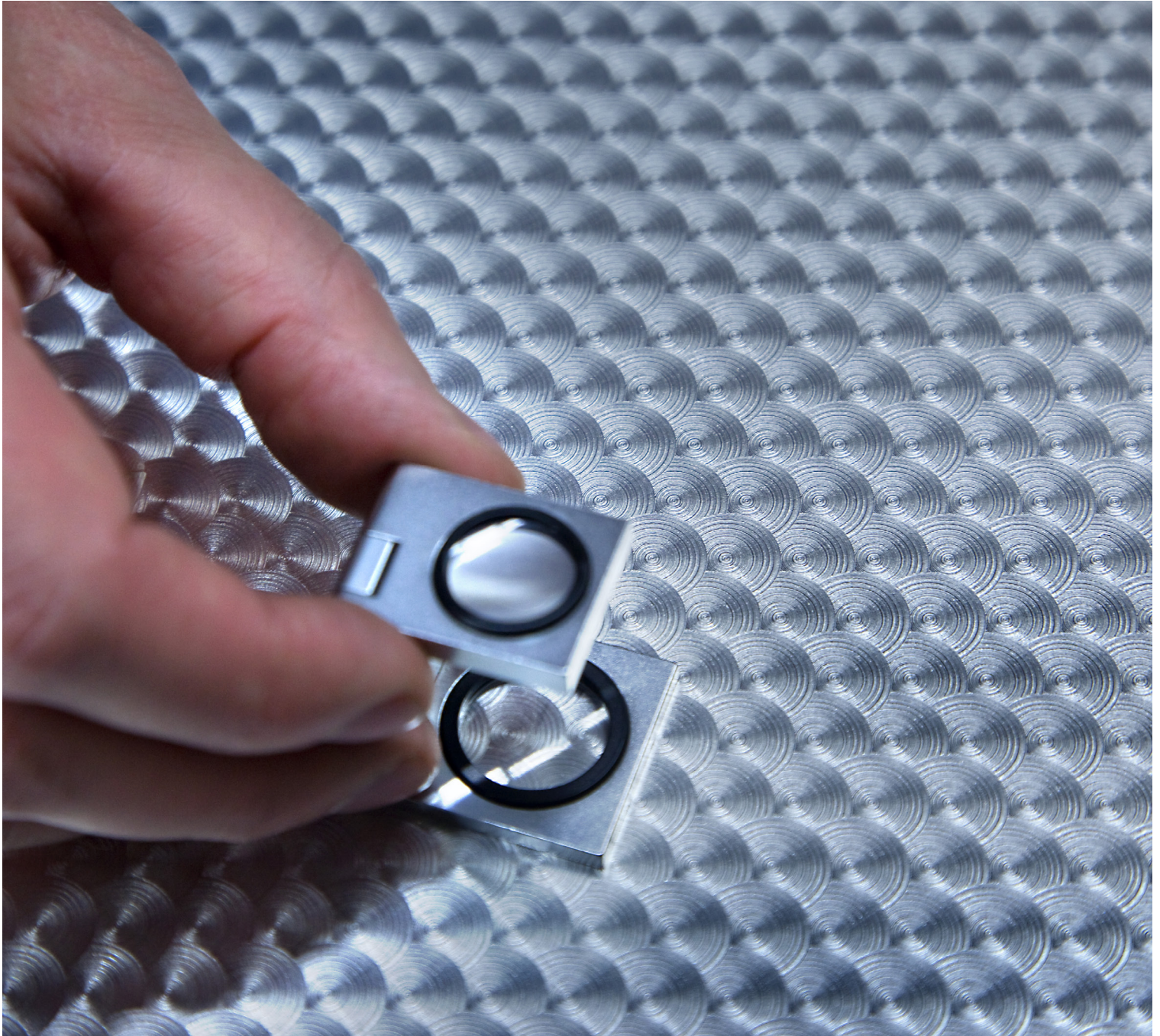




Rolling Plant



AUTOMOTIVE

From semifinished product to ready-to-assembly component

One of the outstanding strengths of Martinrea Honsel Rolling Plant is the development expertise that we have already proved in a lot of projects with our customers. With individual solutions for the automotive industry we meet the specific requirements of our customers in direct agreement. We are at your disposal for consulting services regarding development and prototyping.

Besides the design of the product, the choice of appropriate material and process is a necessary prerequisite that the finished product meets the requirements on mechanical properties, dimensions and surface at a reasonable price.

Our product range covers samples as well as series products.

Product range Automotive

	Aluminium Coils	Aluminium Plates
Thickness	0,4 - 2,2 mm	
Width / Ø	max. 1.250 mm	
Length		max. 3.500 mm

Surfaces:

bright rolled

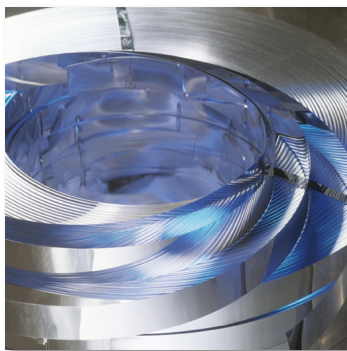
Surface protection:

protective and deep-drawing film – also double sided

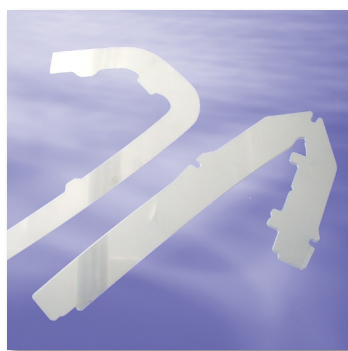
Surface treatment:

anodising, embossing, etching

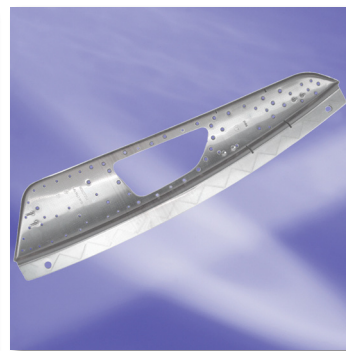
Product examples



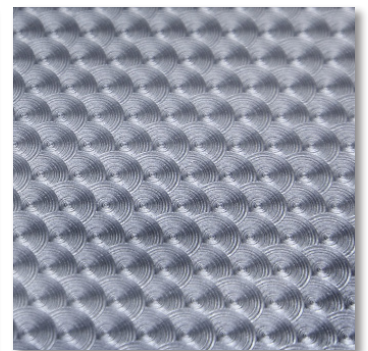
Coils in bright rolled quality
Thickness 0,4- 2,2 mm
Width up to 1.250 mm



2D stamped blanks for exterior application



3D blanks with imprint bolts for interior application



Embossed surfaces
Thickness 0,5- 1,2 mm
Width up to 610 mm

Machinery equipment

With high-performance excenter and hydraulic presses, we have the capability to produce coils of up to 990 mm width. Up to 400 tons stamping forces and mounting space of up to 2.500 x 1.300 mm allow the production of large components. We have several hydraulic and excenter presses available.

Materials

Alloys according to EN 573	
Numerical	Chemical symbols
Bright finishing alloys	
EN AW-1080A	Al99,8(A)
EN AW-1090	Al99,90
EN AW-5505	Al99,9Mg1
EN AW-5657	Al99,85Mg1(A)
EN AW-5205	Al99,7Mg0,8Cu
Pure aluminium	
EN AW-1050A	Al99,5
EN AW-1070A	Al99,7
Non age hardening alloys	
EN AW-3103	AlMn1
EN AW-5005	AlMg1
EN AW-5754	AlMg3

Mechanical properties:

DIN EN 485-2

Chemical composition:

DIN EN 573-3

Deviation limits and dimensional tolerance:

DIN EN 485-4 for cold-rolled products

Material inspection:

DIN EN 10204

Material certificates:

Certification of compliance with the order 2.1

Test report 2.2

Inspection certificate 3.1

Inspection certificate 3.2

Certificates:

ISO 9001

ISO 14001

IATF 16949

ISO 45001

DIN EN ISO 50001

Contact

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thomas.mester@martinrea.com

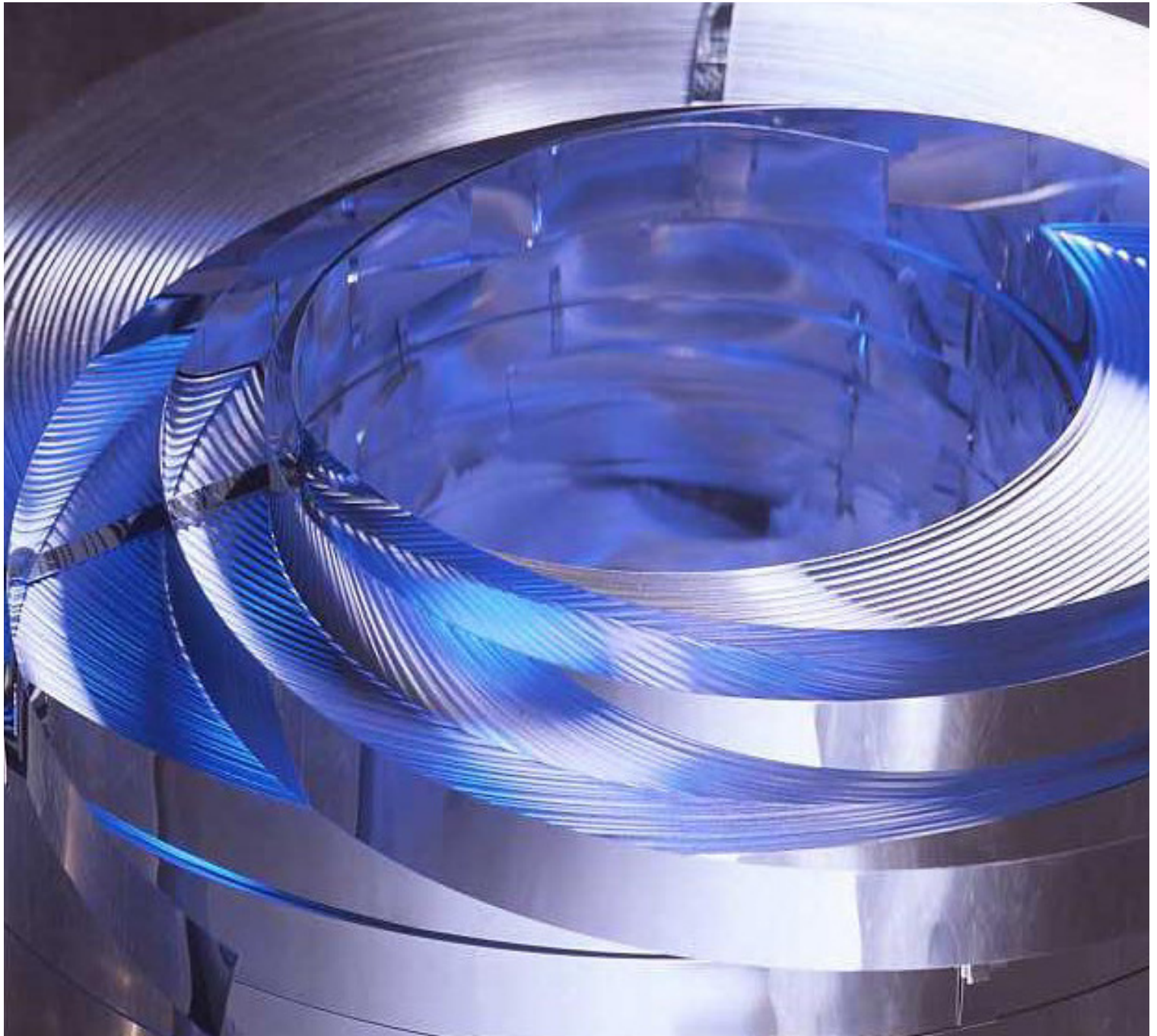
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Rolling Plant



COIL ROLLING

Coil Rolling

Individual solutions – according to your requirements!

One of the outstanding strengths of Martinrea Honsel Rolling Plant is the development expertise that we have already proved in a lot of projects with our customers. With individual solutions we meet the specific requirements of our customers in direct agreement. We are at your disposal for consulting services regarding development and prototyping.

Besides the design of the product, the choice of appropriate material and process is a necessary pre-requisite that the finished product meets the requirements on mechanical properties, dimensions and surface at a reasonable price.

We deliver aluminium coils, sheets and circles from samples to series products.

Product range coil rolling

	Coils	Sheets	Circles
Thickness	0,4 - 2,2 mm		
Width / Ø	max. 1.250 mm		max. 600 mm
Length		max. 3.500 mm	

Surfaces:

bright rolled, embossed, anodised

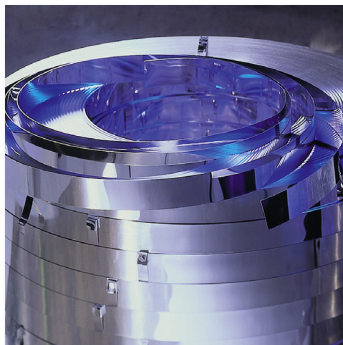
Surface protection:

protective and deep-drawing film – also double sided

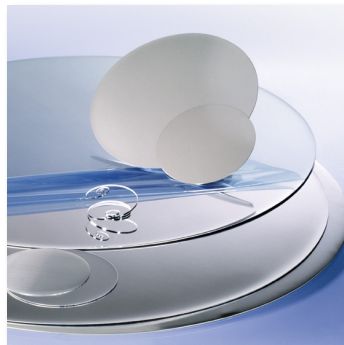
Surface treatment:

anodising, embossing, etching

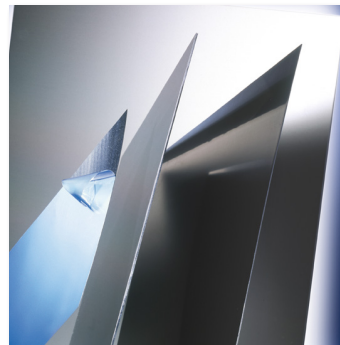
Product examples



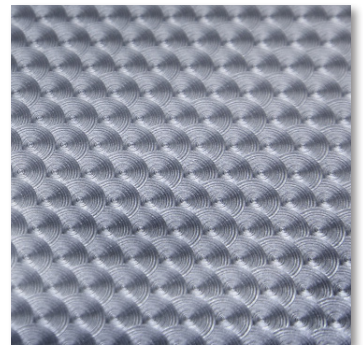
Coils in bright rolled quality
Thickness 0,3 - 2,0 mm
Width up to 1.250 mm



Circles in bright rolled quality
Thickness 0,3 - 2,0 mm
Ø up to 600 mm



Sheets and coils in anodized quality
Thickness 0,3 - 2,0 mm
Dimension up to 1.250 x 4.000 mm



Embossed surfaces
Thickness 0,5 - 1,2 mm
Format 500 x 4.000 mm

Anwendungsbeispiele



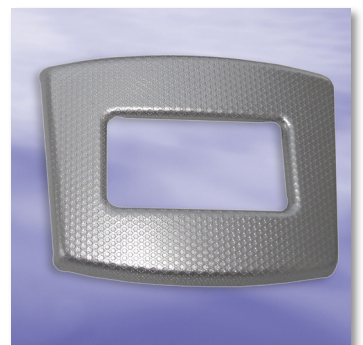
Cosmetics packaging,
Automotive exterior



Light reflectors



Kitchen fronts



Trims and surfaces in
vehicles

Coil Rolling

Materials

Alloys according to EN 573	
Numerical	Chemical symbols
Bright finishing alloys	
EN AW-1080A	Al99,8(A)
EN AW-1090	Al99,90
EN AW-5505	Al99,9Mg1
EN AW-5657	Al99,85Mg1(A)
EN AW-5205	Al99,7Mg0,8Cu
Pure aluminium	
EN AW-1050A	Al99,5
EN AW-1070A	Al99,7
Non age hardening alloys	
EN AW-3103	AlMn1
EN AW-5005	AlMg1
EN AW-5754	AlMg3

Mechanical properties:

DIN EN 485-2

Chemical composition:

DIN EN 573-3

Deviation limits and dimensional tolerance:

DIN EN 485-4 for cold-rolled products

Material inspection:

DIN EN 10204

Material certificates:

Certification of compliance with the order 2.1

Test report 2.2

Inspection certificate 3.1

Inspection certificate 3.2

Certificates:

ISO 9001

ISO 14001

IATF 16949

ISO 45001

DIN EN ISO 50001

Ihre Ansprechpartner

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Rolling Plant

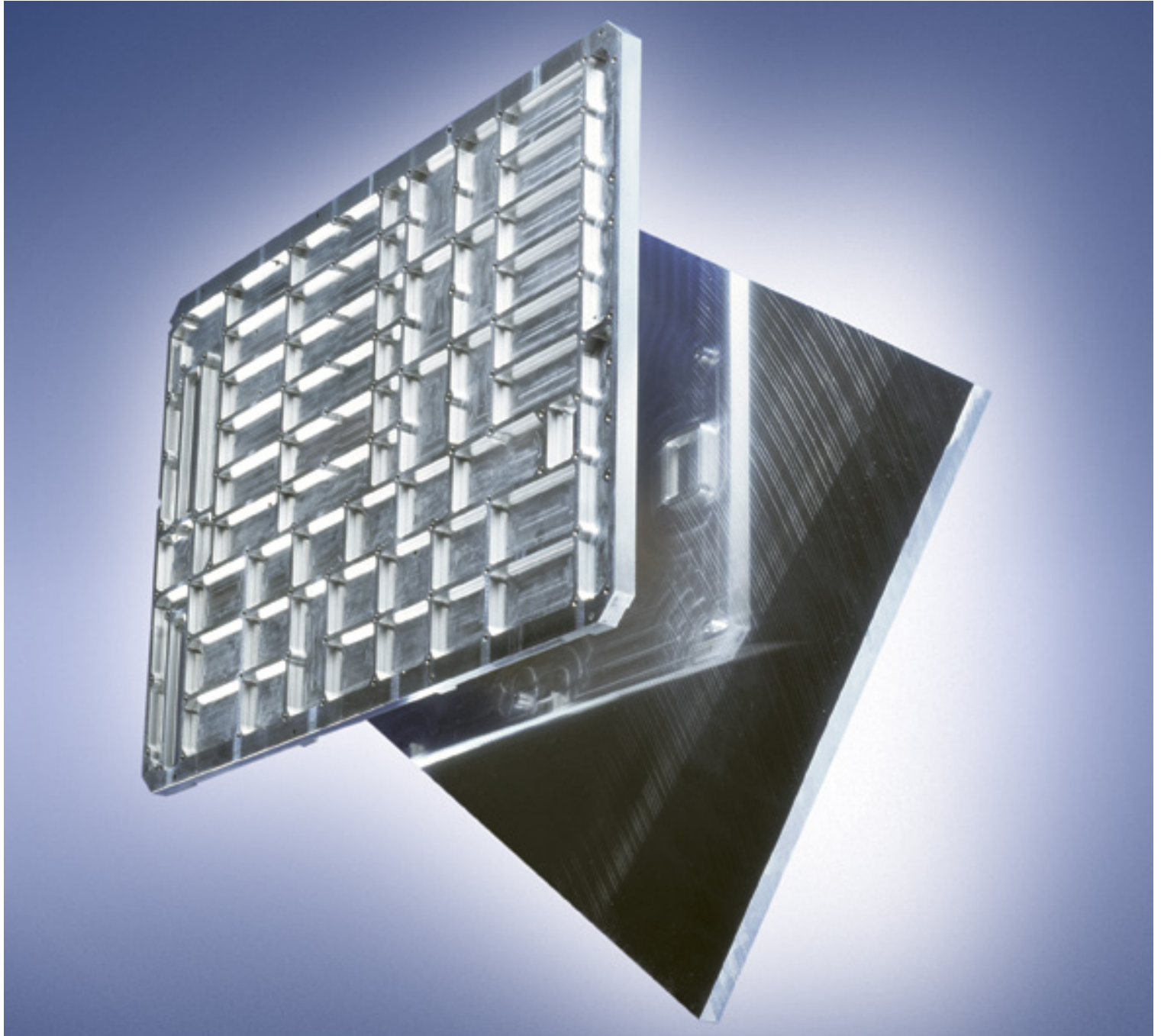


PLATE ROLLING

Plate Rolling

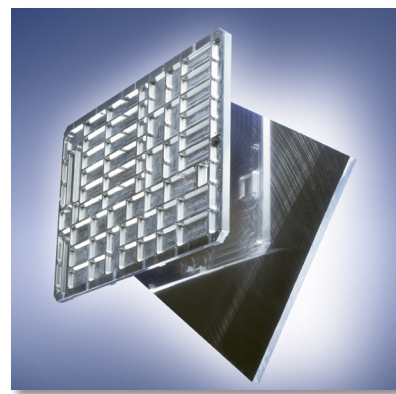
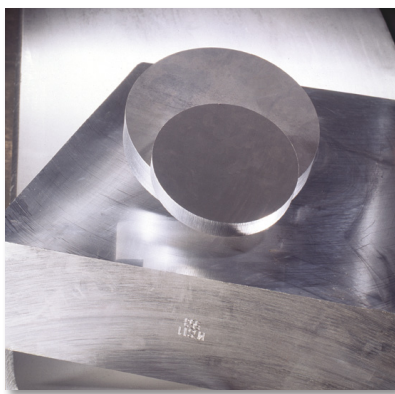
You are looking for something special? We will find it!

Rolling products for special solutions, small and medium scales, standard and series products. We are the perfect partner for aluminium plates with high quality and closest tolerances – from development to production.

The know how and the experience of our employees has a high impact on every single plate we produce. Each aluminium plate is tailor-made – according to the requirements of our customers.

Please contact us and we will find the right solution for you!

Product Range Plate Rolling



	Plates	Cuttings	Circles
Thickness	4 - 130 mm		
Width	max. 1.500 mm	On customer request - up to 165 kg / part	
Length	max. 4.170 mm		
Ø			1.250 m - up to 100 kg / part

We produce in special alloys beginning at 2.000 kg and all common age hardening and non age hardening alloys as well as pure aluminium.

Application:

Mechanical engineering
Automotive industry
Construction of housings, containers and technical equipment
Electronics
Vaccuum technology

Surfaces:

bright-rolled

Surface treatment:

milling

Surface protection:

protecting and deep-drawing films

Marking:

on the top and bottom side of the material, for circles script, size and position on cutting edge according to customer requirement

Rolled plate milled on both sides (HSP)

Surface roughness Ra max 0,6 µm

Tolerance for thickness $\pm 0,1$ mm

Deviation from flatness

< 15 mm thickness: max. 0,35 mm/m

> 15 mm thickness: max. 0,20 mm/m

Length and width tolerance $\pm 0,5$ mm

Closer tolerances available on request

Plate format

Max. 1.250 x 2.500 mm incl. all fixed formats, circles and blanks within these limits

Material thickness

8 to 50 mm including all intermediate thicknesses

Plate Rolling

Materials

Alloys according to EN 573	
Numerical	Chemical symbols
Non age hardening alloys	
EN AW-3003	AlMn1Cu
EN AW-3103	AlMn1
EN AW-5005A	AlMg1
EN AW-5251	AlMg2
EN AW-5049	AlMg2Mn0,8
EN AW-5052	AlMg2,5
EN AW-5754	AlMg3
EN AW-5454	AlMg3Mn
EN AW-5086	AlMg4
EN AW-5083	AlMg4,5Mn

Mechanical properties:

DIN EN 485-2

Chemical composition:

DIN EN 573-3

Deviation limits and dimensional tolerance:

DIN EN 485-3 for hot-rolled products

DIN EN 485-4 for cold-rolled products

Alloys according to EN 573	
Numerical	Chemical symbols
Pure aluminium	
EN AW-1050A	Al99,5
EN AW-1070A	Al99,7
EN AW-1350A	E-Al99,5(A)
Age hardening alloys	
EN AW-6060	AlMgSi
EN AW-6061	AlMgSi1SiCu
EN AW-6082	AlMgMN
EN AW-6061B	E-AlMgSi0,5
EN AW-6063	AlMg0,7Si

Special alloys or restricted alloy components on customer request

Material inspection:

DIN EN 10204

Material certificates:

Certification of compliance with the order 2.1

Test report 2.2, Inspection certificate 3.1

Inspection certificate 3.2

Certificates:

ISO 9001, ISO 14001

IATF 16949, ISO 45001, DIN EN ISO 50001

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