

30 Years of Manufacturing Experience

| CASTING | FORGING | RUBBER
| CNC MACHINING | SHEET METAL



QINGDAO FLUIDO INDUSTRIAL CO.,LTD

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Custom pipe fittings | Pump and Valve parts |
Custom Sheet Metal Parts

Material: Cast Iron, Steel, Aluminium alloy and brass.

COMPANY PROFILE

PROFESSIONAL CASTING INDUSTRIAL

As a professional manufacturer on casting parts, Fluido provides to customers perfect solutions on the metal industry. We focus on providing services and quality beyond customers' expectations at a very competitive price.

Our main products are custom pipe fittings, OEM casting part, pump cases and valve parts. And the technologies are like Sand Casting, Investment Casting, Die Casting, Lost Foam Casting, and Permanent Casting. Until now, our products have been sold globally through more than 30 countries/regions.

Our knowledge on the casting area enables us to design, produce, machine, assembly then give out complete products. We'll review your needs and provide creative solutions to reduce costs and to achieve excellent operations just like you are pursuing. And the information, samples and drawings you can provide will help us make correct supply to meet your special requirements. Welcome to contact us and start win-win cooperation.



OUR WORKSHOP

Wax Pattern Making



Wax Pattern Making



Wax Pattern Making



Wax Pattern Making



Shell Building



Shell Building



Machining



Machining



Quality Control



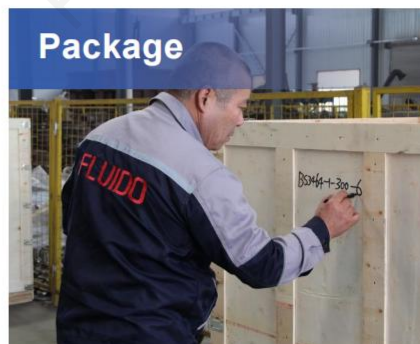
Laser Typing



Package



Package



CASTING

Pattern making, shellmolding, and pouring

■ Wax Pattern Making

Wax pattern making is the first key step in our process. Each pattern is produced with accurate dimensions to ensure stable forming. Through repeated slurry coating and sand layering, strong and uniform shells are created. FLUIDO delivers reliable precision casting parts.

■ Pouring

Molten metal is poured under controlled conditions to form each component. After cooling, shot blasting removes surface impurities, followed by grinding to refine edges and surfaces. This process improves strength, appearance, and overall product consistency.



Main process	Description	Tol.	Single part weight Kg	Tolerance standard	Roughness (Ra)	Steel	Iron	Non-ferrous alloy	Special (Cobalt base)	Sub-factories	Sub-contracto
Sand casting	Green Sand Casting	CT11-14	0.5-1000	ISO 8062	50-100	✓	✓	✓		✓	✓
	Resin Sand Casting	CT10-13	1-100000	ISO 8062	25-50	✓	✓	✓		✓	✓
	Precoated Sand Casting	CT8-10	0.1-100	ISO 8062	6.3-12.5	✓	✓			✓	✓
Investment casting	Silicon Glue	CT4-6	0.05-100	ISO 8062	3.2-63	✓		✓		✓	✓
	Water Glass	CT7-9	0.1-100	ISO 8062	12-50	✓	✓			✓	✓
Die casting	Die Casting	CT6-8	0.05-50	ISO 8062	3.2-63			✓		✓	✓
Lost Foam Casting	Lost Foam Casting	CT8-10	5-5000	ISO 8062	6.3-25	✓	✓				✓
Permanent casting	Gravity Casting	CT8-10	0.1-20	ISO 8062	6.3-12.5			✓		✓	✓
	Low Pressure Casting	CT8-10	5-500	ISO 8062	6.3-12.5			✓		✓	✓



FORGING

Manufacturing Process

■ Precision Forging & Tooling

Design and optimize molds based on customer drawings, employing hot forging/die forging processes to achieve high-precision forming. Improve product density and mechanical properties through reasonable forging ratios and streamline control.



■ Integrated Production & Finishing

A complete production process from heating, forging, heat treatment, machining to surface treatment. Strict control over each process ensures dimensional accuracy, surface quality, and consistency, meeting OEM mass production requirements.



Main process	Description	Tol.	Single part weight Kg	Tolerance standard	Roughness (Ra)	Steel	Iron	Non-ferrous alloy	Special (Cobalt base)	Sub-factories	Sub-contracto
Forging	Open Die Forging	Grade E	1-50000	GB/T 15826	25-60	✓		✓		✓	✓
	Closed Die Forging	Precision	0.1-100	GB 12362	12.5-50	✓		✓		✓	✓

MACHINING PROCESS

Manufacturing Process

■ Multi-step Precision Machining

Starting from the raw material, through multiple processes including CNC turning, milling, drilling, and finishing, complex structures and high-precision dimensions are gradually achieved.



■ Post-processing & Quality Check

Through deburring, surface treatment, and full-dimensional inspection, each process is strictly controlled to ensure product stability and consistency.



Main process	Description	Tol.	Single part weight Kg	Tolerance standard	Roughness (Ra)	Steel	Iron	Non-ferrous alloy	Special (Cobalt base)	Sub-factories	Sub-contractors
Machining	Propf machining	0.01	0.01-100000		0.10	✓	✓	✓		✓	✓
	Precision machining	0.01	0.01-100000		0.10		✓			✓	✓
	Various cutting	0.5	0.1-1000		0.1-1000	✓	✓	✓		✓	✓

QUALITY CONTROL

For FLUIDO, multi-stage inspections from raw materials to final products ensure every batch meets required standards.

Incoming Quality Control

Chemical composition verification
Raw material certification review

In-Process Quality Control

Process Control
Machining Inspection

Final Quality Control

Dimensional Inspection
Surface Inspection
Mechanical Testing

Inspection Equipment

Spectrometer
Impact Tester
X-Ray Detector

Standards & Certification

International standards

Packaging Inspection

Final visual check
Protective packaging

Technical Equipment



TECHNOLOGICAL EQUIPMENT

■ Advanced Technological Equipment

Advanced inspection equipment ensures precise measurement and reliable testing, supporting strict quality control throughout production. From dimensional checks to mechanical testing, all key parameters are verified to guarantee product accuracy and performance.



INSEPECTION EQUIPMENT

Size Inspection



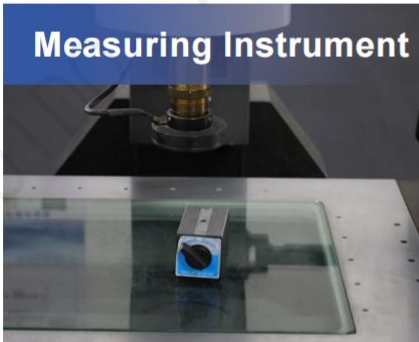
Measuring Tension



Roughness Test



Measuring Instrument



Measuring Instrument



Tensile Test



Impact Tester



Machining



Microscope



X-Ray



Spectral Detection



Sealing Test



Sand Casting

Sand casting is divided into three types: Green sand casting, Resin sand casting and Precoated sand casting. Green Sand Casting is the method with the lowest cost, but its surface smoothness is not good. Resin Sand Casting can give good surface and accuracy size, so it is widely used in the casting industry. Precoated Sand Casting can give surface roughness of $RA = 6.3 \sim 12.5 \mu m$ and size accuracy of CT7 ~ CT9 level, which is mainly used to make cast steel parts. FLUIDO mainly do the casting on Grey Iron, Ductile Iron, Stainless Steel, Carbon steel, aluminum and Brass. Unit weight ranges from 0.3kg to 80kg.



Investment Casting

As another commonly used casting process, the investment casting is considered as a relatively expensive process in a long period of time. However, compared with other replacement process which requires many welding or machining processes, the investment-casting process can usually significantly reduce the production cost of the overall parts. Fluido will use two investment-casting methods to meet customer's quality requirements: Water Glass and Silicon Glue. The surface quality of the Water Glass is not as good as the surface made by Silicon Glue, however its cost is lower. Silicon Glue gives out good surface however its cost is high. Anyway Fluido will choose the most economical method based on customers' tolerance requirements and product use. Unit Weight Ranges from 20G to 15kgs.



Die Casting

Die casting is a metal casting process, which is characterized by pressing the melting metal into the mold cavity under high pressure. Compared with the sand casting and refined casting process, the advantage of die casting is that it can give out shape-complicated parts with thin wall thickness, the surface can be up to CT6-8, the quality of the casting is high, the strength and hardness are higher than the sand casting, the productivity is high, the cost is low, and it is easy to achieve automated production. The disadvantage is that the mold fee is high and it is not suitable for production of small batches. During the die -casting process, as the metal liquid is filled with a high speed, the casting is prone to small pores, so it is not suitable for thick wall thickness parts. Die casting is generally used to make aluminum and zinc alloy parts.



Lost Foam Casting

Similar to the investment casting, lost foam casting (LFC) is also an evaporation model casting process, but its model is plastic foam instead of wax. This technology uses the low boiling point of the plastic foam to simplify the investment casting process without needing to melt the wax from the mold. Fluido only uses the Lost Foam Casting process to produce ductile iron pipe fittings and large -size valve body parts.



Permanent Casting

Permanent Casting is a casting method that pour liquid metal into metal casting to obtain casting parts. The model is made of heat -resistant alloy steel metal, which can be used repeatedly. The parts produced by Permanent Casting are not only good in size's accuracy and surface's smoothness, but also has higher strength than Sand Casting, just the disadvantage is that the mold fee is high. Fluido only uses the Permanent Casting process to produce aluminum alloy casting parts and zinc alloy casting parts.



Metal Stamping

Stamping is a manufacturing process in which a flat sheet of metal is formed into a desired shape using a press machine and a die. By using specialized dies and stamping presses, metal sheets are shaped, cut, punched, or formed into required parts with excellent dimensional accuracy and repeatability. It is commonly used in industries for producing various components and parts with high precision and efficiency. From simple brackets and plates to complex formed parts, we provide customized stamping solutions according to customer drawings or technical specifications.



Forging

Metal forging is a manufacturing process that forms metal into parts with specific shapes and properties by applying pressure to a metal billet heated to a specific temperature. Forging can improve the mechanical strength, toughness and fatigue resistance of the parts. Metal forging services are supplemented with more services to give customers a better experience. Metal forging parts are ideal for applications that require high strength, high precision and high compressive resistance. It is widely used in the production of parts in the automotive, construction, electrical hardware and other industries. We provide customized forging solutions based on customer drawings, samples, or technical specifications.



CNC Machining

CNC machining, which use turning, milling, drilling, reaming, planing, grinding, drilling and other processes to further process the shape and surface accuracy of forged and cast metal parts to obtain higher precision parts. CNC machining is a high-precision manufacturing process that uses computer-controlled machines to produce complex metal and mechanical components with excellent accuracy and consistency. With advanced machining centers and skilled technicians, we are able to manufacture both simple and complex parts according to customer drawings, samples, or technical specifications.



Rubber Parts

Rubber parts are widely used in industrial systems for sealing, cushioning, vibration absorption, and protection. Manufactured from high-quality rubber materials such as NBR, EPDM, silicone, natural rubber, and other elastomers, these components offer excellent flexibility, durability, and resistance to wear, temperature, and various chemical environments. Our rubber parts are produced through advanced molding processes to ensure precise dimensions, reliable sealing performance, and consistent quality. They are commonly applied in valves, piping systems, machinery, automotive components, and water treatment equipment. We provide a wide range of customized rubber parts according to customer drawings, samples, or technical specifications.





COMPANY PROFILE

Qingdao Fluido Industrial Co.,Ltd, established in 1996, is a professional manufacturer and exporter of valves, OEM metal products, and pipe fittings etc., It has over 200 customers worldwide and is renowned for providing reliable and guaranteed products in the United States and South America.



5000 m²

Factory area

150⁺

Product Series

400⁺

Serving Customers

30⁺ Years

Experience



Casting Parts



Casting Parts



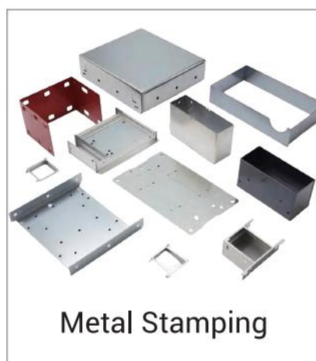
Casting Parts



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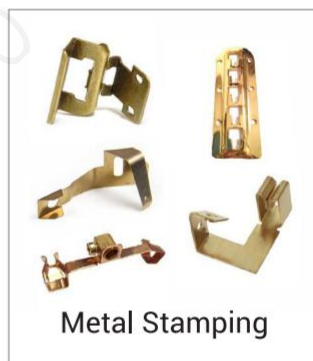
Metal Stamping



Metal Stamping



Metal Stamping



Metal Stamping



CNC Machining



CNC Machining



CNC Machining



Brass CNC Machining

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