

BÖHLER  
SPECIAL MATERIAL  
PLATES



# FROM START TO FINISH

## **YOUR ADVANTAGE – OUR SKILLS, THE WHOLE PRODUCTION CHAIN IS IN OUR HANDS.**

We cover all technical melting and remelting processes  
with state of the art equipment, e.g.

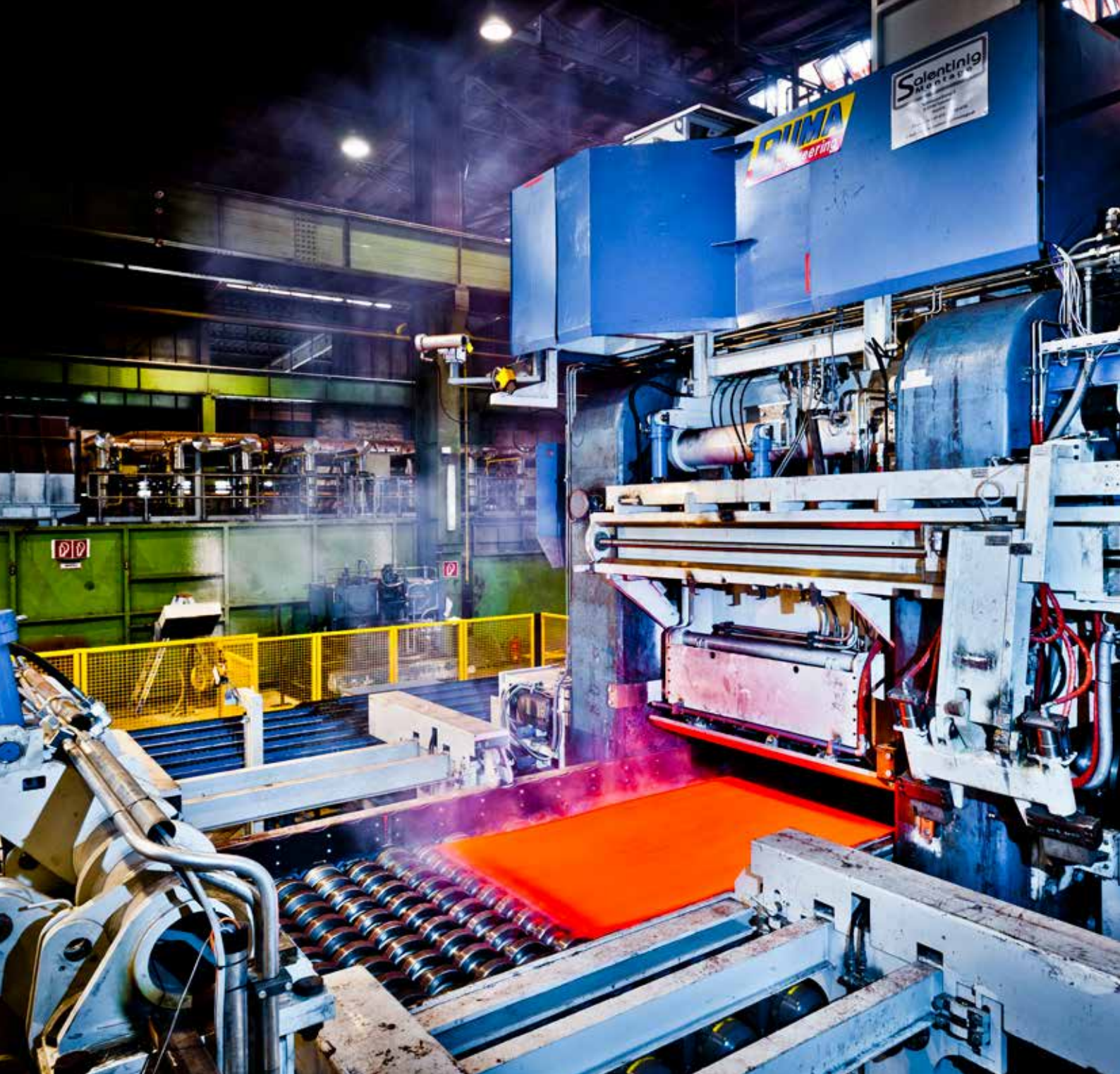
- » EAF / VOD
- » VID / VIM
- » VAR / P-ESR / ESR

for complex alloys.

In combination with our cross-rolling technology we are specialized  
in producing sheets and plates of Chromium-, Superduplex-, Superaustenitic-,  
Nickel-Base- as well as other Special Alloys.

The optimum combination of our possibilities enables us to support you  
with a homogeneous product having excellent material properties.





Two high mill



Plasma cutting unit



Laser cutting unit



Water jet cutting unit

# TAILOR MADE FOR YOUR NEEDS

## Dimensions hot rolled

Width	max. 2,000 mm
Length	max. 6,600 mm
Thickness	2.0 mm up to 90.0 mm
Weight	max. 2,000 kg

## Dimensions cold rolled

Width	max. 1,250 mm
Length	max. 5,000 mm
Thickness	1.0 mm up to 6.0 mm

## Edge finish

Shear cut
Laser cut
Cold sawn
Plasma cut
Water jet cut

## Surface finish

As rolled
Shot blasted
Pickled
Ground
Milled

Stated figures are guide values,  
special requirements on request.

## Minimum order quantities

### Standard alloys (output of one slab)

Steel	800 – 2,000 kg
Ni-base-alloys	800 – 2,000 kg
Titanium	600 – 1,100 kg

### Special alloys (output of one melt)

VID	6 – 8 to
EAF-VOD	25 – 35 to
VIM (Ni-base-alloys)	5 alt. 10 to

Minimum order quantities for other melting routes  
on request.

# CORROSION RESISTANT ALLOYS



## MORE THAN JUST CORROSION RESISTANT

We rely on our state of the art technology and expertise to produce premium materials.

Excellent corrosion resistance, best workability due to our cross-rolling technology, closest tolerances and premium surface finishes decrease your costs and increase security in service.



Type of alloy	BÖHLER grade	PRE <sub>N</sub>	Common name	DIN / EN	UNS	Standards	Main application
Martensite	BÖHLER N100		AISI 410	1.4006		ASTM A240 EN 10088-2	Engineering Equipment, Turbines
	BÖHLER N400			1.4313		EN 10088-2	Engineering Equipment
	BÖHLER N700		17-4 PH AISI 630	1.4542	S17400	ASTM A693 EN 10088-2	Offshore Industry
Superduplex	BÖHLER A911SA	41		1.4501	S32760	ASTM A240 Norsok MDS D55 Shell-Spez. ES/247	Offshore Industry Water Treatment
	BÖHLER A924	40		~1.4507	S32550 S32520	ASTM A240	Offshore Industry
Super Austenite	BÖHLER A610			1.4361	S30600	ASTM A240 Bayer WN 950 EN 10088-2	Nitric Acid Production, Storage
	BÖHLER A611			—	S30601	ASTM A240 VdTÜV 534	Sulfuric Acid Production, Storage
	BÖHLER A614			~1.4469	S32615	ASTM A240 VdTÜV 535	Sulfuric Acid Production, Storage
	BÖHLER A657			1.4335	S31002 S31008	ASTM A240 VdTÜV 468	Nitric Acid Production, Storage
	BÖHLER A965SA	43	6-Mo	1.4547	S31254	ASTM A240 Norsok MDS R15 Shell-Spez. ES/247	Offshore Industry Chemical Industry
	BÖHLER A952		Alloy 31	1.4562	N08031	ASTM B625 VdTÜV 509	Chemical and Petrochemical Industry
	BÖHLER A970	42		1.4529	N08926 N08367	ASTM B625	Offshore Industry
	BÖHLER H500		Alloy 800/800H/ 800HT	1.4876	N08800 N08810 N08811	ASTM B409 EN 10095 SEW 470	Petrochemical Industry
Nickel-Base	BÖHLER L022		Alloy C22	2.4602	N06022	ASTM B575 VdTÜV 479	Petrochemical Industry, Pharmaceutical Equipment
	BÖHLER L276		Alloy C276	2.4819	N10276	ASTM B575 VdTÜV 400	Chemical Industry, Pharmaceutical Equipment
	BÖHLER L625		Alloy 625	2.4856	N06625	ASTM B443 EN 10095	Offshore and Chemical Industry
	BÖHLER L004		Alloy C4	2.4610	N06455	ASTM B575 VdTÜV 424	Chemical Industry
	BÖHLER L825		Alloy 825	2.4858	N08825	ASTM B424 DIN 17744	Chemical Industry
	BÖHLER L059		Alloy 59	2.4605	N06059	ASTM B575 DIN 17744	Chemical Industry, Pharmaceutical Equipment
Nickel-Copper	BÖHLER L400		Alloy 400	2.4360	N04400	ASTM B127 DIN 17750 BS 3072	Chemical Industry

Other grades upon request.

# HEAT RESISTANT ALLOYS



## NOTHING IS TOO HOT FOR US

Confidence is not enough in critical spheres.

Only hard facts count.

Excellent material properties like strength, toughness and creep resistance give long lasting solutions especially for critical areas.

Let us prove our reliability!



Type of alloy	BÖHLER grade	Common name	DIN / EN	UNS	Standards	Main application
Ferrite	BÖHLER H160		1.4713		EN 10095	
	BÖHLER T550		1.4922 1.4923 1.4926		EN 10302	Turbines
Martensite	BÖHLER T567		1.4903		EN 10302	Turbines
	BÖHLER H300		1.4821		SEW 470 EN 10095	Industrial Furnaces
Austenite	BÖHLER H500	Alloy 800/800H/ 800HT	1.4876	N08800 N08810 N08811	ASTM B409 SEW 470 EN 10095	Industrial, Process Furnaces
	BÖHLER H513		1.4864		SEW 470 EN 10095	Industrial Furnaces
	BÖHLER H521	Alloy 330	1.4886	N08330	ASTM B536 EN 10095	Industrial Furnaces
	BÖHLER H525	Alloy 314	1.4841	S31400	SEW 470 EN 10095	Industrial Furnaces
	BÖHLER T200	Alloy 286	1.4943 1.4944 1.4980	S66286	EN 10302	Turbines
	BÖHLER T240		~1.4962		EN 10302	Turbines
	BÖHLER T275		1.4961		EN 10028-7 EN 10302	Turbines
	BÖHLER L075	Alloy 75	2.4951 2.4630	N06075	EN 10095	Turbines, Engines
	BÖHLER L090	Alloy 90	2.4969 2.4632	N07090	EN 10302	Turbines, Engines
	Nickel-Base	BÖHLER L617	Alloy 617	2.4663	N06617	ASTM B168 EN 10302
BÖHLER L625		Alloy 625	2.4856	N06625	ASTM B443 EN 10095	Turbines, Engines, Industrial Furnaces
BÖHLER L718		Alloy 718	2.4668	N07718	ASTM B670 EN 10302	Turbines, Engines

Other grades upon request.

# SPECIAL ALLOYS AND TITANIUM



## **NO PROBLEM WITHOUT ANY SOLUTION**

Are you in need of materials with good machinability, stable non-magnetic properties, a defined thermal expansion coefficient or other special solutions?

We supply the tailored products of the highest quality.

Rely on our expertise!

Properties	Type of alloy	BÖHLER grade	PRE <sub>N</sub>	Common name	DIN / EN	UNS	Standards	Main application
Machinability	Austenite	BÖHLER A101		~AISI 316+S	~1.4436+S			Screen Plates Screen Drums
		BÖHLER A506		AISI 303	1.4305	S30300	ASTM A895 EN 10088-3	Screen Plates Screen Drums
Nonmagnetic	Austenite	BÖHLER P500	38		~1.4565	~S20910	ASTM A240 SEW 400	Ship Building
		BÖHLER P501	35		1.3964	~S20910 -	ASTM A240 SEW 390	Ship Building
		BÖHLER P503	40		1.3974	-	SEW 390	Offshore Industry
		BÖHLER P512	43		1.4565	S34565	ASTM A240 EN 10088-2	Combustion Gas Desulphurisation
Expansion Coefficient	Austenite	BÖHLER P802		Ni 36	1.3912	K93600 K93603	SEW 385	Laminate Moulds
Polishability Biocompatibility	Austenite	BÖHLER A220SC			1.4435 1.4441	S31603	ISO 5832-1 ASTM F138	Medical Implants

The materials described are just some examples for special applications.  
We will be pleased to find tailor made solutions to fulfill also your particular needs.  
Other grades upon request.

Type of alloy	BÖHLER grade	Common name	UNS	Material number	Standards	Main application
Commercially Pure Titanium	BÖHLER L511	Grade 1	R50250	3.7025	ASTM B265 VdTÜV 230	Industry
	BÖHLER L512	Grade 2/2H	R50400	3.7035	ASTM B265 VdTÜV 230	Industry
	BÖHLER L514	Grade 4	R50700	3.7065	ASTM B265 ASTM F67 ISO 5832-2	Medical Implants
Alloyed Titanium	BÖHLER L531EB	Grade 5	R56400	3.7165	ASTM B265	Industry
	BÖHLER L531	Grade 5	R56400	3.7165	ASTM B265 AMS 4911	Industry Aerospace
	BÖHLER L519	Grade 9	R56620	3.7194	ASTM B265	Industry
	BÖHLER L533	Grade 23	R56407	3.7165	ASTM B265 ASTM F136 ISO 5832-3	Medical Implants Aerospace

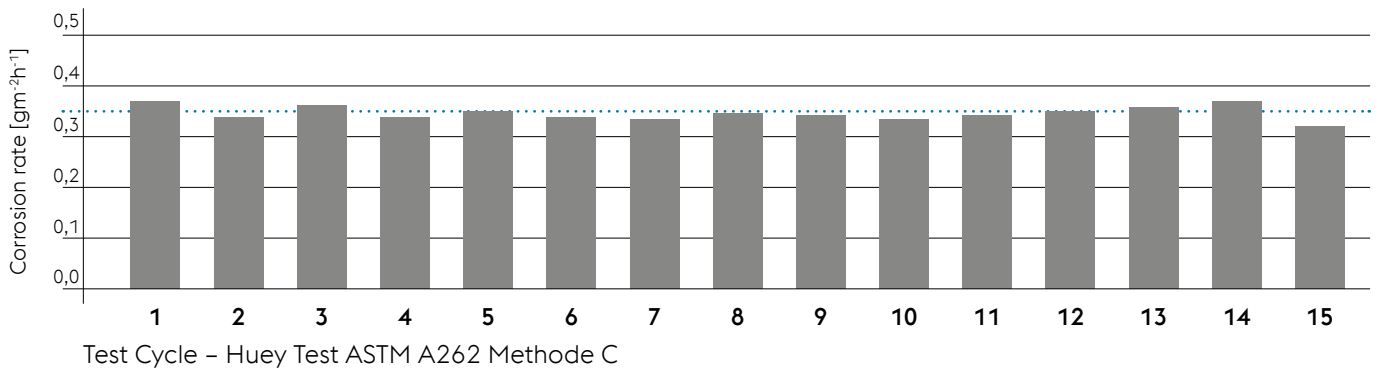
Other grades upon request.

# HARD FACTS

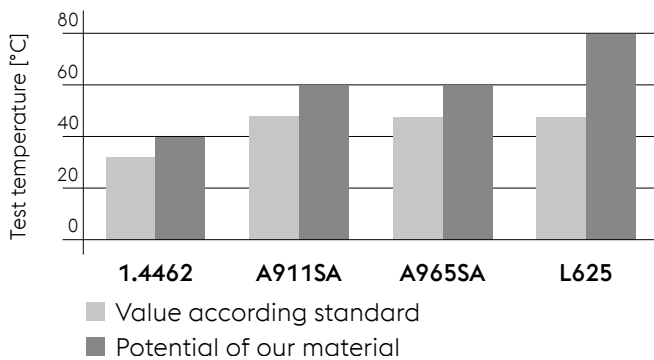


## CORROSION RESISTANT ALLOYS

### A610 Huey Test

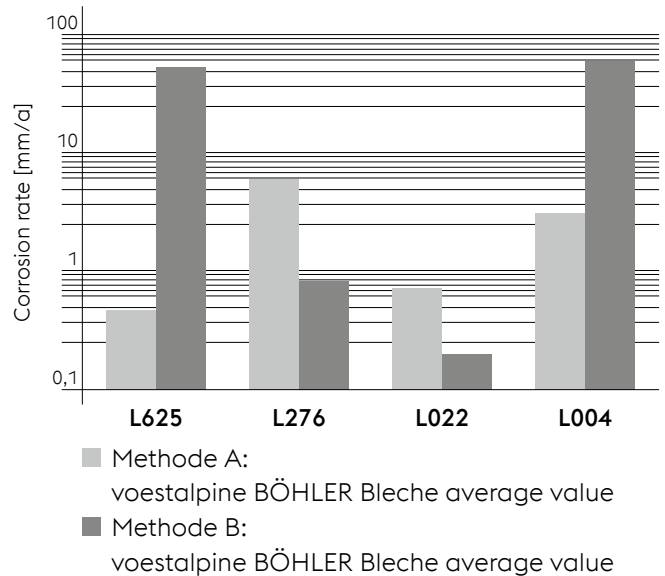


### ASTM G48 Methode A



Note: values for orientation only.

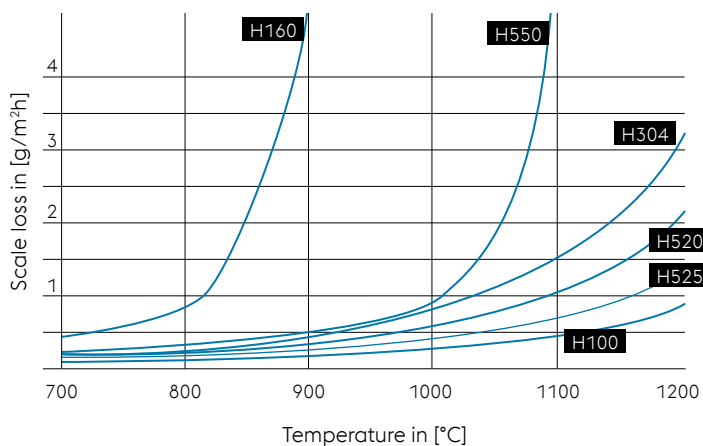
### ASTM G28





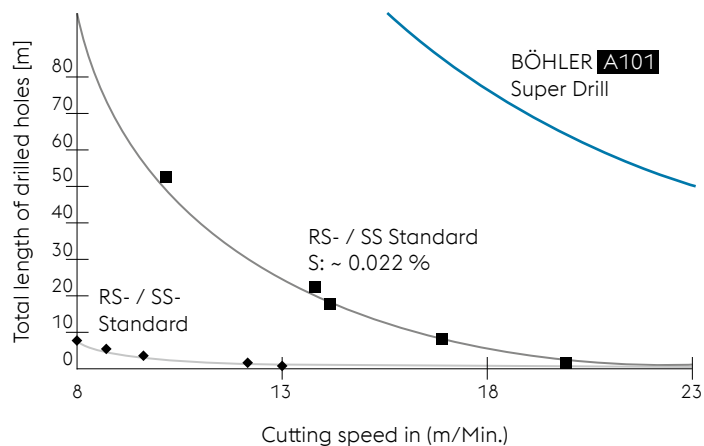


## HEAT RESISTANT ALLOYS



Scale loss of different heat resistant alloys tested in air. The limit for technical usage is  $> 1 \text{ g/m}^2\text{h}$  scale loss.

## SPECIAL ALLOYS



Total length of drilled holes to cutting speed for usual maintenance of cutting edge of HSS-drillers.



The data contained in this brochure shall not be binding and shall, in case of a contract conclusion, not be regarded as warranted. These data shall merely constitute average values that become binding only if explicitly specified in a contract concluded with us. The manufacture of our products does not involve the use of substances detrimental to health or to the ozone layer. Copyright © 2019 by voestalpine BÖHLER Bleche GmbH & CO KG. All rights reserved. This publication or parts of it may not be reproduced, copied or otherwise used without the prior written permission of voestalpine BÖHLER Bleche GmbH & CO KG. Printed on chlorine-free bleached paper having no pollution effects.

# GUARANTEED QUALITY AND SERVICE

All of our production steps from melting to delivery are subject to our Integrated Management System based on the ISO 9001:2015 and EN 9100:2018. Each production lot is tested for the required metallurgical and mechanical values.

## INFORMATION & TECHNICAL SUPPORT

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## PERFECT LOGISTICS – PERFECT PRODUCTS

Competent technical support, tailor made solutions and our worldwide delivery service secure the basis for long-term business relationship.

**Your satisfaction is our goal!**



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ONE STEP AHEAD.