Custom Electronic Instrument Aluminum Enclosure and Aluminum Case in 6063 Alloy with CNC Machined Precision for Industrial Applications

Our Product Introduction

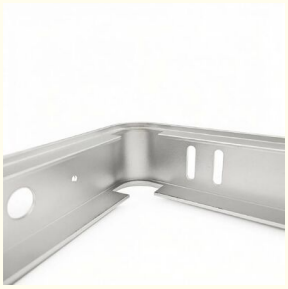
Basic Information

- Certification: SONCAP, ISO, RoHS, TUV
- Minimum Order Quantity: 500
- Price: 1

Product Specification

- Customization: Available
- Type: Decoration Aluminium Profile, Industrial Aluminium Profile, Aluminum Enclosure
- Shape: Square
- Grade: 6000 Series
- Temper: T3-T8
- Window & Door Aluminium Profile: 60 Series
- Alloy: Alloy
- Surface Finishing: Anodic Oxidation
- Alloying Ingredient: 6063
- Polished Aluminum Profile: Mechanical Polishing
- Surfacet Treatment: Anodizing/Powder Painting
- Logo: Laser/Etch/Engrave
- Colour: Customized
- Polish: Chemical/Mechanical Polish

More Images



for more products please visit us on aluminumextrusion-profiles.com

Our Product Introduction

for more products please visit us on aluminumextrusion-profiles.com

Product Description

Product Description

MetalPlus manufacture a wide range of high quality and customized standardized enclosures. We offer a variety of electronic industrial enclosures: aluminum profile housing, , die-cast aluminum box , standard aluminum chassis, rack mount housing, CNC precision machined parts, etc...

One of our special advantages is the custom aluminum profile housing. Use state-of-the-art CNC processing equipment to manufacture enclosures based on customer's exact specifications. We can deliver finished products on time and in a timely manner.

Products discription:

Item	Aluminum Extrusions For Electronics
Material	Alloy 6063, 6061,6060,6005,6082 or according to customer' s choice
Temper	T4, T5, T6 ,T66
Surface	Anodize (clear, satin, bronze, black, golden, silver, other multicolor) , electrophoresis, powder coating, PVDF coating, wood grain painting, etc.
MOQ	1 ton. Usually 12 tons for a 20 feet container; 24 tons for a 40 feet container.
Profile type	Industry Aluminum profile used in machinery ,trailers ,electronics, medical and other industrial filed .
Processing	Aluminium profile extruding ,Precise cutting,Straight rectification,Bending,Drilling,Tapping,Stamping,Pulling,CNC mill, CNC lathe. For precious machining and cutting, length tolerance can be 0.2mm, hole tolerance can be 0.05mm .
Moulding	1. Using our moulds 2. Producing the new moulds according to customer's drawing
Certificate	ISO14001:2004, ISO9001:2000,RoHS,SGS
Standard	Meet the China national standard GB/T6892-2006 and Europe standard EN12020-1,2(2001) and American standard AAMA611-98.
FOB Port	Shanghai, etc.

Product components:

PARTS			
S/N	PART NAME	QTY	MATERIAL
1	Extrusion profile	1	AL6063
2	Front and rear panels	2	AL
3	Screws	4/8	SS

Specifications :

1.Aluminum top+bottom plate with Aluminum case design.Suitable for rail transit, new energy,power equipment, meteo rological testing, marine monitoring and other application fields.

2.The extruded aluminium frame and diecast aluminium panels makes it extremely suitable to be used hostile environments where waterproofing and heat dissipation is essential.

3.PCB or chassis can be mounted by sliding it horizontally into inner-grooved body frame.

4.Suitable for measuring instruments, industrial control box, and industrial camera housing,wiFi outdoor access points. outdoor lot qatewavs.

Advantage :

1) Engineering design and support.
2) Aluminum profiles deeply processing:cutting,punching,drilling,milling,and fabricating.
3) High Quality system, strictly inspection during production and whole inspection before package.
4) Good performance, product warranty for 15 years.
5)OEM or ODM is welcome. Except our existing products we can arrange production according to customer's requirements. If you have your own designs or samples we can make molds and arrange production according to your product infor

Application :

Inverter , Signal-Amplifier ,Video Pusher , Changer of Lithium-Ion Battery ,Mini Host

Primary Technical Data

1) Chemical composition

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Impurity	Al
6063	0.2-0.6	0.35	0.1	0.1	0.45-0.9	0.1	0.1	0.1	0.15	Rest
6061	0.4-0.8	0.7	0.15-0.4	0.15	0.8-1.2	0.04-0.35	0.25	0.15	0.15	Rest
6060	0.3-0.6	0.1-0.3	0.1	0.1	0.35-0.6	-	0.15	0.1	0.15	Rest
6005	0.6-0.9	0.35	0.1	0.1	0.40-0.6	0.1	0.1	0.1	0.15	Rest

2) Mechanical property

Alloy	Temper	Tensile strength	Yield strength	Elongation
6063	T5	≥ 160Mpa	≥ 110Mpa	≥ 8%
	T6	≥ 205Mpa	≥ 180Mpa	≥ 8%
6061	T6	≥ 265Mpa	≥ 245Mpa	≥ 8%

Technical Support

1. Based on the customer's requirements, we help design the appearance of the extruded profiles, provide CAD drawings and 3D models for customer confirmation, customize the molds, and extrude the aluminum profiles that meet the customer's requirements.

2. For customers with design capabilities, our professional R&D team will analyze and optimize the design based on the customer's drawings and our experience in extrusion processing, using the most reasonable design to reduce production costs and improve product performance.

3. Our company adopts a "one-stop" service and production model, including product design, customized molds, aluminum bar melting and casting, extrusion profiling, precision machining, and surface treatment. We can effectively control the alloy composition of raw materials and maintain product accuracy throughout the production process, providing you with high-quality products.

Factory Equipment

Extrusion

Equipped with 44 aluminum extrusion lines, MetalPlus is capable of producing various standards of commercial aluminum profiles and industrial aluminum profiles with maximum outer diameter of 350mm.

MetalPlus has 44 aluminum profile extrusion lines equipped with PLC control systems and precise molds. The largest extruder used in the MetalPlus factory is a 6800 ton unit. The machine is used for the production of industrial profiles in various shapes with a maximum diameter of 600mm. This allows us to satisfy the different requirements of our various customers. Some of the aluminum products produced by MetalPlus include radiators, industrial fan blades, motor enclosures, solar cell frames, doors, and windows.

MetalPlus can produce custom molds according to customer requirements. We have the abilities and experience to produce aluminum profiles with complex structures. We have our own R&D team so we can provide reasonable suggestions for our customers in order to create superior products at affordable prices.

Anodizing

Anodizing is a process in which a layer of aluminum oxide is formed on the surface of aluminum alloy products when they are placed in an electrolyte solution and then an electrical current is applied. Oxidized aluminum profiles feature improved corrosion resistance so that the surface can withstand various weather conditions. Meanwhile, the aluminum oxide also increases the product's hardness and wear resistance. MetalPlushas 6 anodizing production lines. The profiles processed in our anodizing lines feature uniform oxidation film thickness and color giving them a beautiful appearance. The oxidized profiles come in various color options including silver, black, gold, champagne, and imitation steel. Other colors can be customized upon request.

The anodized products will all be inspected by highly trained professional inspectors. Defective products which cannot be re-processed will be directly scrapped. Products with uneven color will be de-coated and re-anodized until they can meet the requirements. This ensures that there is no color difference among each batch of products.

Painting

Our factory is equipped with 4 powder spraying lines and all of them are using high-quality spray nozzles from Gema Switzerland. In the meantime, MetalPlus only uses safe and environmental friendly paint with strong adhesive force as well as durable color retention.

CNC Machining

MetalPlus is equipped with highly advanced machining equipment sets. All fine machining processes are accomplished by technicians with rich industry experience. Strict industrial standards are adopted during production to ensure fine machining precision and product quality.

1. MetalPlus has 12 PRATIC machining centers which can be used for the milling, drilling or tapping of profiles from different angles. They are

especially suitable for the production of long profiles up to 6 meters. The equipment sets can realize machining of complex profiles with the simplest methods

2. MetalPlus has fully automatic cutting machines from Wegoma which can accomplish precise cutting with automatic and continuous material feeding, which means that the machines feature low labor cost and high production efficiency. Therefore, the cutting price of MetalPlus is significantlylower than that of the other enterprises in the industry.

3. We have 30 punching machines of which the punching pressure ranges from 50 to 100 tons. They can be used for the punching of relatively thick profiles of which the thickness can be over 5MM. There are also 10 stretch bending machines/bending machines which can realize bending of profiles to arc or different angles. The machining angle is highly precise. The factory is also equipped with 10 milling machines, realizing machining of different planes, bevels or grooves so that we can satisfy different machining requirements of our customers.

Packing and Shipping

Finished products are packaged manually and ready for delivery. MetalPlusadopts strict warehouse management procedures; the finished product warehouse is divided into sections to store specific products, any in & out transactions have to be recorded and each product has to be examined before delivering.

Certifications

Company History

In 2004 "THE RECOGNIZED BRAND OF THE BUILDING INDUSTRY MATERIAL MARKET"

In 2006 "CERTIFICATE FOR PRODUCT EXEMPTION FROM QUALITY SURVEILIANCE INSPECTION " and "ISO9001"

In 2009 "ADVANCED COMPANY "

In 2009 "JIANGSU FAMOUS BRAND CERTIFICAT "

In 2009 "CERTIFICATE FOR CREDIBLE PRODUCT OF QUALITY IN JIANGSU PROVINCE"

In 2012, Established the business relation ship with Panasonic , LG .

In 2015, be and inovative producer an supplying partner for Germany Client .

In 2017, Developed the new products of baseboard heaters .

In 2019, Cooperate with the world's largest Heater Manufacturers , and supply the Aluminum Shells for them .Won a good reputation !

In 2023, We will confidence to develop oversea distributor , to expand market for win-win benefits .

Project

The Soccer City Stadium, in Johannesburg is one of the major project of south African ,the 94 000 seat stadium is the largest capacity stadium in Africa .

We are very honored to participate in the construction of the project as the main supplier of aluminum!

The Soccer City Stadium won unanimous praise after it was built!

Lobster Trailers is a Nordic trailer giant ,we are very pound to cooperate with them .
Our professional R&D team analyze and improve upon Lobster's designs and then process them with our excellent processing equipment , exquisite technology . We minimize production costs and improve product performance thanks our optimization proficiencies.

We are very glad that our local customer Dadnwon the bid of the school project , and we supplied the Aluminum Legs of the school desks for them .

With our strong design and mature technics ,we will help more customers to get the tender .

MetalPlus' professional R&D team assist our Canadian Customer SmartLux design the Heater Enclosure .Then we produce custom molds , extruded the profiles , arrange the finished machining , powder painted the Heaters , install the products . And create superior products for our customer .

Hentec Industry Co.,Ltd

+86-13861643436 aluminum@hentec.com.cn aluminumextrusion-profiles.com

Qinfeng Road No.555 Huashi Town Jiangyin Jiangsu China (mainland) 214421