

HENGYANG HUIJIE METAL MATERIALS

Aluminium materials & precision machining

Plate · Bar · Tube · Profile · Forgings · Cut-to-length · CNC

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🕒 Mon–Sat 08:30–18:00 (GMT+8)

🌐 English



Huijie Metal

ALUMINUM MATERIALS & PRECISION MACHINING



🏆 ISO 9001 certified partner mills (since 2014)

Aluminum Materials Supply & Precision Machining

Tube · Bar · Sheet & Plate · Coil · Profile · Forgings — to your drawing and temper

Precision tube Ø6–Ø75 mm, bar Ø6–Ø300 mm, sheet and plate 0.3–200 mm, coil and industrial profiles, forgings to Φ1200 mm — to GB/T, ASTM and EN standards, shipped from Chongqing on FOB / CIF terms.

[Browse products](#)

[Request a quote](#)

📦 Multi-base stock

✂ Same-day cutting response

📄 Mill certificates with shipment

🏆 Accepted to GB/T · ASTM · EN

📏 Cutting ±0.5 mm · machining ±0.02 mm

5

partner mills and
warehouses

20,000+

m² of partner-mill
plant and warehouse

25,000

tons annual supply
capacity

10+

alloy grades in stock

2014

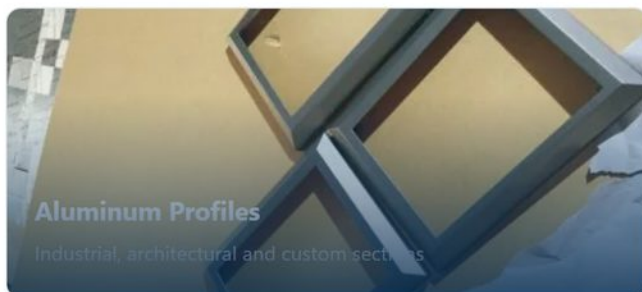
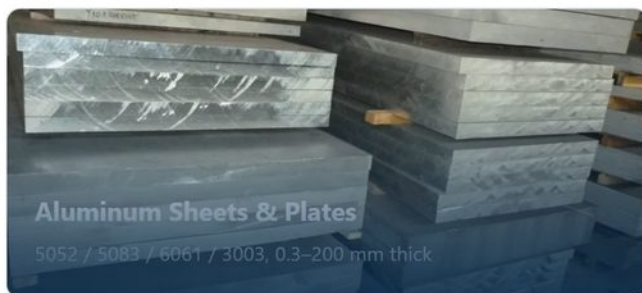
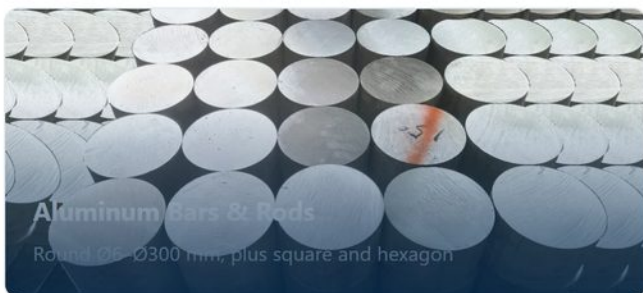
— partner mills
certified to ISO 9001
since

PRODUCT RANGE

Choose by form and application

Five material forms plus machining services — from cut-to-size blanks to finished parts

Five material forms plus machining services — from cut-to-size blanks to finished parts.



FEATURED

Stocked items and frequently quoted specs

These are the most requested directions; specifications are confirmed against your technical agreement.



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Product centre

Grades, tempers and sizes are confirmed against your drawing or technical agreement. The ranges below are our regular supply — contact us for anything outside them.

- Precision Aluminum Tubes
- Aluminum Forgings & Rings
- Aluminum Bars & Rods
- Aluminum Sheets & Plates
- Aluminum Coils
- Aluminum Profiles
- Cutting & Precision Machining

SMALL DIAMETER Ø6–
Ø75 MM; THICK WALL
TO Ø400 MM

Precision Aluminum Tubes

3 product lines



Stocked 6061 6063 3003

GB/T 6893 · ASTM B234 · EN 754

Precision Aluminum Tubes

Seamless and welded tube, OD Ø6–Ø75
mm, wall 0.5–5.0 mm

[View details →](#)



Stocked 6061 6082 6063

GB/T 6893 · ASTM B241 · EN 755

Thick-Wall & Structural Tube

OD Ø50–Ø400 mm, wall 5–60 mm for
pressure and structural use

[View details →](#)



6061 6063 6005A

GB/T 6892 · ASTM B221

Special-Section & Stepped Tube

Custom square, rectangular, multi-cavity
and stepped tube to drawing

[View details →](#)

DISCS, FLANGES,
BLOCKS AND RINGS UP
TO $\Phi 1200$ MM

Aluminum Forgings & Rings

1 product lines



6061

6082

5052

1060

YS/T 479 · ASTM B247

Aluminum Forgings & Rings

Open-die and closed-die forgings: discs,
flanges, blocks and rings up to $\Phi 1200$ mm

[View details →](#)

ROUND $\Phi 6$ – $\Phi 300$ MM,
PLUS SQUARE AND
HEXAGON

Aluminum Bars & Rods

1 product lines





Construction & façade

Typical needs: Large panels with weathering and coating requirements for façades and roofing

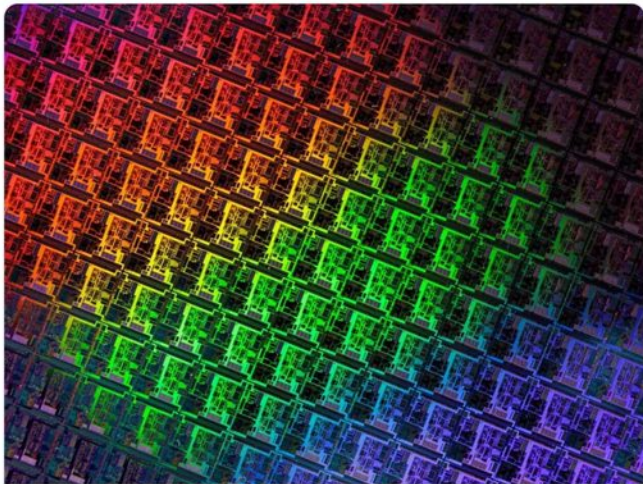
Common grades: 5052 / 3003 / 6063 / 6061



Transportation

Typical needs: Lightweight structures, bodies and chassis parts with consistent lots

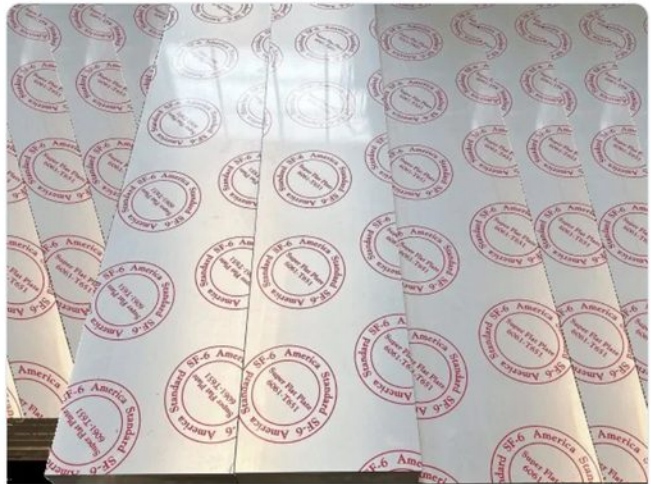
Common grades: 6061 / 6082 / 5052 / 5083



Electronics & semiconductor

Typical needs: Flatness, surface quality and cleanliness for precision machining and vacuum chambers

Common grades: 6061-T651 / 5052 / 5083 / 1060



Packaging & containers

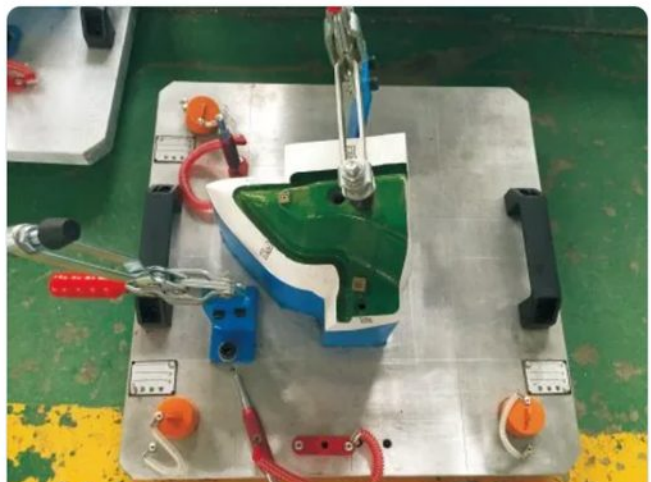
Typical needs: Thin gauges with deep-drawing and coating requirements at controlled cost

Common grades: 1050 / 1060 / 3003 / 5052



HVAC & heat exchange

Typical needs: Small-diameter and heat-exchange tube with uniform wall and round ends



Machinery & tooling

Typical needs: Bar, profile and tooling plate that machines easily and holds size

Common grades: 6061-T6 / 6063-T5 / 3003-H14

Common grades: 6061 / 6063 / 6082



Aerospace

Typical needs: High strength, low residual stress and dimensional stability for load-bearing and precision parts

Common grades: 7075 / 2A12 / 2A14 / 6061



Medical & healthcare

Typical needs: Clean, corrosion-resistant and anodisable for equipment and instrument structures

Common grades: 6061 / 5052 / 5083

These are regular selection guidelines; the final grade and temper should follow your drawing, service conditions and acceptance standard. We can help compare options.

Send a drawing or spec — we reply with a quote within 24 hours

Tell us grade, temper, size, quantity and application; we come back with the available range and lead time.

[Send inquiry](#)

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Insights

The questions we answer most often, written up so you can judge quickly.

2026-10

Export control: how the 1C202 threshold is judged

Both tests must be met at once — 460 MPa and over 75 mm OD — and "capable of" covers before and after heat treatment.

Item 1C202 of the Chinese dual-use export control list covers aluminium alloys capable of an ultimate tensile strength of 460 MPa or more at 20 °C that are tube with an outside diameter greater than 75 mm, or cylindrical solid bar including forgings. Both tests must be met at the same time: however strong the alloy, a bar of 75 mm OD or less stays outside the item, and however large the section, a strength below 460 MPa stays outside it too. The technical note is the part buyers miss — "capable of" applies both before and after heat treatment, so shipping in the annealed temper does not move the alloy out of scope. The equivalent threshold for titanium alloys is 900 MPa at the same dimensions. Everything listed on this site is civil-range material; we do not quote tube, bar or forgings that meet both conditions above.

2026-09

Which standard applies? GB/T, ASTM and EN at a glance

Plate: ASTM B209/B209M and EN 485-1. Bar: B221M and EN 755-1/-2. Forgings: B247M.

The same 6061 bar ships to GB/T 3191 in China, to EN 755-1 (supply conditions) with EN 755-2 (mechanical properties) in Europe, and to ASTM B221M in North America. Plate follows ASTM B209/B209M or EN 485-1; forgings and rolled rings follow ASTM B247M or YS/T 479; grade naming and chemical composition are set by EN 573, ANSI H35.1 and GB/T 3190 respectively, with separate standards for temper designation and dimensional tolerance. In practice "6061-T6" alone is rarely enough on a technical agreement: stating the standard, grade, temper, size and tolerance class gives both sides the same basis for inspection lots, retest rules and acceptance, and removes most of the back-and-forth. The table below maps common standards by product form; every number comes from the processing standards actually used in production.

2026-08

6061 or 6082 — which one?

Similar strength, but 6082 extrudes and anodises better for structural parts while 6061 welds and machines more predictably.

Mechanical properties are close (about 310 MPa tensile in T6), so the choice usually comes down to forming and finishing: 6082 extrudes better and anodises more attractively, which suits structural profiles, rail and automotive parts; 6061 offers more balanced weldability, machinability and lot consistency for machined parts, tooling and general structures. For visible anodised parts, prefer 6082; when the part is mostly machined, 6061 is the easier route.

2026-07

T6 vs T651 vs T6511

The difference is mainly how internal stress is relieved and which forms it suits — which drives distortion after machining.

T6 is solution heat treated and artificially aged. T651 adds a stretching step to relieve internal stress, so plate stays flat after machining — the usual choice for precision parts and vacuum chambers. T6511 is the equivalent stress-relieved temper for extruded bar and profile. Simply put: for stable machining choose the "1" tempers; for ordinary structures T6 is enough.

2026-06

How much cut-to-length saves

Moving cutting upstream cuts off-cut ratio and secondary freight costs.

Moving cutting upstream keeps off-cuts and secondary freight with us. Taking a 1220×2440 sheet cut into several parts as an example, nesting to your drawing typically lifts material utilisation by a few percentage points and frees your own cutting equipment and labour. Send the cutting list with your enquiry and we quote on the nested material.

2026-05

Export packing and documents

Aluminum dislikes scratches, moisture and pressure; crating and complete documents decide the delivery

Aluminum dislikes scratches, moisture and pressure: sheet needs film or interleaving paper, tube and bar must be bundled and restrained, and sea freight benefits from moisture protection and ventilation. On documents, the mill certificate, packing list and shipping marks must agree, and any certificate of origin or third-party inspection required by the destination country should be confirmed in advance rather than at the port.

INSIGHTS

Reference standards by product form

Form	China	International
Plate & sheet	GB/T 3880.1~.3	ASTM B209/B209M · EN 485-1
Extruded bar & rod	GB/T 3191	ASTM B221M · EN 755-1/-2
Extruded profile	GB/T 6892	EN 755-1/-2
Seamless tube	GB/T 6893 · GB/T 4437.1	ASTM B241/B241M · EN 754-1
Welded tube	GB/T 4437.2	ASTM B221M
Forgings & rings	YS/T 479 · GB/T 32249	ASTM B247M
Grades & chemistry	GB/T 3190	EN 573 · ANSI H35.1
Dimensional tolerance	GB/T 14846	EN 485-3 · EN 755-3~-9
Temper designation	GB/T 16475	ANSI H35.1 · ISO 2107



Frequently asked questions

The questions we are asked before an enquiry; anything not covered here, just ask.

What do you need to prepare a quotation?

Grade and temper, sizes (thickness, OD, wall, length), quantity, application or drawing, destination and trade term. A drawing or cutting list can come straight to us and we quote on the nested material.

– **What is the minimum order quantity?**

Stock and cut-to-size items start from a single piece or sheet. Where a mill production run is needed, the minimum is set by alloy and size and confirmed in the quotation.

– **What are typical lead times?**

Regular stock and cut-to-size material usually ships within 3–7 days; CNC parts take 1–3 weeks after first-article approval; mill production follows the rolling schedule, with the firm date stated in the order confirmation.

– **What trade and payment terms apply?**

Quotations can be issued EXW, FOB or CIF. Payment terms are agreed in the order confirmation; regular export orders are handled by T/T or L/C.

– **Which quality documents come with the goods?**

Mill test certificate covering chemistry and mechanical properties, dimensional and visual inspection records, packing list and shipping mark data. Third-party inspection such as SGS or BV can be arranged in advance.

– **Can you cut and machine to drawing?**

Yes. Plate is nested and cut to drawing, bar and tube are cut to length with finished ends, and machined parts are held from ± 0.02 mm to drawing with first-article approval before a production run.

– **How are export orders packed?**

Sheet is filmed or interleaved on crates and pallets, tube and bar are bundled with moisture protection, and every package carries the agreed shipping marks; reinforcement follows destination requirements.

– **Is any of this subject to export control?**

Everything listed here is regular civil-use aluminium. Under item 1C202 of the Chinese dual-use export control list, an aluminium alloy is controlled when it is capable of an ultimate tensile strength of 460 MPa or more at 20 °C and is tube or cylindrical solid bar (including forgings) with an outside diameter greater than 75 mm. The technical note is explicit that "capable of" covers the alloy both before and after heat treatment, so shipping in the annealed temper does not move it out of scope. We do not quote such items through this website.

Send a drawing or spec — we reply with a quote within 24 hours

Tell us grade, temper, size, quantity and application; we come back with the available range and lead time.

[Send inquiry](#)



Huijie Metal

ALUMINUM MATERIALS & PRECISION MACHINING

Huijie Metal: an aluminum supplier and processor in Xipeng, Chongqing, offering plate, bar, tube, profile, forgings and cut-to-length / CNC services.

This website lists regular civil-use aluminum only. Controlled items are not offered and related enquiries are not accepted.

Quick links

- Applications
- Capability
- Quality & Compliance
- About Us

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Products

- Precision Aluminum Tubes
- Thick-Wall & Structural Tube
- Special-Section & Stepped Tube
- Aluminum Bars & Rods
- Aluminum Sheets & Plates
- Aluminum Coils
- Aluminum Extrusion Profiles
- Aluminum Forgings & Rings
- Cut-to-Length & Blanking
- CNC Precision Machining

Contact

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Home / Contact us

Contact us

Send grade, temper, size, quantity and application; the quotation will state the available range and lead time.

CONTACT DETAILS

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If WhatsApp does not open in your region, please use email or phone instead.



ADDRESS

Xipeng Town, Jiulongpo District, Chongqing, China



WORKING HOURS

Mon-Sat 08:30-18:00 (GMT+8)

Helpful when enquiring: alloy / temper, sizes (thickness, OD, wall, length), quantity, application or drawing, destination and trade term.

Inquiry form

Name

Company

Email

Phone / WhatsApp

Product interest

Country / region

Select a product category



Quantity

e.g. 10 pcs / 2 tons

Requirement

e.g. 6061-T651 plate, 20 × 1220 × 2440 mm, 10 pcs, for vacuum chamber machining

Send inquiry

We use your information only to answer this enquiry; we normally reply within 24 hours, Mon-Sat (GMT+8).

Send a drawing or spec — we reply with a quote within 24 hours

Tell us grade, temper, size, quantity and application; we come back with the available range and lead time.

Thirteen languages / 13 languages

English · 中文 · Deutsch · Français · Español · Português

Русский · العربية · Türkçe · 日本語 · ភាសាខ្មែរ · Tiếng Việt · Italiano

Standards: GB/T · ASTM · EN · JIS Supply chain certified to ISO 9001

Civil-use aluminium only — item 1C202 controlled items are not offered.

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