

Custom Precision Manufacture Expert

定制化精密制造专家

Shenzhen Mai Sheng Technology Co Ltd.

公司宣传手册

COMPANY BROCHURE

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深圳市迈晟科技有限公司

Shenzhen Mai Sheng technology Co., LTD

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ABOUT US



Company Profile

MS company is located in Shenzhen, specializing in precision machining mechanical parts from small to mass quantities. We are a dynamic team of highly experienced professionals with a collective industry experience of over 6 years each. Immersed by the freshness of serving different projects and new designs, we are happy to challenge difficult projects and help customers solve the problems of production.

Core Value

Integrity Beyond Win-Win

Mission

Consistently exceed customer expectations and deliver innovative solutions

Vision

Be the industry leader driving advancements in machining technology

Strength

Quoting efficiency: expert engineer quotes as fast as **1 hour**

Competitive pricing: better than **70%** of competitors

Excellent technology: dare to challenge difficult projects that **90%** of competitors are afraid to do

After-sales complain rate: lower than **3.2%**

On-time delivery rate: **90%**

OUR SERVICE



CNC Machining

Flexibility

Big 5-axis available

Max. Machining Travel

3-axis 2500mm, 5-axis 1250mm

Tight Tolerances

Dimension Tolerance $\pm 0.005\text{mm}$
GD& T tolerance tight to 0.01mm

Roughness

CNC machined: Ra0.4 Turning: Ra0.2
Polished: Ra0.1

Min. Radius For Optical Detail

R0.02mm



CNC Turn-Mill

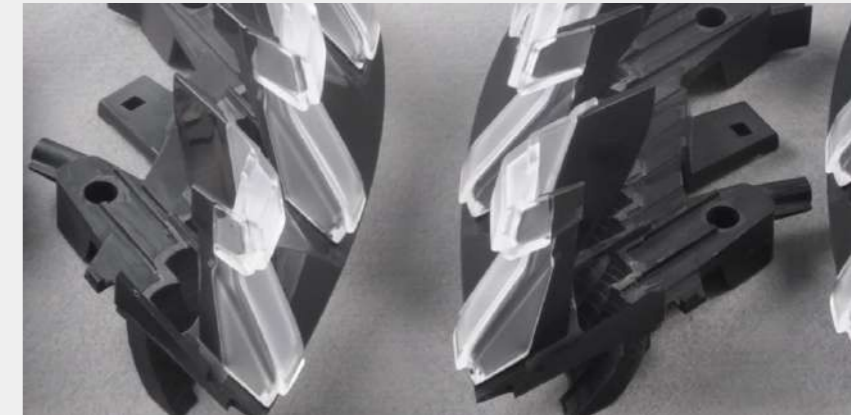
For parts that can't be machined in one set up by turning, we will use the turn-mill process to reduce set up times, deformation, matching tight tolerances, and avoid scratches to achieve better surface roughness.

Vacuum casting

Available for special materials include Nylon-like, POM-like, High temperature resistance and Flame-retardant materials.

Shrinkage and deformation controlled within 3%

Experienced in over-mold, 2K, 3K mold technologies.



CASE STUDY



1

Part Size: 400x150x180mm

Material: AL7075

Challenge:

- Tight tolerance 0.01mm.
- Easy deformed structure.
- No scratch allowed.

MS achievements : Before machining, we did aging treatment. Then complete all precise dimensions and screw holes by one set up on 5-axis machine. All pieces have perfect machine finish after machining.



2

Part size: $\Phi 290 \times 1700$ mm

Material: AL6061

Challenge:

- Long tube structure.
- Concentricity tolerance of two end holes required 0.03mm.
- Total 1653 H7 holes and thread holes around the side.
- Hard anodize finish.

MS achievements: We started our process with turning the outer shape and middle through hole. After leaving allowance for two end holes, we did finishing machining on 4-axis machine but also left allowance for hard anodize. A plastic rotor jig was designed to protect the outer surface. As for side holes, we machined with custom special reamer and tap before applying hard anodize to ensure qualified dimensions.



CASE STUDY



3

Part size: 420x423x47mm/ 300x250x45mm

Material:POM

Challenge:

- Large size.
- Hollowed out in the center with little support structure.
- Center positioning holes required +/-0.03mm tolerance.

MS achievements:ts a headache problem to control deformation when machining engineering plastics. We use metalworking to process plastic and develop specialized programming to control deformation. The finished part achieved +/-0.03mm tolerance, and overall deflection is only 0.15mm.



4

Part size: Φ 30x289mm/ Φ 4x8mm

Challenge:

- The left part bore shape matches the profile with a deep hole.
- The right part is too small. It has threads, teeth, and holes with only 0.3 and 0.5 in diameter.

Mai Sheng: It' s one of our expertise to design tools and processing for small holes, long holes and irregular holes. Our turning-milling combined technique can match batch production of these parts well.