



Precision CNC Turning and Stamping Metal Cabinet Assembly for Aerospace Defense Automotive and Industrial Machinery

Our Product Introduction

for more products please visit us on cnc-metalmachining.com

Basic Information

- Place of Origin: China
- Brand Name: Xianheng
- Certification: ISO 9001:2015 SGS RoHS
- Model Number: MC-XG-18
- Minimum Order Quantity: 1 pcs
- Price: USD 0.1\$-2\$
- Packaging Details: Carton Wooden case
- Delivery Time: 5-8 days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10 SET per week



Product Specification

- Material Capabilities: Stainless Steel, Aluminium, Copper, Brass
- Products: Metal Equipment Shell, Sheet Metal Cabinet Assembly Stamping Parts
- Process: Metal Casing, Metal Sheets Fabrication, Welding Cutting Punching Stamping
- Application: Carbinet, Parts: Cars, E-sports Hotel, Architecture, Furniture, metal Plastic Parts
- Place Of Origin: China Guangdong
- Tolerance: +/-0.02mm
- MOQ: 1 Piece
- OEM/ODM: Acceptable
- Equipment: Laser Cutter, CNC Bending Machine, Stamping Machine, Weld
- Surface Treatment: Galvanized, Anodizing, Powder Coated, Chrome Plating, Nickel Plating Etc.
- Craftsmanship: CNC Stamping, CNC Bending, Welding, Laser



More Images



What We Can Provide

Precision CNC Turning and Stamping Metal Cabinet Assembly for Aerospace Defense Automotive and Industrial Machinery

Description of Precision CNC Turning and Stamping Metal Cabinet Assembly for Aerospace Defense Automotive and Industrial Machinery

Precision CNC Turning and Stamping Metal Cabinet Assembly for Aerospace, Defense, Automotive, and Industrial Machinery refers to high-precision metal enclosures manufactured through advanced CNC turning and stamping processes, tailored to meet the rigorous demands of these industries. These cabinets are engineered to house sensitive electronics, control systems, and critical components, protecting them from environmental hazards, mechanical stress, and unauthorized access while ensuring seamless integration with complex machinery.

Specification of Precision CNC Turning and Stamping Metal Cabinet Assembly for Aerospace Defense Automotive and Industrial Machinery

CNC Capacity				
CNC Machining Center	3 / 4 / 5 axis CNC Machining Centers		40+ CNC Machines	
CNC Turning	φ0.5 - φ300 * 750 mm		DIN-2768-Fine +/-0.005 mm	
CNC Machining	1270×508×635 mm(max)		DIN-2768-Fine +/-0.005 mm	
CNC Stamping	1000 * 1000 mm(max)		DIN-2768-Fine +/-0.005 mm	
Drawing Format	IGS,STP,X_T ,DXF,DWG , Pro/E, PDF			
Inspection Equipments	Measurement Instrument, Projector, CMM, Altimeter, Micrometer, Thread Gages, Calipers, Pin Gauge etc.			
Material Available				
Stainless Steel	SS201,SS301, SS303, SS304, SS316, SS416, 17-4PH, etc.			
Steel	Mild steel, Carbon Steel, 4140, 4340, Q235, Q345B, 20#, 45# etc.			
Brass	HPb63, HPb62, HPb61, HPb59, H59, H68, H80, H90 etc.			
Copper	C11000,C12000,C12000 C36000 etc.			
Aluminum	AL6061, Al6063, AL6082, AL7075, AL5052, A380 etc.			
Iron	A36, 45#, 1213, 12L14, 1215 etc.			
Plastic	ABS, PC, PE, POM, Delrin, Nylon, Teflon, PP,PEI, Peek etc.			
Surface Finishing				
Aluminum Parts	Stainless Steel Parts	Steel Parts	Copper /Brass	Plastic Parts
Clear Anodized	Polishing	Zinc plating	Polishing	Painting
Color Anodized	Passivating	Oxide black	Passivation	Chrome plating
Sandblast Anodized	Sandblasting	Nickel plating	Galvanized	polishing
Chemical Film	Laser engraving	Chrome plating	Nickel Plating	Sandblast
Brushing		Carburized	Chrome plating	Laser engraving
Polishing		Heat treatment		
Chroming		Powder Coated		

Application Of Precision CNC Turning and Stamping Metal Cabinet Assembly for Aerospace Defense Automotive and Industrial Machinery

1. Auto Components Hardware Parts Auto Parts
2. Communication Equipment
3. Industrial Equipment
4. Medical EquipmentsMechanical Parts
5. Ship Accessories
6. Electrical Equipment
7. Mechanical Equipment

Feature Of Precision CNC Turning and Stamping Metal Cabinet Assembly for Aerospace Defense Automotive and Industrial Machinery

1. Good corrosion resistance
2. High strength and hardness
3. High thermal conductivity
4. Good finishing characteristics

Why Choose Us

Advantages

Unmatched Precision and Tolerance Control

CNC turning and stamping enable the production of metal cabinets with tolerances as tight as ± 0.005 mm, ensuring exact fit and alignment in aerospace and defense applications where even microscopic deviations can compromise safety or performance. For example, in automotive manufacturing, these cabinets can house electronic control units (ECUs) with minimal vibration or misalignment, guaranteeing reliable vehicle operation. The precision also reduces the need for post-production adjustments, streamlining assembly lines and minimizing downtime.

Superior Durability and Resistance to Harsh Conditions

The use of high-grade metals (e.g., aerospace-grade aluminum, stainless steel, or carbon steel) combined with CNC processes results in cabinets capable of withstanding extreme temperatures, corrosion, and physical impacts. This durability is critical for industrial machinery exposed to abrasive environments or defense applications requiring equipment to endure rigorous use without failure. The stamping process further enhances structural integrity by creating uniform, load-bearing components that resist deformation under stress.

Customization for Industry-Specific Requirements

Unlike standardized solutions, these cabinets can be tailored to meet the unique needs of each sector. For instance, aerospace cabinets may require lightweight materials to minimize fuel consumption, while defense applications might demand tamper-proof designs with advanced locking mechanisms. CNC turning and stamping allow for intricate modifications, such as specialized cutouts for cables, ventilation slots for heat dissipation, or modular inserts for versatile storage. This flexibility ensures that the cabinets align perfectly with the operational workflows of automotive assembly lines or industrial automation systems.

Cost-Effectiveness Through Efficient Production

While the initial investment in CNC technology is significant, the long-term savings are substantial. CNC processes automate manufacturing, reducing labor costs and minimizing human error, which translates to fewer defects and rework. Additionally, the ability to produce cabinets in high volumes with consistent quality lowers per-unit costs, making customized solutions more affordable for large-scale projects. For example, automotive manufacturers can order thousands of identical cabinets for assembly lines, benefiting from economies of scale without sacrificing precision or customization. The speed of CNC production also accelerates time-to-market, giving companies a competitive edge in fast-paced industries.

Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



Hydraulic Press Machine



SLS/SLA Machine



5-Axis CNC



CNC Lathe



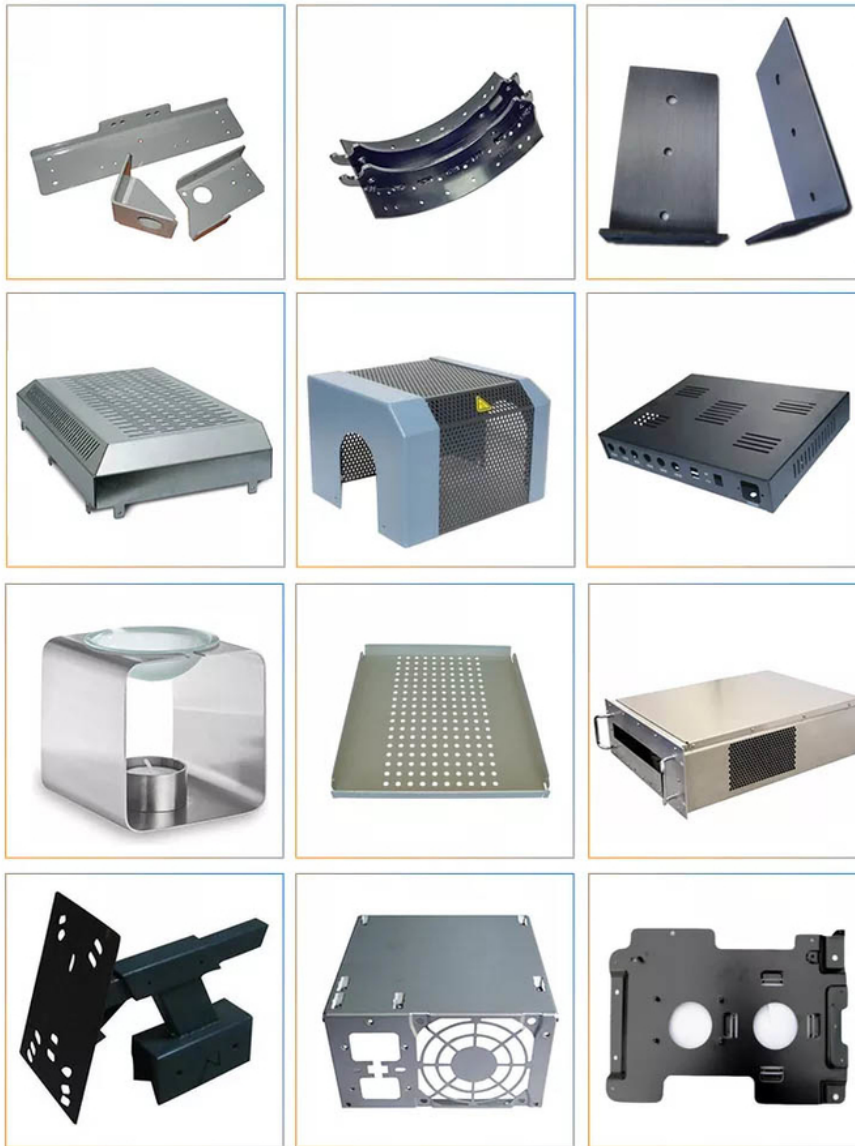
Laser cutting Machine



CNC Punching Machine



Injection Molding machine



FAQ

Q: How can I customize my products ?

A: Please describe your project. Include the following information so that we can provide an accurate quote: Part Name, 3D CAD Drawing, Quantity, Material, Color, Finishing.

Q: How can I know my products going on ?

A: We will offer a detailed production schedule and send weekly reports with digital pictures and videos which show the production process.

Q: Can You sign a confidentiality greement ?

A: We can sign a confidentiality agreement according to your needs.

Q: What is your terms of payment ?

A: 30% in advance ,70% balance before shipment. Other terms negotiable.

Q: Are you a trading company or factory?

A: We are direct factory with 20 experienced engineers and more than 80 employees as well approximate 3,000 square meters workshop area.

Q: What shall we do if we do not have drawings?

A: Please send your sample to our factory,then we can copy or provide you better solutions. Please send us pictures or drafts with dimensions(Length, Height, Width), CAD or 3D file will be made for you if placed order.



Shenzhen Xianheng Technology Co.,Ltd

☎ 0086-13682614486

✉ shawn@xianheng-tech.com

🌐 cnc-metalmachining.com

Room 8-1409, Xingji jiayuan building 8-9#, HongXing community, Songgang street, Bao'an District, Shenzhen City China

