



Storage Solution Custom Metal Cabinet Assembly for Automotive Industry from Leading OEM with Advanced Inspection Equipments

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-14
- 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

Storage Solution Custom Metal Cabinet Assembly for Automotive Industry from Leading OEM with Advanced Inspection Equipments

Description of Storage Solution Custom Metal Cabinet Assembly for Automotive Industry from Leading OEM with Advanced Inspection Equipments

As a premier OEM in the automotive sector, we integrate precision-engineered metal cabinet assemblies with state-of-the-art inspection technologies to deliver storage solutions that optimize space, protect components, and streamline workflows. Our systems are tailored to the unique demands of automotive manufacturing, addressing challenges such as part diversity, environmental sensitivity, and production line efficiency.

Specification of Storage Solution Custom Metal Cabinet Assembly for Automotive Industry from Leading OEM with Advanced Inspection Equipments

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 Storage Solution Custom Metal Cabinet Assembly for Automotive Industry from Leading OEM with Advanced Inspection Equipments

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 Storage Solution Custom Metal Cabinet Assembly for Automotive Industry from Leading OEM with Advanced Inspection Equipments

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

Why Choose Us

Advantages

1. High-Density Storage with Modular Adaptability

Our metal cabinets utilize vertical expansion and modular design to maximize storage density in limited factory or warehouse space. For example, a 10-meter narrow-aisle rack system can store over 3,000 SKUs of automotive parts, including heavy-duty components like engines and lightweight items like sensors. The cabinets feature adjustable shelving, drawers, and hanging racks, enabling customization for irregularly shaped parts such as exhaust pipes or body panels. A case study with a leading automaker demonstrated a 50% reduction in floor space usage while doubling inventory capacity.

2. Environmental Control for Component Protection

Automotive parts like ECU modules, rubber seals, and metal fasteners require strict environmental management to prevent damage. Our cabinets integrate smart climate regulation systems, including:

Humidity and temperature control (e.g., refrigerated compartments for rubber parts to prevent drying).

Dustproof and anti-corrosion coatings for metal surfaces.

Vacuum-sealed compartments to eliminate oxygen exposure and oxidation risks.

A patented design incorporates real-time sensors linked to a central monitoring system, ensuring compliance with automotive industry standards like ISO 14644 for cleanliness.

3. Integration with Advanced Inspection Equipment

To guarantee part quality, our storage systems seamlessly connect with AI-powered inspection tools such as:

Automated Optical Inspection (AOI) for detecting surface defects on painted components.

X-ray and ultrasonic scanners for non-destructive testing of welded parts.

RFID tracking to ensure parts are stored and retrieved in the correct sequence (e.g., "first-in, first-out" for perishable items like adhesives).

In a collaboration with a Tier 1 supplier, this integration reduced inspection time by 70% and eliminated errors caused by manual handling.

4. Automated Workflow Efficiency

Our cabinets are designed for end-to-end automation, featuring:

AMR (Autonomous Mobile Robot) compatibility for automated part retrieval and delivery to assembly lines.

"Lights-out" operation via AI-driven inventory management, enabling 24/7 unmanned storage and retrieval.

Ergonomic interfaces such as touchscreens and voice commands to reduce operator fatigue.

A pilot project with an electric vehicle manufacturer showed a 40% increase in production line uptime due to faster part availability and reduced downtime from misplaced components.

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



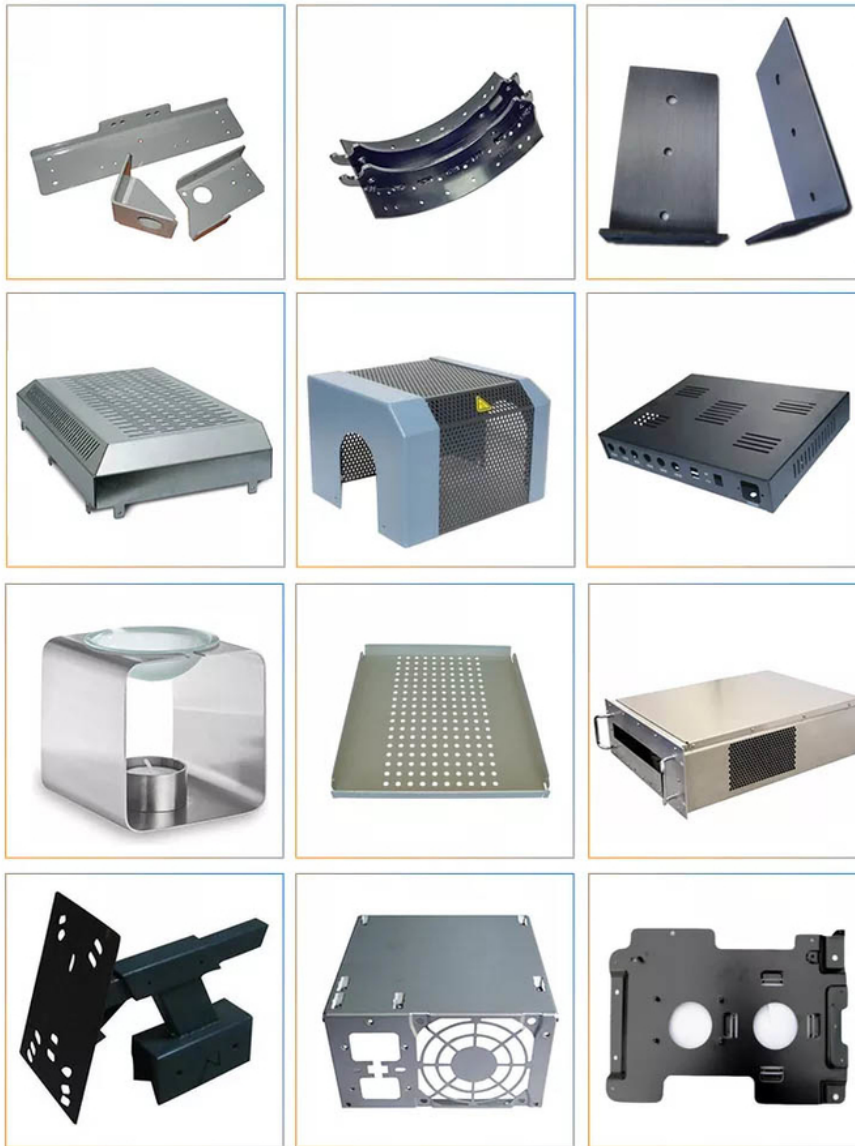
Laser cutting Machine



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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