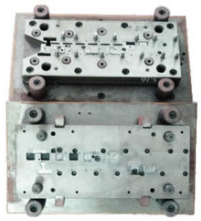
±0.02Mm Tolerance Stage Die ATM Hardware Die Cast Mold Manufacturers

Our Product Introduction

Basic Information

- Place of Origin: China
- Minimum Order Quantity: 1000
- Price: $ +3000~15000+Pcs
- Delivery Time: 15-20
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 3000+pcs+Month



Product Specification

- Sizi: Customized Size
- Lead Time: 4-6 Weeks For Manufacturing
- Standards: Manufactured According To ISO 9001:2015 Standards
- Tolerance: ±0.02 Mm
- Type: Single-stage Die
- Suitable Materials: Aluminum, Steel, Plastic
- Technical Drawing: Attach Technical Drawing Detailing Dimensions And Design
- Highlight: **0.02Mm Tolerance Stage Die**, **ATM Hardware Die Cast Mold Manufacturers**, **Stage Die ATM Hardware**

Our Product Introduction

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Product Description

Item	Description
Product Name	±0.02Mm Tolerance Stage Die ATM Hardware Die Cast Mold Manufacturers
Working Process	Blanking, stamping, Punching, deep drawing, bending, Coining, Curling,Forming, threading,welding, tapping, riveting, cnc machining, CNC Milling
Material	carbon steel, Stainless steel Aluminum, copper, brass, bronze (according to customer's requirements)
Surface Treatment	Galvanized, Zinc, nickel, chrome-plated, Powder Coating, Polishing, Spraying, Anodizing, Pickling, E-coating, etc.
Packing	Inner-Plastic Bag; Outer -Standard Carton Box + Pallet/Wood Case
Application	Automobiles, Construction, Transportation, Furniture, machinery, home appliance, electronic & electric appliance, Agricultural Equipments
Equipments	stamping/punching machine, CNC bending machine, CNC Laser cutting machine, 5-250T punching machines, Welding Manapulator
Thickness	0.5mm~12mm
File Format	Solidworks,Pro/Engineer,Auto CAD,PDF,JPG
Service	Warm and quick response service provided by the professional Export Sales Team with many years' experience in handling exports to the US, Europe, Japan and other countries and regions.
Inspection	100% QC as to each products

China Precision Customized ATM Hardware Stage Die

1. Design:

Type: Single-stage die

Design Complexity: Medium

Die Cavities: 1

Die Material: Tool Steel

2. Dimensions:

Overall Size (L x W x H):150 mm x 100 mm x 50 mm

Die Cavity Size: As per client's drawing (e.g., 50 mm x 50 mm x 20 mm)

3. Materials:

Die Material: D2 Tool Steel

Hardness: 58-62 HRC

Surface Finish: Ra 0.8 microns

4. Performance Characteristics:

Tolerance: ±0.02 mm

Expected Lifespan: 100,000 cycles

Suitable Materials: Aluminum, Steel, Plastic

5. Other Features:

Cooling Channels: Yes

Ejection System: Spring-loaded pins

Surface Treatment: Nitriding for wear resistance

6. Compliance:

Standards: Manufactured according to ISO 9001:2015 standards

Safety: Compliant with relevant safety regulations (e.g., CE)

7. Additional Notes:

Customization: Can be customized based on client specifications

Lead Time: 4-6 weeks for manufacturing

8. Technical Drawing:

(Attach technical drawing detailing dimensions and design)

Creating precision customized ATM hardware, such as a stage die, involves several key steps to ensure that the final product meets the required specifications and quality standards. Here is an outline of the process:

1. Design Phase

Requirements Analysis: Understand the specific requirements of the ATM hardware. This includes dimensions, material specifications, and functional requirements.

CAD Modeling: Use Computer-Aided Design (CAD) software to create detailed 3D models of the stage die. This includes all components and their interactions.

Simulations: Perform simulations to ensure the design will function as expected under various conditions.

2. Material Selection

Material Properties: Choose materials based on their mechanical properties, such as strength, durability, and corrosion resistance. Common materials for precision dies include tool steels and carbide.

Supplier Selection: Source high-quality materials from reputable suppliers to ensure consistency and reliability.

3. Prototyping

Initial Prototypes: Create initial prototypes using methods like CNC machining or 3D printing. These prototypes help in verifying the design and making necessary adjustments.

Testing and Validation: Test the prototypes under real-world conditions to validate their performance.

4. Manufacturing

Precision Machining: Use high-precision CNC machines to manufacture the stage die components. This ensures tight tolerances and high-quality finishes.

Quality Control: Implement rigorous quality control measures at every step of the manufacturing process. This includes dimensional inspections, surface finish checks, and hardness testing.

Assembly: Carefully assemble the components, ensuring that all parts fit together precisely and function smoothly.

5. Finishing and Treatment

Heat Treatment: Apply heat treatments to enhance the mechanical properties of the die, such as hardness and wear resistance.

Surface Treatment: Perform surface treatments like coating or plating to protect against corrosion and wear.

6. Final Inspection

Dimensional Inspection: Use coordinate measuring machines (CMM) to check all dimensions and ensure they meet the design specifications.

Functional Testing: Conduct functional tests to ensure the die operates correctly within the ATM hardware.

7. Delivery and Support

Packaging: Package the die securely to prevent damage during transportation.

Documentation: Provide detailed documentation, including design specifications, material certificates, and inspection reports.

After-Sales Support: Offer support for installation, maintenance, and any potential issues that may arise.

By following these steps and choosing a reputable manufacturer, you can ensure the successful creation of a precision customized ATM hardware stage die that meets your specific needs.

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