

## Chuanlin Facilities

### *Shanghai Chuanlin Precision Parts*

Located at 5738 Hu-Yi Highway. Waigang, Jiading, the automobile city of Shanghai, Shanghai Chuanlin Precision Parts is well-known for outstanding die casting, mold making and precision machining. Our machine shop has successfully developed a series of high precision parts that other machine shops failed to succeed in.

Hu-Yi highway is a major transportation channel from Shanghai to Jiangsu province. Only 30 km west from our facility there is the famous garden city Shuzhou. There is an ancient Chinese saying: "Above we have heaven, on earth we have Shuzhou and Hangzou."

### *Nantong Chuanlin Casting Technology*

Located in Industry Park of Changjiang Town, Nantong, an hour and forty minutes drive from Shanghai, this new up to date production base is established to meet large scale casting and machining needs of world class automotive and non-automotive Original Equipment Manufacturers.

The production base has a total land area of 30,000 square meters and a building area of 22,000 square meters is planned. Phase I constructions are completed with a die casting workshop measuring 3,500 square meters and an office building measuring 2,000 square meters. A 635KVA electric transform station along with a high capacity industry liquefied natural gas system are up and running. In addition to 8 cold chamber presses and 2 hot chamber presses from 88MT to 630MT locking force working 3 shifts a day, a new 6,750 square meter building for precise machining and heat treatment is under construction.

### *Shanghai Chuanlin Precision Die Casting*

Located at 1576 Shenzhuan Road, Zhujiazeng, Qingpu District, Shanghai. Shanghai Chuanlin Precision Die Casting is one of the largest privately owned die casting factories in Shanghai, China. With more than 14 presses imported from Japan, a newly established machining shop and a powder coating line, Shanghai Chuanlin is one of the major production bases of aluminum/zinc die casting.

Qinpu is a beautiful southern style spot in Shanghai only 10 km from the famous historical water town Zhou Zhuang.

### *Kunshan Chuanlin Plastic Products*

Located at East road of Xujia Villiage Penglang Industry district Kunshan, 15 minutes from Shanghai Chuanlin Precision Parts, Kunshan Chuanlin Plastics Products is a new joint venture of Shanghai Chuanlin and Zhenghua Plastics. The production base has a total land area of 10,000 square meters and a planned building area of 4,000 square meters. 14 injection machines from 800KN to 3000KN are capable of producing parts up to 430grams with weight varying  $\pm 0.1$ grams and dimension tolerance as tight as 0.005mm. We are currently ordering more than 10 new injection machines with capability as high as 6000KN to put in this new facility.

### *Shanghai Chuanlin International Trade*

Located at Jiaxing Building on Dongfang Road, Luziazui financial and trade center, Pu Dong, Shanghai, Shanghai Chuanlin International Trade is our center for our import/export business.

As a international trade company registered in the tax free zone, Shanghai Chuanlin International Trade is capable of handling manufacturing activities with some imported components for exporting.

# Shanghai Chuanlin

**High Quality Low Cost  
High Precision Parts Supplier**

**ISO/TS 16949, QS-9000, ISO-9002**

- **Die-Casting**
- **Mold Making**
- **Precision Machining**
- **Tube Bending**
- **Deep Drawing Stamping**
- **Plastic Injection**

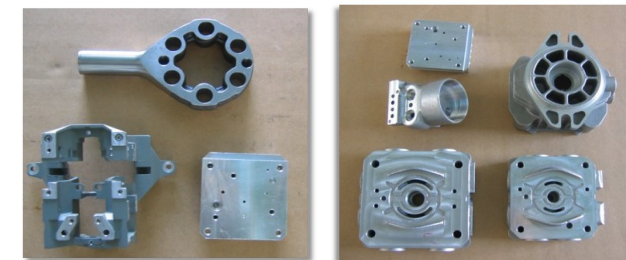
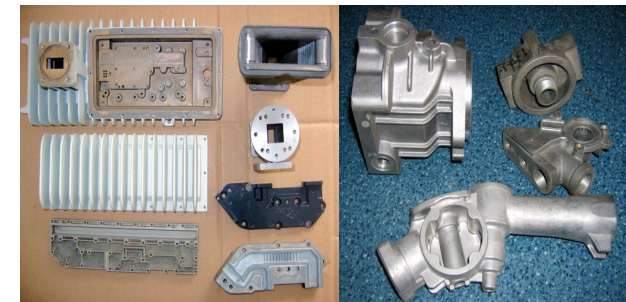
### *Our Commitment*

- **100% Quality Guarantee**
- **Full Local Service in U.S.**
- **On Time Delivery**
- **Significant Cost Savings**

### **Shanghai Chuanlin**

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## Chuanlin Group

Shanghai Chuanlin is one of the largest precision parts suppliers for original equipment manufacturers around the world. Our full service line includes mold design, mold making, aluminum/zinc die casting, precision machining, tube bending, stamping, plastic injection and professional import/export service. We have:

- One of the best die-casting mold shops in Shanghai



- More than 25 die-casting presses of 90 Mt to 800 Mt locking force and we plan to purchase presses of 1200 Mt to 2400 Mt

- Excellent machining capability: 11 CNC milling machines imported from Taiwan and U.S.; most are 4 axis machines; 3 CNC lathes from Japan and a fully automated CMM from the U.S.

- ISO/TS 16949, QS-9000 and ISO-9001 certified companies

- 16 injection plastics machines

- Precision tube bending, stamping and assembly capabilities

- Extensive experience in manufacturing precision parts for the automotive industry (Siemens VDO), hydraulic systems (Parker-Haniffin), instrumentation (ABB), Satellite industry (Hughes and many other companies)



## Quality

All our subsidiaries have quality control systems consistent with **ISO/TS 16949**, **QS-9000** and **ISO-9001** quality control systems. Our quality control equipment includes ARUN MetalScan 2550 Spectrometer, Brown&Sharpe Global Status 7107 CMM, tensile testing equipment, automatic surface tester and more. Our well trained technicians and quality control staff work three shifts to guarantee that the quality of our parts exceeds the requirements of our customers.



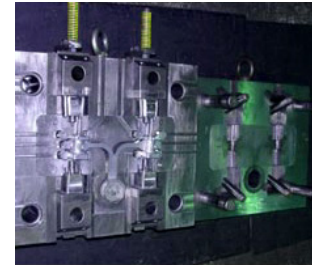
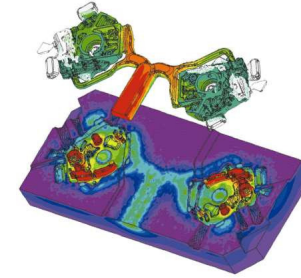
**Brown & Sharpe GLOBAL STATUS 7107 CMM**

Statistical Process Control (SPC) is applied to all products in the manufacturing process. The use of Statistical Quality Control (SQC) is part of our overall quality control system and is part of our commitment of continuous improvement in product quality. We work closely with our customers to establish appropriate SPC and SQC requirements.



## Engineering

Full engineering services from product ideas to mold design to production is provided. High precision mold manufacturing includes die casting, forging, injection plastic, stamping, and FRP mold. We have a special team of engineers and technicians who design and make tools and fixtures for CNC machining.



Our mold shop equipment includes three CNC machine centers, five EDM machines, four line cutting machines, and an advanced mold closing machine. Our mold

design team accepts all types of engineering drawings such as ProE, SolidWorks, and AutoCad. MasterCAM is used as our mold design tool.



## Capability

### Aluminum/Zinc Die-casting

- Weight from one gram to several kilograms
- High surface flatness (LNB casting)
- Low porosity (Compressor connection rod)
- Pressure Tightness (Explosion proof motor housing)
- Complex Shapes (Power meter frame)
- Thin-Wall (Feedhorn)
- Casting materials versatility from various silicon aluminum alloy to pure aluminum and zinc alloys

### Surface Treatment

Impregnation, chemical cleaning, shot blasting, vibrated finish, chromate conversion, plating, e-coat, anodizing, powder coating and more.

### Heat Treatment

Annealing

### Machining

- CNC turning and milling to tolerances of 6 $\mu$
- Various aluminum alloys, steel alloys
- Prototype to mass production

### Injection Molding

Parts with weight tolerance of  $\pm 0.1$  grams and with dimensional tolerances as tight as 0.005mm

Materials: ABS, HIPS, PVC, PA, POM, Delrin, PPS, PET, Nylon and more

### Stamping

Progressive mold stamping capability.

### Assembling

Large quantity assembly production line development experience.