HLC METAL PARTS LTD

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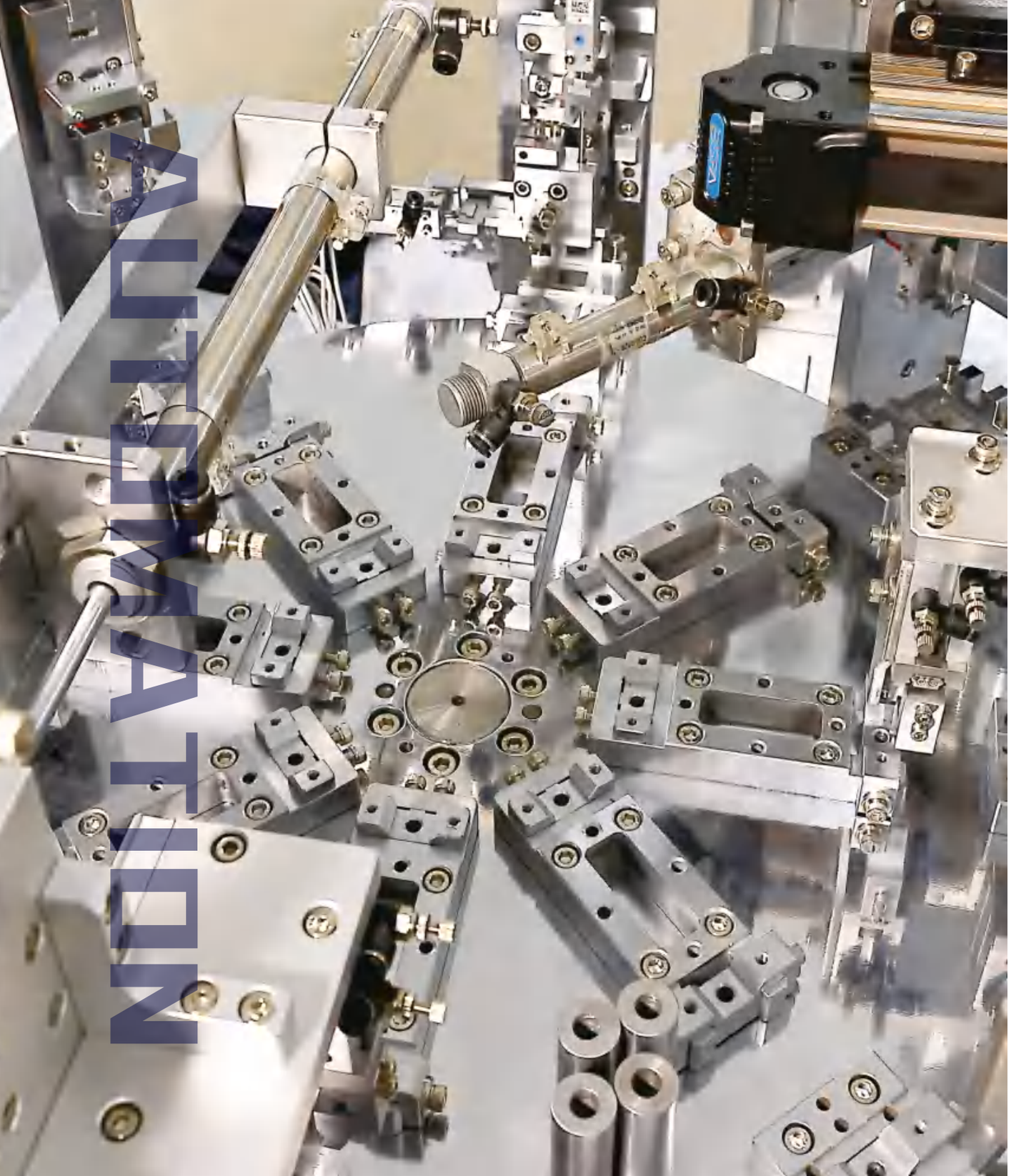

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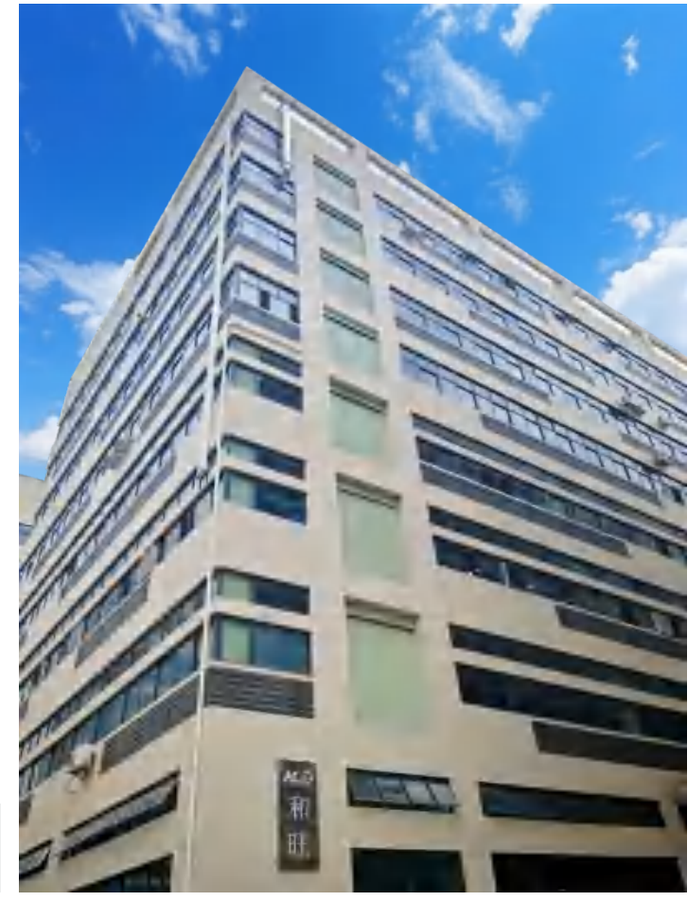
Company Profile

HLC is a leading manufacturer specializing in customized components, with expertise in engineering and manufacturing metal and plastic injection parts. Our core services include in-house mold design and mold-making, supported by advanced automated production equipment and precision testing instruments.

Our facilities are equipped with advanced automated production equipment and precision testing instruments, ensuring the highest level of quality and efficiency. HLC is certified with IATF 16949 and ISO 13485, meeting the stringent requirements of industries worldwide.



20000m+	220+	90%
Total Factory Area	Total Staff	Export Ratio

Headquarters & Plant:
Dongguan City, China

Global Presence:
Office: Saltillo, Mexico
Office & Plant:
Plovdiv, Bulgaria

The parts manufactured by HLC are widely used in various industries, including:

- Electronics
- Energy storage industry
- Medical Devices
- Automotive
- Mechanical industry

We provide end-to-end solutions, covering every stage of production—from prototyping to mass production. Our comprehensive production capabilities include:

- Precision Stamping
- Machining parts
- Injection Molding and Mold Manufacturing
- Special screws
- Automated Assembly

Customer Service

We are committed to delivering the highest standards of customer service.For any questions or assistance, please feel free to contact our Customer Careline.Our guiding principle is to serve all clients fairly, equally, objectively, and reasonably.

Client list

ABB
NOVENTA
BOSCH
Sensata
Panasonic
MARTINREA
HITACHI Inspire the Next
EMERSON
alfanar
MAGNA
ZF
TDK
flex
TE connectivity
infineon
steinel
CLAYENS MEXICO
inim
BERNINA
HEBERLEIN
WÜRTH
SIEMENS Healthineers
JABLOTRON
SCHALTBAU
IFA
Honeywell
prolec
LAPP

Company History

2003

HLC METAL PARTS LTD. was established, specializing in the production of stamping parts,machining parts and silver contacts.

2012

HLC acquired ISO9001:2009 certification.

01

2013

HLC MEXICO METAL Y MOLDEO POR INYECCION was established, specializing in the development and design of precision stamping parts and plastic injection mold parts.

02

2013

HLC acquired TS16949:2009 certification.

2017

HLC acquired IATF:16949 certification.

03

2020

Plastic injection molding workshop was established, specializing in the designing and manufacturing of plastic injection molding, molds and jigs

04

2023

HLC METAL TECHNOLOGY LTD -Bulgaria company was established.

2024

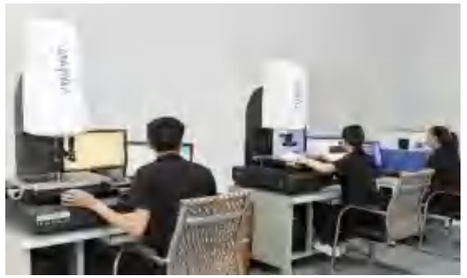
The Tian An headquarters was founded

05

2024

HLC Bulgaria plant was founded

06



Quality Management

We have a strong quality control system with IATF 16949 quality control certifications to help us to achieve customer satisfaction.

Quality guarantee

HLC has a strong team for quality control also equipped with precision machines like CMM,profile projector,hardness testers and inspection gages and so on .

Strict Quality Assurance

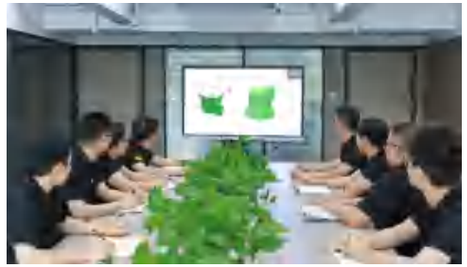
Inspection	3D Measuring Machine 2D Measuring Machine Projector RoHS Tester Salt Spray Testing Cabinet	Digital Torque Meter Coating Thickness Indicator Rough Meter Force Gages Hardness Testers	Inspection Gages Assembly Simulation Fit and Function Gages Pressure Testing Leak Testing Color Meter
Testing	High POT		
Quality	IATF:16949 PPAP FMEA SPC	FA Inspection Lot Controlling CPK Data Statistical data collection	Gage R&R Proven Track Record Strong QA program and systems Customer Referrals and Testimonials

Strong engineer support

Feasibility study(DFM)
Optimized designing solution
Mold flow
Over two decades of industry experience and proficient in the design and manufacturing processes
skilled in using professional software such as AutoCAD, SolidWorks, Pro/E, UG and Moldflow.
With a wealth of successful cases, they can quickly overcome technical problems

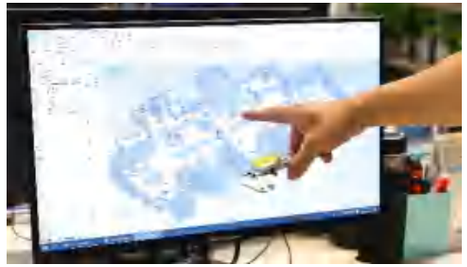
Under the premise of meeting customer needs, we use the most cost-effective process solution to help customers save costs, and communicate with customers about possible risks by providing DFM reports.

one - stop services, from design consultation in the research and development stage, serial production progress

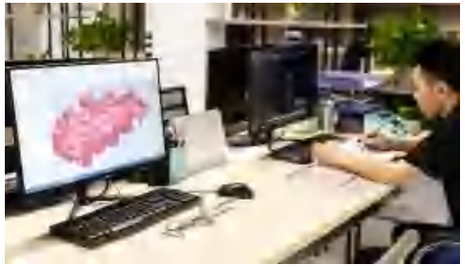


Project Review

Project Discuss



Product Design Review

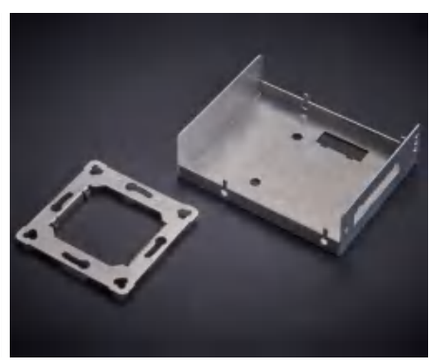


Product Modeling

Small Stamping Parts and Precision Molds

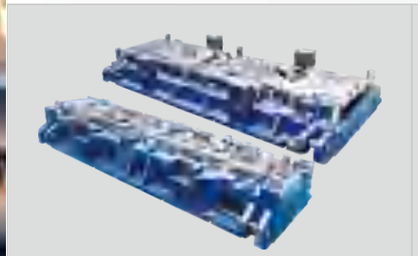
Materials:
Stainless Steel (e.g., SUS304, SUS301,SUS316).
Aluminum Alloys (e.g., AL6061,AL5052, AL1050).
Copper Alloys (e.g., brass, phosphor bronze, copper).
Steel/ Iron (e.g., SPCC, SPHC,Q235).
Surface Treatments:
Electroplating (e.g., zinc-plating,Tin-plating, nickel-plating, gold-plating, silver-plating, chrome plating,).
Powder Coating.
Passivation for corrosion resistance.

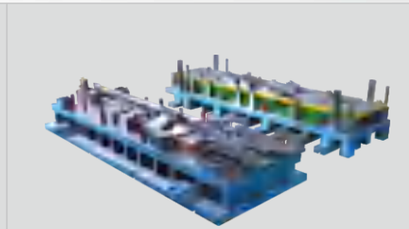
Production capacity:
Production equipment list: machine Tonnage 25T-250T.
Tolerance ±0.01mm



Custom products
are done by progressive
die and stage die

Tooling assembly by skilled operators





Precision Molds and Inserts

Precision Stamping Molds

Materials:

Tool Steel: SKD11, SKH-9, D2, Dc53.

Carbide Alloys: Tungsten carbide for high durability and wear resistance.

Stainless Steel: SUS420, SUS440C for corrosion resistance and precision components.

Surface Treatments:

Heat Treatment: Quenching and tempering to enhance hardness and toughness.

Coating Options: TiN (Titanium Nitride), TiCN (Titanium Carbonitride), CrN (Chromium Nitride) for extended tool life.

Polishing: High-precision polishing to achieve mirror surfaces.

Production Capacity:

Manufacturing Equipment: High-speed CNC machining, Sodic wire EDM, precision grinding machines.

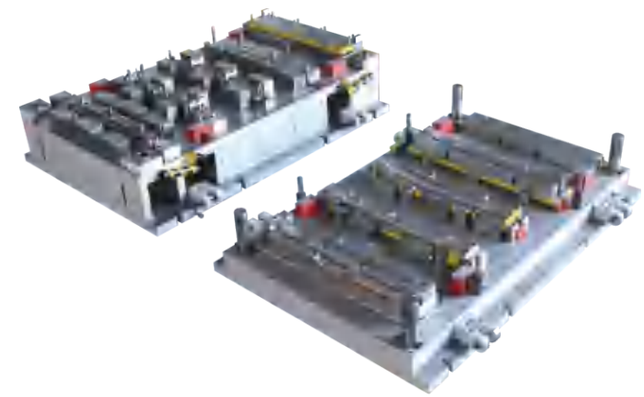
Precision Tolerance: Up to ±0.005mm, ensuring exceptional mold accuracy and product consistency.

Metal product stamping,precision mold manufacturing

All employees have won the trust of customers with their solid technical strength, stable quality and good reputation. If HLC is lucky enough to become your company's partner, we will satisfy you with our meticulous and thoughtful service and exquisite craftsmanship. , we look forward to your visit and guidance!

Large Stamping Parts and molds:
High-Strength Steel: DP steel,CP steel,MS Steel,PH steel, automotive components.
Aluminum Alloys: AL5052, AL6082 for weight reduction and corrosion resistance.
Galvanized Steel: For enhanced rust protection in exposed parts.
Stainless Steel: SUS304, SUS430 for parts requiring high corrosion resistance.

Surface Treatments:
Electroplating: Zinc-plating and nickel-plating for corrosion and wear resistance.
Powder Coating: Durable and decorative finishes for exposed parts.
Heat Treatment: Enhances strength and stress resistance.
Production Capacity:
Equipment Range: High-capacity stamping presses ranging from 250T to1600T, suitable for large and complex automotive parts.
Precision Tolerance: ±0.05mm, ensuring accuracy and consistency in mass production.
Batch Sizes: Flexible production from prototypes to high-volume runs.



Custom structural automotive metal spare parts

Automatic Lathe

Materials: copper, iron, aluminum, stainless steel and other materials.
Surface treatment range: zinc-plating, nickel-plating, tin-plating, gold-plating,silver-plating, chrome-plating etc.
Production equipment list: 20 CNC automatic lathes, 22 CNC milling center, 50 other equipments-
Production process: milling, drilling, tapping, boring, and grinding

Production capacity

Tolerance: ±0.001MM
Environmental reguirements: RoHS
Order nature: OEM/ODM orders accounts for 90%

CNC Parts

Equipped with modern manufacturing machinery, HLC provides customers with high-precision turning and CNC machined components, starting from design assistance and then end with the finished made-to-order turned component Our investment in both technology and employees' training ensures that parts are delivered to customers in high quality.

Production capacity

- Tolerance: ±0.001MM
- Environmental requirements: RoHS
- Order nature: OEM / ODM orders accounts for 90%

Machining parts

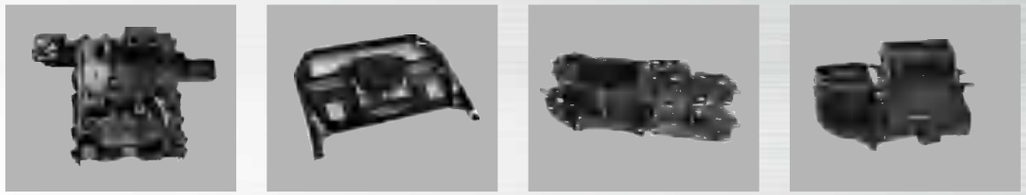
·Materials: copper, iron, aluminum, stainless steel and other materials.

- Production Process: CNC milling,CNC drilling, CNC tapping, CNC boring, and CNC grinding
- Surface treatment range: zinc-plating, nickel-plating, tin-plating, gold- plating,silver-plating, chrome-plating etc.
- Production equipment list: 20 CNC automatic lathes, 22 CNC milling center machines, 50 other equipments
- Tolerance: ±0.001MM
- Environmental requirements: RoHS
- Order nature: DEM /ODM orders accounts for 90%

Plastic Injection Molding

Custom plastic injection mold design solutions,Specializing in manufacture of high quality injection mould tools ,jigs and fixtures for the plastics industries.
Proficient in DFM and Mold Flow Analysis
Mould Standards:DME,HASCO,MISUMI,MEUSBURGER,etc.
Mold feasibility analysis (DFM)---Moldflow analysis (Moldflow)---3D design---Mold processing (CNC, EDM)---Mold assembly---Mold trial and debugging---Mold acceptance and delivery

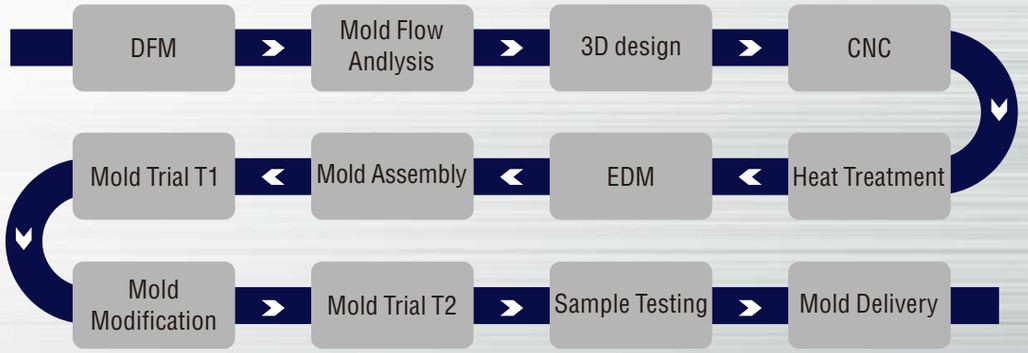
Medical plastic components



Automotive plastic components

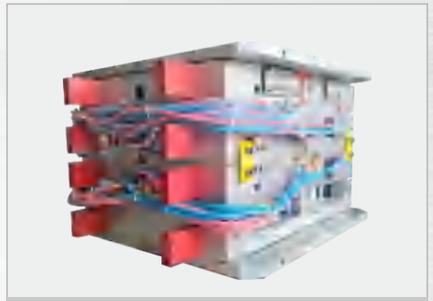
Electronical plastic components

Plastic mold manufacturing flow chart



Plastic Injection molds

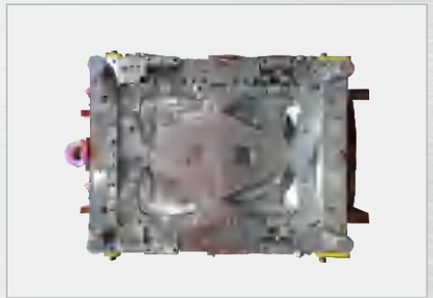
Materials:
Tool Steel: SKD11, SKH-9, D2, Dc53.
Carbide Alloys: Tungsten carbide for high durability and wear resistance.
Stainless Steel: SUS420, SUS440C for corrosion resistance and precision components.
Surface Treatments:
Heat Treatment: Quenching and tempering to enhance hardness and toughness.
Coating Options: TiN (Titanium Nitride), TiCN (Titanium Carbonitride), CrN (Chromium Nitride) for extended tool life.
Polishing: High-precision polishing to achieve mirror surfaces.



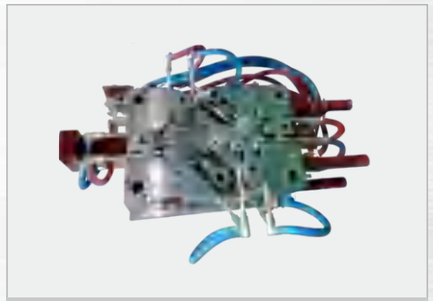
Hot Runner Injection mold

Cold Runner Injection mold

Front Mold



Rear Mold

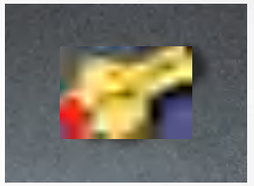


2K Mold

Insert Mold

Fasteners

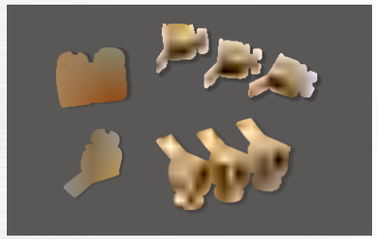
Fasteners are essential components used to mechanically join or affix two or more objects together. They are widely used in various industries, including automotive, aerospace, construction, electronics, and manufacturing. Fasteners come in a wide variety of types, sizes, and materials, each designed for specific applications and environments. Common types of fasteners include: Bolts, Screws, Nuts, Washers, Rivets, Anchors.

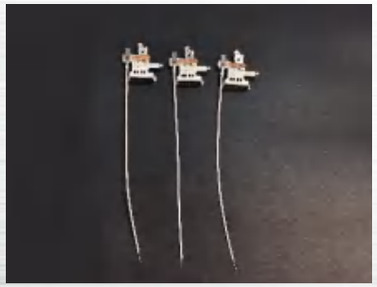


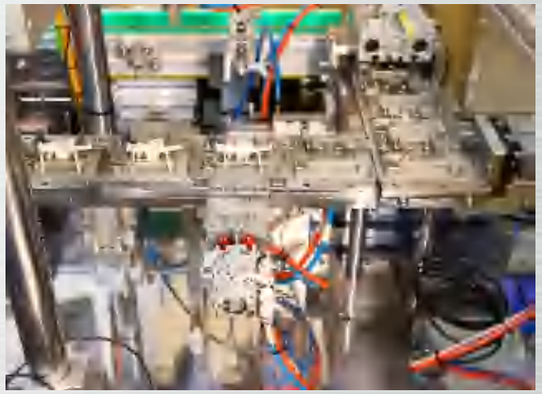
Production capacity:
Materials: Carbon Steel, Stainless Steel, Aluminum, Brass, Copper,Titanium
Surface treatment range: Zinc Plating, Hot-Dip Galvanizing, Nickel Plating, Chrome Plating, Anodizing, Phosphate Coating, Powder Coating, Passivation, Gold plating, Sliver plating etc.
Production equipment list: Multi-station Cold Heading Machines, Hot Forging Machines, Thread Rolling Machines
Tolerance: ±0.001MM
Environmental requirements: RoHS
Order nature: OEM/ODM orders accounts for 90%

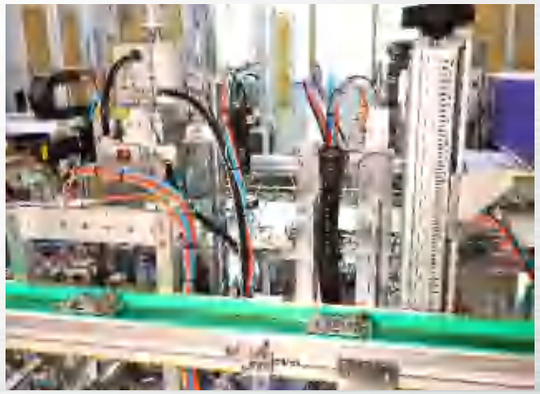
Precision metal stamping Products and welding/riveting process

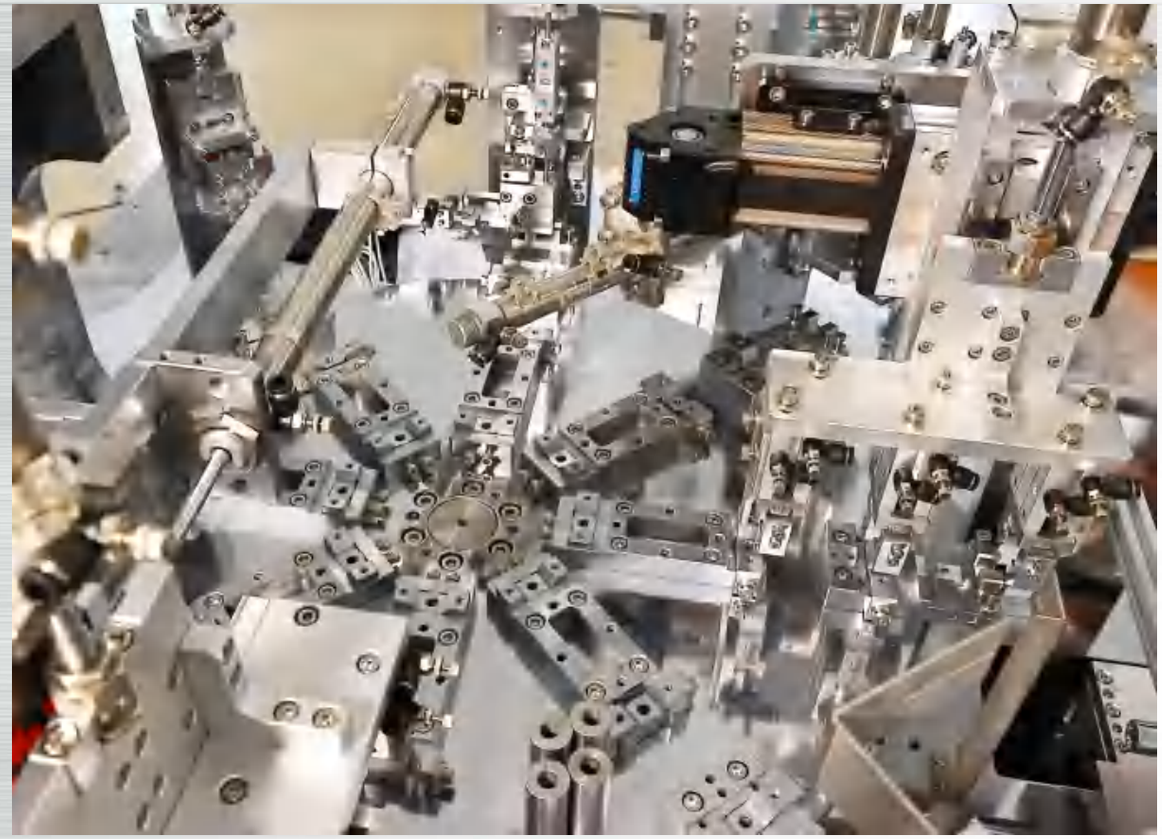
HLC manufacture a wild range of silver contacts,contact rivets,and precision stamped and bending parts according to customer design. The parts are widely used in switching and controlling, electronics, telecommunications, safety devices and automotive industries.





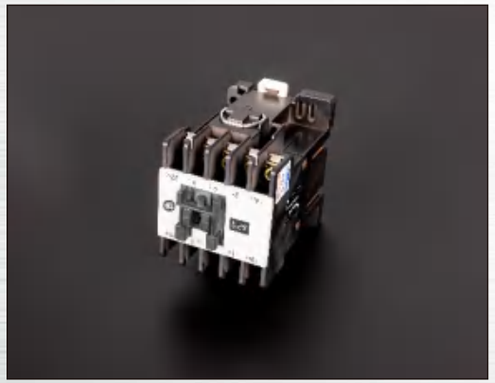


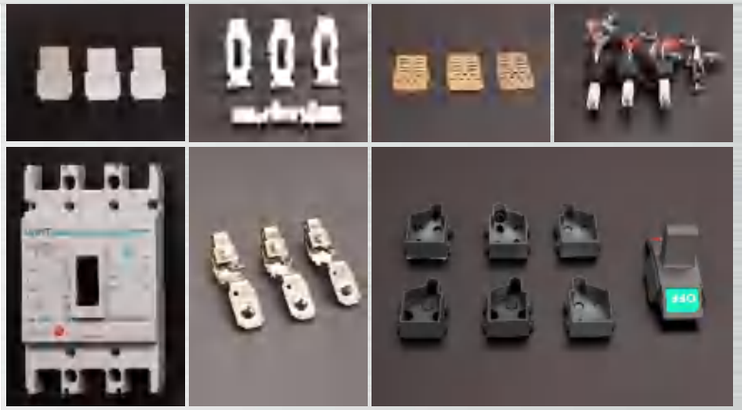




Automated Assembly Solutions

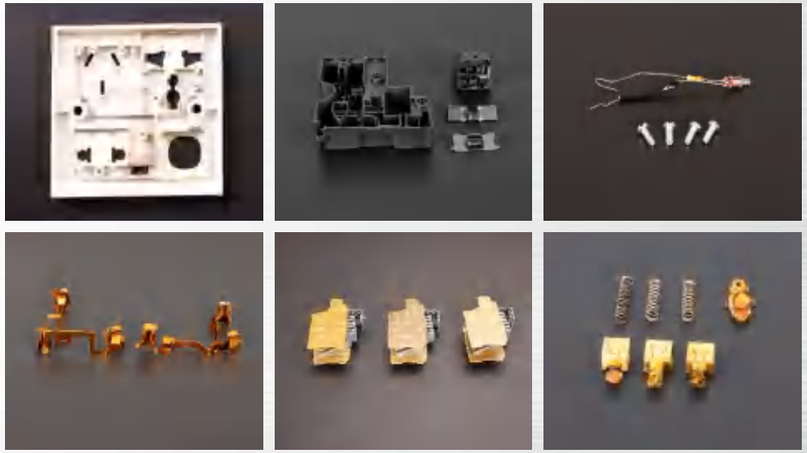
1. Automated Equipment
Our cutting-edge automated assembly equipment integrates high-speed, precision technology to ensure consistent and reliable performance.

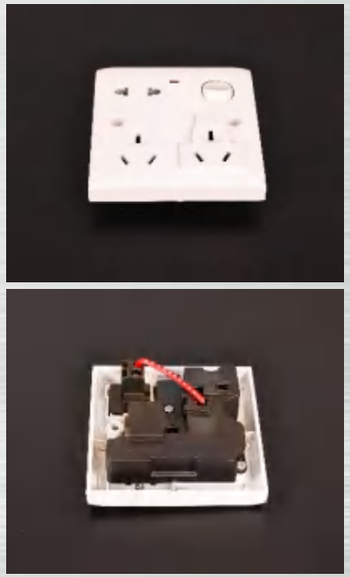




2. In-Machine Processing
Our automated equipment is capable of performing multiple processes within the machine to streamline production.

Processes:Stamping, punching, or forming.Precision welding and riveting. Threading, drilling, and tapping.Precision: With tolerances up to ±0.01mm, our in-machine processing ensures high accuracy and consistency.





3. Automated Assembly Products
We specialize in producing automated assembly products that meet stringent quality and performance requirements across various industries.
Not only can it automatically assemble, but it can also design and customize automation equipment according to customer's product requirements.

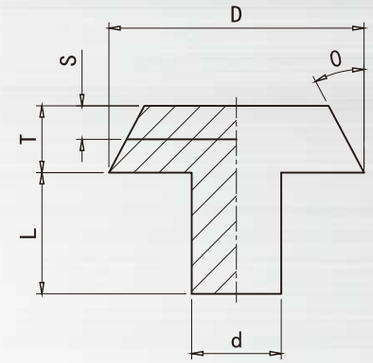
Stamping parts with Riveting & Welding Silver Contacts

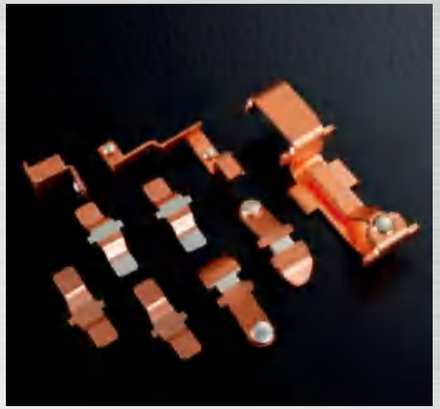
HLC produces a wide range of silver contacts, contact rivets, and precision stamped and bent parts according to customer design.
The parts are wildly used in switching and controlling, electronics, telecommunications, safety devices and automotive industries.
Our advantages in both technologies and training ensure the high quality of our products.

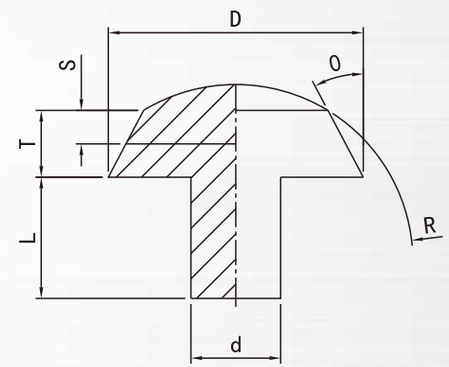
Carrier materials	
Copper and copper alloys (E-Cu / CuSn / CuZn / CuAg / CuBe)	
Thickness	Width
0.5 … 2.0 mm	12.0 … 60.0 mm

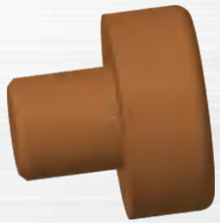
Contact materials	Thickness	Width
Ag 99.97	0.5 … 3.0 mm	0.65 … 6.0 mm
AgNi	0.5 … 3.0 mm	0.65… 6.0 mm
AgCu	0.5 … 3.0 mm	0.65… 6.0 mm
$AgSnO_2$	0.5 … 3.0 mm	0.65… 6.0 mm
$AgSnO_2In_2O_3$	0.5 … 3.0 mm	0.65… 6.0 mm

Other combinations and dimensions are available upon request.









Bulgaria Plant&Warehouse

Advanced Stamping and Automated Equipment
Stamping Equipment and Automated Machinery
Our factory is equipped with state-of-the-art stamping and automated assembly equipment to meet diverse production needs.

Stamping Equipment:
High-speed presses ranging from 25T to 400T, capable of handling complex shapes and high-volume production.

Automated Equipment:
Multi-functional workstations combining tasks like riveting, welding, and inspection.
Vision-guided systems for component alignment and real-time quality checks.

Warehouse management
It has a one-stop constant temperature and humidity warehouse to provide customers with goods storage and transit services

Factory Overview:
Modern, spacious production facilities optimized for streamlined workflows.
ISO-certified environment ensuring compliance with international standards.
Continuous investment in cutting-edge technologies for enhanced productivity.

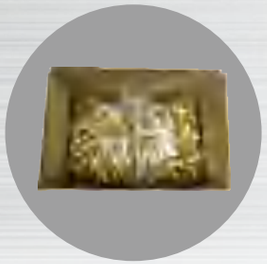
Technological Excellence: Industry-leading equipment for stamping and automation.
Reliable Production: High efficiency with reduced waste and consistent quality.
Custom Solutions: Tailored products and processes to meet specific customer needs.

Warehouse&Delivery

Raw materials are managed following the first - in - first - out (FIFO) principle to mitigate risks of material deterioration, rust, and inventory backlogs
Using warehouse management system (WMS) is employed to enable real - time digital tracking and management of inventory. and accurately records crucial information such as the in - bound and out - bound details of goods, as well as the current inventory quantity.
Visual labeling is implemented to facilitate swift location, search, and tracking of items.
Regular inventory audits to ensure that the inventory data aligns precisely with the actual stock

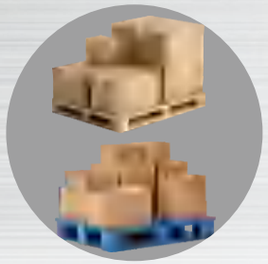
T&R Package

PE Bulk Package



Inside Package of Box

Carton Box



Packing with Wood&Plastic Pallet

Complete Package