



High-Strength Steel Stamping Supplier Breaking 650MPa Cold Working Limit with Advanced Die Design

Our Product Introduction

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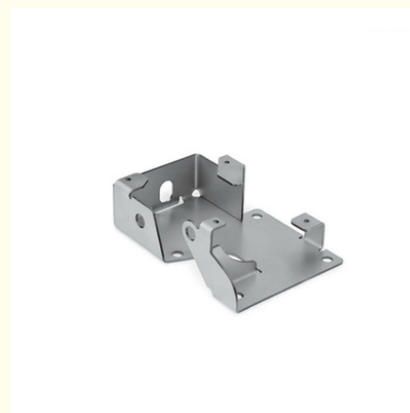
Basic Information

- Place of Origin: Shenzhen China
- Brand Name: Xianheng
- Certification: ISO9001:2015
- Model Number: PMS-XG-089
- 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

- Material: Copper, Stainless Steel, Aluminum, Brass, Etc.
- Surface Treatment: Hot Galvanized, Zinc Plating, Nickel Plating, Powder Plating, Anodize
- Process: Stamping, Punching, Bending, Punching Of Stamping Blanks, Stamping + CNC
- Application: Construction, Industrial, Used Widely Industry Auto, Mechanical Equipment, Auto Parts
- Service: OEM/ODM, OEM ODM Metal Stamping, Customized OEM OEM ODM, OEM Service
- Tolerance: 0.01mm, 0.05 Mm, +/-0.005, 0.003-0.05mm
- Oem: Available
- Quality: ISO9001
- Keywords: Custom Stamping Metal
- Packing: As Customers' Requirement



More Images



Product Description

What We Can Provide

High-Strength Steel Stamping Supplier Breaking 650MPa Cold Working Limit with Advanced Die Design

Description of High-Strength Steel Stamping Supplier Breaking 650MPa Cold Working Limit with Advanced Die Design

"High-Strength Steel Stamping Supplier Breaking 650MPa Cold Working Limit with Advanced Die Design" refers to a technical achievement where suppliers utilize cutting-edge die design to process high-strength steel (HSS) beyond the conventional 650MPa cold working stress limit. This breakthrough enables the production of ultra-high-precision components with enhanced strength-to-weight ratios, critical for automotive, aerospace, and industrial applications. Advanced die design incorporates optimized geometries, wear-resistant coatings (e.g., PVD), and real-time process simulation to mitigate tool wear and material cracking.

Specification of High-Strength Steel Stamping Supplier Breaking 650MPa Cold Working Limit with Advanced Die Design

Name	Custom OEM Laser Cutting Sheet Metal Fabrication Services Copper Stainless Steel Anodised Aluminum Metal Stamping bending Parts
Material	Zn-plating, Ni-plating, Cr-plating, Tin-plating, copper-plating, the wreath oxygen resin spraying, the heat disposing, hot-dip galvanizing, black oxide coating, painting, powdering, color zinc-plated, blue black zinc-plated, rust preventive oil, titanium alloy galvanized, silver plating, plastic, electroplating, anodizing etc.
Applications	Automotive, instrument, electrical equipment, household appliances, furniture, mechanical equipment, daily living equipment, electronic sports equipment, light industry products, sanitation machinery, market/ hotel equipment supplies, artware etc.
Packaging	Regular: Paper, Foam, OPP bag, Carton; Other: According to customers' requirements
Testing Equipment	Projecting apparatus, Salt Spray Test, Durometer, and Coating thickness tester
Tolerance	±0.01-0.05mm
Drawing	JPG, PDF, CAD, DWG, STP, STEP

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)

Application Of High-Strength Steel Stamping Supplier Breaking 650MPa Cold Working Limit with Advanced Die Design

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

Why Choose Us

Advantages

Enhanced Material Performance: Enables cold forming of HSS grades (e.g., dual-phase, martensitic steels) with yield strengths exceeding 650MPa while maintaining ductility and dimensional stability. This reduces part weight by up to 25% compared to conventional stamping.

Extended Tooling Lifespan: Advanced die coatings and optimized geometries minimize galling and wear, extending tool life by 30-50%. For example, PVD-coated dies reduce friction during high-pressure forming, lowering maintenance costs.

Improved Production Efficiency: Precision die design allows single-operation forming of complex geometries, eliminating secondary processes like welding or machining. This reduces cycle times by 15-20% and enhances throughput.

Sustainable Manufacturing: Optimized hydraulic systems and energy-efficient presses reduce energy consumption by 30%, aligning with carbon neutrality goals. Process simulation ensures minimal material waste, achieving >95% material utilization rates.



Multiple Machines

5-Axis CNC & Imp Professional machines, skillful workers, machines, skillful
with accuracy & 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

Stainless Steel Material

Material:

Stainless Steel 201
Stainless Steel 430
Stainless Steel 304
Stainless Steel 316

Finish:

Mirror Polishing
Brush Polishing
Electro Polishing
Vibration Polishing



FAQ

Q1: Where can I get product & price information?

A1: Send us inquiry e-mail, we will contact you as we receive your mail.

Q2: How long can I get the sample?

A2: Depends on your specific items, within 3-7 days is required generally.

Q3: What kinds of information you need for quote?

A3: Kindly please provide the product drawing in PDF, and will be better you can provide in STEP or IGS.

Q4: What are the payment terms?

A4: We accept 50% as payment deposit, when the goods is done, we take photos for your check and you then pay the balance.

Q5: Are you a trading company or factory?

A5: We are direct factory with 10 experienced engineers and more than 650 employees as well approximate 2,000 square ft. workshop area.

Q6: What shall we do if we do not have drawings?

A6: 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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