



Innovative Metal Frame Parts for Extreme Environments in Aerospace Defense Automotive and Industrial Machinery Production

Our Product Introduction

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

Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: MFA-XG-081
- Minimum Order Quantity: 1 pcs
- Price: USD \$0.1-\$1.99
- Packaging Details: Carton, As Customers' packaging requirements
- Delivery Time: Samples 7-10 days, Mass production 20-25 days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 50000 pcs per week



Product Specification

- Supply Type: OEM Service
- Material Capabilities: Stainless Steel, Brass, Aluminum, Steel
- Process: Bending, Laser Cutting, Welding, Stamping
- Application: Auto, motorcycle, industry, agriculture, furniture, etc.
- Packing Details: Carton, Wooden Case, Plastic Cargo
- Color: Black, Silver, Customized Color
- Place Of Origin: China



More Images



Product Description

What We Can Provide

Innovative Metal Frame Parts for Extreme Environments in Aerospace Defense Automotive and Industrial Machinery Production

Description Of Innovative Metal Frame Parts for Extreme Environments in Aerospace Defense Automotive and Industrial Machinery Production

Innovative metal frame parts designed for extreme environments in aerospace, defense, automotive, and industrial machinery applications are engineered to withstand the most demanding conditions, including high temperatures, intense pressures, corrosive substances, and mechanical stress. These parts often leverage advanced materials, manufacturing techniques, and design philosophies to achieve superior performance and reliability.

Material Of Innovative Metal Frame Parts for Extreme Environments in Aerospace Defense Automotive and Industrial Machinery Production

Production Capability

Secondary Operations

Surface Operations	<ul style="list-style-type: none"> * Deburring work by machines, then by hands; * As long as you need no scratches on the products, we can use the film protected material for products during production; * Remove sharps of the products; * Ultrasonic cleaning after production.
Surface Treatments	Powder Coating, Polishing, Brushing, PVD Plating, PVC Coating, Ceramic Coating, Chrome Plating, Nickel Plating, Tin Plating, Copper Plating, Silver Plating, Sandblasting, Anodizing, Dacromet, Baking Varnish, Electrophoresis Coating, Zinc Plating, Hot Dip Galvanizing.
LOGO Printing	Laser Engraving, Silk-screening etc
Assembly Service	Yolanda provide products assembly service after each component production.
Custom Packaging	<ul style="list-style-type: none"> * Design packaging according to your products; * Make the packagings according to your requests; * Print your LOGO on the packaging as long as you need; * Other request according to your need.

Quality Control

1. Checking the raw material after they reach our factory----- Incoming quality control (IQC)
2. Checking the details before the production line operated
3. Have full inspection and routing inspection during mass production---In process quality control(IPQC)
4. Checking the goods after they are finished---- Final quality control(FQC)
5. Checking the goods after they are finished-----Outgoing quality control(OQC)

Why Choose Us

Advantages

Enhanced Durability and Reliability:

Innovative metal frame parts are designed to withstand extreme conditions without failure, ensuring the safety and longevity of critical systems. This is particularly important in aerospace and defense applications, where component failure can have catastrophic consequences.

For example, the use of nickel-based superalloys in jet engine components allows them to operate at temperatures exceeding 1,000°C without deformation or failure.

Weight Reduction and Improved Efficiency:

By leveraging lightweight high-strength alloys and topology optimization, innovative metal frame parts can significantly reduce the overall weight of vehicles and machinery. This leads to improved fuel efficiency, increased payload capacity, and enhanced maneuverability.

In the automotive industry, the use of aluminum and magnesium alloys in car frames has contributed to a reduction in vehicle weight, resulting in lower fuel consumption and reduced emissions.

Cost-Effectiveness Over the Lifecycle:

Although innovative metal frame parts may have a higher initial cost due to the use of advanced materials and manufacturing techniques, their superior durability and reduced maintenance requirements result in lower lifecycle costs. For example, the use of corrosion-resistant alloys in marine applications can significantly extend the service life of components, reducing the need for frequent replacements and repairs.

Additive manufacturing and generative design techniques provide unprecedented design flexibility, allowing engineers to create complex geometries that optimize performance for specific applications. This accelerates the prototyping process and enables faster iteration and refinement of designs.

Aluminum Material

Material:

Aluminum 5052
Aluminum 6061
Aluminum 6063 etc

Finish:

Anodic Oxidation
Polishing
Powder Coating
Spray Painting



Why Choose Us



Multiple Machines

5-Axis CNC & Imp Professional machines, skillful workers, machines, skillful
with accuracy of guarantee the quality and lead time. guarantee fast lead time



Strictly Confidential

We will protect the customers' design
and the customer can request a
confidentiality agreement



Quality Inspection

We have a strict quality inspection
process to ensure the quality of our
products

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

1. How can I get the price? - We usually quote within 24 hours after we get your inquiry (except weekend and holidays). If you are urgent to get the price, please email us or contact us in other ways so that we can offer you a quote.
2. Can I buy samples? - Yes. Please feel free to contact us.
3. What is your lead time? - It depends on the order quantity and the season you place the order. Usually we can ship within 7-15 days for small quantity, and about 30 days for large quantity.
4. What is your payment term? - T/T, Western Union, MoneyGram, and Paypal. This is negotiable.
5. What is the shipping method? - It could be shipped by sea, by air, or by express (EMS, UPS, DHL, TNT, FEDEX etc). Please confirm with us before placing orders.
6. How do you make our business long-term and good relationship? - We keep good quality and competitive price to ensure our customers benefit. Furthermore, we respect every customer as our friend and we sincerely do business and make friends with them, no matter where they come from.



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