

# THE Aluminium

Suppliers Directory

For more than 45 years

## Media Information

PRINT | DIGITAL | ONLINE

Fair  
issue  
ALUMINIUM  
2021



Suppliers Directory online

[www.Alu-Lieferverzeichnis.de/en](http://www.Alu-Lieferverzeichnis.de/en)

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## Description

The Aluminium Suppliers Directory has, since its introduction more than **45 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 2021, THE WORLD'S LEADING TRADE FAIR FOR ALUMINIUM AND ITS APPLICATION INDUSTRIES, DÜSSELDORF, SEPTEMBER 28-30, 2021

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# Aluminium Suppliers Directory 2022

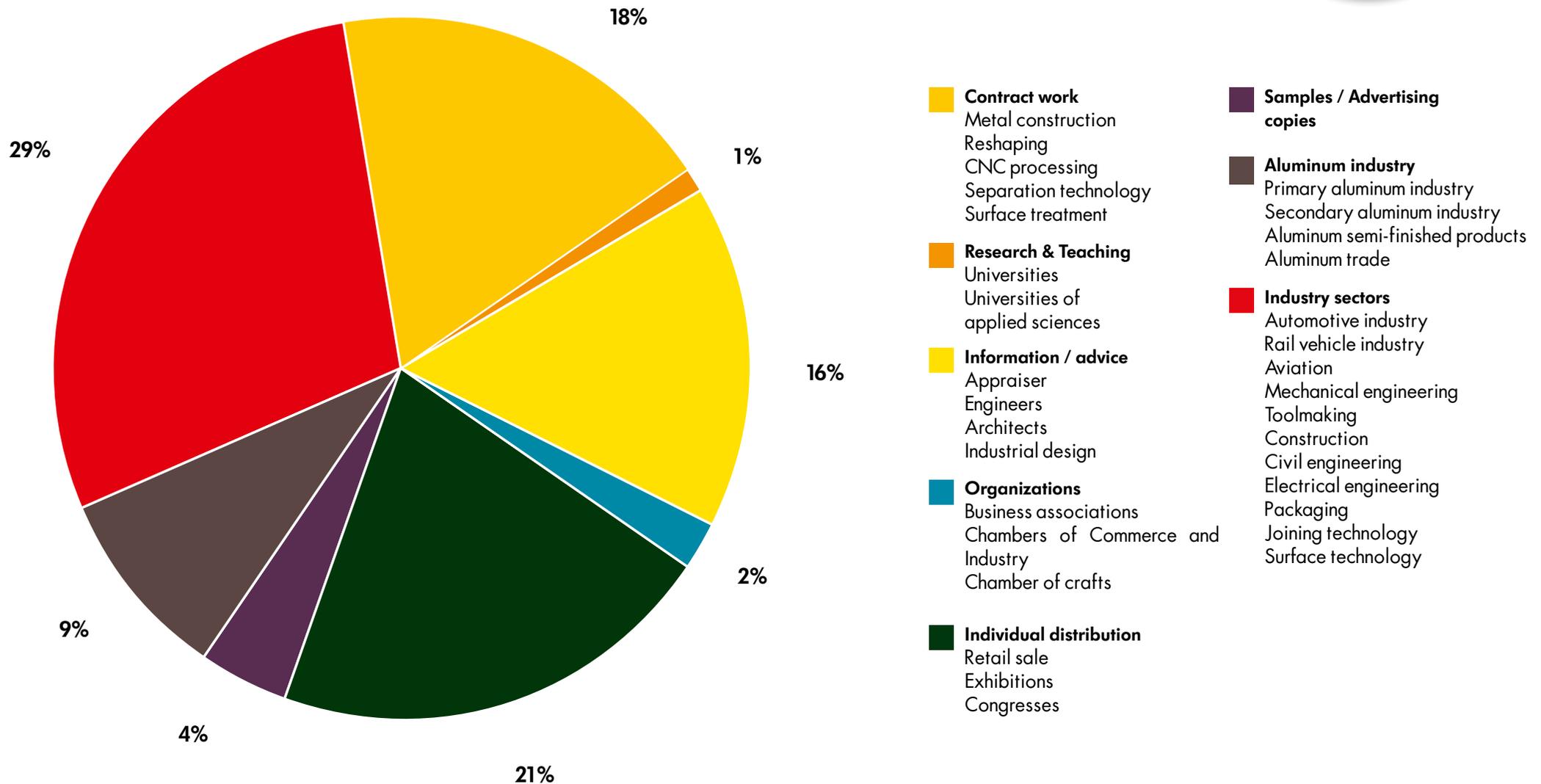


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DVS Media GmbH  
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**Entries & Advertising** Britta Wingartz  
+49 211 1591-155  
britta.wingartz@dvs-media.info  
Vanessa Wollstein  
+49 211 1591-152  
vanessa.wollstein@dvs-media.info

**Fax** +49 211 1591 150  
**Internet** [www.Alu-Lieferverzeichnis.de/en](http://www.Alu-Lieferverzeichnis.de/en)  
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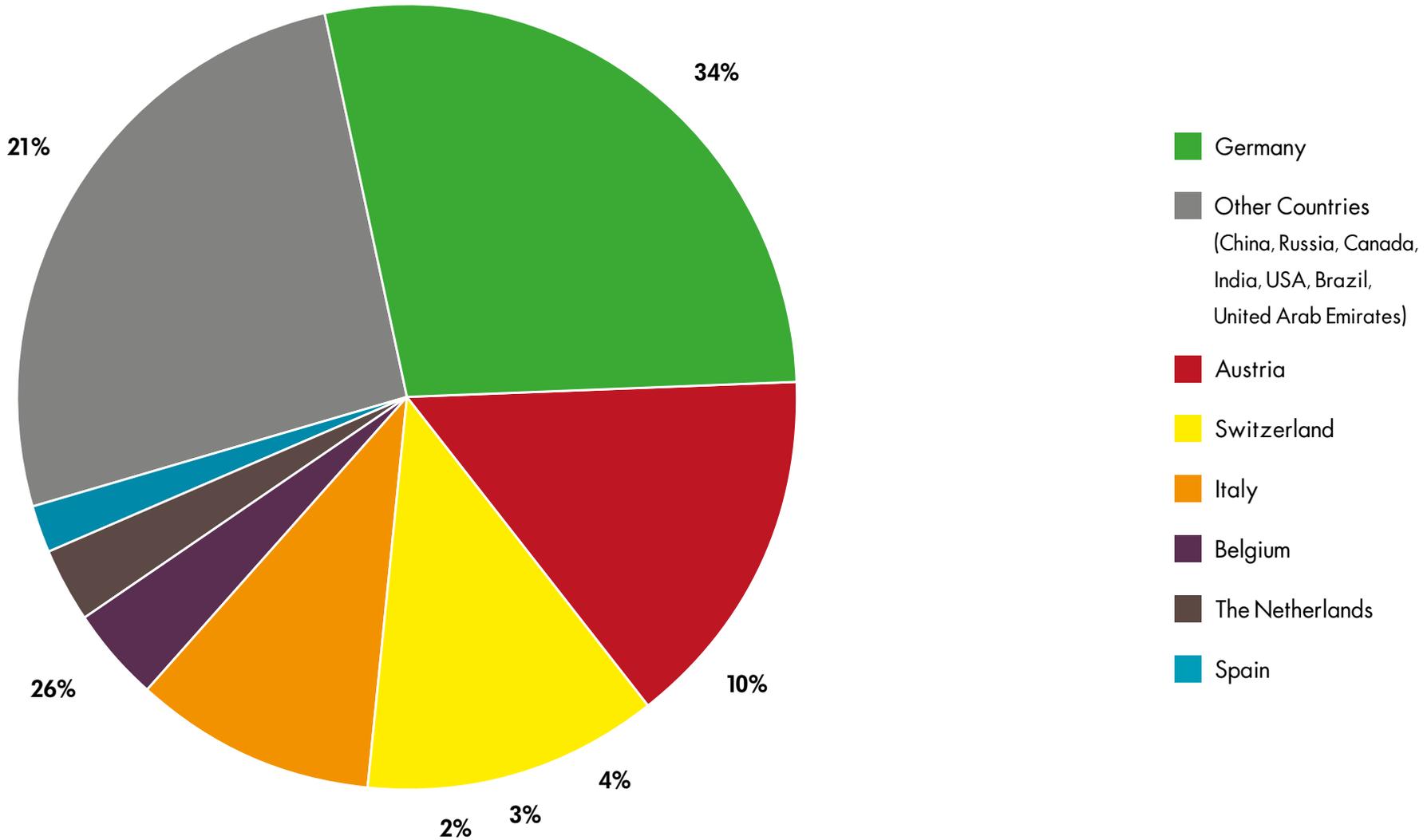
Reader structure analysis + distribution





## Distribution

Print run: 10,000 (printed and digital)



**NEW**

## 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.



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Tel.: +49 211 1591 - 155/152  
Fax: +49 211 1591 - 150  
E-Mail: [anzeigen@dvs-media.info](mailto:anzeigen@dvs-media.info)  
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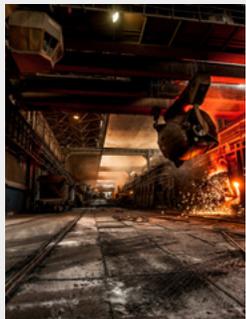
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DVS Media GmbH  
Aachener Straße 172  
40223 Düsseldorf  
Tel.: +49 211 1591 - 155/152  
Fax: +49 211 1591 - 150  
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E-Mail: [anzeigen@dvs-media.info](mailto:anzeigen@dvs-media.info)  
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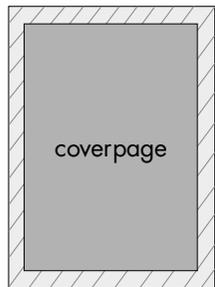
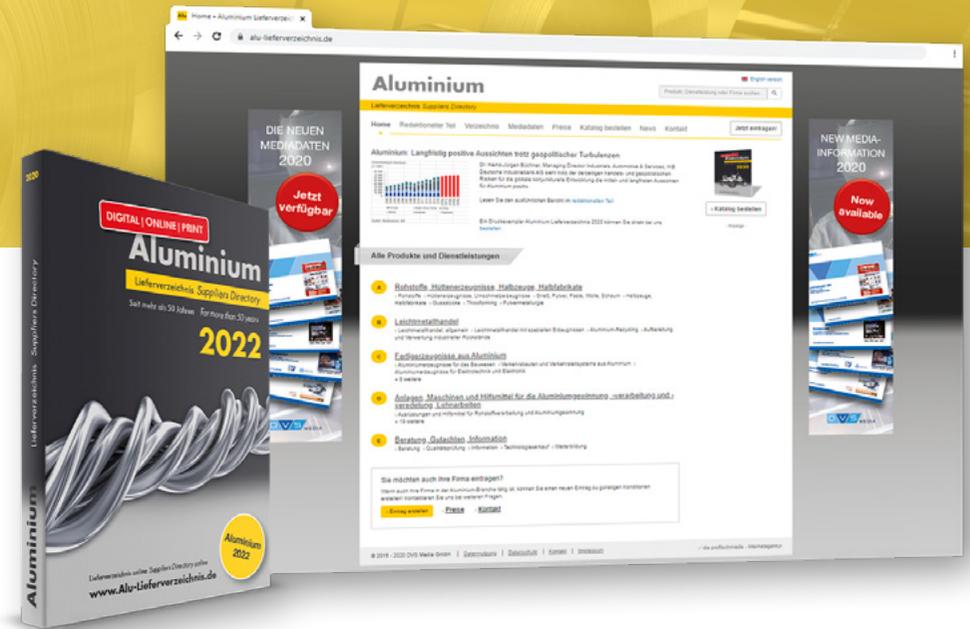
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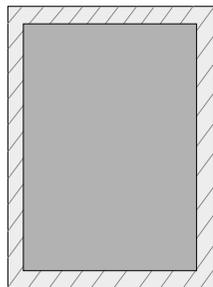
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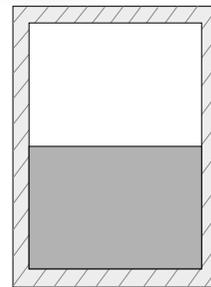
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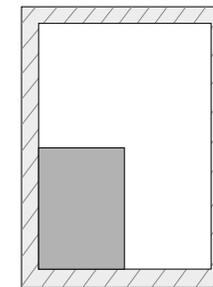
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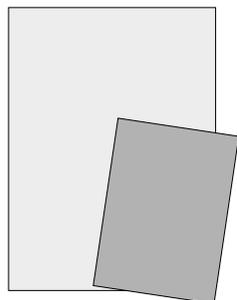
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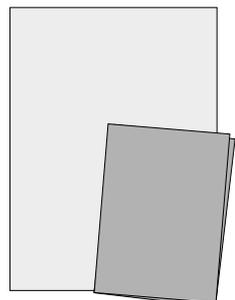
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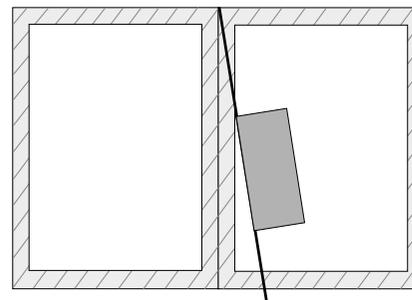
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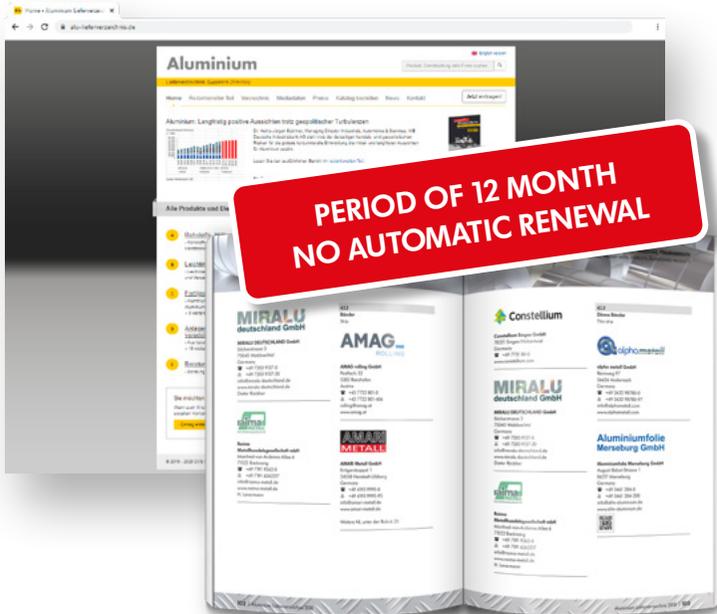
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## Your advertising opportunity

The COMPANY ENTRY

*in almost 2,000 categories in the aluminum product directory*



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E-mail: [anzeigen@dvs-media.info](mailto:anzeigen@dvs-media.info)  
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E-mail: [anzeigen@dvs-media.info](mailto:anzeigen@dvs-media.info)  
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## Category list

<b>A</b>	<b>Raw materials, primary metal products, semi-finished products, rolled products unfinished</b>		
<b>1</b>	<b>Raw materials</b>		
1.1	Aluminium hydroxide	2.1.4.1	Deodrops
1.2	Aluminium oxide	2.1.5	Deoxidation alloys
1.2.1	Finished ceramic products	2.1.6	Rolling ingots
1.3	Additives for fused-salt electrolysis	2.1.6.1	Extrusion billets, extrusion bolts
1.3.1	Cryolite	2.1.7	Ingots, shapes
1.4	Söderberg mix	2.1.7.1	T-bar
1.5	Petroleum coke	2.1.7.2	Molten aluminium
1.6	Binder pitch	2.1.8	Notch ingots
1.7	Cathode materials	2.1.9	Deodrops
1.8	Prebaked carbon anodes	2.1.10	Piglets
1.9	Collar paste	2.1.11	Granules
<b>2</b>	<b>Primary metal products</b>	2.1.12	Fine aluminium shot
2.1	Aluminium	2.1.13	Aluminium granules
2.1.1	Primary aluminium	2.1.14	De-oxidising granules (for killing steel)
2.1.1.1	Secondary aluminium	2.2	Magnesium
2.1.2	High purity aluminium and alloys	2.2.1	Pure and high-purity magnesium
2.1.3	Aluminium alloys	2.2.2	Magnesium alloys
2.1.3.1	Forging alloys, continuously cast	2.2.3	Magnesium master alloys
2.1.3.2	Thixotropic aluminium alloys	2.3	Titanium
2.1.3.3	High-performance aluminium	2.4	Silicon
2.1.3.4	High-strength alloys for aerospace industry	2.4.1	Silicon powder
2.1.3.5	Aluminium alloys, tablets	2.5	Ferrous alloys
2.1.3.6	Aluminium alloys, briquettes	2.6	Alloying metals, master alloys
2.1.4	Aluminium 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 2022

<b>3</b>	<b>Grit, powder, paste, wool, foam</b>	4.2.8	Rolled products, plastic-coated
3.1	Aluminium grit	4.2.9	Rolled products, coated with self-adhesive backing (foil and thin strip)
3.2	Aluminium powder	4.3	Composite semis (sheet and strip)
3.3	Aluminium paste	4.3.1	Aluminium with aluminium
3.4	Aluminium wool	4.3.1.1	Sheet and strip, braze-clad
3.5	Magnesium powder	4.3.2	Aluminium with plastics
3.5.1	Magnesium alloy powder	4.3.3	Aluminium with copper
3.6	Light-metal alloy powder	4.3.4	Aluminium with steel
3.6.1	Alloy ingots	4.3.5	Aluminium with wood
3.7	Aluminium foam	4.3.6	Steel with aluminium
		4.3.7	Stainless steel with aluminium
<b>4</b>	<b>Semi-finished products</b>	4.4	Sections made from strip
4.1	Rolled products, bare	4.5	Round blanks
4.1.1	Sheet	4.6	Slugs
4.1.2	Strip	4.6.1	Slugs for impact extrusion, in aluminium and aluminium alloys
4.1.3	Thin strip	4.7	Extruded products, bare
4.1.4	Foil	4.7.1	Solid sections/profiles
4.1.5	Strips	4.7.1.1	Solid sections/profiles for aerospace applications
4.1.6	Sheet and strip with rolled-in patterns (DIN EN 1386)	4.7.2	Hollow sections/profiles
4.1.7	Sheet and strip, textured	4.7.2.1	Hollow sections/profiles for aerospace applications
4.1.8	Sheet and strip, anodized	4.7.3	Machined sections/profiles
4.1.9	Sheet and strip, pretreated	4.7.3.1	CNC treatment of profiles
4.1.10	Sheet and strip, degreased	4.7.4	Microprofiles, extruded
4.1.11	Sheet and strip, cut to shape	4.7.5	Large sections/profiles
4.1.12	Plates	4.7.6	Special Profiles
4.2	Rolled products surface-treated	4.7.7	Space frame profiles
4.2.1	Rolled products, brush-finished	4.7.8	Design profiles, coated and non-coated
4.2.2	Rolled products, ground	4.8	Extruded products, surface-treated
4.2.3	Rolled products, pickled	4.8.1	Extruded products, brush-finished
4.2.4	Rolled products, chemically oxidized	4.8.1.1	Extruded profiles, mill finish
4.2.5	Rolled products, anodized	4.8.2	Extruded products, ground
4.2.6	Rolled products, lacquered, powder-coated	4.8.3	Extruded products, polished
4.2.7	Rolled products, coil-coated		

# Aluminium Suppliers Directory 2022

4.8.4	Extruded products, pickled	4.11.3	Extruded wire
4.8.5	Extruded products, chemically oxidized	4.11.4	Wire
4.8.6	Extruded products, anodized	4.11.4.1	Drawn wire
4.8.6.1	Extruded products, cleaned and anodised	4.11.4.2	Anodized wire
4.8.7	Extruded products, lacquered	4.11.5	Flat and profiled wire
4.8.7.1	Extruded products, powder-coated	4.11.6	Wire netting and woven products
4.8.8	Extruded products, plastic-coated	4.11.7	Clad wire (alclad)
4.8.9	Extruded products, clad with stainless steel	4.11.8	Wire for vacuum metallising
4.8.10	Extruded products, clad with brass or bronze	4.12	Drop and open-die forgings
4.8.11	Extruded products, mechanically treated	4.12.1	Drop forgings
4.8.12	Extruded products, welded	4.12.2	Open-die forgings
4.9	Rods and bars	4.12.3	Drop forgings in titanium
4.9.1	Extruded rods and bars	4.13	Impact extruded engineering components
4.9.2	Drawn rods and bars	4.13.1	Cold impact extrusion, cold extruded parts
4.9.3	Rods and bars made of free-machining alloys	4.14	Shaped sheet parts
4.9.4	Round bar, cast and turned	4.14.1	Embossed sheet
4.10	Tubes	4.15	Perforated sheet
4.10.1	Extruded tubes	4.16	Expanded metal mesh
4.10.2	Drawn tubes	4.17	Rolled rings
4.10.3	Pressure-rolled tubes	4.18	Sintered components
4.10.4	Welded tubes	4.19	Magnesium alloy semis
4.10.5	Hard-anodized tubes	4.20	Titanium and titanium alloy semis
4.10.6	Tubes made of free-machining alloys	4.21	Plates
4.10.7	Annular tubes	4.21.1	Plates, milled surface
4.10.8	Centrifugally cast tubes	4.21.2	Plates, machined
4.10.9	Composite tubes	4.21.3	Plates, thick
4.10.10	Sawn aluminium tubes	4.21.4	Plates and blocks for mould-making
4.10.11	Tubes, weldless and drawn	4.21.5	Aluminium sandwich
4.11	Wire	<b>5</b>	<b>Castings</b>
4.11.1	Alloyed or unalloyed cast and rolled electrical conductor wire (Properzi wire)	5.1	Aluminium and aluminium alloy castings
4.11.2	Alloyed or unalloyed cast and rolled wire for mechanical purposes (Properzi wire)	5.1.1	Sand castings
		5.1.1.1	Permanent mould castings

# Aluminium Suppliers Directory 2022

5.1.2	Low-pressure die-castings	21.1.4	Aluminium wool, aluminium turnings
5.1.2.1	Low-pressure sand-castings	21.2	Magnesium and magnesium alloys
5.1.2.2	Low pressure castings	21.2.1	Ingots, billets
5.1.3	Pressure die-castings	21.2.2	Magnesium powder
5.1.3.1	VACURAL die-castings	21.2.3	Magnesium turnings
5.1.4	Composite castings	21.2.4	Magnesium semis
5.1.5	Centrifugal castings	21.3	Rolled products, bare
5.1.6	Investment castings	21.3.1	Plates, mechanically stress relieved
5.1.7	Castings made by special casting processes	21.3.2	Sheet, wide and narrow coiled strip, mill finish
5.1.8	Artwork castings	21.3.3	Sheet, wide and narrow coiled strip, textured
5.1.9	Prototype castings	21.3.4	Checker plate, bulb plate, button plate
5.1.10	Product development for castings	21.3.5	Corrugated sheet and strip
5.2	Aluminium, Magnesium and spheroidal graphite iron	21.3.6	Thin strip, foil
5.3	Titanium and titanium alloy castings	21.3.7	Discs, round blanks
5.4	Die-castings in alloys of zinc or aluminium	21.3.8	Blanks
<b>6</b>	<b>Thixoforming</b>	21.3.9	Plates, milled on both sides
6.1	Thixoforging	21.4	Rolled products, surface-treated
6.2	Thixocasting	21.4.1	Rolled products, brush-finished, ground, polished
6.2.1	Aluminium extrusion billets (AirSlip™ process)	21.4.2	Rolled products, pickled, chemically oxidized, anodized
<b>7</b>	<b>Powder metallurgy</b>	21.4.3	Rolled products, lacquered, coated, self-adhesive
7.1	Spray compacting	21.5	Composite semis (sheet and strip)
<b>B</b>	<b>Light metals trade</b>	21.5.1	Aluminium with aluminium
<b>20</b>	<b>Light-metals trade, general</b>	21.5.2	Aluminium with other metals
<b>21</b>	<b>Light-metals trade in special products</b>	21.5.3	Aluminium with plastics
21.1	Aluminium and aluminium alloys	21.6	Extruded products, bare
21.1.1	Ingots, billets	21.6.1	Solid sections
21.1.2	Aluminium grit	21.6.2	Hollow sections
21.1.3	Aluminium powder	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

# Aluminium Suppliers Directory 2022

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
<b>22</b>	<b>Aluminium recycling</b>
22.1	Aluminium collection centres, general
22.2	Aluminium collection centres, with shredder

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

## C Aluminium products

<b>30</b>	<b>Aluminium products for the building industry</b>
30.1	Aluminium load-bearing structures
30.11	Halls, roofs
30.11.1	Factory buildings
30.12	Indoor swimming pools
30.13	Porches for house doors
30.14	Porches for showcase buildings
30.15	Glass roof structures
30.15.1	Glass roof access equipment
30.16	Waiting halls
30.17	Marquees
30.18	Trusses
30.19	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

## Aluminium Suppliers Directory 2022

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

<b>31</b>	<b>Aluminium traffic structures and guide systems</b>
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
<b>32</b>	<b>Aluminium products for electrical engineering and electronics</b>
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		
32.6.1	Capacitor foil, bare, rolled	<b>33</b>	<b>Aluminium products for apparatus and container construction</b>
32.6.2	Starting material for capacitor cans	33.1	Pressurized containers, general
32.6.3	Capacitor cans	33.1.1	Chemical apparatus
32.7	Electronic components	33.1.2	Flat-floored silos
32.7.1	Electronic components, general	33.1.3	Silos with outlet chutes
32.7.1.1	Electronic cabinets	33.1.4	Fixed large-capacity tanks
32.7.1.2	Mounting kits for electronics	33.1.5	Transportable large-capacity containers
32.7.2	Casings	33.1.6	Mixing silos

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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

### 34

<b>34</b>	<b>Aluminium products for factory equipment and transport</b>
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	Stapladders	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	<b>35</b>	<b>Aluminium products for motor vehicle construction</b>
34.6.7.1	Industrial platforms		
34.6.8	Cat ladders (for emergencies)	35.1	Cars

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35.11	Spaceframe structures	35.123	Suspension and steering
35.12	Bumpers	35.123.5	Drop and open-die forgings
35.12.1	Profiles for bumpers	35.130	Engine
35.12.2	Bumper centre beams	35.130.1	Cast parts for cars
35.13	Sheet and strip for bodywork and interior fittings	35.130.1.	Piston
35.13.1	Sheet and strip (also surface treated)	35.130.2	Components for internal combustion engines
35.13.2	Shaped sheet parts / float forming (also surface treated)	35.130.2.1	Cylinder sleeves
35.13.3	Large-size (aluminium) stampings	35.130.2.2	Cylinder heads
35.13.4	Entry ledges	35.130.2.3	Cylinder blocks
35.13.5	Structural components	35.130.3	Connecting rods, pins
35.110	Decorative trim and parts	35.130.4	Blank velves
35.110.1	Decorative trim and parts	35.130.5	Valve springs, valve spring retainers
35.110.1.1	Cover	35.130.6	Heat shielding panels
35.110.1.2	Rearview-mirror housing	35.140	Air conditioning
35.110.1.3	Profiles for covering	35.140.1	Heat exchanger profiles
35.110.1.4	Protective side moulding	35.140.2	Radiators
35.111	Window frames	35.140.3	Oil coolers
35.111.1	Profiles for window frames	35.140.4	Charge air coolers
35.120	Chassis and steering	35.141	Air conditioners
35.120.1	Wheels, wheel rims	35.141.1	Evaporators for air conditioners
35.120.3.	Heat protection tubes	35.141.2	Condensers for air conditioners
35.120.2	Chassis	35.141.3	Tubing for air conditioners
35.120.2.1	Parts for wheel/axle suspension, Axles	35.150	Fuel technology
35.120.3	Heat shielding panels for exhaust systems	35.150.1	Fuel pumps
35.120.4	Steering	35.150.2	Fuel coolers
35.120.4.1	Steering cardan shafts	35.150.3	Fuel filter housings
35.120.4.6	Machined and assembled components	35.150.4	Fuel pressure regulators
35.120.4.2	steering columns	35.160	Safety
35.120.4.3	adjustable steering column	35.160.1	Airbag deflectors
35.120.4.4	drive shafts	35.160.2	Underride guards
35.120.4.5	Drop and open-die forgings	35.160.3	Extrusions for side impact protection
35.121	Suspension and steering	35.160.4	Heat protection tubes
35.121.1	Parts for wheel/axle suspension	35.160.5	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 velves
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	36.110	Thin aluminium strip (0.021 to 0.25 mm thick)
35.6.5	Wheels for sporting aircraft	36.110.1	Bare thin strip
35.6.6	Precision parts for aviation and aerospace	36.111	Thin strip with surface treatment, general
35.6.7	Tubes for kites	36.111.1	Thin strip with surface treatment, lacquered or painted
35.7	Bicycles / motorcycles	36.111.2	Thin strip with surface treatment, coated
35.7.1	Bicycles	36.111.3	Thin strip with surface treatment, printed
35.7.1.1	Bicycle parts	36.111.4	Thin strip with surface treatment, brush-finished one side
35.7.1.2	Bicycle frames	36.111.5	Thin strip with surface treatment, brush-finished both sides
35.7.1.3	Bicycle carriers	36.111.6	Embossed thin strip with a surface finish
35.7.2	Motorcycles	36.112	Composite material (laminated)
35.8	Equipment for handicapped people	36.112.1	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
<b>36</b>	<b>Packaging with aluminium</b>	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
<b>37</b>	<b>Aluminium products for the kitchen, household, garden, hospital and rescue ware</b>	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
<b>38</b>	<b>Aluminium sporting equipment and components</b>	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
<b>39</b>	<b>Aluminium components for engineering, precision mechanics, optics</b>	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
<b>40</b>	<b>Special surface treatment for aluminium products</b>	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**

<b>60</b>	<b>Equipment and accessories for raw materials processing and aluminium extraction</b>
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

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
<b>61</b>	<b>Equipment and accessories for melting, casting and heat treatment</b>	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	<b>62</b>	<b>Equipment and accessories for rolling mill technology</b>
61.4.14	Pressure die-casting machines	62.1	Hot-rolling mills
61.4.15	Pistons and components for pressure die-casting machines	62.28.1	Transporters for coils and sheet
61.4.16	Equipment for vacuum die-casting	62.2	Cold-rolling mills
61.4.17	Automation equipment	62.2.1	Continuous strip treatment lines
61.4.18	Flash trimming equipment		
61.4.19	Mould cooling equipment		

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62.2.2	Inductive strip heating plant	62.28	Coils storage systems
62.3	Foil mills	<b>63</b>	<b>Equipment and accessories for extrusion and drawing</b>
62.4	Wire mills	63.1	CAD/CAM systems for die production
62.5	Rolls	63.1.1	Pickling equipment for extrusion dies, integrated into the production line
62.5.1	Foil rolling	63.2	Inductive heating equipment
62.5.2	Engraved embossing rolls	63.2.1	Rapid magnetic heating equipment
62.6	Embossing calenders	63.2.2	Die heating
62.7	Electrical equipment	63.3	Fuel-fired heating equipment
62.7.1	Mechanical equipment	63.3.1	Ingot transport equipment
62.8	Electric and hydraulic control equipment	63.3.2	Ingot storage installations
62.9	Thickness gauges	63.4	Extrusion, extrusion presses
62.10	Ingot scalping machines	63.4.1	Billet containers
62.11	Ingot saws	63.4.2	Billet containers heatings
62.12	Slab saws	63.5	Hot billet shears
62.13	Edge-trimming, cropping and chopping machines	63.6	Extrusion dies
62.13.1	Cutting knives for slitters and cut-to-length lines	63.6.1	Equipment for splitting extrusion tooling
62.14	Levellers for sheet and coil	63.6.2	Nitriding of extrusion dies
62.14.1	Sheet and plate stretchers	63.7	Automatic polishing machines for extrusion dies
62.15	Slitters and cut-to-length lines	63.8	Run-out tables
62.16	Foil-cutting equipment	63.9	Pullers
62.17	Packing machines for sheet and coils	63.10	Cutting equipment, trimming saws, billet saws
62.18	Hydraulic coilers	63.10.1	Precision circular saws for metals
62.19	Roll grinding machines	63.11	Transfer devices
62.20	Filtering plant for rolling oils and emulsions	63.12	Roller guideways
62.20.1	Filter media (Paper & Aids)	63.13	Stretchers
62.21	Automation equipment	63.14	Straightening machines for tubes and sections
62.22	Roll cooling equipment	63.15	Straightening equipment for wire, rod and strip
62.23	Measurement and testing systems	63.16	Cut-to-length saws
62.24	Control systems and automation	63.17	Conform plants
62.25	Rolling oils	63.18	Dies for Conform plant
62.26	Used rolling mill equipment	63.19	Drawing machines (rods and bars, wire)
62.27	Cooling, general		
62.27.1	Coolant filtration		

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
<b>64</b>	<b>Equipment and accessories for forging and impact extrusion</b>
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
<b>65</b>	<b>Equipment and accessories for sheet forming</b>
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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<b>66</b>	<b>Equipment and accessories for sawing and cutting</b>		
66.1	Circular saws	67.1.11	Sawing plants
66.2	Metal slitters	67.2	Tools
66.3	Circular saw blades	67.2.1	lathe tools
66.4	Band saws for metals	67.2.2	Milling tools
66.4.1	Bandsaws for slitting	67.2.3	Drills
66.4.2	Ingot bandsaws for casthouses	67.2.4	Taps and dies for thread-cutting
66.4.3	Horizontal bandsaws	67.2.5	Precision-finishing tools
66.5	Saw blades	67.2.6	Carbide-tipped cutting tools
66.5.1	Bandsaw blades	67.2.7	Diamond-tipped cutting tools
66.6	Parting shears	67.2.8	High-speed steel cutting tools
66.7	Parting machines using abrasive discs	67.2.9	Shredding systems
66.8	Strip slitters with multiple circular knives	67.3	Machining aids
66.9	Shear blades and knives	67.3.1	Cooling lubricants
66.10	Solid lubricants for sawing	67.3.1.1	Coolant cleaning equipment
66.11	Ingot saws	67.3.2	Special accessories
66.12	Water-jet cutting equipment	67.3.3	Low-dose lubricating systems and high performance lubricants
66.13	Laser cutting equipment	67.3.4	Materials for the care of tools
66.14	Minimal-lubrication systems for saws	67.4	Clamping devices and components
66.15	Spray lubricants	67.5	NC programming and control systems
<b>67</b>	<b>Equipment and accessories for machining</b>	<b>68</b>	<b>Equipment and accessories for metal fabricators</b>
67.1	Machines	68.1	CAD systems
67.1.1	Lathes and automatic lathes	68.2	Portable circular saws for metal
67.1.2	Drilling and boring machines	68.3	Fixed circular bevelling saw
67.1.3	Milling machines	68.3.1	Double mitre saws
67.1.4	Grinding machines	68.4	Copy milling of extruded sections
67.1.5	Precision-finishing machines	68.5	Release devices, mechanical
67.1.6	Special-purpose machines	68.6	Release devices, hydraulic
67.1.7	High-speed machine tools	68.7	Drilling and combined drilling/milling machines
67.1.8	Machining centres, CNC	68.8	Corner jointing machines
67.1.9	Dust and fume exhaust systems for scalpers and saws	68.9	Combined drilling and stamping machines
67.1.10	Machining software	68.9.1	Tube stamping machines
		68.10	Tools

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68.11	Assembly aids	69.1.5	Facade cleaning products
68.11.1	Adjustment keys, glazing blocks, rebated inserts of tempered safety glass	69.1.6	Low-temperature ovens for drying
68.11.2	Machines and equipment for assembling windows and windows elements	69.1.7	Drying plant
68.11.3	PUR foam in spray cans	69.2	Mechanical surface treatment
68.12	Plate saws	69.2.1	Grinding and polishing machines
68.13	Bending equipment	69.2.1.1	Centrifugal grinding machines
68.14	Straightening machines	69.2.1.2	Drag finishing machines
68.15	Tube flaring machines	69.2.2	Grinding and polishing machines for strip
68.16	Tube bending machines	69.2.3	Grinding and polishing compounds
68.16.1	End-machining units	69.2.4	Polishing pastes
68.16.2	End-bending units	69.2.5	Fibre-tufted round brushes
68.17	Cast glass, fire-resistant glass, insulating and safety glass	69.2.6	Discs and brushes, deburring brushes
68.19	Sponge rubber	69.2.7	Contact discs
68.19.1	Seals and sealing	69.2.8	Polishing rings
68.20	Equipment and accessories for roofing work	69.2.9	Drum equipment and plant
68.20.1	Inclined hoists	69.2.10	Vibratory machines
68.20.2	Hoists	69.2.11	Drum polishing materials
68.20.3	Working platforms	69.2.12	Brushing machines
68.20.4	Mobile cranes	69.2.13	Marbling tools
68.20.5	S Skylights giving access to the roof	69.2.14	Grinding discs
68.20.6	Roof ladders	69.2.15	Satin-finishing discs and belts
68.20.7	Chimney scaffolding	69.2.16	Endless abrasive belts
68.21	Storage systems	69.3	Sand- and shot-blasting
<b>69</b>	<b>Equipment and accessories for surface treatment and corrosion protection</b>	69.3.1	Blasting equipment, processes
69.1	Surface cleaning and degreasing	69.3.1.1	Sandblasting cabins
69.1.1	Cleaning equipment and materials	69.3.1.2	Dry ice blasting equipment
69.1.2	Degreasing equipment and materials	69.3.2	Blasting abrasives
69.1.3	Ultrasonic cleaning equipment	69.3.2.1	Stainless steel blasting grit
69.1.4	Plant and processes for improving adhesion	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)	70.4	Fusion welding
69.15	Other accessories for surface treatment	70.4.1	Equipment and apparatus for fusion welding
69.15.1	Protective foil	70.4.1.1	Welding fume extraction, extractor hoods
69.15.2	Disinfectants and germicides	70.4.2	Welding transformers, generators and rectifiers
69.15.3	Peel-off protective films	70.4.2.1	Welding generators
69.15.4	Metal marking equipment	70.4.2.2	Welding rectifier
69.16	Plant engineering for hard anodizing and electroless nickel-plating	70.4.3	Inert gas shielded welding equipment (MIG-MAG, WIG)
69.16.1	Hard anodizing, plants	70.4.4	Plasma cutting and welding equipment
69.16.2	Non-electrolytic nickel-plating plant	70.4.5	Fluxes
<b>70</b>	<b>Equipment and accessories for joining</b>	70.4.6	Welding rods for gas and TIG welding
70.1	Adhesive bonding	70.4.7	Wire electrodes for MIG welding
70.1.1	Equipment and devices for applying adhesives	70.4.8	Aluminium electrodes for manual arc welding
70.1.2	Adhesives for metals	70.4.9	Tungsten electrodes
70.1.3	Adhesives for joining metals to non-metallic materials	70.4.10	Burner gases, oxygen
70.1.4	Hot-melt type adhesives	70.4.11	Inert gases
70.1.5	Pressure-sensitive adhesives, adhesive foils	70.4.12	Personal protective gear for welding
70.1.6	Coating adhesives	70.4.12.1	Protective curtains for welding
70.1.7	Plasma pre-treatment for adhesive bonding techniques without CHC/CFC	70.4.12.2	Welding helmets
70.1.8	Refractory adhesives	70.4.12.3	Safety glasses for welding
70.2	Insulation, sealing	70.4.12.4	Protective gloves for welding
70.2.1	Equipment and auxiliary materials for processing sealants	70.4.13	Welding Burner
70.2.2	Sealing compounds	70.5	Pressure welding
70.2.3	Sealing sections and moulded seals	70.5.1	Pressure welding machines with magnetically traversed arc
70.2.4	Sealing brushes	70.5.2	Friction welding machines
70.2.5	Insulating materials and compounds	70.5.3	Friction stir-welding machines
70.2.6	Sealing strips	70.6	Resistance welding
70.3	Brazing, soldering	70.6.1	Spot, seam, and projection welding machines
70.3.1	Fluxes	70.6.2	Flash butt welding machines
70.3.2	Brazing furnaces	70.6.3	Electrodes and electrode materials
70.3.3	Brazing solders	70.6.4	Strip welding equipment, coil-to-coil
70.3.4	Soft solders	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	<b>71</b>	<b>Equipment and accessories for foil processing, foil conversion and packaging</b>
70.10.4	Blind rivets	71.1	Pretreatment and converting machines for foil and strip
70.10.5	Integral rivets	71.1.1	Strip winding machines for transformers
70.10.6	Tool for integral rivets	71.1.2	Chemical conversion plants
70.11	Screw fasteners	71.1.3	Anodizing equipment
70.11.1	Mechanical screwing equipment	71.1.4	Turning and winding machines
70.11.2	Aluminium screws	71.1.5	Foil coating machines
70.11.3	Stainless and chromium-nickel plated steel screws	71.1.6	Laminators
70.11.4	Titanium screws	71.1.8	Foil printing machines
70.12	Nails, pins, cotter pins	71.1.9	Vacuum metallizing machines for depositing aluminium on paper and plastic
70.12.1	Nails	71.1.10	Machines for producing brushed and matt finishes
70.12.2	Aluminium cotter pins	71.1.11	High voltage corona treatment
70.12.3	Stainless steel cotter pins	71.1.12	„Sorbex“ ozone treatment
70.12.4	Chromium-nickel steel cotter pins	71.1.13	Other production machines
70.12.5	Stainless steel spring cotter pins		
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	Embassing 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	718.6	Necking-in tools
71.5.11	Machine for filling aluminium tubes with viscous pastes	718.7	Combination tools
71.5.12	Folding machine for lumpy goods	718.20	Steel stamps, marking tools and equipment
71.5.13	Forming and overwrapping machines	719	Adhesives
71.5.13.1	Forming and overwrapping machines for individual solid parts	719.1	Adhesives, general
71.5.13.2	Packing machines for tubes	719.2	Polyurethane laminating adhesives
71.5.14	Sealing and welding machines		
71.5.14.1	Machines for sealing and welding pouches	<b>72</b>	<b>Equipment and accessories for environmental protection</b>
71.5.14.2	machines for sealing and filling for cans from sheet metal or cardboard	72.1	Air and exhaust gas purification
71.5.14.3	Machines for sealing and welding foils	72.1.1	Filters
71.5.15	Machines for sealing TV dinners	72.1.2	Scrubbers
71.5.16	Machines for sealing preserving jars	72.1.3	Mechanical precipitators (cyclones)
71.5.17	Heat sealing equipment	72.1.4	Wet precipitators
71.5.18	Special single-purpose machines and devices	72.1.5	Electrostatic precipitators
71.5.19	Other production equipment and supplies	72.1.6	Thermal and catalytic incineration plant
71.6	Tube manufacturing	72.1.7	Exhaust air cleaning processes
71.6.1	Complete installations for tube manufacturing	72.2	Waste water purification, water treatment
71.6.2	Impact extrusion presses, tooling	72.2.1	Waste water purification
71.6.3	Tube printing and lacquering machines	72.2.1.1	Waste water centrifuges
71.6.4	Annealing, drying and stoving ovens	72.2.2	Water treatment
71.7	Sealing and welding machines	72.2.3	Chemical industrial water treatment
71.7.1	Plant in general	72.2.4	Filter bags
71.7.2	Installations for cans and tubs	72.2.5	Water aeration
71.7.2.1	Installations for containers made from sheet metal or cardboard	72.3	Treatment, recovery and disposal of non-aqueous waste
71.7.3	Machines for sealing TV dinners	72.3.1	Solvent recovery plant
71.7.4	Heat sealing equipment	72.3.2	Plant for the precipitation and recovery of oils, greases and lubricants
71.8	Tools	72.3.2.1	Disposal of non-aqueous waste
71.8.1	Parting tools	72.3.3	Non-destructive hardness measurement instruments
71.8.2	Cutting tools	72.3.4	Oil skimmers
71.8.3	Shaping tools	72.4	Waste management and treatment
71.8.4	Embossing rolls, paper rolls, patterning rolls	72.4.1	Mobile treatment plant
71.8.5	Impact extrusion tooling	72.4.2	Recycling equipment

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72.4.3	Treatment of process sludges	74.9	Hydraulic oils
72.5	Noise and sound protection, anti-resonance coatings, shielding	74.10	Water additives
72.5.1	Noise barriers	74.11	Web speed controller
72.5.2	Soundproof cubicles	74.12	Roller bearings for forming and foundry equipment
72.5.3	Noise barrier covers	74.13	Nozzles
72.5.4	Sound absorbers	74.14	Emulsion separators
72.5.5	Sound-suppressed ventilation equipment	74.15	Hardening and tempering fluids
72.5.6	Noise, sound and resonance protection	74.16	Covers for heated dipping baths
72.5.7	Shielding	74.16.1	Covering hoods for heated dipping baths
72.5.8	Noise-damping housings for shutter strips	74.17	Palletizing and packing machines for slugs and round blanks
72.6	Measuring and control equipment for environmental protection	74.18	Stackers
72.6.1	Emission measuring equipment	74.19	Storage systems for long stock and sheet metal
72.6.2	Concentration measuring instruments	74.20	Equipment and machines for industrial cleaning
72.6.3	Noise and vibration measuring instruments	74.21	Locks, locking systems
<b>73</b>	<b>Equipment and accessories for tool and mould making</b>	74.22	Packaging materials for extrusions
73.1	Erosion machines countersink erosion machines	74.23	Oils and other fluids for heat-transfer
73.1.1	Cavity sinking EDM machines	74.24	Scales
73.2	Erosion drilling machines	74.24.1	Digital crane scales
73.3	Special alloy steels for making extrusion press components	74.25	Wear Protection Solutions
73.4	Steels for making moulds for forming plastic	74.50	Personal protective equipment and clothing
73.5	Aluminium alloys for toolmarking applications	74.50.1	Aluminium safety helmets
<b>74</b>	<b>General factory equipment and accessories</b>	74.50.2	Coveralls to protect against high temperatures
74.1	Energy supply installations	74.50.5	Textiles for high temperature use
74.2	Dust and fume extraction equipment	74.50.6	Refractory fibres
74.3	Transport equipment	74.60	Machines for separating aluminium
74.3.1	Forklift trucks	74.70	CAD/CAM/DNC systems for machine tools
74.3.2	Fully automatic cranes	74.80	Marking systems
74.4	Packing and palletizing equipment for semis	74.80.1	Embossing machines
74.5	Load handling attachments	74.80.2	Track & Trace Labels
74.6	Automatic lubricating systems	74.80.3	Barcode Labels
74.7	Equipment for thermal processes		
74.8	Equipment for making evaporators		

<b>75</b>	<b>Equipment and accessories for measurement and testing</b>		
75.1	Laboratory equipment	75.6.2	Instruments for checking the hydrogen content
75.2	Measurement and control equipment	75.6.3	Aluminium-melt testers
75.2.1	Laser and optical measuring instruments for construction of windows and facades	75.6.4	Thermal analysis equipment for aluminium melts
75.3	Testing of anodic and varnish films	75.7	Equipment for metallographic specimen preparation
75.3.1	Film thickness measuring instruments	75.8	Test equipment for special tests
75.3.2	Sealing quality test instruments	75.9	Accessories and materials for testing techniques of all types
75.3.3	Colour testers	75.10	Standard CAD software
75.3.4	Surface inspection	75.11	Analytical equipment for identifying aluminium alloys
75.4	Nondestructive testing of materials	75.12	Non-contact measuring systems
75.4.1	General non-destructive materials testing	75.12.1	Speed and length measuring systems
75.4.2	Eddy current and impedance test instruments	75.13	Systems for measuring extruded sections
75.4.3	Surface roughness testers	75.17	Tyristor-Power converters/sitches
75.4.3.1	Hole detectors		
75.4.4	Crack test instruments	<b>76</b>	<b>Contract manufacturing</b>
75.4.5	Penetrant dyes for crack testing	76.1	Heat treatment
75.4.6	Noise emission test instruments	76.1.1	Stress relieving, homogenizing
75.4.7	X-ray test equipment	76.1.2	Hardening
75.4.8	Ultrasonic testing equipment	76.1.3	Heat-treatment of aluminium castings
75.4.9	Electrical conductivity measuring instruments	76.2	Forming, machining, cutting
75.4.10	Non-destructive hardness measurement instruments	76.2.1	Folding
75.4.11	Industrial computer tomography	76.2.2	Bending of tubes and sections
75.4.12		76.2.3	Spinning
75.5	Destructive testing of materials	76.2.4	Deep drawing
75.5.1	Tensile and compressive testing machines	76.2.5	Cold pressing, upsetting
75.5.2	Universal testing machines	76.2.6	Machining
75.5.3	Notched bar impact test machines	76.2.7	Profile turning
75.5.4	Hardness testing machines	76.2.7.1	High-speed machining
75.5.5	Deep-drawing and cup-testing machines	76.2.8	Stamping, cutting
75.6	Equipment and instruments for melt testing	76.2.9	Sawing, cutting-to-length, blanking
75.6.1	Temperature-measuring equipment	76.2.10	Sheet cutting
		76.2.11	Fine blanking
		76.2.12	Strip slitting
		76.2.13	Hot stamping

## Aluminium Suppliers Directory 2022

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76.2.15	Hot isostatic pressing (HIP)	76.4.12	Polishing
76.2.16	Laser cutting	76.4.13	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
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76.3.4	Resistance spot welding	76.4.8	Electroplating
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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
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76.3.12	Clinching	76.4.11.1	Liquid painting
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76.4.14	Non-metallic coatings
76.4.15	Enamelling
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76.4.30	PVD coating (physical vapour deposition)
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76.4.33	wash, etching, conversion coating
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76.10.3	Long-term protection
76.11	Erection and construction work
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76.11.1	Erection and assembly of sub-assemblies
76.12.1	Special Constructions
<b>77</b>	<b>Software for process simulation, computer programs</b>
<b>78</b>	<b>Metal goods, general</b>
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80.1	Examined welder for aluminium (AÜG/Werksvertrag)

## **E Consultancy, expert opinions, information**

<b>90</b>	<b>Consultancy</b>
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

# Aluminium Suppliers Directory 2022

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
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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
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90.10	Design
90.10.1	Advice on design, layout, shape and form.
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### Experts opinions

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91.2	Assessors
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91.5	Planning, design, software
91.5.1	Plant
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91.5.2.1	Software for the metal construction industry

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91.6	Laboratory services
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### 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
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### Technology transfer

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### Training and further development

94.1	Off-site training institutes
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Astrid Kehr  
DVS-Verlagsrepräsentanz  
Hauptstraße 7  
57644 Hattert (Germany)  
☎ +49 26 62 969 664 0  
☎ +49 26 62 949 107 2  
✉ Astrid.Kehr@dvs-ad.de

**Baden-Württemberg, Hesse, Rhineland-Palatinate, Saarland**

Reinhard Nühlen  
Verlags- und Mediaservice BDV  
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Corte Lambruschini Corso Buenos Aires, 8  
V° piano - interno 7  
16129 Genova (Italy)  
☎ +39 010 570 49 48  
☎ +39 010 553 00 88  
✉ daniela.chiusa@mediapointsrl.it



### DVS Media GmbH

Postfach 10 19 65 • 40010 Düsseldorf  
Aachener Straße 172 • 40223 Düsseldorf (Germany)

☎ +49 211 15 91-142/-152/-155 • ☎ +49 211 15 91-150



### Contact persons:

Markus Winterhalter ✉ markus.winterhalter@dvs-media.info  
Vanessa Wollstein ✉ vanessa.wollstein@dvs-media.info  
Britta Wingartz ✉ britta.wingartz@dvs-media.info