



# IDEAL

MANUFACTURING SOLUTIONS  
PROTOTYPE & PRODUCTION

## MANUFACTURING SUPPORT

FROM PROTOTYPE TO PRODUCTION

- Rapid CNC Machining
- Rapid Prototypes & 3D Printing
- Rapid Tooling
- Rapid Sheet Metal Work
- Rapid Die Casting
- Rapid Vacuum Casting
- Rapid Sheet Metal Work
- Rapid Die Casting

# Overview



IDEAL helps Inventors, start ups, and major brands partner with us to develop their new innovative products. We specializes in build-to-order custom manufactured plastic and metal parts to a variety of markets, including medical, aerospace & defense, automotive, appliances, energy, oil & gas, and consumer products.

We provides multiple manufacturing processes include both advanced 3D Printing/additive manufacturing processes, along with more traditional methods like silicone molding, CNC machining, sheet metal, and injection molding.

Office Shenzhen

**Dazhongtao Industrial Park, Shajing, Bao'an district, Shenzhen, China**

Office Hongkong

**Room 1508, Aran Center Office Seond Phase 15, Nathan Road 625, Kowloon, HongKong**

# Technologies



**3D Printing**



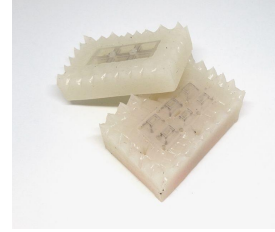
**CNC PLASTIC**



**CNC METAL**



**SHEET METAL**



**VACUUM CASTING**



**RAPID MOLDING**



**FIXTURE**



**POST PROCESSING**



**EXTRUSION**



**CNC TURNING**



**EDM**



**WELDING**

# Why us



## COST EFFECTIVE SOLUTIONS

We help you optimize the production process and provide you with all our knowledge to achieve more efficient production. Technical Team understand material properties, processing technology and engineering testing, providing cost effective solution.



## PROJECT TRACKING

We have personalized and comprehensive tracking for each project. Our rich experience in industry and product development gives our customers a huge advantage.



## QUALITY INSPECTION

In order to ensure the quality of the products delivered, we follow the double inspection method to check your order before you leave the factory and when you arrive at our office overseas. We provide full dimensional inspection reports on request.



## FAST TURNAROUND

Complete prototype budget within 24 hours, prototype within 7 days, short series within 2 weeks, injection molding within 20 days.

# Materials Available

## Available Aluminum Varieties

Aluminum 5052  
Aluminum 7075  
Aluminum 7075-T6  
Aluminum 6063-T5  
Aluminum 6061-T6  
Aluminum 7050-T7451  
Aluminum MIC-6  
Aluminum 2024-T3  
Aluminum 6082  
Aluminum 5083

## Available Brass Varieties

Brass C360  
Brass 260  
Cooper C101  
Copper C110

## Available Zinc Varieties

Zinc Sheet Alloy

## Available Steel Varieties

Alloy Steel 4130  
Alloy Steel 4140  
ASTM A36  
Stainless Steel 15-5  
Stainless Steel 17-4  
Stainless Steel 18-8  
Stainless Steel 303  
Stainless Steel 304  
Stainless Steel 316/316L  
Stainless Steel 416  
Stainless Steel 420  
Mild Steel 1018  
Mild Steel A36  
Mild Steel 1045  
Tool Steel O1  
Tool Steel A2  
Tool Steel D3

## Available Plastic Varieties

ABS - (Natural / Black / White)  
ABS / PC Blend  
PC - (Clear / Black)  
Acrylic - (Clear / Black)  
PA / Nylon - (Natural / Black / 30%GF)  
PP - (Natural / Black / 20% GF)  
POM / Delrin - (Black / White)  
PVC  
HDPE  
PEEK  
PEI / Ultem  
Bakelite Resin  
Epoxy Tooling Board  
PTFE(Teflon)

## Available Vacuum Casting Varieties:

Hei Cast 8150 - ABS Similar  
Hei Cast 8570 - PP&PE Similar  
Hei Cast 8263 - UL94-V0 Similar  
Axson UPS 8400 - Rubber Similar  
Axson PX 223/HT ABS Similar  
Axson PX5210 - PMMA Similar  
Axson PX527 - PC Similar

# Finishing



**PAINTING**



**ANODIZING**



**OVER MOLDING**



**BRUSHING**



**SILK SCREENING**



**ELECTROPLATING**



**POWDER COATING**



**LASER ENGRAVING**



**SAND BLASTING**



**ZINC PLATING**



**WATER TRANSFER**



**POLISHING**

# Industry



**ELECTRONICS**



**MEDICAL**



**AUTOMOTIVE**



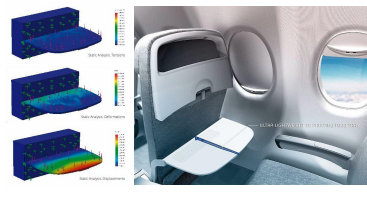
**COMERCIO**



**HOUSEHOLD**



**RENEWABLE ENERGY**



**AVIATION**



**IDEAL Vision - together we can accomplish anything.**

To grow and continue to be a trusted partner and solution provider for our clients. To treat our customers and employees with the utmost respect and understanding. To be the leader in our industry globally.

**“Customers and employees, take care of both and everything else takes care of itself.”**

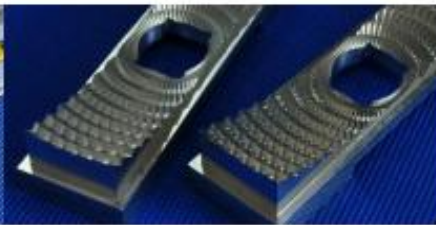
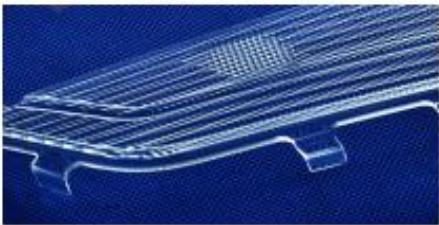
**IDEAL Mission - enable our customers to be leaders in their industries.**

To deliver project success to our customers with each and every project. Fuse western business values of honesty, integrity and trust with Chinese values of family, industry and hard work. Continue to invest in infrastructure, technology and people.

**“IDEAL’s daily goal is exceed customers expectation with flexible, value for money manufacturing solutions.**



# ShowCase



# Quality Control



Quote Number: \_\_\_\_\_

Inspector: \_\_\_\_\_

To ensure the quality of your manufactured parts, a inspection technician has conducted the following checks for your order:

1. The quantity of parts is in agreement with the amount specified on the PO.
2. All part dimensions are in accordance with the supplied technical drawing and CAD model.
3. All parts have had sharp edges and burrs removed.
4. All thread holes are accounted for and tapped as per technical drawings or indicated on the PO.
5. All tolerance are within specification as per the technical drawings or indicated on the PO.
6. All surface finishing have applied and a consistent and free of any chips and scratches.
7. Relevant QA/QC documentation is included with the order.
8. All parts are correctly packed to ensure parts are not damaged while in transit.

# Work Flow

