



Precision Measuring Device Prototype Machining Services For Custom Parts Manufacturing

Basic Information

- Place of Origin:
- Brand Name: Measuring device Prototype
- Certification:
- Polishing, Anodizing, Painting, Chrome Plating,

ABS, PC, PMMA, POM, PA, PTFE, PEEK

China Shenzhen

Silkscreen

1 piece

5 - 8 work days

1 piece per day

- Model Number:
- Minimum Order Quantity:
- Price:
- USD 30 piece Carton, Plywood Box • Packaging Details:
- Delivery Time:
- Payment Terms: T/T, Paypla
- Supply Ability:



Product Specification

 Units Of Measurement: 	Mm/inch
 Accuracy: 	0.01mm
 Measurement Range: 	0-100mm
 Material: 	Plastic
Operating Temperature:	0-40 Degrees Celsius
Color:	White
Weight:	1 Pound
 Storage Temperature: 	Measuring Device Prototype
Highlight:	precision measuring device p

e prototype, precision prototype machining services, custom measuring device prototype



Product Description

CNC milling services play a crucial role in manufacturing custom parts with precision and accuracy. By utilizing advanced CNC milling machines, such as 3-axis, 4-axis, and 5-axis machines, you can create parts of various shapes and sizes from both plastic and metal materials.

Investing in machines from reputable manufacturers in the United States and Japan demonstrates a commitment to quality and reliability. These machines are known for their advanced capabilities, allowing for intricate and complex designs to be milled accurately.



Barana Rapid's experienced team is a valuable asset in ensuring the production of high-quality CNC milled parts. Their expertise and knowledge in CNC milling techniques enable them to meet the specific requirements and expectations of clients.

By leveraging CNC milling services, you can benefit from precise and repeatable manufacturing processes, reduced production time, and the ability to create custom parts tailored to your specific needs.



Step 3. Mold Release and Preparation	Prior to casting, a mold release agent is applied to ensure the easy removal of the final casted part from the mold. The mold is then preheated to a specific temperature to enhance material flow and reduce curing time.
Step 4. Material Mixing and Vacuum Degassing	The chosen casting material, usually a two-part polyurethane (PU) resin, is mixed thoroughly to achieve a homogeneous consistency. The mixed material is then placed in a vacuum chamber to remove any air bubbles or voids that could affect the final part's quality.
Step 5. Casting Process	Polycarbonate (PC) is an amorphous thermoplastic known for its exceptional transparency and impact resistance. It also possesses strong electrical insulating properties and moderate chemical resistance.
Step 6. Curing and Solidification	After the mold is filled, the casting is left undisturbed to cure and solidify. The curing time varies based on the resin type, thickness of the part, and ambient conditions. If necessary, heat or post-curing may be applied to accelerate the curing process
Step 7. Mold Opening and Part Extraction	Once the resin has solidified, the mold is opened, and the cast part is carefully removed. The mold can then be reused multiple times to produce additional parts.
Step 8. Finishing and surface treatment	To achieve the desired aesthetics and functionality, the casted part may require finishing and surface treatment, such as trimming excess material, sanding, painting, or surface treatments.

Vacuum Casting Service

We offer a complete turnkey solution for creating master patterns and cast copies based on your CAD designs. We not only make high-quality molds but we also offer a full line of finishing services including painting, sanding, pad printing and more. We'll help you create parts for showroom quality display models, engineering test samples, crowdfunding campaigns and more.

Do you need production quality plastic prototypes fast? Polyurethane vacuum casting may be the ideal solution for you. Star Rapid's vacuum casting service is renowned for producing showroom quality display models, engineering samples, crowdfunding prototypes and more. And of course all of your parts are expertly finished with professional painting, printing and machining.

Materials for Vacuum Casting You can choose a wide range of vacuum casting materials depending on the peculiarities of your project. Here are some choices for you: Image Materials Description ABS ABS is a thermoplastic polymer, is widely used due to its exceptional resistance to impact, temperature, and chemicals. It also offers a sleek surface finish and is easy to produce and handle.

POM	POM, also known as acetal or Delrin, is a type of engineering thermoplastic that boasts exceptional dimensional stability, stiffness, temperature resistance, and impact resistance.
PP(Polypropylene)	Polypropylene (PP) is a material that is typically white and translucent and is resistant to corrosion while also possessing good toughness. Its most notable characteristic is its versatility, as it is suitable for use in a variety of processing methods and applications.
PE(Polyethylene)	Polyethylene is odorless, non-toxic, feels like wax, has excellent low- temperature resistance (minimum operating temperature can reach - 100~-70°C), has good chemical stability, and can withstand most acid and alkali erosion (not resistant to oxidation) nature acid)
PC(Polycarbonate)	Polycarbonate (PC) is an amorphous thermoplastic known for its exceptional transparency and impact resistance. It also possesses strong electrical insulating properties and moderate chemical resistance.
PMMA(Polymethylmethacryl ate)	Polymethylmethacrylate, also named Acrylic. Acrylic is a highly versatile material known for its exceptional transparency, chemical stability, and resistance to heat, cold, and corrosion.
PEEK	PEEK boasts exceptional mechanical strength, self-lubrication, impact resistance, and flame retardancy. It is also highly resistant to acid, alkali, and other chemical corrosion, hydrolysis, wear, fatigue, stripping, and radiation.
Nylon	Nylon is impressive mechanical properties such as heat and wear resistance, chemical resistance, and self-lubrication, polyamide fiber also possesses flame retardancy, a low coefficient of friction, and is easy to manufacture.
PS (Polystyrene)	Polystyrene (PS) is a polymer made from the monomer styrene, a liquid hydrocarbon that is commercially manufactured from petroleum. At room temperature, PS is normally a solid thermoplastic but can be melted at higher temperatures for molding or extrusion, and then resolidified.High-impact strength, low-cost resin with a wide range of options.
Elastomer	Elastomers are polymers with viscosity and elasticity and therefore are known as viscoelasticity. The molecules of elastomers held together by weak intermolecular forces generally exhibit low Young's modulus and high yield strength or high failure strain. Examples are Natural rubber, Silicone Polyurethanes, and Polybutadiene, Polyurethane plastic resin.

Careful measurement, inspection and testing are necessary to ensure the conformance of your parts. We perform multiple inspections at every step of the product development journey, from incoming material verification to final 3D scanning. You will receive complete digital files and Certificates of Compliance so you can meet your own regulatory and performance goals.

An International Team with Unparalleled Experience

Quality inspection relies not only upon using advanced digital equipment but also having highly trained personnel with years of experience. As parts become more complex and tolerances more demanding for advanced applications, precision measurements conducted by professionals are the only way to ensure perfection.

Inspections and Review for Every Stage of Production

To ensure quality from start to finish, Barana Rapid provides the following inspection and review services: Extensive incoming materials verification Design for manufacturing reviews for all quotes provided Contract reviews upon receipt of POs First article and in-process inspections Final inspections and testing with reports and certifications as required



Visual inspection







Dimension inspection

High gauge



2D image

measuring equipment



Hardness

tester

Touch test



Tensile

tester

Salt-spray testing machine

Quality Inspection



Packing







Carton

Pallet carton

Wooden case

Shipping

