

EVERYTHING
with tradition

MATERIALS FOR AEROSPACE AND DEFENCE



We supply:

- plates
- sheets
- bars
- blanks
- drawing parts

BIKAR
AEROSPACE

ALUMINIUM

BIKAR AEROSPACE GmbH
Korbussen, Germany

BIKAR AEROSPACE METALS LTD
Bristol, United Kingdom

TITANIUM

BIKAR METALS INDIA Private Limited
Belagavi, India

BIKAR METALS Asia Sdn Bhd
Seremban, Malaysia

SUPER ALLOYS



Sky is not the limit - the metal guide to the galaxy!



EVERYTHING. with tradition.

Since 1962, BIKAR has focused on aluminium, titanium, copper, brass, bronze, steel, super alloys and plastics.

Professional customer service, short delivery times and favourable conditions make BIKAR a long-standing partner to numerous entities within the aerospace, automotive, machine, tooling, moulding and other industries.

Our passion for materials is reflected in the quality of our products.

Heavyweight: 125.000 tonnes storage capacity

With a storage capacity of over **125.000 tonnes**, BIKAR is one of the world's leading suppliers of non-ferrous metals.

True size: Super formats up to 6.000 x 2.500 mm

With more than **65.000** items available, our product variety is truly extensive. We can handle cuttings with dimensions up to 1.100 mm x 2.500 mm x 6.000 mm / 43" x 99" x 236".

Attention to detail: Surface tolerances of less than +/- 0.1 mm / 0.004"

With a production area of more than **120.000 m²**, we can tailor all storage articles according to your individual requirements. In order to manage your processes as efficiently as possible, we employ the latest cutting technology with the tightest tolerances. Less than **0.1 mm / 0.004"** in the thickness* and **0.3 mm / 0.012"** in the length and width**.

Round and round: Rings and blanks up to Ø 2.500 mm / 99"

We cut our blanks out of squares. That's because when it comes to special requirements on surfaces or mechanical properties, conventionally manufactured rods and tubes often reach their limits. In addition to our wide range of round bars and tubes, we can also produce rings and discs up to a diameter of **2.500 mm / 99"**.

Environmental management:

Sustainability management has been firmly anchored within our corporate ethos for many generations. By using our resources as carefully as possible and achieving a recycling rate of almost 100%, we are actively protecting the environment for future generations.



*for flat-milled aluminium plates.

**up to 180 mm / 7" thickness.

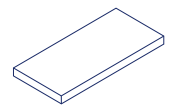


Aluminium sheets, plates and bars for Aerospace and Defence

| Alloy 2024 Al Cu Mg2 | Temper | Dimensions | Dimensions |
|---------------------------------|-----------------|--------------------|------------------|
| Sheets (bare / clad) | T0, T3, T351 | 0.3mm - 6mm | 0.0118 - 0.236" |
| Plates | T351, T851 | 6.01mm - 130mm | 0.237 - 5.12" |
| Bars | T3, T3511, T4 | Ø 6mm - 300mm | Ø 0.236 - 11.81" |
| Alloy 2124 Al Cu4 Mg1 (A) | | | |
| Plates | T351, T851 | 12mm - 260mm | 0.47 - 10.24" |
| Alloy 2618A Al Cu2 Mg1,5 Ni | | | |
| Plates | T851 | 8mm - 100mm | 0.315 - 3.94" |
| Bars | T6511, T8511 | Ø 40mm - 152.4mm | Ø 1.57 - 6" |
| Alloy 6061 Al Mg1 Si Cu | | | |
| Sheets | T0, T4, T6 | 0.6mm - 6mm | 0.0118 - 0.236" |
| Plates | T651 | 6.01mm - 130mm | 0.237 - 5.12" |
| Bars | T4, T651, T6511 | Ø 6mm - 300mm | Ø 0.236 - 11.81" |
| Alloy 7010 Al Zn6 Mg Cu | | | |
| Plates | T7451, T7651 | 15mm - 220mm | 0.591 - 8,66" |
| Bars | T74511 | Ø 25.4mm - 145mm | Ø 1 - 5.8" |
| Alloy 7040 Al Zn5,5 Mg Cu | | | |
| Plates | T7451, T7651 | 76mm - 229mm | 3 - 9" |
| Alloy 7050 Al Zn6 Cu Mg Zr | | | |
| Plates | T7451, T7651 | 15mm - 220mm | 0.591 - 8,66" |
| Bars | T7451 | Ø 25,4mm - 101,6mm | Ø 1 - 4" |
| Alloy 7075 Al Zn5,5 Mg Cu | | | |
| Sheets (bare / clad) | T0, T6, T73 | 0.3mm - 6mm | 0.0118 - 0.236" |
| Plates | T651, T7351 | 6.35mm - 120mm | 0.25 - 4.72" |
| Bars | T73, T73511 | Ø 10mm - 200mm | Ø 0.394 - 7.87" |
| Alloy 7175 Al Zn5,5 Mg Cu (B) | | | |
| Plates | T7351 | 6.01mm - 100mm | 0.236 - 3.94" |
| Bars | T73, T73511 | Ø 10mm - 200mm | Ø 0.118 - 7.87" |
| Alloy 7475 Al Zn5,5 Mg Cu (A) | | | |
| Plates | T7351 | 10mm - 100mm | 0.118 - 3.94" |
| Plates | T01 | 101.6mm - 180mm | 4 - 7.09" |

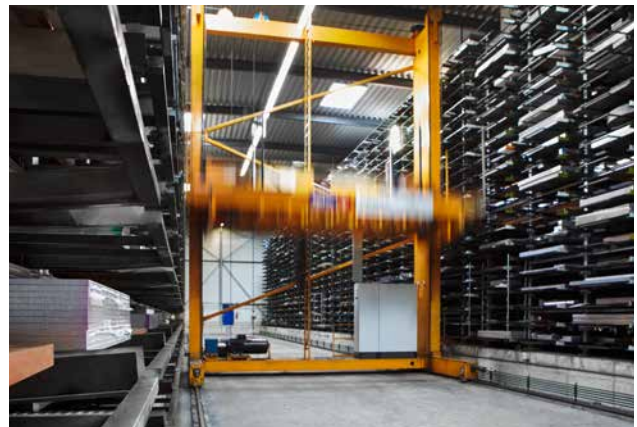
All alloys and dimensions on request according to:

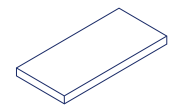
■ AMS ■ LN ■ DAN ■ AIMS ■ ABS ■ AIR ■ WL ■ BS ...and more.



Aircraft Aluminium Plates – Country Specific

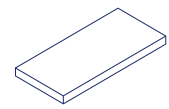
| Country | Specification | Alloy | Temper |
|---------|--------------------------------------|-------|--------------|
| USA | AMS 4050 | 7050 | T7451 |
| USA | AMS 4202 | 7475 | T7351 |
| USA | AMS QQ-A-250/4 | 2024 | T351, T851 |
| USA | AMS 4026/4027 (rep. AMS-QQ-A-250/11) | 6061 | T451, T651 |
| USA | AMS 4078 AMS QQ-A-250/12 | 7075 | T651, T7351 |
| USA | AMS QQ-A-250/29, AMS 4101 | 2124 | T851 |
| Germany | 3.1354 | 2024 | T351, T851 |
| Germany | 3.1924 | 2618A | T651 |
| Germany | 3.3214 | 6061 | T451, T651 |
| Germany | 3.4144 | 7050 | T7451 |
| Germany | 3.4364 | 7075 | T651, T7351 |
| Germany | 3.4384 | 7475 | T7351 |
| Germany | 3.4394 | 7010 | T7451, T7651 |
| UK | L93 | 2014A | T651 |
| UK | L97 | 2024 | T351 |





Aircraft Aluminium Plates – Company Specific

| Airbus | | | | Bombardier | Embraer | Boeing |
|----------------------------|-----------------------------------|--------------|------------------------|-------------------------------|---------------|--------------------------------|
| Specification | ABS Specification (if applicable) | Alloy | Temper | Specification | Specification | Specification |
| ASN-A-3005/ 3098/3101 | | 7010 | T651 T7451 T7651 | | | |
| ASN-A-3009 | | 7075 | T7351 | | | |
| ASN-A-3011 | | 2024 | T351 | | | |
| ASN-A-3050 | | 7175 | T7351 | | | |
| ASN-A-3355 | | 2618A | T851 | | | |
| AIMS 03-02- 004/020 | ABS5032A, B | 2024 | T351 T351HDT | | | |
| AIMS 03-02-008 | ABS5064A | 7175 | T7351 | | | |
| AIMS 03-02-009 | ABS5052A | 7475 | T7351 | BAMS/CMS 516-02 | MEP 02-013 | |
| AIMS 03-02- Q11/026 | ABS5237A | 7150 | T651 T7751 | BAMS/CMS 516-06 (T7751) | | |
| AIMS 03-02- 015/016/028 | ABS5117 A, B, C/ ABS5237B | 7449 | T651 T7951 T7651 | | | |
| AIMS 03-02-017 | ABS5218A | 7055 | T7751 | | | |
| AIMS 03-02-019 | ABS5324A 01 | 7040 | T7451 | BAMS/CMS 516-021 | | |
| AIMS 03-02-019 | ABS5324A 02 | 7050 | T7451 | BAMS/CMS 516-03 | MEP 02-014 | BMS 7-323 Type 1 and III |
| AIMS 03-02-021 | ABS5502A | 2618A | T851 | | | |
| AIMS 03-02-022 | ABS5323A | 7010 7050 | T7451 | | | |
| AIMS 03-02-023 | ABS5324B | 7040 | T7651 | | | |
| AIMS 03-02- 024/027 | ABS5218C, E | 7055 | T7951HDT | | | |
| AIMS 03-02-025 | ABS5236A | 7085 | T7651 | | | |
| AIMS 03-02-029 | ABS5323B | 7010 7050 | T7651 | BAMS/CMS 516-01 (7050) | | |
| AIMS 03-02-031 | ABS5480A | 2027 | T351 | | | |
| AIMS 03-02-032 | ABS5508A | 2124 | T851 | | | |
| AIMS 03-02-033 | ABS5117E | 7056 | T7951 | | | |
| AIMS 03-02-035 | ABS5032C | 2024A | T351 | | | |

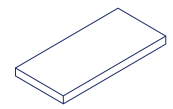


Aircraft Aluminium Sheets – Country Specific

| Country | Specification | Alloy | Temper |
|---------|---|-------------|------------|
| USA | AMS QQ-A-250/4 | 2024 Bare | T0, T3 |
| USA | AMS QQ-A-250/5 | 2024 Alclad | T0, T3 |
| USA | AMS 4025/4026/4027 (rep. AMS-QQ-A-250/11) | 6061 | T0, T4, T6 |
| USA | AMS QQ-A-250/12 | 7075 Bare | T0, T6 |
| USA | AMS QQ-A-250/13 | 7075 Alclad | T0, T6 |
| Germany | 3.1254 | 2014A | T4, T6 |
| Germany | 3.1354 | 2024 Bare | T0, T3 |
| Germany | 3.1364 | 2024 Alclad | T0, T3 |
| Germany | 3.3214 | 6061 | T0, T6 |
| Germany | 3.4364 | 7075 Bare | T6 |
| Germany | 3.4374 | 7075 Clad | T0, T6 |
| Germany | 3.4377 | 7475 Clad | T761 |
| UK | BSL163 | 2014A Clad | T3 |
| UK | BSL164/BSL166 | 2014A Clad | T0, F, T4 |
| UK | VSL165/BSL167 | 2014A Clad | T6 |

Aircraft Aluminium Sheets – Company Specific

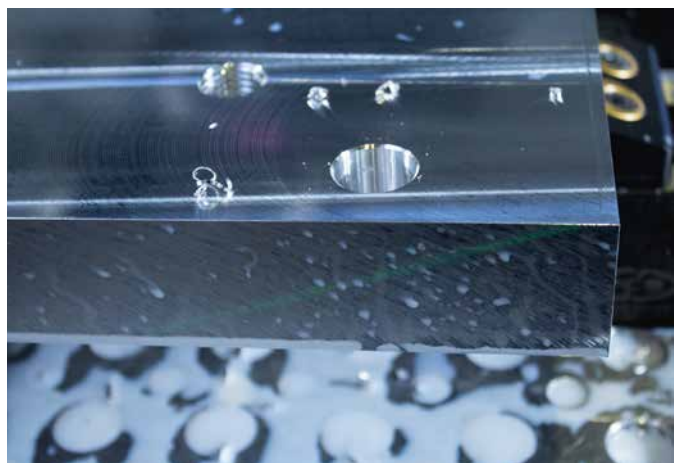
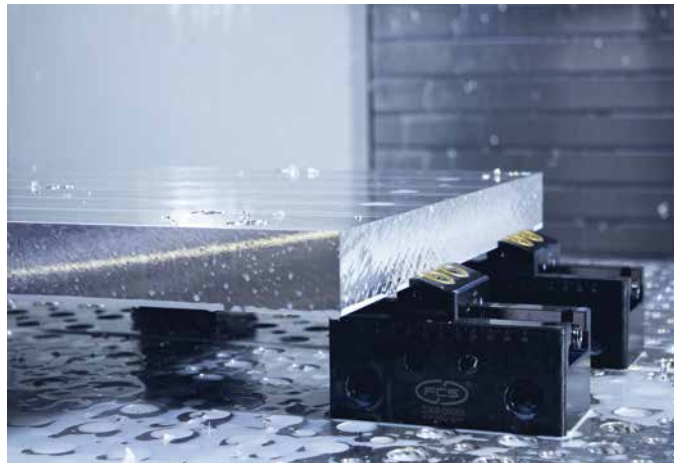
| Airbus | | | |
|---------------------------|---------------------------------------|-----------------|------------|
| Specification | ABS Specification (if applicable) | Alloy | Temper |
| ASN-A-3001/3046/3047 | | 6061 | T0, T4, T6 |
| ASN-A-3010/3045/3362/3373 | | 2024 Bare | T3, T351 |
| ASN-A-3012/3042/3374 | | 2024 Alclad | T3 |
| ASN-A-3043 | | 2618A | T62 |
| ASN-A-3044 | | 5056 | T0, H111 |
| ASN-A-3051 | | 7075 Alclad | T6 |
| ASN-A-3397 | | 7475 spf | T0 |
| ASN-A-3399 | | 5083 spf | T0 |
| AIMS 03-04-009/013A/022A | ABS5044A/ABS5043A/ABS5062A | 2024 Alclad cmq | T351 |
| AIMS 03-04-010/012A/023A | ABS5044B,C,H,G/ABS5043B, C/ABS5062D,C | 2024 Alclad | T0, F |
| AIMS 03-04-011A/014/031A | ABS5043D/ABS5044D/ABS5062B | 2024 Alclad | T3 |
| AIMS 03-04-016A | | 5083 spf | T0, F |

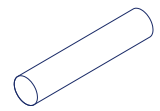


Aircraft Aluminium Sheets – Company Specific

| Airbus Specification | ABS Specification (if applicable) | Alloy | Temper |
|----------------------|-----------------------------------|----------------------|--------|
| AIMS 03-04-019A | ABS5128A | 7475 spf | T4 |
| AIMS 03-04-027A | ABS5126A | 6056 | T4 |
| AIMS 03-04-029A | ABS5077A | 7475 Alclad cmq | T761 |
| AIMS 03-04-030A | ABS5077D | 7475 Alclad | T0 |
| AIMS 03-04-034A | ABS5603A | 6013/6056 Alclad cmq | T4 |
| AIMS 03-04-036 | ABS5501 | 2618 Alclad | H28 |
| AIMS 03-04-038 | ABS5646A | 2024 Bare | T3 |
| AIMS 03-04-040A | ABS5603 | 6013/6156 | T4 |
| AIMS 03-04-041A | ABS5415 | 2219 cmq | T31 |
| AIMS 03-04-042 | ABS5452A, B | 6061 | T0, T4 |
| AIMS 03-04-045 | ABS5687 | 7475 | T761 |
| AIMS 03-04-047 | ABS5507 | 5086 | H111 |

We offer billet preparation and first stage machining.





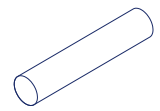
Aircraft Aluminium Bars

| Type / Form | Alloy | Temper | British Standard | US Federal | US Standard | AIMS / ABS |
|--------------------|-----------|------------|------------------|-----------------|-------------|---------------|
| Round and Flat Bar | 2014A | T6511 | L168 | | | |
| Round and Flat Bar | 2024 | T351 | | AMS-QQ-A-225/6 | AMS 4120 | |
| Round and Flat Bar | 2024 | T3511 | | AMS-QQ-A-200/3 | | |
| Flat Bar | 2026/2027 | T3511 | | | | AIMS-03-05-18 |
| Round and Flat Bar | 6061 | T6511 | | AMS-QQ-A-200/8 | | |
| Round and Flat Bar | 6061 | T651 | | AMS-QQ-A-225/8 | AMS 4117 | |
| Round and Flat Bar | 6082 | T6511 | L111 | | | |
| Round and Flat Bar | 7075 | T6511 | | AMS-QQ-A-200/11 | AMS 4167 | |
| Round and Flat Bar | 7075 | T651/T7351 | | AMS-QQ-A-225/9 | AMS 4124 | |
| Round and Flat Bar | 7050 | T74511 | | | AMS 4342 | ABS-5239A |
| Round and Flat Bar | 7175 | T73511 | | | AMS 4344 | |

Aircraft Steel Plate and Sheet

| Type / Form | British Standard | US Standard | Germany DIN | Similar Specification |
|-----------------|------------------|-------------|-------------|-----------------------|
| Stainless sheet | S527 | 5512 | 1.4546 | Type 347 |
| Stainless sheet | | 5510 | | Type 321 |
| Stainless sheet | | 5513 | | Type 304 |
| Stainless sheet | | 5517 | | Type 301 1/4 Hard |
| Stainless sheet | | 5518 | | Type 301 1/2 Hard |
| Stainless sheet | | 5519 | | Type 301 Fully Hard |
| Stainless sheet | | 5528 | | 17-7 PH |
| Stainless plate | | 5604 | | 17-4 PH |
| Stainless plate | | 5862 | | 15-5 PH |





Aircraft Steel Bar

| Type / Form | British Standard | US Standard AMS | Germany DIN | Grade | Similar Specification |
|--------------------------|------------------|-----------------|-------------|-------------|-----------------------|
| Alloy Round and Flat | | 6414 | | 4340 VAR | MIL-S-8844 |
| Alloy Round and Flat | | 6415 | | 4340AIRMELT | MIL-S-5000 |
| Stainless Round and Flat | | 5646 | 1.4546 | 347 | EN3487/QQS-763 |
| Stainless Round and Flat | S80 | 5628 | 1.4044 | | |
| Stainless Round and Flat | S130 | | 1.4550 | | |
| Stainless Round and Flat | | 5629 | 1.4534 | 13-8PH | |
| Stainless Round and Flat | | 5659 | 1.4545 | 15-5PH | ABS-5750 |
| Stainless Round and Flat | | 5643/5622 | 1.4542 | 17-4PH | |

Aircraft – Other Metals

| Yellow Metal | | | | | | |
|----------------------------|------------------|------------------|---------------------------------|------|------|----------------|
| Type and Form | British Standard | US Standard | Related / Similar Specification | | | |
| Aluminium Bronze | | | | | | |
| Round and Flat Bars | BS:B23 (DTD197A) | | CA104 | | | |
| Nickel Aluminium | | | | | | |
| Bronze Round and Flat Bars | | AMS 4640 | CA105 | | | |
| Titanium Products | | | | | | |
| Type | British Standard | US Standard AMS | Germany DIN | ABS | CODE | AIMS Reference |
| Grade 5 6AL-4V | | | | | | |
| Sheet | TA10-13 | AMS 4911 | 3.7164 | 5326 | A | 03-18-003 |
| | | | | 5326 | C | 03-18-004 |
| Plate | 2 TA56 | AMS4911 | 3.7164 | 5125 | A | 03-18-001 |
| | | AMS-T-9046 ABI | | 5125 | B | 03-18-006 |
| | | MIL-T-9046 ABI | | 5125 | C | 03-18-007 |
| Bar | 3TA11 | AMS 4928, 65, 67 | 3.7146 | 5453 | A | 03-18-010 |
| | | AMS6931 | | | | |
| | | AMS-T-9047 | | | | |
| | | MIL-T-9047G | | | | |

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Certified quality for Aerospace and Defence

BIKAR – Your partner for semi-fabricated products

- Short delivery times through extensive stocks of plates, sheets and bars
- One of the world's largest cutting centres for non-ferrous metals offering cut-to-size and just-in-time delivery
- More than 20 branches around the world
- CNC machining centres offering billet preparation and first stage machining
- Professional technical consultation and support by qualified employees

Certified – for your safety!

We are long term holders of both EN ISO 9001 and EN ISO 14001.

In recent years we have also been certified to EN 9100 and EN 9120 by the independent and renowned DEKRA testing organisation.



Bad Berleburg, Germany



Korbußen, Germany



Bristol, United Kingdom



Belagavi, India



Seremban, Malaysia

ALUMINIUM

TITANIUM

SUPER ALLOYS

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