



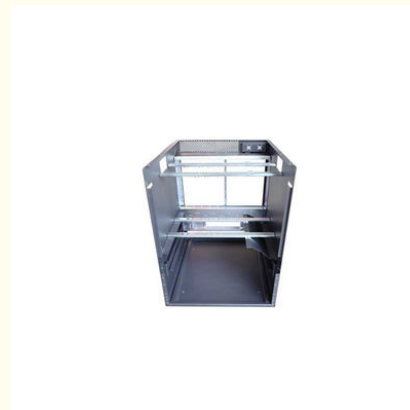
Precision-Made CNC Turning and Stamping Metal Cabinet Assembly for Aerospace Defense Automotive and Industrial Machinery

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-20
- 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



Product Description

What We Can Provide

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

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

Precision-Made CNC Turning and Stamping Metal Cabinet Assembly for Aerospace, Defense, Automotive, and Industrial Machinery refers to high-precision metal enclosures manufactured through advanced CNC (Computer Numerical Control) turning and stamping processes. These cabinets are engineered to house sensitive electronics, control systems, and critical components, providing protection against environmental hazards (e.g., dust, moisture, chemicals), mechanical stress (e.g., vibration, impact), and unauthorized access. Designed for seamless integration with complex machinery, they meet the stringent demands of industries where reliability, durability, and precision are non-negotiable.

Specification of Precision-Made 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-Made 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-Made 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 achieve ± 0.005 mm (or tighter) dimensional accuracy, ensuring compatibility with high-performance systems in aerospace, defense, and medical applications.

Consistent quality across production runs minimizes rework and replacements, reducing material waste and budget overruns. For example, aerospace components often require tolerances within 0.001 mm, a standard easily met by CNC processes.

Superior Durability and Functional Performance

Metal cabinets are crafted from corrosion-resistant alloys (e.g., aluminum, stainless steel, or titanium) to withstand extreme temperatures, vibration, and chemical exposure.

Stamping processes create rigid, lightweight structures with reinforced joints, optimizing strength-to-weight ratios—critical for automotive and aerospace efficiency. For instance, an aluminum cabinet for an EV battery system can weigh 30% less than a steel equivalent while maintaining structural integrity.

Rapid Customization and Scalability

CNC technology enables fast prototyping and iterative design, allowing for tailored solutions like EMI/RFI shielding, conformal cooling channels, or modular assemblies.

Automated workflows support high-volume production (e.g., 1,000+ units/day) with minimal lead times, making it cost-effective for both low-volume specialty parts and large-scale deployments. A defense contractor, for example, can produce 500 missile guidance enclosures in a week with consistent quality.

Cost-Effective Production and Long-Term Savings

Reduced material waste and optimized tool paths lower per-unit costs, while precision stamping extends tool life by minimizing wear and tear.

Fully automated processes reduce labor costs, and human-machine interfaces are user-friendly, requiring minimal training. A study found that CNC machining can cut production costs by 20-30% compared to traditional methods for complex parts.

Factory Show

Factory Equipment



WEDM



Milling Machine



CNC Wire Cut



Coordinate measuring machine



CNC Bending Machine



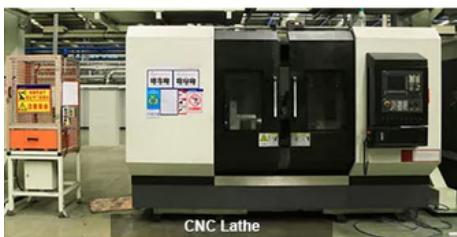
Hydraulic Press Machine



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.



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