Ruitai Mold Technology Co.,Ltd

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A Professional manufacturer of rapid prototype and mass production!

Introduction

Ruitai mold established in 2004, located in Songgang Town Bao'an District, Shenzhen, China, with 5,000square meters industrial zone, which is close to the airport, with first-class professional prototyping and molding services to a wide range of industry

With 15 year's experience using and developing this technology, our in-house experts at Ruitai Mold are available to advise you on any aspect of prototyping and batch manufacturing to ensure that the highest quality parts are supplied.

Prototype / Inejection Mold Service Procedure

1. Signed NDA
2. 3D/2D files quote
3. Check production specifications & offer advice
4. Send quotations
5. Reach an agreement and confirm final quotation
6. Clients send PO to us
7. 7x24 processing production
8. Quality Control
9. Samples confirmation and blance payment down
10. Delivery with official DHL ,UPS,FEDEX,TNT...
11. Mass Production (Mold)

Business Scope

- ✯Concept Design and Engineering
- ✯3D Print（SLA/SLS）
- ✯CNC prototype(plastic/Aluminum/stainless steel and other metal materials)
- ✯Metal small batch production
- ✯Mass production(Die casting/Injection molding/stamping etc)

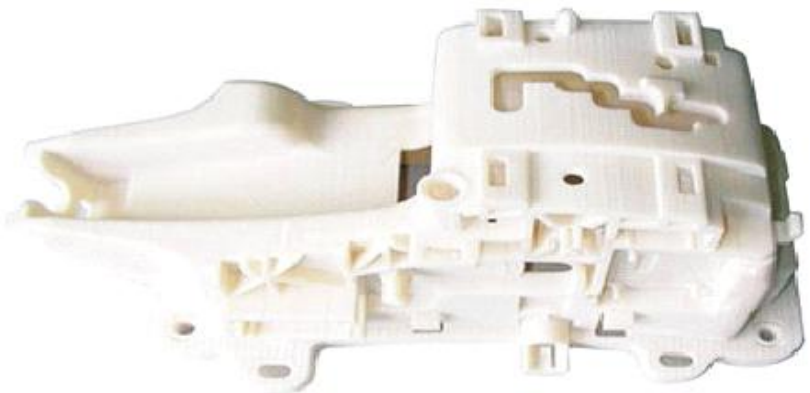
IATF-16949:2016

SGS

ROHS

3D Print （SLA/SLS)

- 3D printingThe design process of 3D printing: firstly use software to build a model, and then split the 3D model to a layer-by-layer cross-section, ie, slicing, so as to guide the printer to print layer by layer.
- Ruitai mold became one of the pioneers of 3D printing technology in China introducing our first SLA machine in 2005.
- Build Envelope:600x600x300mm
- Resolution:±0.05mm
- Materials:EP06,Somos,Nylon,SS,Aluminum Alloy,Titinum Alloy.
- Advantage:High Speed/High Precision
- Complex Geometries/Material Reduction Options
- Both Comestic and Structural Parts



CNC prototype(plastic/Aluminum/stainless steel and other metal materials)

Ruitai mold have powerful manufacturing capability, our automatic lathes, CNC lathes, CNC machining centers, stamping machines and cold heading machines plus auxiliary equipment like milling machine, grinding machine, EDM and the cooperation of our partners, we are able to support every different components regardless of the prototyping or series production.

Plastic materilas:ABS,PC, PMMA, PP, PA, POM, Wood,PVC,Teflon etc,(highly polish,painting,silk screen, chrome plated)

Stainless Steel: SS201,301, 304, 316, 17-4PH, SS303, SSs304, SS316 etc. (Polishing Plating Sandblasting Laser engraving)

Steel: Q235, 20#, 45# 40cr 416Stainless iron etc. (Blackened, Zinc/Nickel/Chrome plating, Carburized Hot treatment)

Aluminum: Q235, 20#, 45# 40cr 416Stainless iron etc. (Natural/Hard anodize, Powder coating, Sandblasting, Plating Brushing, Polishing, Laser engraving)

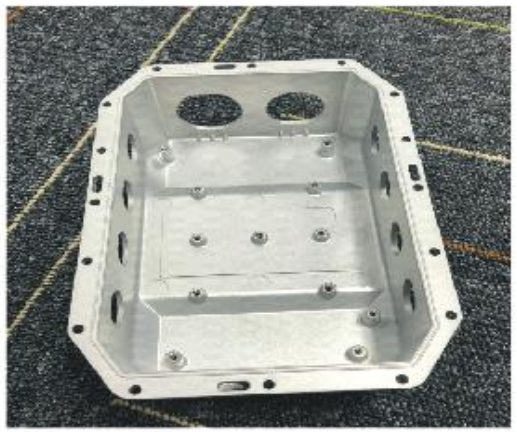
Equipment	Aluminum	Steel	Brass
CNC Machining Center			
CNC Lathing/Turning			
Wire EDM			
Cast Forging			

Metal small batch production

- If the quantity less than 500 sets,Ruitai mold can provide small batch production for Metal materials,you can choose from Aluminum(with all series);Stainless steel(with all series);copper and brass etc
- Advantage:short production time
- Economic
- Good flexibility

Mass production(Die casting/Injection molding/ Stamping etc)

Ruitai Mold provides low volume injection molding and rapid tooling(injection molding) as your requirements within 2-3 weeks. You can get your complex and intricate parts faster by rapid tooling. We deliver prototype and short run injection molding with engineering-grade thermoplastic in short time and can meet plastic injection needs from 10-100,000 pcs, with molding pressure ranging from 7 to 1600 tons.



RAPID TOOLING: soft steel (such as P20) and aluminum (such as 7075 T 6 aerospace grade aluminum) which lowers cost as it can be machined 15%-30% faster than hard steel mold, also in a lighter weight. With easy temperature control allowing faster cycle times and the ability of removing the plastic parts at lower temperatures resulting in less product distortion.

Die Casting

Die Casting is the go to option for manufacturing aluminum, zinc and magnesium parts in volume. Our engineering team are highly experienced with the productionof die cast parts and will be able to assist you throughout the entire process. We also offer tool design, drawing and validation services to help prior to production.

stamping

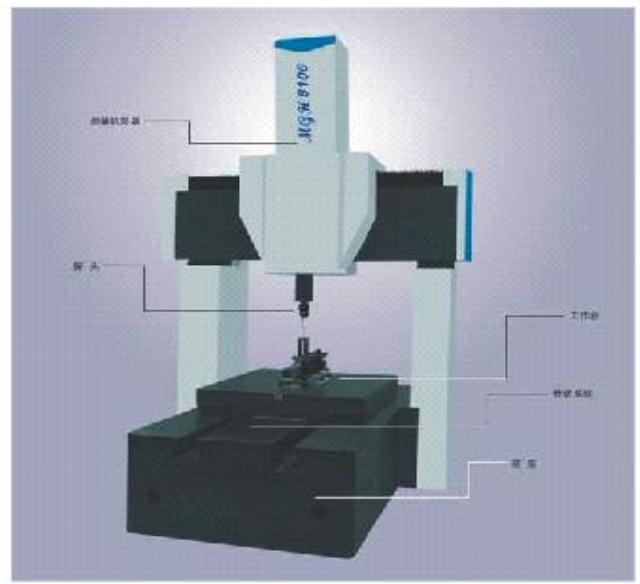
Stamping is a forming method which relies on the press and die to exert external forces on plates, strips, pipes and profiles to produce plastic deformation or separation, so as to obtain the desired shape and size of the workpiece (stamping parts). Compared with castings and forgings, stamping parts have the characteristics of thin, uniform, light and strong. Stamping can produce workpieces with ribs, ribs, undulation or flanging that are difficult to be manufactured by other methods to improve their rigidity.

3D Quality Checking

- Quality Control is a team effort . Each process and part is inspected several times throughout its journey to ensure you get the quality parts your project deserves.
- Quality: we had < 2.8 issue rate in 2016.
- Timing: 98% shipped on time.
- Ruitai do 3 stage QA/QC process to ensure quality and consistency with every part we produce.

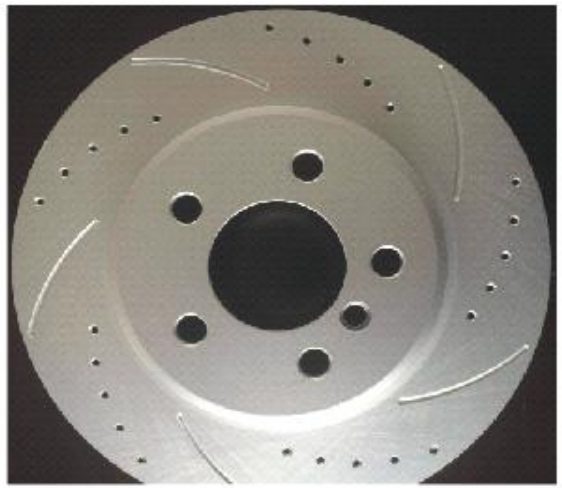
  1.PRE-PRODUCTION - process, supplier and material audits to ensure all meet with or exceed specification and certification.

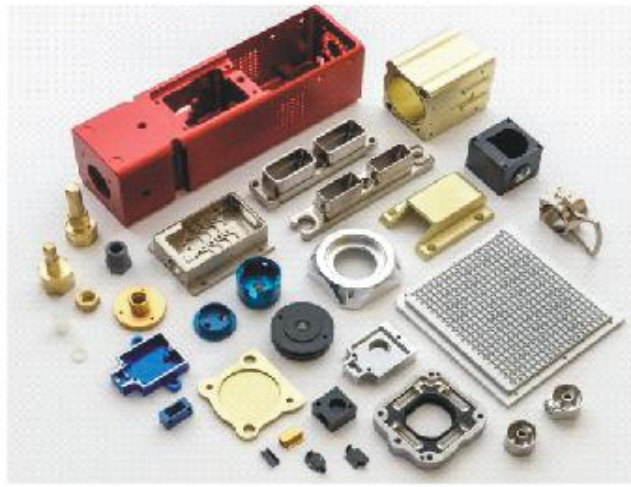
- 2.PRODUCTION - From programming right through to finishing, we inspect every part after each stage of the fabrication process.
- 3.POST PRODUCTION - ISO certified quality control processes carried out by highly trained engineers. Additional tolerance and aesthetic checks are performed just before packing.



Surface treatment

- The surface treatment process can be divided into four aspects:
- 1. Mechanical surface treatment: sandblasting, shot blasting, polishing, brushing, spraying, painting, oiling.
- 2. Chemical surface treatment: bluing and blackening, phosphating, pickling, electroless plating of various metals and alloys, TD treatment, QPQ treatment, chemical oxidation.
- 3. Electrochemical surface treatment: anodizing, electrochemical polishing, electroplating.
- 4. Modern surface treatment: chemical vapor deposition CVD, physical vapor deposition PVD, ion implantation, ion plating, laser surface treatment.





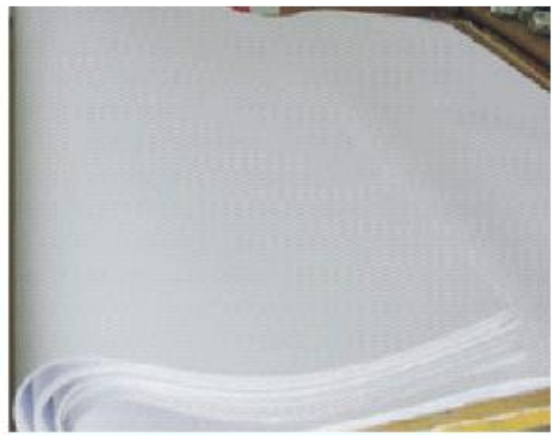
Before Delivery

1.Finaly photos and video to clients
2.CMM test reports
3.Good protection on the package
4.Best shipping methods

1	22.50	0.10	0.10	22.510	22.560	22.520						CMM
2	¤12.7	0.00	0.01/0.05	12.690	12.700	12.680						CMM
3	¤11.7	0.050	0.000	11.740	11.750	11.740						PG
4	23.30	0.100	0.100	23.350	23.360	23.400						CMM
5	24.30	0.100	0.100	24.370	24.360	24.350						CMM
6	¤21	0.100	0.100	21.000	21.000	21.000						PG
7	¤23	0.000	0.013	23.000	22.980	23.000						CMM
8	0.05			0.035	0.040	0.042						CMM
9	25.45	0.200	0.200	25.448	25.445	25.460						CMM
10	6.57	0.20	0.20	6.581	6.583	6.590						CMM
11	8.25	0.200	0.200	8.827	8.810	8.812						CMM
12	22.70	0.200	0.200	21.983	21.960	21.985						CMM
13	19.79	0.200	0.200	19.781	19.780	19.788						CMM
14	30.29	0.100	0.120	30.300	30.280	30.290						CMM
15	8.80	0.200	0.200	8.817	8.820	8.820						CMM
16	19.50	0.10	0.12	19.514	19.320	19.310						CMM
17	39.10	0.00	0.00	38.988	38.958	38.965						CMM
18	35.30	0.100	0.100	35.300	35.290	35.295						CMM
19	¤2.9	0.100	0.100	2.900	2.900	2.900						PG
20	¤2.9	0.100	0.100	2.900	2.900	2.900						PG
21	22.05	0.200	0.200	22.090	22.060	22.080						CMM

Step 1:Approved by CMM test

Step 2:white gloves

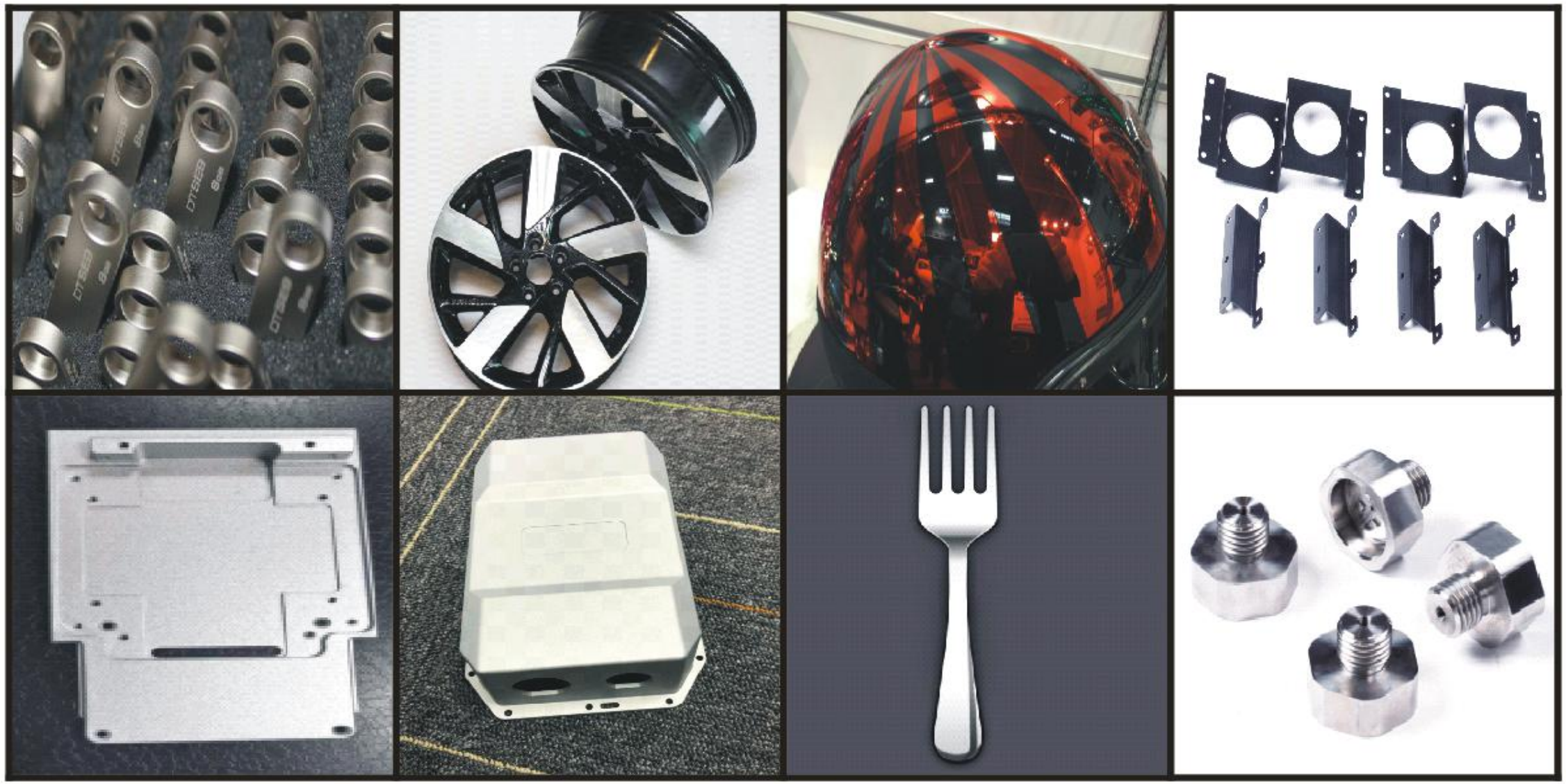


Step 3:White papers

Step 4:Soft foams

Step 5:Wood or carton package

Product show



To be continued--We make cools things for you!

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