

CNC ALUMINUM AUTO PARTS



SHENGHAI
ALUMINUM



CNC Aluminum Auto Parts Manufacturer

Shenghai is a professional CNC aluminum auto parts manufacturer and supplier in China. We have over 15 years of experience in providing solutions.

Shenghai provides the best CNC machining services and secondary processing services for the production of CNC aluminum auto parts, and we strictly control the quality of all our products to ensure that they achieve a high level of performance.

2010

Established In

7 sets

Press Lines

8000 tons

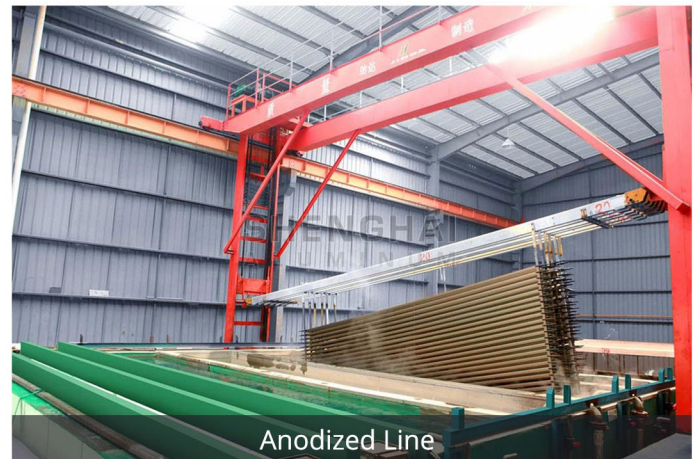
Annual Export

23000m²

Factory Area

Advantages of CNC Machining Auto Parts

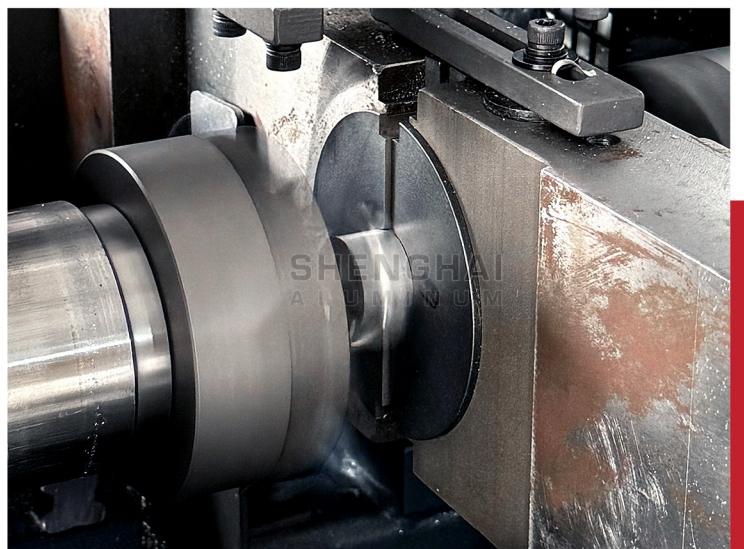
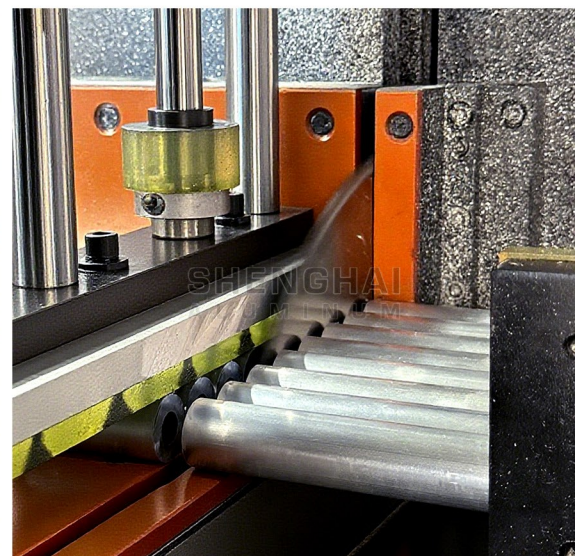
- ▶ CNC machining can help in producing customized auto parts.
- ▶ CNC machining allows a faster production time while making it more streamlined.
- ▶ CNC machining can provide tight tolerances to produced auto parts.



CNC Machines

Services: Precision cutting, chamfering, punching, drilling, tapping, turning, milling

Tolerance: $\pm 0.01-0.02$ mm

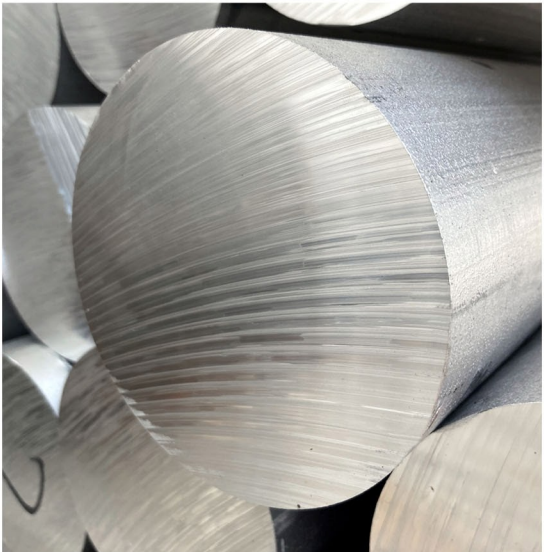




Why Choose High-Hardness Aluminum Alloy For Automotive Industry Parts?

6-series aluminum alloys are commonly used in automotive parts, offering excellent forging properties. These alloys include 6082-T6, 6005-T6, 6063-T66, etc. These alloys are relatively hard and suitable for automotive aluminum parts.

After undergoing the T6 heat treatment (solution treatment and artificial aging), the hardness of the aluminum alloy is significantly increased. This makes it an excellent choice for applications requiring both high strength and hardness.



Chemical composition of aluminum alloy										
Alloy	Temper	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others
6063	T66	0.2-0.6	0.35	0.1	0.1	0.45-0.9	0.1	0.1	0.1	0.15
6005	T6	0.6-0.9	0.35	0.1	0.1	0.4-0.6	0.1	0.1	0.1	0.15
6082	T6	0.2-0.6	0.35	0.1	0.1	0.45-0.9	0.1	0.1	0.1	0.15



Advantages Of Aluminum Alloys In Automobile Parts Manufacturing

The increasing choice of aluminum as a key material in car parts manufacturing is driven by the following advantages:

Good Thermal Conductivity

Certain car components need to be protected from heat accumulation. Therefore, the use of aluminum in car parts such as car wheels, engine cylinder heads is vital.

Corrosion Resistance For Long-Term Service

The flexibility of aluminum allows it to bend when under impact without breaking. This makes them suitable for use in the manufacturing or fabrication of body panels, car chassis.

Good Flexibility For Enhanced Safety

Aluminum automotive parts absorb impact shock more effectively. They are ideal for body panels, chassis and other impact-sensitive parts such as crash management systems.

Reduced Vibrations And Noise

The use of aluminum in automotive components such as body panels and suspension systems helps reduce noise and vibration, thereby improving the passenger experience.

Suitable For Repeatability Production

Aluminum alloys have consistent properties, which ensures that all the aluminum car parts produced through a repetitive process are of similar quality.

Auto Rubber Control

A rubber bushing is an anti-vibration bushing that is typically made of an inner and outer aluminum cylinder that is completely filled with rubber in the middle. We offer a variety of rubber bushing design options: hollow inner aluminum, solid inner aluminum (with flanges), segmented outer aluminum, and inner/outer aluminum with specific profiles.



Auto Rubber Control Product Display



Finished Product Display

