

MechSpade

PRECISION CNC MACHINING

Custom parts. From prototype to production.



YOUR PARTNER IN PRECISION

Founded in 2013 and based in Zhejiang, China, MechSpade provides custom CNC precision machining services for customers, from single-piece prototypes to batch production.

Our capabilities include CNC manufacturing, milling and turning, with 3-, 4- and 5-axis machining for a wide range of metals and engineering plastics, supported by surface finishing and assembly services. We serve customers in the home appliance, industrial automation, instrumentation and medical equipment sectors, producing custom components to their drawings and specifications.

With an ISO-certified quality management system, we focus on quality control throughout production and inspection. Through clear communication and careful review of each project's requirements, we help customers move their designs into production. Send us your drawings to discuss your project and request a quotation.



CNC machining

A wide range of milling and turning capabilities.



Flexible quantities

From single parts to production batches.



Coordinated service

CNC machining, materials and finishing in one service.

BUILT AROUND
YOUR DRAWING



CNC MILLING

3-, 4- & 5-axis machining

Custom pockets, profiles and multi-face features.

CNC TURNING

Precision rotational components

Custom shafts, sleeves and flanges.

ADDITIONAL MACHINING

Horizontal & gantry machining

For larger and more complex parts.

MACHINING CAPACITY

MILLING ENVELOPE

X	< 1,000 mm
Y	< 500 mm
Z	< 600 mm

TURNING CAPACITY

Diameter	< 500 mm
Length	< 500 mm
Part feasibility is confirmed after drawing review.	

0.01 mm

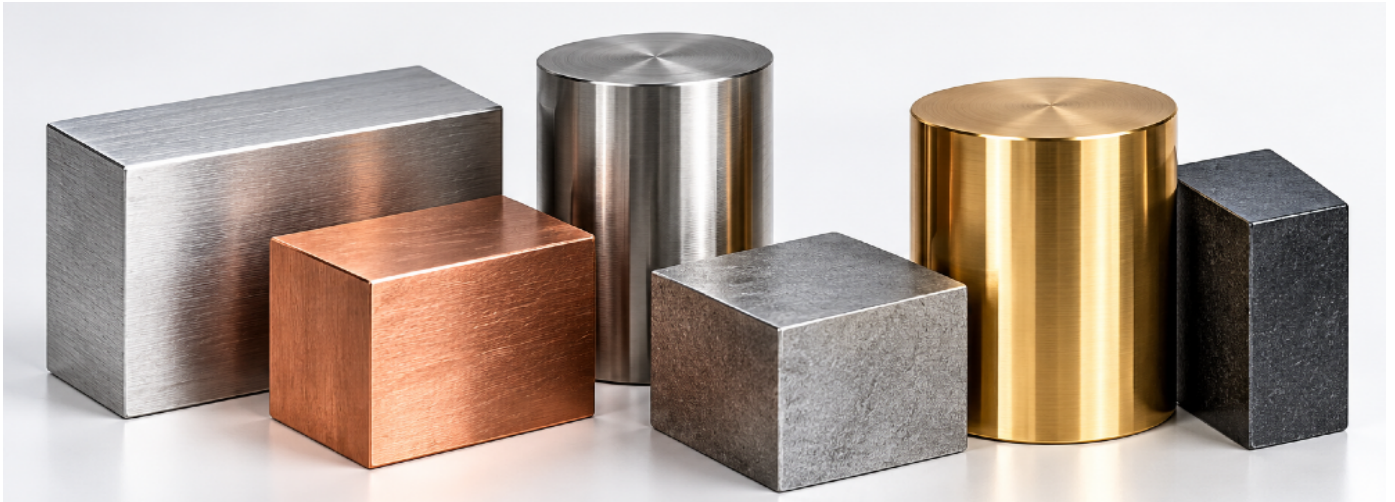
REFERENCE MACHINING TOLERANCE

Partner-reported capability. Subject to drawing, material and process review.

Single-piece orders & batch production

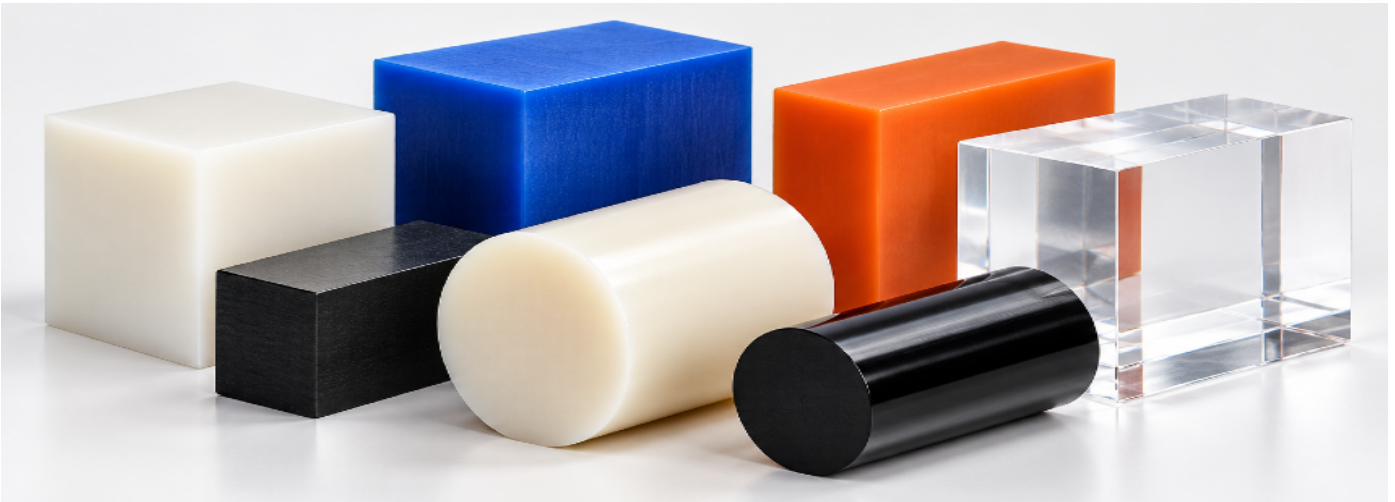
Quote from your 3D files and drawings.

THE RIGHT MATERIAL FOR YOUR PART



METALS

Aluminum · Stainless steel · Carbon steel · Copper · Brass · Titanium · Tool steel · Alloy steel



ENGINEERING PLASTICS

ABS · PC · POM · PA · PEEK · PMMA · PTFE

Material selection matched to your drawing and application.

FUNCTION. FINISH. DETAIL.



Sandblasting
Hard anodizing
Painting
Heat treatment

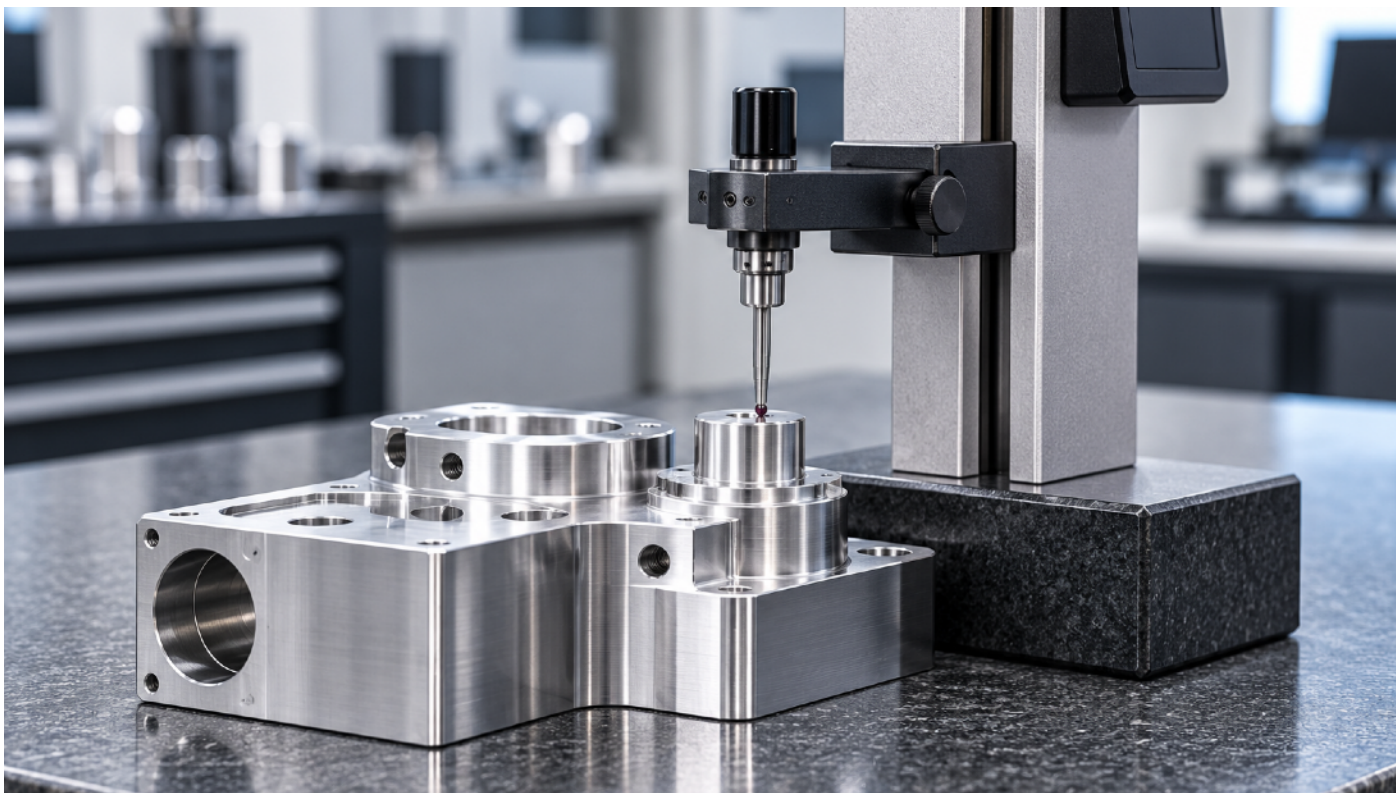
Anodizing
Electroplating
Polishing



ADDITIONAL CAPABILITIES

Sheet metal · Injection molding · Assembly

QUALITY IN THE DETAILS



Dimensional checks

Verify key dimensions against your drawings.



Surface roughness

Review specified surface requirements.



Hardness testing

Check material properties as required.

Inspection requirements are reviewed against your drawings and specifications.

Equipment: height gauge, surface roughness tester, hardness tester.

FROM FILE TO FINISHED PART

01

Share drawings

Send 3D files and drawings with material, quantity and finishing requirements.

02

Review & quotation

We review your requirements and provide a quotation.

03

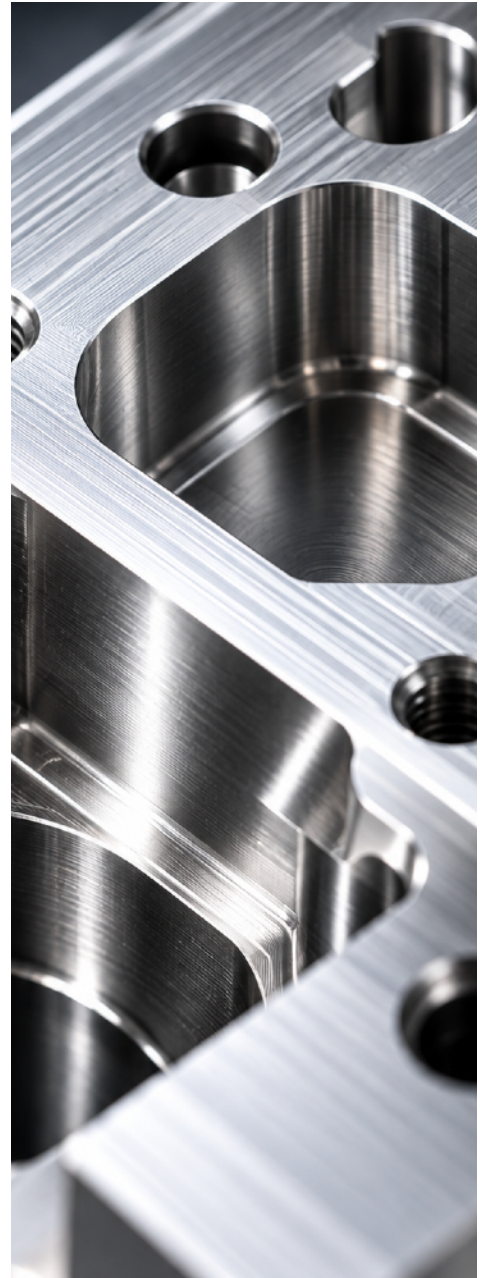
Confirm & manufacture

Confirm the order and start manufacturing with our partner.

04

Inspect & deliver

Parts are inspected to agreed requirements and prepared for delivery.



MOQ: 1 piece

Prototype & batch production



SUPPORTED FILE FORMATS

STEP / STP / IGES

SolidWorks / AutoCAD / PDF

LET'S MAKE YOUR NEXT PART.

Send your drawings, material, quantity
and finishing requirements.

REQUEST A QUOTE

[Your email] | [Your website]

