Aluminium-plastic windows
30.6.3	Wall panelling	30.7.7	Dormer windows
30.6.3.1	Interlocking shingles	30.7.8	Round windows
30.6.4	Sections, sections systems	30.7.9	Windows and window elements for framed glass constructions
30.6.4.1	Extrusions in aluminium/wood for post & beam construction	30.7.9.1	Separators, edge mountings for insulated glass
		30.7.9.2	Glazing blocks with steel inserts

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30.7.10	Window sash frames (plastered-in-frames)	30.9.2	Watertight doors
30.7.11	Window sills	30.9.3	Revolving and carousel doors
30.7.11.1	Interior window sills	30.9.4	Trapdoors
30.7.12	Window fittings	30.9.5	Folding sliding doors
30.7.12.1	Corner brackets	30.9.6	Automatic doors
30.7.12.2	Window fittings	30.9.6.1	Fittings for sliding doors, general
30.7.13	Sealing technology	30.9.6.1.1	Tracks for sliding doors
30.7.13.1	Sealing systems, weather-protection strips	30.9.6.2.1	Telescoping sliding doors
30.7.13.2	Elatormers of plastic products for profiles	30.9.6.2	Special sliding doors
30.7.14	Sash bars	30.9.7	Smoke-barrier doors
30.7.15	Waterproof windows	30.9.8	Door frames
30.7.15.1	Windows, pressure-water tight	30.9.9	Door infills
30.7.16	Supplementary hang-on window panels	30.9.10	Cast aluminium door plates
30.7.17	Extruded sections for renovating wooden window-frames	30.9.11	Forged door lattices
30.8	Sun shades, weather and insect protection devices and structural elements	30.9.12	Structural elements for fire protection
30.8.1	Slats for venetian blinds	30.9.13	Letterbox fittings
30.8.2	Tilttable slats for venetian blinds	30.9.14	Letter boxes
30.8.3	Interior and exterior blinds	30.9.15	Porches
30.8.4	Venetian blind casings	30.9.16	Doors for cold-storage depot
30.8.5	Fixed and movable blinds	30.9.17	Fire doors
30.8.6	Roller blinds	30.9.18	Door and window handles
30.8.6.1	Overhanging sunshades	30.9.19	Door fittings
30.8.7	Exterior roll shutters	30.9.22	Locks
30.8.8	Awnings	30.9.23	Door sills
30.8.9	Blackout facilities	30.10	Window, door and gate closures
30.8.10	Weather-protection screens	30.10.1	Roller shutter sections
30.8.11	Anti-insect screening	30.10.2	Roller shutter guideways
30.8.12	Large awnings (solar)	30.10.3	Roller shutters
30.8.20	Solar protection systems	30.10.4	Roller shutters and rolling grilles
30.8.21	Solarsystems - rack technique	30.10.5	Sectional gates
30.9	Doors, door structural elements, fittings	30.10.6	Telescopic sliding doors
30.9.1	Doors	30.10.7	Spiral door
		30.10.8	Sliding gates

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30.10.8.1	Sliding gates, guided	30.15.2	Curtain rails
30.10.8.2	Sliding gates, cantilevered	30.15.3	Chain curtains
30.10.9	Garage doors	30.16	Light equipment and accessories
30.10.10	Sliding screens	30.16.1	Reflectors
30.10.11	Sliding-folding gates	30.16.2	Special products
30.10.12	Venetian blinds	30.16.3	Lighting
30.10.13	Folding shutters	30.16.4	Light boxes for advertising transparencies
30.10.14	Sill-free door latches	30.16.5	Lighting arrays
30.10.15	Rain guttering, door sills, fittings	30.17	Heating, ventilation, air-conditioning
30.11	Display windows, showcases	30.17.1	Radiators, convectors
30.11.1	Profiles, profile systems, structural elements	30.17.2	Radiator panelling
30.11.2	Display cabinets and showcases	30.17.3	Roller grilles, gratings
30.11.3	Display windows	30.17.4	Ventilators
30.11.4	Shelving	30.17.5	Ventilation grids
30.12	Structural elements for shopfitting, exhibition stand construction	30.17.6	Air filters
30.12.1	Sections and section systems for shopfitting	30.17.7	Ventilation and smoke exhaust units, ventilation flaps
30.12.2	Profiles and profile systems for exhibition stands	30.17.8	Aluminium honeycomb air distributors
30.12.3	Space structuring systems	30.17.9	Flexible pipes, metallic hoses
30.12.4	Mountings and fixtures for shopfitting	30.17.10	Waste gas ducting
30.13	Cubicles, partition walls and structural elements,	30.17.11	Casings for air-conditioning and cooling
30.13.1	Sections, section systems	30.18	Sanitary equipment and fittings
30.13.2	Prefabricated partition walls	30.18.1	Shower cabinets
30.13.3	Meeting booths with aluminium-section frames	30.18.2	Wall cabinets, mirror cabinets
30.13.4	Devices for transferring cash and goods at cash-desks	30.19	Conservatories, verandas, glass structures, glass roof structures
30.14	Ceiling panels, acoustic ceilings and structural elements	30.18.2	Wall cabinets, mirror cabinets
30.14.1	Coffer ceilings	30.20	Stairs, balustrades, fencing, gratings
30.14.2	Strip ceilings	30.20.1	Sections, section systems
30.14.3	Aluminium strip ceilings	30.20.1.1	Extruded sections and systems
30.14.4	Grid ceilings, ceiling grids	30.20.2	Stairs, walkways, landings
30.14.5	Acoustic ceilings, -elements	30.20.2.1	Treads for escalators
30.15	Cloakroom, interior fittings and accessories	30.20.3	Spiral staircases
30.15.1	Cloakroom systems	30.20.4	Loft ladders, flat roof exits
30.15.1.1	Cloakroom hooks	30.20.5	Balustrades

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30.20.5.1	Panelling for balustrades
30.20.5.2	Pipe connectors
30.20.6	Rod elements, forged
30.20.7	Walkway and stair gratings
30.20.8	Non-skid gratings
30.20.8.1	Safety gratings, safety stairs
30.20.9	Lighting and ventilation gratings
30.20.10	Fencing and fencing systems
30.20.11	Balcony balustrades
30.20.12	Extended balconies
30.20.13	Prefabricated balconies and balcony systems
30.20.14	Carport construction kits
30.21	General welded structures
30.22	Shuttering systems
30.23	Sandwich elements
30.23.1	Aluminium honeycombs
30.24	Aluminium chains
30.25	Alternative energy systems and structural elements
30.25.1	Solar collector panels
30.25.2	Solar collectors
30.25.3	Energy roof systems
30.25.4	Energy fence systems
30.25.5	Energy-extraction systems with absorbers and brine-water-heat pumps
30.25.6	Other energy utilisation systems
30.26	Measuring and alignment equipment
30.26.1	Measuring and alignment equipment, general
30.26.2	Straight edges
30.26.3	Levelling boards
30.26.4	Spirit levels
30.26.5	Lasers for facades, windows and interior decoration

31	Aluminium traffic structures and guide systems
31.1	Bridges, balustrades
31.1.1	Footbridges
31.1.2	Bridge balustrades
31.1.3	Bridge-laying systems
31.2	Masts
31.2.1	Lattice towers
31.2.2	Tubular masts
31.2.3	Telescopic masts
31.2.4	Lighting poles
31.2.5	Flagpoles
31.2.6	Post tubes for traffic signs
31.3	Guidance systems
31.3.1	Guide rails, guide palings
31.3.2	Traffic sign gantries
31.3.3	Traffic signs
31.3.4	Road signs
31.3.5	Level-crossing gates, barriers
31.4	Noise-reduction installations
31.4.1	Noise barriers
32	Aluminium products for electrical engineering and electronics
32.1	Conductor wire, heavy grid cables
32.1.1	Conductor wire, bare
32.1.2	Conductor wire, varnished
32.1.3	Conductor wire, plastic-insulated
32.1.3.1	Conduct-wire, anodized
32.1.4	Sector cables
32.2	Busbars, accessories
32.2.1	Extruded busbar sections
32.2.2	Extruded tubular busbars
32.2.3	Continuously-cast busbars
32.2.4	Electroplated busbars

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32.2.5	Anodized busbars	32.7.2.1	Cabinets
32.2.6	Ready-to-assemble busbars	32.7.3	Casing systems
32.2.7	Ready-to-assemble busbars	32.7.4	Front panels, scales
32.2.8	Busbars	32.7.5	Adjustment knobs
32.3	Overhead cables, accessories	32.7.6	Heat sink sections
32.3.1	E-Al overhead cables	32.7.7	Heat sinks
32.3.2	E-AlMgSi overhead cables	32.7.7.1	High power heat sinks
32.3.3	Aluminium and steel overhead cables	32.7.8	High-frequency screening
32.3.4	Aluminium-clad steel cables	32.8	Switch cabinets, accessories
32.3.5	Insulated overhead cables	32.8.1	Switch cabinets of sheet-metal
32.3.6	Screw clamps	32.8.2	Switch cabinets made of sheet metal and extruded sections
32.4	Cables, accessories	32.8.3	Fittings for electronic cabinets
32.4.1	Cable foil	32.8.4	Equipment racks made of aluminium sections
32.4.2	Cable strip	32.8.5	Windows for switch cabinets
32.4.3	Low-voltage cable	32.9	Installation accessories
32.4.3.1	Flexible cable connectors	32.9.1	Wall-mounted conduits
32.4.4	Medium and high-voltage cable	32.9.2	Cable supports
32.4.5	Cable sheathing	32.9.3	Switches with aluminium ornamental plates
32.4.6	Screw clamps	32.9.4	Aluminium cable clips
32.4.7	Cable ducting	32.9.5	Lightning protection systems and accessories
32.5	Coiling strip	32.10	Communications and telecommunications
32.5.1	Bare coiling strip	32.10.1	Antenna reflectors
32.5.2	Anodized coiling strip	32.10.2	Antenna support (masts): special extrusions e.g. for electric motor housings, castings and forgings
32.5.3	Coiled narrow strip made from anodized coil		
32.6	Aluminium elements for capacitors	33	Aluminium products for apparatus and container construction
32.6.1	Capacitor foil, bare, rolled	33.1	Pressurized containers, general
32.6.2	Starting material for capacitor cans	33.1.1	Chemical apparatus
32.6.3	Capacitor cans	33.1.2	Flat-floored silos
32.7	Electronic components	33.1.3	Silos with outlet chutes
32.7.1	Electronic components, general	33.1.4	Fixed large-capacity tanks
32.7.1.1	Electronic cabinets	33.1.5	Transportable large-capacity containers
32.7.1.2	Mounting kits for electronics	33.1.6	Mixing silos
32.7.2	Casings		

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33.2	Transport containers
33.2.1	Transport containers for bulk products
33.2.2	Transport containers for liquids
33.2.3	Transport bottles
33.2.4	Spare tanks for motor vehicles
33.3	Pressure vessels
33.3.1	Pressure vessels, general
33.3.2	Compressed gas bottles
33.3.3	Bases for pressure vessels
33.4	Heat exchangers and components
33.4.1	Strip for coiled fins
33.4.2	Strip for cooling fins
33.4.3	Corrosion-protected strip for heat-exchanger elements
33.4.4	Tube plates (roll-bond-plates)
33.4.5	Brazing strip and sheet
33.4.6	Finned tubes (integral fins)
33.4.7	Tubes for ring-shaped heat exchangers
33.4.7.1	Multi-chamber hollow sections for ring heat exchangers
33.4.7.2	Extruded multi-chamber hollow sections for ring heat exchangers
33.4.8	Welded and braze-clad tubes
33.4.9	Special tubes, welded
33.4.9.1	Spirally welded tubes
33.4.9.2	Tubes for pneumatic cylinder
33.4.10	Oil and gas coolers, vacuum-brazed
33.4.11	Heat exchangers for air-conditioning units
33.4.12	Evaporators for refrigerators and deep-freezers
33.4.13	Coolers for compressors
33.4.14	Coolers for hydraulic plant, vacuum-brazed
33.4.15	Heat exchangers for the chemical industry
33.4.16	Vacuum-brazed heat exchangers for the gas industry
33.5	Pipes and structural components
33.5.1	Pipes
33.5.2	Pipe elbows

33.5.3	Flanges
33.5.4	Welding collars
33.5.5	Ball valves (fittings)
33.5.6	Corrosion-protected strip for flexible tubes
33.5.7	Piping components clad with polyamide, ready-to-mount
33.6	Heat insulation and structural components
33.6.1	Aluminium strip and systems for insulating pipes and tanks
33.6.2	Aluminium strip for moisture-barrier insulation
33.6.3	Insulating materials
33.7	Noise insulation and structural components

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Aluminium products for factory equipment and transport

34.1	Boxes for storage and transport, cases
34.1.1	General-purpose boxes
34.1.2	Boxes for the food processing
34.1.3	Boxes for the textile industry and for laundries
34.1.4	Stackable boxes
34.1.5	Folding boxes
34.1.6	Transport baskets and cages
34.1.7	Equipment cases
34.1.8	Cases for industrial use
34.1.9	Trunks and cases for transport (general)
34.2	Trolleys
34.2.1	General-purpose trolleys
34.2.2	Trolleys for food processing
34.2.3	Trolleys for the textile industry and for laundries
34.2.4	Hospital trolleys
34.3	Pallets, racks
34.3.1	Flat pallets
34.3.2	Flat pallets, collapsible
34.3.3	Box pallets
34.3.4	Tank pallets
34.3.5	Pallets for air transport

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34.3.6	Transport racks	34.7	Signs, lettering, displays
34.3.7	Tank wagons	34.7.1	Plate for engraving
34.4	Containers, tanks	34.7.2	Etched signs
34.4.1	Small containers	34.7.3	Engraved signs
34.4.2	Large containers	34.7.4	Printed signs
34.4.3	Containers for liquids	34.7.4.1	Business cards made of aluminium
34.4.4	Containers for bulk goods	34.7.5	Cast signs
34.4.5	Containers for air transport	34.7.6	Photographically coated nameplates
34.4.6	Transport tanks	34.7.7	Decorative articles in offset or screen printing
34.4.7	Aluminium fermentation tanks	34.7.8	Letters and numerals, cast
34.4.8	Aluminium gas tanks	34.7.9	Letters and numerals, cut from sheet
34.4.9	Container accessories	34.7.10	Anodized and coloured signs
34.4.9.1	Corner fittings for containers	34.7.11	Self-adhesive signs, all types
34.5	Transport aids	34.7.12	Folding display screens
34.5.1	Gantries	34.8	Printing accessories
34.5.2	Access ramps	34.8.1	Aluminium printing inks
34.5.3	Loading rails	34.8.2	Starting material for printing plates
34.5.4	Conveyors made of aluminium extruded sections	34.8.3	Machines for producing offset printing plates
34.6	Aluminium ladders, working platform, scaffolding	34.8.4	Printing plates
34.6.1	Stepladders	34.8.5	Screen printing frames
34.6.2	Builder's ladders, indoor ladders	34.8.6	Embossed aluminium foil
34.6.3	Fire ladders	34.8.7	Aluminium foil, anodized and coloured
34.6.3.1	Portable fireman's ladders	34.9	Structural elements for clarification plant
34.6.4	Quickfit scaffolding	34.9.1	Motor-driven weirs, locks
34.6.4.1	Scaffolding frames	34.9.3	Raking units, skim gates
34.6.4.2	Scaffolding steps	34.9.4	Gratings
34.6.5	Mobile scaffolding	34.9.5	Slide-bars, barriers mobile
34.6.5.1	Façade scaffolding	34.10	Flood protection
34.6.6	Machinery inspection walkways	34.10.1	Dam beams
34.6.6.1	Walkways		
34.6.7	Working platforms	35	Aluminium products for motor vehicle
34.6.7.1	Industrial platforms		construction
34.6.8	Cat ladders (for emergencies)	35.1	Cars

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35.1.1	Spaceframe structures	35.1.23	Suspension and steering
35.1.2	Bumpers	35.1.23.5	Drop and open-die forgings
35.1.2.1	Profiles for bumpers	35.1.30	Engine
35.1.2.2	Bumper centre beams	35.1.30.1	Cast parts for cars
35.1.3	Sheet and strip for bodywork and interior fittings	35.1.30.1.	Piston
35.1.3.1	Sheet and strip (also surface treated)	35.1.30.2	Components for internal combustion engines
35.1.3.2	Shaped sheet parts / float forming (also surface treated)	35.1.30.2.1	Cylinder sleeves
35.1.3.3	Large-size (aluminium) stampings	35.1.30.2.2	Cylinder heads
35.1.3.4	Entry ledges	35.1.30.2.3	Cylinder blocks
35.1.3.5	Structural components	35.1.30.3	Connecting rods, pins
35.1.10	Decorative trim and parts	35.1.30.4	Blank valves
35.1.10.1	Decorative trim and parts	35.1.30.5	Valve springs, valve spring retainers
35.1.10.1.1	Cover	35.1.30.6	Heat shielding panels
35.1.10.1.2	Rearview-mirror housing	35.1.40	Air conditioning
35.1.10.1.3	Profiles for covering	35.1.40.1	Heat exchanger profiles
35.1.10.1.4	Protective side moulding	35.1.40.2	Radiators
35.1.11	Window frames	35.1.40.3	Oil coolers
35.1.11.1	Profiles for window frames	35.1.40.4	Charge air coolers
35.1.20	Chassis and steering	35.1.41	Air conditioners
35.1.20.1	Wheels, wheel rims	35.1.41.1	Evaporators for air conditioners
35.1.20.3.	Heat protection tubes	35.1.41.2	Condensers for air conditioners
35.1.20.2	Chassis	35.1.41.3	Tubing for air conditioners
35.1.20.2.1	Parts for wheel/axle suspension, Axles	35.1.50	Fuel technology
35.1.20.3	Heat shielding panels for exhaust systems	35.1.50.1	Fuel pumps
35.1.20.4	Steering	35.1.50.2	Fuel coolers
35.1.20.4.1	Steering cardan shafts	35.1.50.3	Fuel filter housings
35.1.20.4.6	Machined and assembled components	35.1.50.4	Fuel pressure regulators
35.1.20.4.2	steering columns	35.1.60	Safety
35.1.20.4.3	adjustable steering column	35.1.60.1	Airbag deflectors
35.1.20.4.4	drive shafts	35.1.60.2	Underride guards
35.1.20.4.5	Drop and open-die forgings	35.1.60.3	Extrusions for side impact protection
35.1.21	Suspension and steering	35.1.60.4	Heat protection tubes
35.1.21.1	Parts for wheel/axle suspension	35.1.60.5	Restraint systems

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35.1.70	Interior	35.2.20.1	Wheels, wheel rims
35.1.70.1	Slide rails for seats	35.2.20.2.1	Parts for wheel/axle suspension, Axles
35.1.70.2	Decorative parts	35.2.20.3.	Heat protection tubes
35.1.70.3	Sheet and strip	35.2.20.2	Chassis
35.1.80	Top/roof	35.2.20.3	Heat shielding panels for exhaust systems
35.1.80.1	Hood (bonnet) components	35.2.20.4	Steering
35.1.80.2	Material mounting bracket	35.2.20.4.1	Steering cardan shafts
35.1.80.3	Decorative roof trim	35.2.20.4.6	Machined and assembled components
35.1.80.4	Roof struts and beams	35.2.20.4.2	steering columns
35.1.80.5	Railing systems	35.2.20.4.3	adjustable steering column
35.1.90	Accessories	35.2.20.4.4	drive shafts
35.1.90.1	Miscellaneous	35.2.20.4.5	Drop and open-die forgings
35.2	Trucks / commercial vehicles	35.2.30	Engine
35.2.1	Body	35.2.30.1	Cast engine parts
35.2.1.1	Spaceframe structures	35.2.30.1.1	Aluminium pistons for car engines
35.2.1.2.1	Profiles for bumpers	35.2.30.2.7	Cylinder liners
35.2.1.3.1	Sheet and strip (also surface treated)	35.2.30.2	Components for internal combustion engines
35.2.1.2	Bumpers	35.2.30.2.6	Cylinder heads
35.2.1.2.2	Bumper centre beams	35.2.30.2.5	Cylinder blocks
35.2.1.3.2	Shaped sheet parts / float forming (also surface treated)	35.2.30.3	Blank valves
35.2.1.3	Sheet and strip for bodywork and interior fittings	35.2.30.2.4	Connecting rods, pins
35.2.1.3.3	Large-size (aluminium) stampings	35.2.30.4	Valve springs, valve spring retainers
35.2.1.3.4	Entry ledges	35.2.30.5	Heat shielding panels
35.2.1.4	Structural components	35.2.40	Air conditioning
35.2.10	Decorative trim and parts	35.2.40.1	Heat exchanger profiles
35.2.10.1	Decorative trim and parts	35.2.40.2	Radiators
35.2.10.1.1	Cover	35.2.40.3	Oil coolers
35.2.10.1.2	Rearview mirror housing	35.2.40.4	Charge air coolers
35.2.10.1.3	Profiles for covering	35.2.41	Air conditioners
35.2.10.1.4	Protective slide moulding	35.2.41.1	Evaporators for air conditioners
35.2.11	Window frames	35.2.41.2	Condensers for air conditioners
35.2.11.1	Profiles for window frames	35.2.41.3	Tubing for air conditioners
35.2.20	Chassis and steering	35.2.50	Fuel technology

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35.2.50.1	Fuel pumps	35.2.80.9.2	Aluminum fuel tank
35.2.50.2	Fuel coolers	35.2.80.10	Superstructures for transporting beverages in liquid form
35.2.50.3	Fuel filter housings	35.2.80.11	Equipment for service vehicles
35.2.50.4	Fuel pressure regulators	35.2.95	Accessories
35.2.60	Safety	35.2.95.1	Gas bottles
35.2.60.1	Airbag deflectors	35.3	Trailers
35.2.60.2	Underride guards	35.3.1	Transport trailers
35.2.60.3	Extrusions for side impact protection	35.3.2	Boat trailers
35.2.60.4	Heat protection tubes	35.3.3	Horse box trailers
35.2.60.5	Restraint systems	35.4	Boats, ships and accessories
35.2.70	Interior	35.4.1	Lightweight construction elements for boats, ships
35.2.70.1	Slide rails for seats	35.4.8	gangways, hangar doors and winch systems
35.2.70.4	mobile-home equipment	35.4.2	Sailing boat and windsurfer masts
35.2.70.2	Decorative parts	35.4.2.1	Sailing boat and windsurfer mast sections
35.2.70.3	Sheet and strip	35.4.3	Ships' windows
35.2.80	Superstructures	35.4.4	Cast engine parts
35.2.80.1	Tank and silo vehicles	35.4.4.1	Aluminium pistons for big engines (e.g. marine)
35.2.80.2.	Swap tanks	35.4.5	Hatch covers for ocean-going vessels and for inland waterway vessels
35.2.80.3.	Tipper trucks	35.4.6	Gangways
35.2.80.5.	Profiles for cold-storage van	35.4.7	Floating jetties
35.2.80.6.	Van body systems	35.5	Rail vehicles and accessories
35.2.80.8.1	Tailboards, ready to fit	35.5.1	Heavy sections for railway carriages
35.2.80.2	Tank wagon bodies	35.5.2	Windows for railed vehicles
35.2.80.8.2	Overlapping side on tail boards	35.5.3	Superstructures for railed vehicles
35.2.80.3	Tipper truck bodies	35.5.3.1	Railway carriage superstructures
35.2.80.8.	Tailboards, ready to fit	35.5.3.2	Tank bodies
35.2.80.4	Cattle transporter bodies	35.5.4	Braking systems for rail vehicles
35.2.80.5	Refrigerated truck bodies	35.5.5	Accessories
35.2.80.6	Box bodies	35.5.5.1	Waste bins, ashtrays
35.2.80.7	Rolling shutters for vehicle bodies	35.5.6	Lightweight construction elements for railway carriages
35.2.80.8	Tailboard systems	35.6	Aircraft components
35.2.80.9	Aluminium containers for commercial vehicles	35.6.1	Special semis
35.2.80.9.1	Aluminum compresses-air reservoir		

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35.6.2	Castings	36.13.3	Foil laminated with cellulose film
35.6.2.1	Aluminium pistons	36.13.4	Foil laminated with three or more layers
35.6.3	Drop and open-die forgings	36.13.5	Cigarette foil (laminated, metallized)
35.6.4	Sandwich panels with aluminium honeycomb cores	36.1.10	Thin aluminium strip (0.021 to 0.25 mm thick)
35.6.5	Wheels for sporting aircraft	36.1.10.1	Bare thin strip
35.6.6	Precision parts for aviation and aerospace	36.1.11	Thin strip with surface treatment, general
35.6.7	Tubes for kites	36.1.11.1	Thin strip with surface treatment, lacquered or painted
35.7	Bicycles / motorcycles	36.1.11.2	Thin strip with surface treatment, coated
35.7.1	Bicycles	36.1.11.3	Thin strip with surface treatment, printed
35.7.1.1	Bicycle parts	36.1.11.4	Thin strip with surface treatment, brush-finished one side
35.7.1.2	Bicycle frames	36.1.11.5	Thin strip with surface treatment, brush-finished both sides
35.7.1.3	Bicycle carriers	36.1.11.6	Embossed thin strip with a surface finish
35.7.2	Motorcycles	36.1.12	Composite material (laminated)
35.8	Equipment for handicapped people	36.1.12.1	Push-through packaging
35.8.1	Wheelchairs	36.20	Aluminium packaging sheet
35.8.1.1	Wheelchair parts	36.20.1	Packaging sheet, general
35.8.2	Rehabilitation equipment	36.20.2	Packaging sheet, bare and untreated
36	Packaging with aluminium	36.20.3	Packaging sheet, lacquered or painted
36.1	Packaging materials	36.20.4	Packaging sheet, coated
36.1.1	Aluminium foil	36.20.5	Packaging sheet, printed
36.1.1.1	Bare foil	36.20.6	Packaging sheet, degreased and surface treated
36.1.1.2	Aluminium foil from 4 to 20 microns thick	36.25	Other packaging materials
36.1.1.3	Aluminium foil from 5 to 20 microns thick	36.25.1	Plastic film metallized with aluminium
36.1.2	Foil with a surface treatment, general	36.25.2	Paper metallized with aluminium
36.1.2.1	Foil with a surface treatment, lacquered or painted	36.50	Packaging materials, packaging aids, transportable containers
36.1.2.2	Foil with a surface treatment, printed	36.50.1	Packaging made of foil or thin strip
36.1.2.3	Foil with a surface treatment, coated	36.50.1.1	Wrappers, general
36.1.2.4	Foil with a surface treatment, embossed	36.50.1.2	Wrappers for baked goods and sweets
36.1.2.5	Self-adhesive foil	36.50.1.3	Wrappers for dairy products
36.1.3	Composite foil (laminated), general	36.50.1.4	Wrappers for coffee, tea and cacao
36.1.3.1	Foil laminated with paper	36.50.1.5	Wrappers for food
36.1.3.2	Foil laminated with plastic	36.50.1.6	Wrappers for edible fats (margarine etc.)
		36.50.1.7	Wrappers for industrial chemical products

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36.50.2	Foil pouches, general	36.60.2	Tube closures
36.50.2.1	Sterilisation pouches	36.60.3	Free-standing bags and pouches
36.50.3	Foil labels, general	36.60.4	Aerosol cans, general
36.50.3.1	Simple foil labels	36.60.4.1	One-piece cans
36.50.3.2	Self-adhesive foil labels	36.60.4.2	Two-chamber pressure packs
36.50.3.3	Bottle neck foil	36.60.4.3	Pressure vessels
36.50.4	Capsules, general	36.60.5	Small aluminium shells and tubes, general
36.50.4.1	Bottle caps	36.60.5.1	Small tubes for tablets
36.50.4.2	Tailored capsules	36.60.5.2	Cigar tubes
36.50.4.3	Wrapping material for bottle tops	36.60.5.3	Sliding sleeves
36.50.5	Light rigid containers in aluminium (e.g. for baking trays, TV dinners, delicatessen, specialty foodstuffs)	36.60.5.4	Other impact-extruded containers
36.50.6	Foil stampings	36.60.5.5	Cartridges
36.50.7	Laminate tubes	36.60.5.6	Aluminium shells
36.55	Aluminium cans	36.60.5.7	Two-component cartridges
36.55.1	Aluminium cans (rigid design, all-aluminium), general	36.60.6	Aluminium bottles, general
36.55.1.1	Beverage cans	36.65	Aluminium closures
36.55.1.2	Fish cans	36.65.1	Bottle closures for still drinks, general
36.55.1.3	Meat cans	36.65.1.1	Bottle caps for milk and milk drinks
36.55.2	Aluminium cans (semi-rigid design, aluminium-plastic composite)	36.65.1.2	Tear-off caps (centre or edge tabs)
36.55.2.1	Fish cans	36.65.1.3	Push-through caps
36.55.2.2	Meat cans	36.65.1.4	Pilfer-proof closures
36.55.2.3	Other food cans	36.65.1.5	Screw closures
36.55.2.4	Beverage packaging	36.65.1.6	Closures for wide-necked containers
36.55.3	Deep-drawn aluminium cans, general, for food and non-food	36.65.2	Bottle closures for fizzy drinks, general
36.55.4	Cans for cosmetic and pharmaceutical creams	36.65.2.1	Roll-on closures
36.55.5	Other cans	36.65.2.2	Tear-off closures
36.55.5.1	Jewel boxes	36.65.3	Closures for use with preserving jars on a commercial scale, general
36.55.6	Boxes with sliding trays	36.65.3.1	Vacuum closures
36.55.7	Powder compacts	36.65.4	Can closures
36.55.8	Aerosol cans	36.65.4.1	Seamed lids
36.60	Impact extruded packaging	36.65.4.2	Tear-off lids
36.60.1	Tubes	36.65.4.3	Sealing membranes

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36.65.4.4	Heat-sealable container lids	37.1.6	Tableware
36.70	Wire for use in packaging	37.1.7	Baking dishes, baking hoods
36.70.1	Wire for use in packaging, general	37.1.8	Drinking mugs
36.70.2	Wire for PVD (physical vapour deposition)	37.1.9	Trays
36.70.3	Stitching wire (e.g. for tea-bags)	37.1.10	Camping utensils
36.70.4	Wire for clips (e.g. for packaging sausage and cheese)	37.1.10.1	Beverage bottles
36.70.5	Binding wire	37.1.11	Water bottles
36.70.6	Fine wire for braiding and decorative cords	37.1.12	Lunchboxes and storage tins
36.75	Heavy packaging	37.1.13	Kitchen utensils, general
36.75.1	Transport boxes and chests, all-aluminium, general use	37.1.13.1	Shakers
36.75.1.1	Transport boxes and chests, all-aluminium, special construction for particular equipment	37.1.14	Equipment for large-scale kitchens and butcher's shops
36.75.1.2	Folding boxes	37.1.15	Cooking-fat filters
36.75.1.3	Inserts for boxes and chests, machine parts	37.1.16	Champagne cooler
36.75.2	Composite transport boxes and chests (aluminium and plastic)	37.1.17	Field kitchens, mobile cooking equipment
36.75.3	Barrels and drums	37.1.18	Equipment and systems for catering, cafeterias and canteens
36.75.3.1	Transport barrels and drums	37.2	Household goods
36.75.4	Pots, big bottles	37.2.1	Kitchen foil
36.75.4.1	Other pots for transport	37.2.2	Aluminium cases
36.75.4.2	Big bottles	37.2.3	Camera cases
36.75.5	Cuboidal containers	37.2.4	Picture rails and frames
36.75.5.1	Cuboidal containers for granules	37.2.5	Household goods, general
36.75.6	Composite bags and pouches, general	37.2.6	Camp beds
36.75.7	Toggle-type closures for boxes, chests and drums	37.2.7	Equipment handles for cleaning systems
37	Aluminium products for the kitchen, household, garden, hospital and rescue ware	37.3	Garden goods
37.1	Kitchen equipment	37.3.1	Garden furniture
37.1.1	Catering cutlery	37.3.2	Large retractable hoods and shades
37.1.2	Cookware	37.3.3	Handles for gardening equipment
37.1.3	Pressure cookers	37.4	Hospital requisites, ergotherapy an rehab equipment
37.1.4	Frying pans	37.4.1	Stretchers for rescue and for general hospital use
37.1.5	Roasting pans	37.4.2	Access ramps, Bridging Spans
		37.10	Interior decoration
		37.10.1	Furniture making
		37.10.1.1	Aluminium furniture systems

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37.10.2	Furniture design	40.2.3	Spraying and stoving applications
37.10.3	Lighting fixtures made of aluminium	40.3	Colour anodizing, immersion dyeing
38	Aluminium sporting equipment and components	40.3.1	Dip colouring
38.1	Goalposts	40.3.2	Electrolytic colouring
38.2	Tennis rackets	40.3.4	Combination colouring
38.3	Umpires' chairs	40.3.5	chemical black paint of copper and brass
38.4	Sticks	40.4	Hard anodizing
38.4.1	Ski sticks	40.4.1	Partial hard anodizing
38.4.2	Walking-/ Nordic walking sticks	40.4.2	Hard coat / slip coat
38.5	Equipment for equestrian events	40.5	Chromium plating
38.6	Trainer's rooms	40.5.1	Black chrome-plating
38.7	Grandstands	40.5.2	Matt chrome-plating
39	Aluminium components for engineering, precision mechanics, optics	40.5.3	Bright chrome-plating
39.1	V-belt pulleys	40.5.4	Hard chromium plating
39.2	Aluminium honeycomb impact-absorption elements	40.5.5	Velour-chrome plating
39.3	Systems and components for supports and devices for machines	40.6	Partial electroplating
39.3.1	Milled parts (to drawing)	40.7	Chemical (non electrical) nickel plating
39.3.2	Aluminium profiles	40.7.1	Partial chemical (non-electrolytic) nickel-plating
39.3.3	protection device for mechanical engineering	40.7.2	Chemical (electroless) nickel-plating and annealing
39.4	Linear bearings, shafts and tables, roller-gear tables, positioning elements	40.8	Coating
39.4.1	Jigs and fixtures for holding workpieces	40.8.1	Lacquering and painting
39.5	Compressed air distribution systems	40.8.4	Liquid painting
39.6	Hydraulic and pneumatic tubes	40.8.5	CDP-coating
39.7	Piston rods for hydraulic and pneumatic systems (Kempal)	40.8.2	Metallic coatings
40	Special surface treatment for aluminium products	40.8.3	chrome-free passivating
40.1	Brightening	40.9	Enamelling
40.2	Anodizing	40.10	Treatment in drums (electroplating)
40.2.1	Protective anodizing	40.11	Treatment in drums (anodizing)
40.2.2	Chromic acid anodizing	40.12	Lubricating coating
		40.13	Non-stick coatings
		40.13.1	Mould coatings
		40.14	Composite coating
		40.14.1	Multi-purpose coatings

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40.15	Rack processing
40.15.1	Rack processing (up to 800mm)
40.15.2	Electroplating (nickel)
40.15.2.1	Electroplating (nickel), very bright
40.15.2.2	Electroplating (nickel), matt
40.15.3	Tin plating
40.15.3.1	Tin plating, bright
40.15.3.2	Tin plating, matt (highly solderable)
40.15.3.3	Tin-Cobalt (chrome-substitute)
40.15.4	Copper plating
40.15.5	Brass-plate
40.15.5.1	glossy + ground brass-plate

D **Plant, machines and auxiliary equipment for, extracting, forming and finishing aluminium, tolling jobs**

60	Equipment and accessories for raw materials processing and aluminium extraction
60.1	Aluminium oxide fabrication
60.1.1	Conveyor systems for bulk goods
60.1.2	Dust extraction systems
60.1.2.1	Industrial aspirators
60.1.2.2	Installations for filtering swarf
60.1.3	Bauxite mills, sieves and mixers
60.1.4	Pumps
60.1.5	Filtering plant
60.1.5.1	Installations for filtering swarf
60.1.6	Calcining kilns
60.1.7	Thickeners for red mud and hydrates
60.1.8	Silos for aluminium oxide
60.2	Primary aluminium production

60.2.1	Computer systems for production control
60.2.2	Potroom operating equipment
60.2.3	Pot charging devices
60.2.4	Electrolysis plant
60.2.5	Anode and cathode manufacturing plant
60.2.6	Prebaked anode manufacturing plant
60.2.7	Conveyor and cleaning plant for electrodes
60.2.8	Plant and equipment for packaging prebaked anodes
60.2.9	Cathode- and side-blocks
60.2.10	Ramming and sealing paste
60.2.11	Luting compounds and binders
60.2.12	Cathodes
60.2.13	Conveyor systems for bulk goods
60.2.14	Anode breakers and stripping equipment
60.2.15	Break-out machines for old pots
60.2.16	Suction-type metal collectors
60.2.17	Melt purification devices
60.2.18	Cast-iron block moulds
60.2.19	Aluminium-melt testers
60.2.20	Pig casting machines, carousel type
60.2.21	Ingot stacking machines
60.2.22	Compressors and fans of all types
60.2.23	Rotary blowers
60.2.24	Temperature-measuring devices
60.2.25	Block transport clamps
60.3	Secondary aluminium production, recycling
60.3.1	Dross preparation plant
60.3.2	Shredders
60.3.3	Drying plant for aluminium swarf
60.3.4	Processing plants, swarf mills
60.3.4.1	Recycling plant for aluminium swarf
60.3.4.2	Recycling plant for aluminium dross
60.3.5	Baling presses

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60.3.6	Briquetting machines for swarf	61.2	Melt treatment, melt transport
60.3.7	Equipment for recycling beverage cans	61.2.1	Equipment for rabbling dross
60.3.8	Ingot casting machines	61.2.2	Melt treatment devices
60.3.9	Shears	61.2.3	Gas injection lances and gas distributors
61	Equipment and accessories for melting, casting and heat treatment	61.2.4	Degassing containers
61.1		61.2.5	Filters and filter materials for melts
61.1.1	Building and conversion of industrial furnaces	61.2.5.1	Sintered metal filters
61.1.1.1	Automation and control systems	61.2.6	Ceramic filters
61.1.2	Melting furnaces	61.2.7	Woven filters
61.1.3	Burnout furnaces	61.2.8	Refining, fluxing and covering salts
61.1.4	Holding furnaces	61.2.9	Exothermic products
61.1.5	Casting furnaces	61.2.10	Degassing and purification agents
61.1.5.1	Dosing furnaces	61.2.11	Modifiers and grain refiners
61.1.6	Heat treatment furnaces and equipment	61.2.12	Melt testing equipment
61.1.6.1	Annealing furnaces	61.2.13	Dosing and transport equipment for aluminium melts
61.1.6.2	Ageing furnaces and equipment	61.2.13.1	Flexible laundar joint
61.1.7	Scrap pre-heating systems	61.2.14	Transport containers for molten aluminium
61.1.8	Furnace charging equipment	61.2.15	Insulating covers for molten metal containers
61.1.9	Electric heating elements	61.2.16	Wear-resistant pumps for NF metals
61.1.10	Blowers for casting furnaces	61.2.17	Nitrogen-fed agitators for NF-metals
61.1.11	Industrial burners	61.2.18	Injection machines for metal powder, alloying method
61.1.12	Refractory engineering	61.2.19	Cooling, general
61.1.13	Refractory bricks	61.3	Shape casting
61.1.14	Ramming, casting, gunning and repair compounds	61.3.1	Continuous casting machines
61.1.15	Insulating bricks and slabs	61.3.2	Strip-casting machines
61.1.16	Gunning machines for heat-resistant compounds	61.3.3	Strip casters
61.1.17	Thermo elements	61.3.4	Continuous casting lubricants
61.1.17.1	Heating coils	61.3.4.1	Bone ash
61.1.18	Energy recovering units	61.3.4.2	Charcoal
61.1.19	Process control for industrial furnaces	61.3.4.3	Lauric acid
61.1.20	Refractory insulating products/insulating materials	61.3.5	Spray-compacting units
		61.3.6	Metal level control systems for automatic billet casting machines
		61.3.7	Block transport clamps

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61.3.8	Rotary casters for narrow strip	61.4.20	Pressure die-casting mould release agents and lubricants
61.3.9	Roll-casters for wide strip	61.4.21	Pressure die-casting piston lubricants
61.3.10	Equipment for casting pigs and sows	61.4.22	Semi- and fully automatic lubricant spraying equipment for pressure die-casting moulds and pistons
61.3.11	DC casting moulds and tables	61.4.22.1	Dust and fume extraction equipment for pressure die-casting machines die-casting machines
61.4	Mould casting	61.4.23	Toolmaking, construction of equipment, dies and moulds
61.4.1	Melting crucibles and furnaces	61.4.24	CAD/CAM systems for casting-mould production
61.4.2	Pouring ladles	61.4.25	Hot-working steels for die-making
61.4.3	Heating equipment for pouring ladles	61.4.25.1	Cold work steels
61.4.4	Moulding machines and equipment for sand casting	61.4.26	Ejector pins
61.4.5	Core moulding machines and equipment	61.4.27	Temperature measuring equipment
61.4.5.1	Decorating machines	61.4.27.1	Protective tubes for thermocouples
61.4.6	Parting agent spraying equipment for moulding and core moulding machines	61.4.28	Aluminium-melt testers
61.4.7	Binders for mould and core materials	61.4.28.1	Equipment for measuring the hydrogen content of aluminium melts
61.4.8	Sand conditioning and reconditioning plants	61.4.28.2	Equipment for measuring the cleanliness of aluminium melts in aluminium melts
61.4.8.1	Equipment for testing sand cores	61.4.29	Equipment for fettling castings
61.4.8.2	Core gas measuring instrument	61.4.30	Equipment for impregnating castings
61.4.9	Permanent mould casting machines and carousels	61.4.31	Dust removal and filtering equipment
61.4.10	Low-pressure die-casting machines	61.4.32	Software for solidification simulation
61.4.10.1	Moulds	61.4.33	Casting sealing compounds
61.4.11	Casting dies and moulds	61.4.34	Fluxes
61.4.11.1	Cleaning units for foundry tools and moulds	61.4.35	Afterburning of noxious gases resulting from production processes
61.4.11.2	Foundry accessories	61.4.36	Flaring devices
61.4.12	Riser tubes for low-pressure die-casting machines	61.4.37	Installation for cooling castings
61.4.12.1	Dosing riser tubes	61.4.38	Resistance thermometer
61.4.12.2	Dosing systems		
61.4.13	Die and mould washes		
61.4.14	Pressure die-casting machines		
61.4.15	Pistons and components for pressure die-casting machines		
61.4.16	Equipment for vacuum die-casting		
61.4.17	Automation equipment		
61.4.18	Flash trimming equipment		
61.4.19	Mould cooling equipment		
		62	Equipment and accessories for rolling mill technology
		62.1	Hot-rolling mills
		62.28.1	Transporters for coils and sheet
		62.2	Cold-rolling mills
		62.2.1	Continuous strip treatment lines

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62.2.2 Inductive strip heating plant
 62.3 Foil mills
 62.4 Wire mills
 62.5 Rolls
 62.5.1 Foil rolling
 62.5.2 Engraved embossing rolls
 62.6 Embossing calenders
 62.7 Electrical equipment
 62.7.1 Mechanical equipment
 62.8 Electric and hydraulic control equipment
 62.9 Thickness gauges
 62.10 Ingot scalping machines
 62.11 Ingot saws
 62.12 Slab saws
 62.13 Edge-trimming, cropping and chopping machines
 62.13.1 Cutting knives for slitters and cut-to-length lines
 62.14 Levellers for sheet and coil
 62.14.1 Sheet and plate stretchers
 62.15 Slitters and cut-to-length lines
 62.16 Foil-cutting equipment
 62.17 Packing machines for sheet and coils
 62.18 Hydraulic coilers
 62.19 Roll grinding machines
 62.20 Filtering plant for rolling oils and emulsions
 62.20.1 Filter media (Paper & Aids)
 62.21 Automation equipment
 62.22 Roll cooling equipment
 62.23 Measurement and testing systems
 62.24 Control systems and automation
 62.25 Rolling oils
 62.26 Used rolling mill equipment
 62.27 Cooling, general
 62.27.1 Coolant filtration

62.28 Coils storage systems

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Equipment and accessories for extrusion and drawing

63.1 CAD/CAM systems for die production
 63.1.1 Pickling equipment for extrusion dies, integrated into the production line
 63.2 Inductive heating equipment
 63.2.1 Rapid magnetic heating equipment
 63.2.2 Die heating
 63.3 Fuel-fired heating equipment
 63.3.1 Ingot transport equipment
 63.3.2 Ingot storage installations
 63.4 Extrusion, extrusion presses
 63.4.1 Billet containers
 63.4.2 Billet containers heatings
 63.5 Hot billet shears
 63.6 Extrusion dies
 63.6.1 Equipment for splitting extrusion tooling
 63.6.2 Nitriding of extrusion dies
 63.7 Automatic polishing machines for extrusion dies
 63.8 Run-out tables
 63.9 Pullers
 63.10 Cutting equipment, trimming saws, billet saws
 63.10.1 Precision circular saws for metals
 63.11 Transfer devices
 63.12 Roller guideways
 63.13 Stretchers
 63.14 Straightening machines for tubes and sections
 63.15 Straightening equipment for wire, rod and strip
 63.16 Cut-to-length saws
 63.17 Conform plants
 63.18 Dies for Conform plant
 63.19 Drawing machines (rods and bars, wire)

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63.20	Dies
63.20.1	Drawing dies
63.20.2	Extrusion dies
63.20.2.1	Coated Extrusion dies
63.21	Cutting equipment on drawing machines
63.22	Transfer devices on drawing machines
63.23	Drawing lubricants
63.24	Drawing die orifices
63.25	Electrical and hydraulic controls
63.25.1	Water hydraulics / hfa
63.26	Automation equipment
63.27	Conveyors for collecting baskets
63.28	Pointing machines
63.29	Billet-insertion machines
63.30	Used extrusion and deep-drawing equipment
63.31	Layer coiler(s) for aluminium tube
63.32	Homogenising plants
63.33	Extrusion Process Automation

64 Equipment and accessories for forging and impact extrusion

64.1	Inductive heating equipment
64.2	Crank and knuckle-joint presses
64.3	Screw presses
64.4	Hydraulic presses
64.5	Impact extrusion presses
64.6	Forging dies and accessories
64.7	Impact extrusion press tooling, accessories
64.8	Lubricants for cold impact extrusion
64.9	Lubricants for hot forming
64.10	Handling equipment and manipulators
64.11	Used forging and impact extrusion equipment
64.12	Cable-sheathing presses, cable sheath corrugators
64.13	Spraying equipment and equipment for constructing jigs and

fixtures

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65.1	Production lines for ready-to-use sheet metal components
65.2	Mechanical and hydraulic sheet shears
65.3	Circular shears
65.4	Bending presses
65.4.1	Folding and bending tooling
65.5	Serial stamping machines
65.6	Cutting and stamping tools
65.7	Press bending machines
65.8	Roller bending and sheet bending machines
65.9	Strip profiling machines
65.9.1	Roll-forming plant
65.10	Section bending machines
65.11	Metal spinning machines
65.12	Hydraulic deep-drawing presses
65.13	Mechanical deep-drawing presses
65.14	Multi-stage presses
65.15	Trimming machines for deep-drawn components
65.16	Strip coiling machines
65.16.1	Coil grabs
65.16.2	Coil storage systems
65.17	Standard parts for moulds and tooling
65.18	Lubricants for deep drawing
65.19	Punching and nibbling machines
65.20	CAD/CAM systems
65.21	Used sheet-forming equipment
65.22	Cutting systems
65.22.1	Tube and section stamping machines
65.22.2	Tube and section cropping machines

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66 Equipment and accessories for sawing and cutting

- 66.1 Circular saws
- 66.2 Metal slitters
- 66.3 Circular saw blades
- 66.4 Band saws for metals
- 66.4.1 Bandsaws for slitting
- 66.4.2 Ingot bandsaws for casthouses
- 66.4.3 Horizontal bandsaws
- 66.5 Saw blades
- 66.5.1 Bandsaw blades
- 66.6 Parting shears
- 66.7 Parting machines using abrasive discs
- 66.8 Strip slitters with multiple circular knives
- 66.9 Shear blades and knives
- 66.10 Solid lubricants for sawing
- 66.11 Ingot saws
- 66.12 Water-jet cutting equipment
- 66.13 Laser cutting equipment
- 66.14 Minimal-lubrication systems for saws
- 66.15 Spray lubricants

67 Equipment and accessories for machining

- 67.1 Machines
- 67.1.1 Lathes and automatic lathes
- 67.1.2 Drilling and boring machines
- 67.1.3 Milling machines
- 67.1.4 Grinding machines
- 67.1.5 Precision-finishing machines
- 67.1.6 Special-purpose machines
- 67.1.7 High-speed machine tools
- 67.1.8 Machining centres, CNC
- 67.1.9 Dust and fume exhaust systems for scalpers and saws
- 67.1.10 Machining software

67.1.1

- 67.2 Tools
- 67.2.1 lathe tools
- 67.2.2 Milling tools
- 67.2.3 Drills
- 67.2.4 Taps and dies for thread-cutting
- 67.2.5 Precision-finishing tools
- 67.2.6 Carbide-tipped cutting tools
- 67.2.7 Diamond-tipped cutting tools
- 67.2.8 High-speed steel cutting tools
- 67.2.9 Shredding systems
- 67.3 Machining aids
- 67.3.1 Cooling lubricants
- 67.3.1.1 Coolant cleaning equipment
- 67.3.2 Special accessories
- 67.3.3 Low-dose lubricating systems and high performance lubricants
- 67.3.4 Materials for the care of tools
- 67.4 Clamping devices and components
- 67.5 NC programming and control systems

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- 68.1 CAD systems
- 68.2 Portable circular saws for metal
- 68.3 Fixed circular bevelling saw
- 68.3.1 Double mitre saws
- 68.4 Copy milling of extruded sections
- 68.5 Release devices, mechanical
- 68.6 Release devices, hydraulic
- 68.7 Drilling and combined drilling/milling machines
- 68.8 Corner jointing machines
- 68.9 Combined drilling and stamping machines
- 68.9.1 Tube stamping machines
- 68.10 Tools

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68.11	Assembly aids
68.11.1	Adjustment keys, glazing blocks, rebated inserts of tempered safety glass
68.11.2	Machines and equipment for assembling windows and windows elements
68.11.3	PUR foam in spray cans
68.12	Plate saws
68.13	Bending equipment
68.14	Straightening machines
68.15	Tube flaring machines
68.16	Tube bending machines
68.16.1	End-machining units
68.16.2	End-bending units
68.17	Cast glass, fire-resistant glass, insulating and safety glass
68.19	Sponge rubber
68.19.1	Seals and sealing
68.20	Equipment and accessories for roofing work
68.20.1	Inclined hoists
68.20.2	Hoists
68.20.3	Working platforms
68.20.4	Mobile cranes
68.20.5	Skylights giving access to the roof
68.20.6	Roof ladders
68.20.7	Chimney scaffolding
68.21	Storage systems

69 Equipment and accessories for surface treatment and corrosion protection

69.1	Surface cleaning and degreasing
69.1.1	Cleaning equipment and materials
69.1.2	Degreasing equipment and materials
69.1.3	Ultrasonic cleaning equipment
69.1.4	Plant and processes for improving adhesion

69.1.5	Facade cleaning products
69.1.6	Low-temperature ovens for drying
69.1.7	Drying plant
69.2	Mechanical surface treatment
69.2.1	Grinding and polishing machines
69.2.1.1	Centrifugal grinding machines
69.2.1.2	Drag finishing machines
69.2.2	Grinding and polishing machines for strip
69.2.3	Grinding and polishing compounds
69.2.4	Polishing pastes
69.2.5	Fibre-tufted round brushes
69.2.6	Discs and brushes, deburring brushes
69.2.7	Contact discs
69.2.8	Polishing rings
69.2.9	Drum equipment and plant
69.2.10	Vibratory machines
69.2.11	Drum polishing materials
69.2.12	Brushing machines
69.2.13	Marbling tools
69.2.14	Grinding discs
69.2.15	Satin-finishing discs and belts
69.2.16	Endless abrasive belts
69.3	Sand- and shot-blasting
69.3.1	Blasting equipment, processes
69.3.1.1	Sandblasting cabins
69.3.1.2	Dry ice blasting equipment
69.3.2	Blasting abrasives
69.3.2.1	Stainless steel blasting grit
69.3.3	Auxiliary materials
69.4	Flame spraying
69.4.1	Spray wire
69.4.2	Sprayed coatings on aluminium (for wear protection)
69.4.3	Sprayed aluminium-on-steel coatings

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69.5	Chemical conversion coating, chromating, phosphating	69.9.8.1	Multi-purpose jigs
69.5.1	Equipment	69.9.8.2	Jig elements
69.5.1.1	Equipment integrated into the production line	69.9.8.3	Wheels
69.5.2	Processes	69.9.9	Touch-ups and sprays for improving anodized surfaces
69.5.3	Auxiliary materials	69.10	Electroplating
69.6	Pickling, etching	69.10.1	Equipment
69.6.1	Equipment	69.10.1.1	Low-temperature ovens for drying
69.6.1.1	Equipment integrated into the production line	69.10.1.2	Electrical rectifying equipment
69.6.2	Processes	69.10.2	Processes
69.6.3	Auxiliary materials	69.10.3	Auxiliary materials
69.7	Brightening, chemical and electrochemical	69.10.3.1	Hoods for covering electroplating baths
69.7.1	Equipment	69.10.3.2	Guides for wire
69.7.1.1	Equipment integrated into the production line	69.11	Painting, stove enamelling, coating
69.7.1.2	Electrical rectifying equipment	69.11.1	Equipment, processes
69.7.2	Processes	69.11.1.1	Coil coating units
69.7.3	Accessories	69.11.2	Priming, wash primers
69.8	Deburring	69.11.2.1	Mixing and dosing equipment
69.8.1	Equipment and processes for mechanical deburring	69.11.3	Paints, lacquers
69.8.2	Equipment and processes for chemical or electrochemical deburring	69.11.3.1	Packaging lacquers
69.8.3	Equipment and processes for thermal deburring	69.11.4	Coating powders
69.8.4	Auxiliary materials	69.11.5	Coil coating paints
69.9	Anodic oxidation, colour anodizing, combination colouring	69.11.6	Anti-friction coatings
69.9.1	Equipment	69.11.7	Chemicals, auxiliary materials
69.9.1.1	Electrical rectifying equipment	69.11.8	Dipping paints and varnishes, clear and pigmented
69.9.1.2	Process control, colour appliances and rectifier for aluminium anodisation	69.11.9	Drying ovens
69.9.2	Processes	69.11.10	Paint dosing pumps
69.9.3	Pre-treatment materials	69.12	Enamelling
69.9.4	Dyes, finishing materials	69.12.1	Equipment and processes
69.9.5	Scale inhibitors	69.12.2	Auxiliary materials
69.9.6	Electrical equipment	69.13	Non-metallic coatings of rubber, synthetic resin, etc.
69.9.7	Clamps	69.13.1	Equipment, processes
69.9.8	Jigs	69.13.2	Auxiliary materials
		69.14	Vapour deposition of aluminium

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69.14.1	Wire for PVD (physical vapour deposition)
69.15	Other accessories for surface treatment
69.15.1	Protective foil
69.15.2	Disinfectants and germicides
69.15.3	Peel-off protective films
69.15.4	Metal marking equipment
69.16	Plant engineering for hard anodizing and electroless nickel-plating
69.16.1	Hard anodizing, plants
69.16.2	Non-electrolytic nickel-plating plant

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Equipment and accessories for joining

70.1	Adhesive bonding
70.1.1	Equipment and devices for applying adhesives
70.1.2	Adhesives for metals
70.1.3	Adhesives for joining metals to non-metallic materials
70.1.4	Hot-melt type adhesives
70.1.5	Pressure-sensitives adhesives, adhesive foils
70.1.6	Coating adhesives
70.1.7	Plasma pre-treatment for adhesive bonding techniques without CHC/CFC
70.1.8	Refractory adhesives
70.2	Insulation, sealing
70.2.1	Equipment and auxiliary materials for processing sealants
70.2.2	Sealing compounds
70.2.3	Sealing sections and moulded seals
70.2.4	Sealing brushes
70.2.5	Insulating materials and compounds
70.2.6	Sealing strips
70.3	Brazing, soldering
70.3.1	Fluxes
70.3.2	Brazing furnaces
70.3.3	Brazing solders
70.3.4	Soft solders

70.4	Fusion welding
70.4.1	Equipment and apparatus for fusion welding
70.4.1.1	Welding fume extraction, extractor hoods
70.4.2	Welding transformers, generators and rectifiers
70.4.2.1	Welding generators
70.4.2.2	Welding rectifier
70.4.3	Inert gas shielded welding equipment (MIG-MAG, WIG)
70.4.4	Plasma cutting and welding equipment
70.4.5	Fluxes
70.4.6	Welding rods for gas and TIG welding
70.4.7	Wire electrodes for MIG welding
70.4.8	Aluminium electrodes for manual arc welding
70.4.9	Tungsten electrodes
70.4.10	Burner gases, oxygen
70.4.11	Inert gases
70.4.12	Personal protective gear for welding
70.4.12.1	Protective curtains for welding
70.4.12.2	Welding helmets
70.4.12.3	Safety glasses for welding
70.4.12.4	Protective gloves for welding
70.4.13	Welding Burner
70.5	Pressure welding
70.5.1	Pressure welding machines with magnetically traversed arc
70.5.2	Friction welding machines
70.5.3	Friction stir-welding machines
70.6	Resistance welding
70.6.1	Spot, seam, and projection welding machines
70.6.2	Flash butt welding machines
70.6.3	Electrodes and electrode materials
70.6.4	Strip welding equipment, coil-to-coil
70.7	Electron and laser beam welding, general
70.7.1	Electron beam welding equipment
70.7.2	Laser beam welding equipment

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70.7.3	Laser-Hybrid welding technology	70.13.2	Stainless steel joining and fastening elements
70.7.4	Tandem welding technology	70.13.3	Plastic joining and fastening elements
70.7.5	Cold Process-Technology	70.13.4	Magnetic systems
70.8	Stud welding	70.13.5	Special dovetail blocks and special nuts
70.8.1	Stud welding machines	70.13.6	Fastenings of stainless steel, aluminium and plastic for photovoltaic and solarthermics
70.8.2	DC arc welding machines (lift ignition)	70.14	Joining by forming
70.8.3	Condenser discharge machines (point ignition)	70.14.1	Equipment, machines
70.8.4	Weld studs	70.14.2	Equipment and tools for clinching
70.9	Manufacturing equipment	70.14.3	Complete tool and die sets
70.9.1	Welding robots	70.14.4	Portable tools and dies
70.9.2	Welding lines	70.15	Press-in fasteners
70.9.3	Welding benches	70.15.1	Beading machines
70.9.4	Tube-welding machines	70.15.2	Beading tools
70.10	Rivets	70.15.3	Bolts, step bolts, nuts, pins, bushes, sleeves, sleeves nuts
70.10.1	Solid and hollow rivets	70.15.4	Riveting nuts
70.10.2	Tools for blind riveting		
70.10.3	Riveting machines		
70.10.4	Blind rivets	71	Equipment and accessories for foil processing, foil conversion and packaging
70.10.5	Integral rivets	71.1	Pretreatment and converting machines for foil and strip
70.10.6	Tool for integral rivets	71.1.1	Strip winding machines for transformers
70.11	Screw fasteners	71.1.2	Chemical conversion plants
70.11.1	Mechanical screwing equipment	71.1.3	Anodizing equipment
70.11.2	Aluminium screws	71.1.4	Turning and winding machines
70.11.3	Stainless and chromium-nickel plated steel screws	71.1.5	Foil coating machines
70.11.4	Titanium screws	71.1.6	Laminators
70.12	Nails, pins, cotter pins	71.1.8	Foil printing machines
70.12.1	Nails	71.1.9	Vacuum metallizing machines for depositing aluminium on paper and plastic
70.12.2	Aluminium cotter pins	71.1.10	Machines for producing brushed and matt finishes
70.12.3	Stainless steel cotter pins	71.1.11	High voltage corona treatment
70.12.4	Chromium-nickel steel cotter pins	71.1.12	„Sorbex“ ozone treatment
70.12.5	Stainless steel spring cotter pins	71.1.13	Other production machines
70.13	Other fasteners, fixing and holding elements		
70.13.1	Aluminium joining and fastening elements		

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71.1.13.1	Machines for printing on cartons, boxes, cans, packages, webs and similar things	71.2.4.6	Machines for producing easy-open lids
71.1.13.2	Installations for marking packaging	71.2.5	Feeding equipment and methods
71.1.13.3	Metallizing machines for depositing aluminium on plastic foil	71.2.5.1	Electronic feeding devices
71.1.14	Equipment and auxiliary materials for the surface treatment of cans	71.2.6	Transportation and storage systems
71.1.14.1	Degreasing and pickling	71.3	Auxiliary materials for converting packaging materials
71.1.14.2	Equipment	71.3.1	Paints and lacquers
71.1.15	Paints for interior and exterior use	71.3.2	Equipment
71.1.15.1	Paints for interior and exterior use, general	71.3.2.1	Rolls for rotogravure and pattern printing
71.1.16	Electronic optical monitoring equipment	71.3.3	High voltage corona treatment
71.1.16.1	Crack detection devices	71.3.4	Wire for PVD (physical vapour deposition)
71.2	Machines for processing foil and thin strip	71.4	Manufacture of cans, bottles, aerosol cans
71.2.1	Separators	71.4.1	Complete plants
71.2.1.1	Slitter rewinder for aufoil	71.4.2	Extrusion moulding machines and tooling
71.2.2	Multiblade slitting shears	71.4.3	Beading and folding machines
71.2.3	Wrapping machines	71.4.4	Can lacquering and printing machines
71.2.3.1	Coilers and uncoilers	71.4.5	Can seaming machines
71.2.3.2	Rewind reels for separators	71.4.6	Machines for producing aerosol cans
71.2.3.3	Foil doubling payoff	71.4.7	Aerosol can trimming machines
71.2.3.4	Wrapping machines for palettes	71.4.8	Hoop-casing machines for aerosol cans
71.2.3.5	Recoilers	71.4.9	Machines for necking the tops of aerosol cans
71.2.3.6	Turret winders	71.4.10	Canmaking machines
71.2.3.7	Strip winding machines for transformers	71.4.11	Can crimping machines
71.2.3.8	Wrapping mandrel	71.4.12	Can necking-in machines
71.2.3.9	Web speed and tension control	71.4.13	Combination cans
71.2.3.10	Aluminium cores for foil	71.5	Filling, dosing and sealing machinery
71.2.4	Forming machines	71.5.1	Plant in general
71.2.4.1	Mechanical drawing presses	71.5.2	Plant for liquids
71.2.4.2	Embossing machine for alufoil	71.5.3	Plant for pasty and viscous fillings
71.2.4.3	Machine for making bottle caps	71.5.4	Sealing machines for roll-on caps (incl. pilfer-proof)
71.2.4.4	Stretching equipment for aluminium foil and strip	71.5.5	Can filling and sealing machines for tear-off lids
71.2.4.5	Machines for producing can closures with security foil	71.5.7	Pouch-making, -filling and sealing machines
		71.5.8	Bottle filling machines for roll-on closures
		71.5.9	Tub filling and sealing machines

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71.5.10	Can filling and sealing machines
71.5.11	Machine for filling aluminium tubes with viscous pastes
71.5.12	Folding machine for lumpy goods
71.5.13	Forming and overwrapping machines
71.5.13.1	Forming and overwrapping machines for individual solid parts
71.5.13.2	Packing machines for tubes
71.5.14	Sealing and welding machines
71.5.14.1	Machines for sealing and welding pouches
71.5.14.2	machines for sealing and filling for cans from sheet metal or card-board
71.5.14.3	Machines for sealing and welding foils
71.5.15	Machines for sealing TV dinners
71.5.16	Machines for sealing preserving jars
71.5.17	Heat sealing equipment
71.5.18	Special single-purpose machines and devices
71.5.19	Other production equipment and supplies
71.6	Tube manufacturing
71.6.1	Complete installations for tube manufacturing
71.6.2	Impact extrusion presses, tooling
71.6.3	Tube printing and lacquering machines
71.6.4	Annealing, drying and stoving ovens
71.7	Sealing and welding machines
71.7.1	Plant in general
71.7.2	Installations for cans and tubs
71.7.2.1	Installations for containers made from sheet metal or cardboard
71.7.3	Machines for sealing TV dinners
71.7.4	Heat sealing equipment
71.8	Tools
71.8.1	Parting tools
71.8.2	Cutting tools
71.8.3	Shaping tools
71.8.4	Embossing rolls, paper rolls, patterning rolls
71.8.5	Impact extrusion tooling

71.8.6	Necking-in tools
71.8.7	Combination tools
71.8.20	Steel stamps, marking tools and equipment
71.9	Adhesives
71.9.1	Adhesives, general
71.9.2	Polyurethane laminating adhesives

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72	Equipment and accessories for environmental protection
72.1	Air and exhaust gas purification
72.1.1	Filters
72.1.2	Scrubbers
72.1.3	Mechanical precipitators (cyclones)
72.1.4	Wet precipitators
72.1.5	Electrostatic precipitators
72.1.6	Thermal and catalytic incineration plant
72.1.7	Exhaust air cleaning processes
72.2	Waste water purification, water treatment
72.2.1	Waste water purification
72.2.1.1	Waste water centrifuges
72.2.2	Water treatment
72.2.3	Chemical industrial water treatment
72.2.4	Filter bags
72.2.5	Water aeration
72.3	Treatment, recovery and disposal of non-aqueous waste
72.3.1	Solvent recovery plant
72.3.2	Plant for the precipitation and recovery of oils, greases and lubricants
72.3.2.1	Disposal of non-aqueous waste
72.3.3	Non-destructive hardness measurement instruments
72.3.4	Oil skimmers
72.4	Waste management and treatment
72.4.1	Mobile treatment plant
72.4.2	Recycling equipment

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72.4.3	Treatment of process sludges
72.5	Noise and sound protection, anti-resonance coatings, shielding
72.5.1	Noise barriers
72.5.2	Soundproof cubicles
72.5.3	Noise barrier covers
72.5.4	Sound absorbers
72.5.5	Sound-suppressed ventilation equipment
72.5.6	Noise, sound and resonance protection
72.5.7	Shielding
72.5.8	Noise-damping housings for shutter strips
72.6	Measuring and control equipment for environmental protection
72.6.1	Emission measuring equipment
72.6.2	Concentration measuring instruments
72.6.3	Noise and vibration measuring instruments

73 Equipment and accessories for tool and mould making

73.1	Erosion machines countersink erosion machines
73.1.1	Cavity sinking EDM machines
73.2	Erosion drilling machines
73.3	Special alloy steels for making extrusion press components
73.4	Steels for making moulds for forming plastic
73.5	Aluminium alloys for toolmarking applications

74 General factory equipment and accessories

74.1	Energy supply installations
74.2	Dust and fume extraction equipment
74.3	Transport equipment
74.3.1	Forklift trucks
74.3.2	Fully automatic cranes
74.4	Packing and palletizing equipment for semis
74.5	Load handling attachments
74.6	Automatic lubricating systems
74.7	Equipment for thermal processes
74.8	Equipment for making evaporators

74.9	Hydraulic oils
74.10	Water additives
74.11	Web speed controller
74.12	Roller bearings for forming and foundry equipment
74.13	Nozzles
74.14	Emulsion separators
74.15	Hardening and tempering fluids
74.16	Covers for heated dipping baths
74.16.1	Covering hoods for heated dipping baths
74.17	Palletizing and packing machines for slugs and round blanks
74.18	Stackers
74.19	Storage systems for long stock and sheet metal
74.20	Equipment and machines for industrial cleaning
74.21	Locks, locking systems
74.22	Packaging materials for extrusions
74.23	Oils and other fluids for heat-transfer
74.24	Scales
74.24.1	Digital crane scales
74.25	Wear Protection Solutions
74.50	Personal protective equipment and clothing
74.50.1	Aluminium safety helmets
74.50.2	Coveralls to protect against high temperatures
74.50.5	Textiles for high temperature use
74.50.6	Refractory fibres
74.60	Machines for separating aluminium
74.70	CAD/CAM/DNC systems for machine tools
74.80	Marking systems
74.80.1	Embossing machines
74.80.2	Track & Trace Labels
74.80.3	Barcode Labels

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75 Equipment and accessories for measurement and testing

- 75.1 Laboratory equipment
- 75.2 Measurement and control equipment
- 75.2.1 Laser and optical measuring instruments for construction of windows and facades
- 75.3 Testing of anodic and varnish films
- 75.3.1 Film thickness measuring instruments
- 75.3.2 Sealing quality test instruments
- 75.3.3 Colour testers
- 75.3.4 Surface inspection
- 75.4 Nondestructive testing of materials
- 75.4.1 General non-destructive materials testing
- 75.4.2 Eddy current and impedance test instruments
- 75.4.3 Surface roughness testers
- 75.4.3.1 Hole detectors
- 75.4.4 Crack test instruments
- 75.4.5 Penetrant dyes for crack testing
- 75.4.6 Noise emission test instruments
- 75.4.7 X-ray test equipment
- 75.4.8 Ultrasonic testing equipment
- 75.4.9 Electrical conductivity measuring instruments
- 75.4.10 Non-destructive hardness measurement instruments
- 75.4.11 Industrial computer tomography
- 75.4.12
- 75.5 Destructive testing of materials
- 75.5.1 Tensile and compressive testing machines
- 75.5.2 Universal testing machines
- 75.5.3 Notched bar impact test machines
- 75.5.4 Hardness testing machines
- 75.5.5 Deep-drawing and cup-testing machines
- 75.6 Equipment and instruments for melt testing
- 75.6.1 Temperature-measuring equipment

- 75.6.2 Instruments for checking the hydrogen content
- 75.6.3 Aluminium-melt testers
- 75.6.4 Thermal analysis equipment for aluminium melts
- 75.7 Equipment for metallographic specimen preparation
- 75.8 Test equipment for special tests
- 75.9 Accessories and materials for testing techniques of all types
- 75.10 Standard CAD software
- 75.11 Analytical equipment for identifying aluminium alloys
- 75.12 Non-contact measuring systems
- 75.12.1 Speed and length measuring systems
- 75.13 Systems for measuring extruded sections
- 75.17 Thyristor-Power converters/sitches

76 Contract manufacturing

- 76.1 Heat treatment
- 76.1.1 Stress relieving, homogenizing
- 76.1.2 Hardening
- 76.1.3 Heat-treatment of aluminium castings
- 76.2 Forming, machining, cutting
- 76.2.1 Folding
- 76.2.2 Bending of tubes and sections
- 76.2.3 Spinning
- 76.2.4 Deep drawing
- 76.2.5 Cold pressing, upsetting
- 76.2.6 Machining
- 76.2.7 Profile turning
- 76.2.7.1 High-speed machining
- 76.2.8 Stamping, cutting
- 76.2.9 Sawing, cutting-to-length, blanking
- 76.2.10 Sheet cutting
- 76.2.11 Fine blanking
- 76.2.12 Strip slitting
- 76.2.13 Hot stamping

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76.2.14	Bending of aluminium	76.4.1.1	Deburring in general
76.2.15	Hot isostatic pressing (HIP)	76.4.1.2	Polishing
76.2.16	Laser cutting	76.4.1.3	Grinding
76.2.17	Water-jet cutting	76.4.2	Blasting
76.2.18	Milling	76.4.2.1	Sandblasting
76.2.19	EDM (electro-discharge machining)	76.4.2.2	Shot peening
76.2.20	Hydroforming	76.4.2.3	Shot-blasting for structuring
76.2.21	Plasma cutting	76.4.2.4	Blasting with glass beads and corundum
76.2.22	CNC machining	76.4.2.5	Dry-ice blasting
76.2.23	Mechanical machining	76.4.3	Vibratory grinding
76.2.24	Drilling and boring	76.4.3.1	Drum polishing
76.2.25	Machining and processing of aluminium extrusions	76.4.4	Pickling, etching
76.2.26	Tuning	76.4.5	Chemical conversion coating
76.3	Joining	76.4.5.1	Chromating
76.3.1	Brazing, soldering	76.4.5.3	Chromium free pre-treatment
76.3.2	Fusion welding	76.4.5.2	Phosphating
76.3.2.1	Electron beam welding	76.4.6	Brightening
76.3.2.2	Plasma welding	76.4.7	Anodizing
76.3.3	Butt welding	76.4.7.1	Hard anodizing
76.3.4	Resistance spot welding	76.4.8	Electroplating
76.3.5	Thermite welding	76.4.8.1	Silver-plating
76.3.6	Friction welding	76.4.8.2	Gold-plating
76.3.7	(Cold-) pressure welding	76.4.8.3	Alodine process
76.3.7.1	Explosion welding/ impact welding	76.4.8.4	Black-pearl (black-Nickel)
76.3.8	Adhesive bonding	76.4.9	Colour anodizing
76.3.9	Repair and restorative welding	76.4.9.1	Dip colouring
76.3.9.1	Welding aluminium pressure die-castings	76.4.9.2	Electrolytic colouring
76.3.10	Joining using Tox® system	76.4.9.3	Colour anodizing
76.3.10.1	Clinching by Tox® system	76.4.10	Combination colouring
76.3.11	Laser-beam welding	76.4.11	Lacquering, coating
76.3.12	Clinching	76.4.11.1	Liquid painting
76.4	Surface treatment	76.4.11.2	KTL-coating
76.4.1	General mechanical surface treatment	76.4.12	Batch coating

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76.4.13	Coil coating
76.4.13.1	Coatings to improve reflectivity
76.4.14	Non-metallic coatings
76.4.15	Enamelling
76.4.16	Aluminizing
76.4.17	Covering with protective foil
76.4.18	Patterning
76.4.19	Delacquering
76.4.20	Printing
76.4.21	Impregnation and sealing of castings
76.4.21.1	Processes for sealing castings
76.4.22	Coating with decorative finish
76.4.23	Powder coating
76.4.23.1	Pre-anodizing for avoiding filiform corrosion
76.4.24	Anti-condensation coating
76.4.24.1	Anti-resonant coatings
76.4.24.2	Non-stick, self-lubricating coatings
76.4.25	Electrochemical machining
76.4.25.1	Electrochemical machining/ceramizing
76.4.26	Laser surface welding
76.4.27	Laser surface alloying
76.4.28	Laser dispersion
76.4.28.1	Laser engraving
76.4.28.2	Laser lettering
76.4.29	Polyurethane coating
76.4.30	PVD coating (physical vapour deposition)
76.4.31	Vapour deposition of aluminium
76.4.32	Deffiniert to oil
76.4.33	wash, etching, conversion coating
76.5	Building works
76.5.1	Construction of aluminium roofing
76.5.2	Facade construction work
76.5.3	Shop window construction
76.5.4	Metal construction work for shopfitting and exhibitions

76.5.5	Construction and fitting of partition walls
76.5.6	Facade maintenance and cleaning
76.5.7	Metal construction work, general
76.5.7.1	Aluminium structures in accordance with DIN 4113
76.5.8	Greenhouse manufacture
76.5.9	Industrial structures
76.10	Contract packaging
76.10.1	Contract packaging, general
76.10.2	Export packaging
76.10.3	Long-term protection
76.11	Erection and construction work
76.11.1	Erection and assembly of sub-assemblies
76.12	Special Constructions
76.11.1	Erection and assembly of sub-assemblies
76.12.1	Special Constructions

77 Software for process simulation, computer programs

78 Metal goods, general

80 Personnel service

80.1 Examined welder for aluminium (AÜG/Werksvertrag)

E Consultancy, expert opinions, information

90 Consultancy

90.1	General consultancy
90.1.1	Service company
90.1.2	Translation services (technical and commercial)
90.2	Consultancy on special applications and process technology
90.2.1	Environmental protection
90.2.2	Surface treatment technology
90.2.3	Facade construction and facade construction technology

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90.2.4	Facade cleaning
90.2.5	Moulding, casting and melting technology
90.2.6	Heat treatment technology, furnace optimisation
90.2.7	Forming
90.2.7.1	High-speed machining
90.2.8	Conform technology
90.2.9	Prediction of ambient air quality
90.2.10	Brazing procedure
90.2.11	Studies for applications of memory metal
90.2.12	Technical consultation with construction and development
90.2.13	Energy supply
90.3	Materials databanks
90.4	Contract research
90.5	Engineering
90.5.1	Rapid prototyping technology
90.10	Design
90.10.1	Advice on design, layout, shape and form.
90.20	Advice on trade shows and exhibitions

91	Experts opinions
91.1	Testing institutes
91.2	Assessors
91.4	Samplers
91.5	Planning, design, software
91.5.1	Plant
91.5.2	Factory equipment
91.5.2.1	Software for the metal construction industry

91.5.2.2	Software for the roofing industry
91.5.2.3	Software for metal coating processes
91.5.3	Building projects
91.6	Laboratory services
91.6.1	X-ray testing services

92	Information
92.1	Associations, professional organisations, schools
92.3.1	Special technical information services
92.2	Quality assurance bodies
92.3.2	Technical journalists and publicists
92.3	Specialist literature, services
92.3.3	Marketing, sales promotion, direct advertising
92.4	Fairs, exhibitions, events

93	Technology transfer
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94	Training and further development
94.1	Off-site training institutes

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