



BÖHLER SPECIAL MATERIALS  
SHEETS, PLATES AND BLANKS  
FOR THE AEROSPACE INDUSTRY

# QUALITY IS BEARING A NAME – BÖHLER BLECHE

**... SPECIALIZED IN MANUFACTURING SINGLE ROLLED SHEETS,  
PLATES AND BLANKS FOR THE AEROSPACE INDUSTRY.**

BÖHLER Edelstahl, Kapfenberg, Austria  
covers all melting and re-melting processes  
with state-of-the-art equipment, e.g.

- EAF / AOD
- ESR
- VIM
- VAR

In combination with our cross-rolling technology,  
we are able to support you with a homogenous  
product having excellent material properties.







# THE DISTINCT ADVANTAGE – CROSS-ROLLING

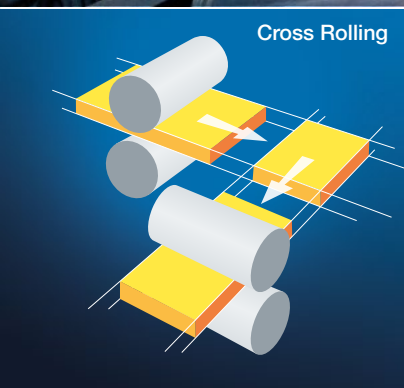
**WE RELY ON OUR STATE OF THE ART TECHNOLOGY AND EXPERTISE  
TO PRODUCE PREMIUM MATERIALS.**

The main advantage of the cross-rolling technique is the uniform microstructure after heat treatment which creates excellent mechanical-, technological- and physical properties in the longitudinal and transverse direction.





Three High Mill



Cross Rolling



Heat Treatment Furnace



Band Saw



# GUARANTEED QUALITY AND SERVICE

## **RELIABILITY, LONG TERM PARTNERSHIP, TRUST – BASIS OF OUR SUCCESS.**

Continuous improvement of quality control procedures to meet particular demands of aerospace industry and development of new processes and technologies are an integrated part of our research activities.

Qualification, skills and motivation of our employees are the basis to satisfy the high quality requirements and demands of our customers.

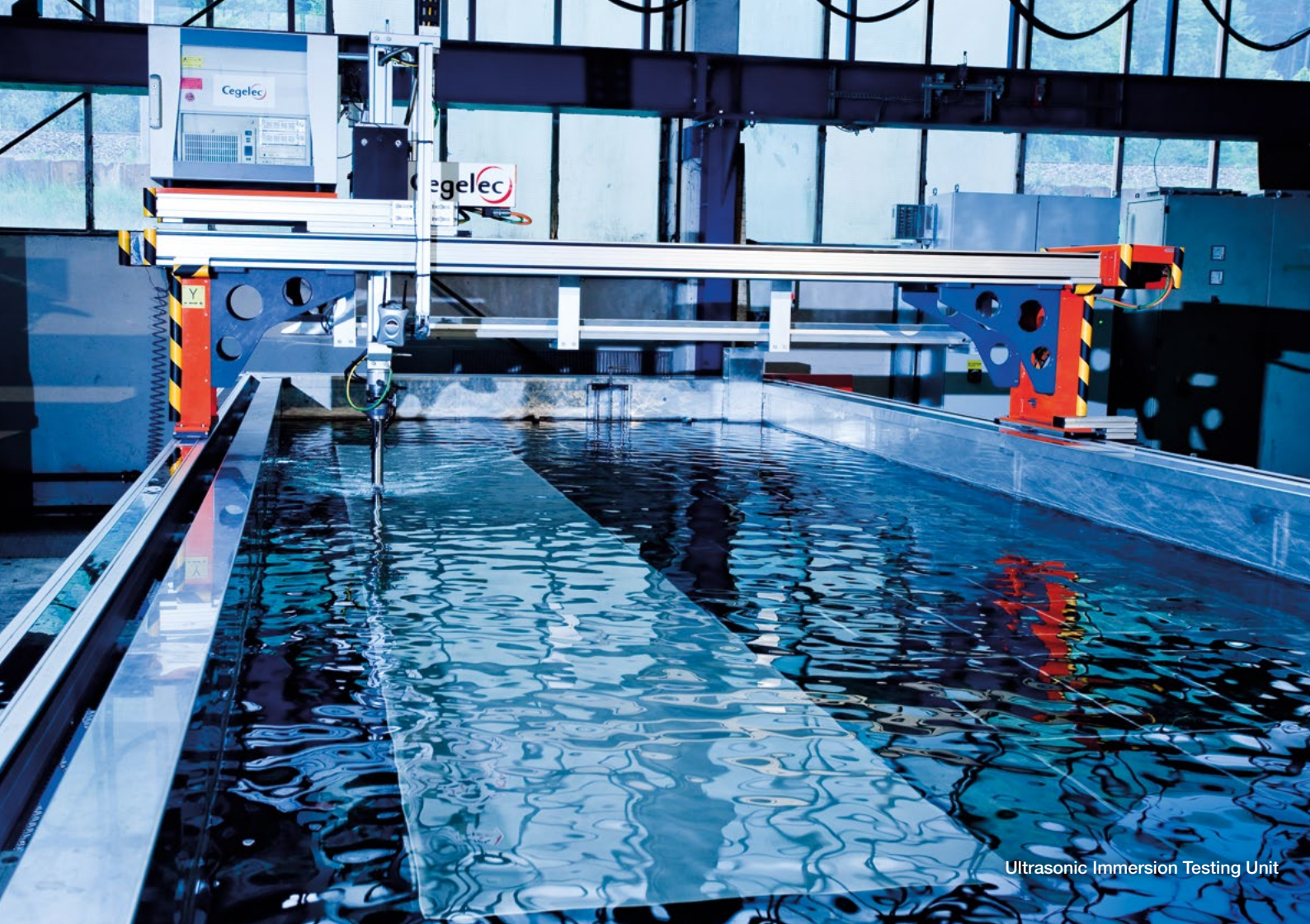
The accreditation of **NADCAP** and ISO **17025** show the competence of our testing laboratory.

### **Technical Support**

Phone: +43 (0) 3852 / 555 26304

Fax: +43 (0) 3852 / 555 26320

E-Mail: [bbg.ta@bohler-bleche.at](mailto:bbg.ta@bohler-bleche.at)



Ultrasonic Immersion Testing Unit



Tensile Test

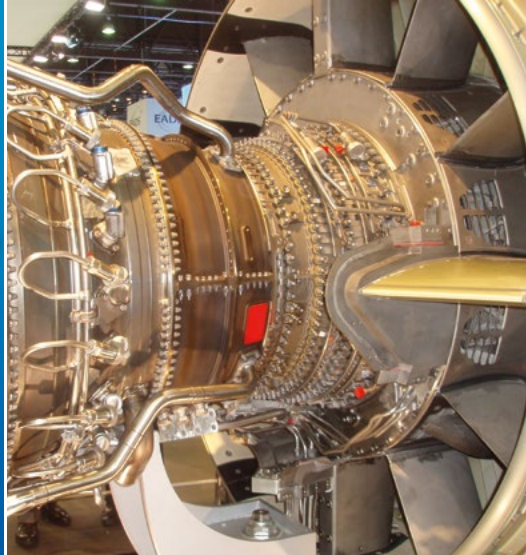


# MATERIALS

GRADES, STANDARDS, CUSTOMER SPECIFICATIONS & APPROVALS											
GRADE	MARKET GRADE	MELTING ROUTE					STANDARDS				INDUSTRY SPECIFICATIONS
		ESR	ESR	VAR	ESR	VAR	AMS	W Nr. UNS	BS	OTHERS (AIR)	
<b>BÖHLER A700</b>	Alloy 321						5510	1.4544	S524 S526		
<b>BÖHLER A750</b>	Alloy 347						5512		S525 S527		
<b>BÖHLER L625</b>	Alloy 625						5599				
<b>BÖHLER L718</b>	Alloy 718						5596	2.4668		NC19FeNb	
<b>BÖHLER N100</b>	Alloy 410						5504				CCTLA327
<b>BÖHLER N404SC</b>										Z8CND17-04	prEN4642, CCTLA257, ASNA6109
<b>BÖHLER N700</b>	17-4 PH						5604	1.4548		Z5CNU17 X5CrNiCuNb 17 4 4	DMD229-21, CCTLA206
<b>BÖHLER N701</b>	15-5 PH						5862			EZ5CNU15.05 X5CrNiCu15.05	ASNA6116, ASNA3297, BMS7-240
<b>BÖHLER N710</b>	Alloy FV520S								S532 S533		DEF STAN95-16, Annex B
<b>BÖHLER N719</b>	13-8 Mo						5864				IGC04.31.226

Böhler provides the materials that aerospace engineers need – in the grade and dimension they want – together with lowest order Quantities.





## GRADES, STANDARDS, CUSTOMER SPECIFICATIONS & APPROVALS

GRADE	MARKET GRADE	MELTING ROUTE					STANDARDS				INDUSTRY SPECIFICATIONS
		EEF	EEF ESR	EEF VAR	VIM ESR	VIM VAR	AMS	W Nr. UNS	BS	OTHERS (AIR)	
<b>BÖHLER N750</b>	17-7 PH						5528	1.4564			
<b>BÖHLER T200</b>	Alloy A286						5525	1.4943 1.4944		Z6NCT25	ASNA6029, CCTLA78, DMD275-23
<b>BÖHLER T552SG</b>	Jethete M152							1.4933 1.4939	S538	Z12CNDV12	MSRR6504, DMD237-21, CCTLA125
<b>BÖHLER T555</b>	Alloy FV607										MSRR6514
<b>BÖHLER T670</b>	Alloy FV520										DEF STAN95-16, Annex A, BACM8, ABM7-1057
<b>BÖHLER V330SH</b>	Alloy 4130						6350 6345				RS130
<b>BÖHLER V340SB</b>								1.7214	S534 S535	25CD4S	AIR9160, DMD174-21
<b>BÖHLER V354</b>								1.7734		15CDV6	AIR9160, ASNA3100, ASNA3102, CCTLA081, DMD172-21
<b>BÖHLER V720</b>	Maraging 300							1.6354			
<b>BÖHLER V721</b>	Maraging 250						6520	1.6359			

Böhler provides the materials that aerospace engineers need – in the grade and dimension they want – together with lowest order Quantities.

# CUSTOMERS SATISFACTION IS OUR GOAL!

## DELIVERY COMMITMENT AND TAILOR MADE SOLUTIONS FOR A HIGH - FLYING FUTURE!

MAIN APPROVALS	
TÜV-SÜD	EN9100, ISO9001, ISO14001, BS OHSAS 18001, ISO50001
Federal Ministry of Science, Research and Economy	Testing Laboratory EN ISO / IEC 17025
Nadcap SAE Aerospace Standard AS7003	Non Destructive Testing, Materials Testing, Heat Treating
Snecma – Groupe Safran	Laboratory Qualification PRO-00430 N° FAL 379
Airbus SAS	Ref. 204793
BAE Systems	Ref ACO/B/LT/JJH/3629
EADS Airbus GmbH	QSF-B
Messier-Bugatti (Groupe Safran)	MA3Z001001-BTT
Bombardier Aerospace	EMCM-001 Rev. AH
Messier-Dowty (Safran Group)	PRIDE Commodity Group R1
Raytheon Aircraft	Ref. RAIFSAS/QA/SC1
Rolls-Royce	RR 9000: SABRe (Approval number: 11308)
Spirit Aero Systems (Europe) Limited	Approval number Spirit / 0164
Westland Helicopters	Supplier Code V08121 / G05E
Boeing	15-5 CRES steel sheet/plate, D1-4426
Gulfstream	Gulfstream Aerospace requirements





Rolls-Royce

## Certificate of Approval

This is to certify that

**Bohler Bleche  
Mürzzuschlag**

is an approved supplier

Scope of approval:

- Manufacture of material
- Mechanical testing as per
- Machining of test pieces
- MSRR 9969 Brinell & Vickers
- RPS 709
- RPS 953 -hot working

Approval number: 11308  
Issue date: 14<sup>th</sup> April 2005  
Expiry date: n/a

This certificate supersedes all previous  
and is subject to the terms on the back

205635.01.doc

ДИПЛОМ • CERTIFICADO • CERTIFICAT

## CERTIFICATE

The Certification Body  
of TÜV SÜD Management Service GmbH  
certifies that



**Böhler Bleche GmbH & Co KG**  
Böhler-Gasse 1, A-8680 Mürzzuschlag

has established and applies  
a Quality Management System for

Production and sales of sheets, plates and blanks through  
rolling and heat treatment of aircraft materials, heat and  
corrosion resistant steel as well as Ni-base and Ti-alloys

An audit was performed in compliance with  
EN 9104:2006, equivalent to AS/JISQ 9104,  
Report No. 70786410

Proof has been furnished that the requirements according to

**EN 9100: 2009**



Federal Ministry of  
Economy, Family and Youth

## Confirmation of Accreditation

The Federal Ministry of Economics, Family and Youth confirms  
that

**Böhler Bleche GmbH & Co KG**

Böhler-Gasse 1, A-8680 Mürzzuschlag

Identification number: 319

of Accreditation: May 05, 2010



Laboratory and fulfills the requirements  
of IEC 17025:2007.

accreditation is given in the currently

cal fields are published in the list of  
[www.bmwfi.gv.at/akkreditierung](http://www.bmwfi.gv.at/akkreditierung).

enna, May 06, 2010

*[Signature]*  
-Ing. Günter P. Friers



+43 (0)1 711 00 - 8236 | fax: +43 (0)1 711 00 93 - 8236 | DVR 0037257  
[www.bmwfi.gv.at/akkreditierung](http://www.bmwfi.gv.at/akkreditierung)



In accordance with SAE Aerospace Standard AS7003, to the revision in effect at  
the time of the audit, this certificate is granted and awarded by the authority of  
the Nadcap Management Council to:

**Bohler Bleche GmbH & Co KG**

Bohler-Gasse 1  
Mürzzuschlag, A8680  
Austria

This certificate demonstrates conformance and recognition of accreditation for  
specific services, as listed in [www.eAuditNet.com](http://www.eAuditNet.com) on the Qualified Manufacturers  
List (QML), to the revision in effect at the time of the audit for:

**Heat Treating**

This certificate expiration is updated based on periodic audits.  
The current expiration date and scope of accreditation are listed at:  
[www.eAuditNet.com](http://www.eAuditNet.com) - Online QML (Qualified Manufacturer Listing)  
Certified since: 14 March 2011

*[Signature]*  
Joseph G. Pinto, Vice President and Chief Operating Officer

Performance Review Institute (PRI) 161 Thorn Hill Road Warrendale, PA 15086-7527

## Gulfstream A GENERAL DYNAMICS COMPANY Approval Of Supplier

Gulfstream Aerospace is pleased to grant its' approval to

**Bohler Bleche**

as a supplier of material, parts, and/or services. This approval is given after a complete facilities survey  
and examination of the Quality Control/Assurance organization has been accomplished. You are approved to  
provide to Gulfstream Aerospace Corporation the various categories of material, parts and/or services as listed  
here:

**Stainless Steel and Specialty Metal Sheet & Plate**

This approval is given subject to your continued compliance with Gulfstream Aerospace Corporation Supplier  
Quality Assurance Requirements as defined by contract.

*[Signature]*  
Gulfstream Aerospace Corporation  
QUALITY ASSURANCE DEPARTMENT  
P.O. BOX 2206 AVE  
SAVANNAH, GEORGIA 31405-2206



In accordance with SAE Aerospace Standard AS7003, to the revision in effect at  
the time of the audit, this certificate is granted and awarded by the authority of  
the Nadcap Management Council to:

**Bohler Bleche GmbH & Co KG**

Bohler-Gasse 1  
Mürzzuschlag, A8680  
Austria

This certificate demonstrates conformance and recognition of accreditation for  
specific services, as listed in [www.eAuditNet.com](http://www.eAuditNet.com) on the Qualified Manufacturers  
List (QML), to the revision in effect at the time of the audit for:

**Materials Testing**

This certificate expiration is updated based on periodic audits.  
The current expiration date and scope of accreditation are listed at:  
[www.eAuditNet.com](http://www.eAuditNet.com) - Online QML (Qualified Manufacturer Listing)  
Certified since: 07 September 2010

*[Signature]*  
Joseph G. Pinto, Vice President and Chief Operating Officer

Performance Review Institute (PRI) 161 Thorn Hill Road Warrendale, PA 15086-7527

**Bohler Bleche GmbH & Co KG**

Bohler-Gasse 1  
Mürzzuschlag, A8680  
Austria

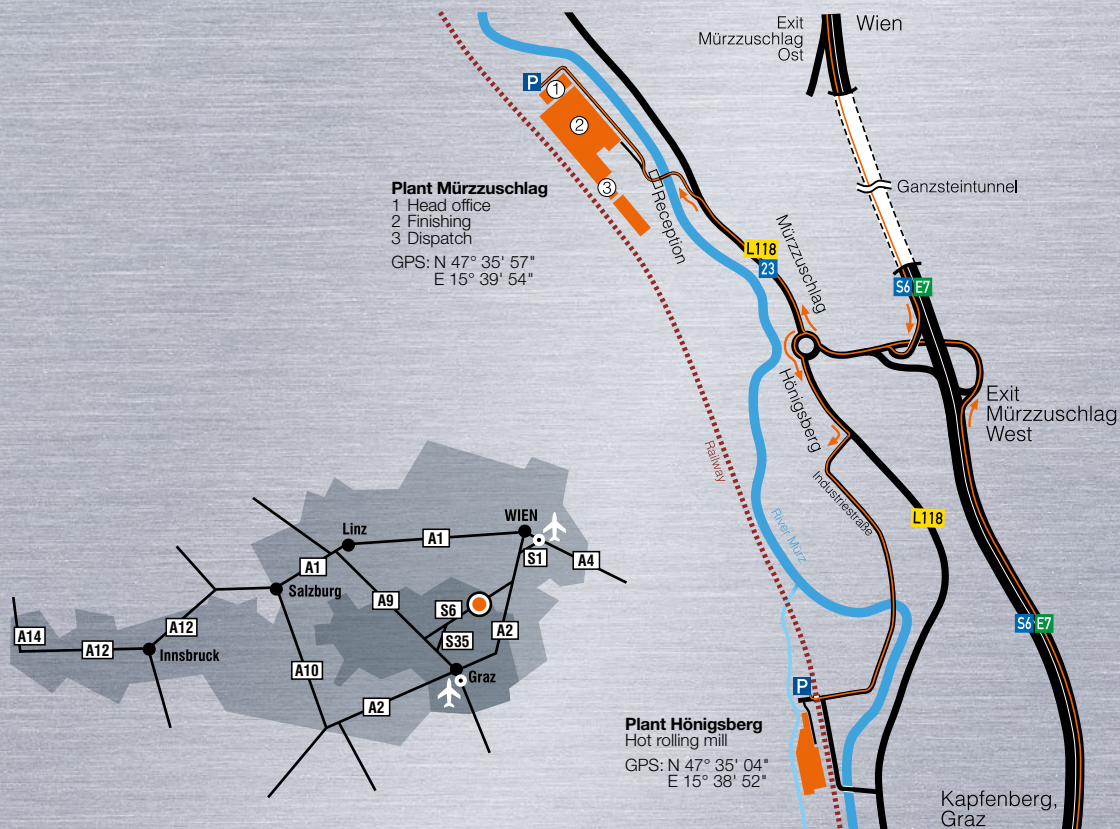
demonstrates conformance and recognition of accreditation for specific services, as  
listed in [www.eAuditNet.com](http://www.eAuditNet.com) on the Qualified Manufacturers List (QML), to the revision in effect at the  
time of the audit for:

**NonDestructive Testing**

80803144123  
16 April 2014

*[Signature]*  
Joseph G. Pinto  
Vice President and Chief Operating Officer

Performance Review Institute (PRI) | 161 Thorn Hill Road | Warrendale, PA 15086-7527



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 Böhler-Gasse 1  
 A-8680 Mürrzuschlag  
[www.boehler-bleche.com](http://www.boehler-bleche.com)

