



产品画册
PRODUCT BROCHURE

常州维乐德机械科技有限公司

Changzhou WELD Machinery Technology Co., Ltd

智能 / 高效 / 节能 / 低碳

SMART / EFFICIENT / ENERGY SAVING / LOW CARBON





公司简介

Brief Introduction

CHANGZHOU WELD MACHINERY LTD is a technology-based enterprise integrating independent design, manufacturing, sales and service in the field of automation equipment. Since its establishment, the company has always adhered to the business principles of establishing a business with integrity, people-oriented, and customer first. Gather industry elites, provide comprehensive solutions for enterprises, and achieve rapid and stable development of enterprises. The equipment produced and sold by the company is widely used in various industries such as automotive lamps, automotive interior and exterior decorations, automotive containers, home appliances, medical care, toys, etc., with customers all over the country and overseas. The company's equipment for plastic welding solutions is as follows; ultrasonic welding machine, hot plate welding machine, hot riveting welding machine, servo welding machine, hot pressing hemming machine, bumper punching machine, robot flexible welding machine; molds include, hot plate Welding molds, ultrasonic molds, hot riveting molds, vibration friction molds and various tooling. The company provides equipment solutions for the entire production line for car lamp manufacturers, including riveting presses, airtight machines, CCD light shapers, pressing machines, dust collectors, work tables and other tooling.

The company's development concept is stability, development and innovation, with customer interests as the principle, service-oriented as the goal, and a century-old enterprise as the ideal to contribute to the automation industry.

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1.1 Ultrasonic Welding Machine

15KC Ultrasonic Welding Machine (High Power)



function & Specification

frequency: 15-20KHZ
power: 4200-6000W
air pressure: 0.1-1.0MPA
Voltage: AC220V
Welding head stroke: 100MM
Dimensions: 750*800*2000MM
output time: 0.01S-9.99S
Intelligent management: Amplitude, Quality, Safety
Body weight: 350KG
Operating mode: button, external control
Circuit system: Digital intelligent automatic frequency tracking
system language: Chinese-English
Operation interface: 4.3 touch inside
Features: Welding records and statistics

15KC Ultrasonic Welding Machine (Medium Power)

Function & Specification

frequency: 15-40KHZ
power: 800-4200W
air pressure: 0.1-1.0MPA
Voltage: AC220V
Welding head stroke: 100MM
Dimensions: 750*800*1800MM
output time: 0.01S-9.99S
Intelligent management: Amplitude, Quality, Safety
Body weight: 310KG
Operating mode: button, external control
Circuit system: Digital intelligent automatic frequency tracking
system language: Chinese-English
Operation interface: 4.3 touch inside
Features: Welding records and statistics



15KC Servo Ultrasonic Welding Machine



Function & Specification

frequency: 15-40KHZ
power: 800-2600W
air pressure: 0.1-1.0MPA
Voltage: AC220V
Welding head stroke: 100MM
Dimensions: 650*570*1100MM
output time: 0.01S-9.99S
Intelligent management: Amplitude, Quality, Safety
Body weight: 70KG
Operating mode: button, external control
Circuit system: Digital intelligent automatic frequency tracking
system language: Chinese-English
Operation interface: 10 touch inside
Features: Servo precise control

15KC Servo Ultrasonic Welding Machine

Function & Specification

frequency: 15-40KHZ
power: 800-2600W
air pressure: 0.1-1.0MPA
Voltage: AC220V
Welding head stroke: 100MM
Dimensions: 650*570*1100MM
output time: 0.01S-9.99S
Intelligent management: Amplitude, Quality, Safety
Body weight: 65KG
Operating mode: button, external control
Circuit system: Digital intelligent automatic frequency tracking
system language: Chinese-English
Operation interface: 4.3 touch inside
Features: Welding records





WELDHOT

35KC Ultrasonic Welding Machine

Function & Specification

frequency: 35KHZ
power: 1000W
air pressure: 0.1-1.0MPA
Voltage: AC220V
Dimensions: 240*120*320MM
output time: 0.01S-9.99S
Intelligent management: Amplitude, Quality, Safety
Body weight: 10KG
Operating mode: button, external control
Circuit system: Digital intelligent automatic
frequency tracking
system language: Chinese-English
Operation interface: 4.3 touch inside
Features: Welding records



1.2 Multi-unit Ultrasonic Welding Machine



Introduction:

Multi-unit ultrasonic welding machine, for automobile interior and exterior trim parts; various plastic welding such as bumpers, door panels, spoilers, instrument panels; realize multi-point simultaneous welding, high speed, single point 360-degree adjustable, power and welding time Adjustable; improve product qualification rate, efficiency and production capacity.

Function & Specification

frequency: 35KHZ

power: 1200W

air pressure: 0.6MPA

Voltage: AC380V

Dimensions: Customized by product

output time: 0.01S-9.99S

Intelligent management: Amplitude, Quality, Safety

Body weight: 0.5T-1.5T

Operating mode: button, external control

Circuit system: Digital intelligent automatic frequency tracking system

Control system: Siemens

language: Chinese-English

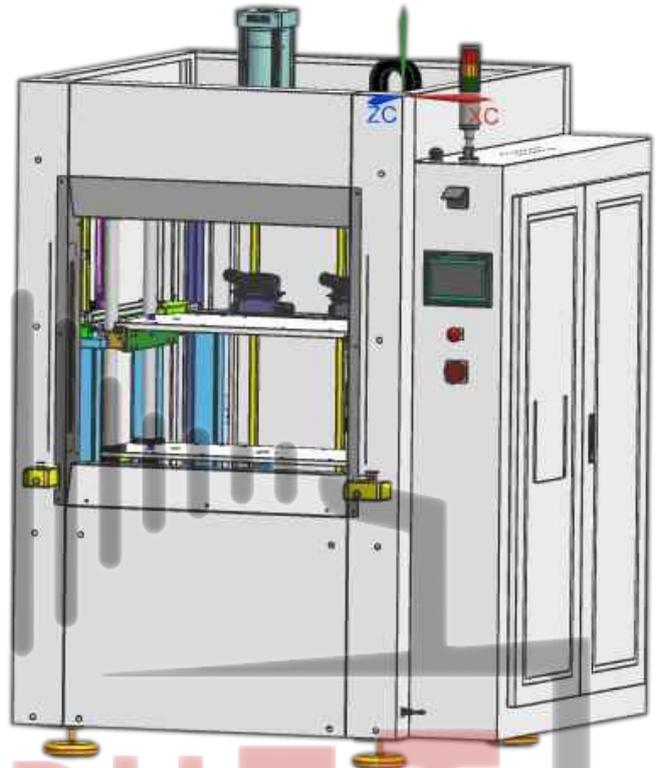
Operation interface: 10.0 touch inside

Features: Highly efficient

2.1 Hot Plate Welding Machine (Pneumatic)

Introduction:

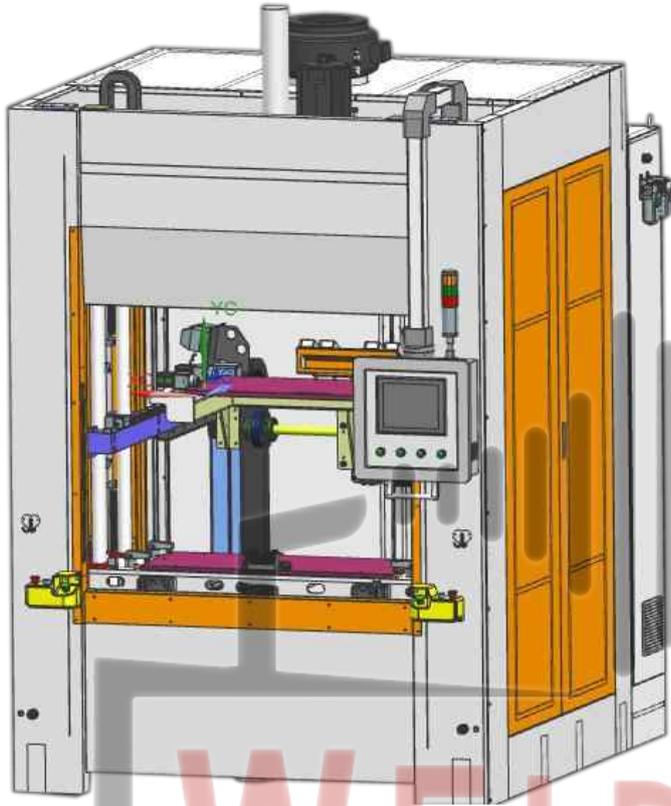
Pneumatic hot plate welding machine for automobile taillights; plastic welding of glove boxes, oil cans, home appliances, toys, etc. The high-precision thermal energy control system is adopted to precisely control the hot plate mold; the large-bore cylinder drives the equipment to run, with fast speed and accurate position.



Function & Specification

power: 20KW
air pressure: 0.6MPA
Voltage: AC380V
Dimensions: 1.6M*1.8M*3.2M
Drive mode: pneumatic
Mold opening distance: 900MM
Body weight: 2T
Equipment accuracy: 0.12MM
Running speed: 230M/S
Control system: Siemens
language: Chinese-English
Operation interface: 10.0 touch inside
Features: Simple and durable, easy to operate

2.2 Hot Plate Welding Machine (Servo)



Introduction:

Servo type hot plate welding machine for plastic welding of automobile tail lights, glove boxes, oil cans, home appliances, toys, etc. High-precision thermal energy control system is adopted to control the precision of the hot plate mold; servo motor and precision screw drive equipment are operated, which are efficient, energy-saving and low-noise.

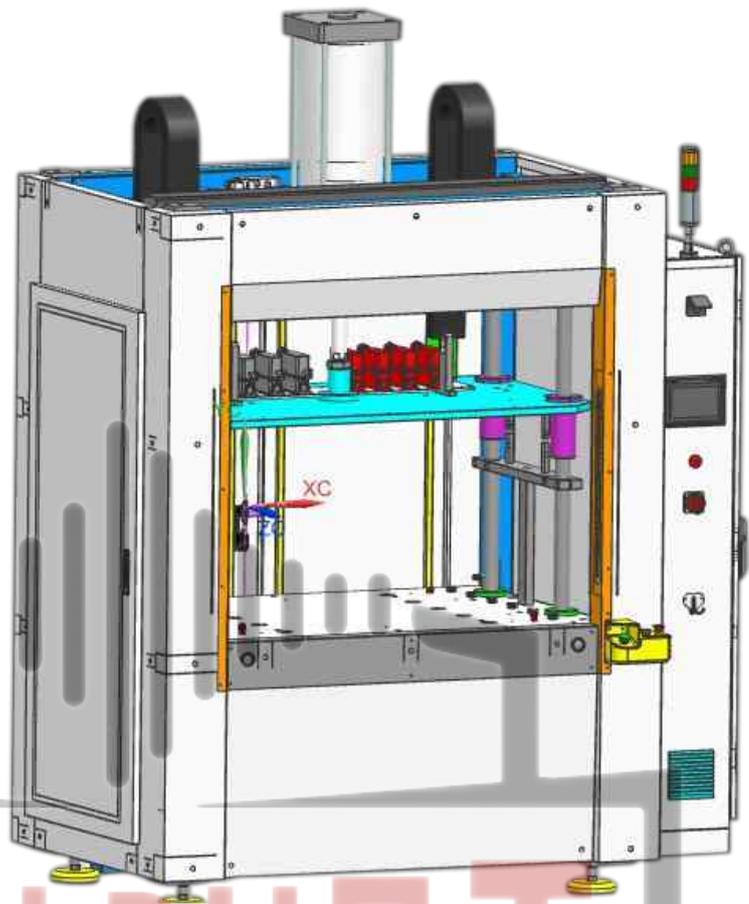
Function & Specification

Power: 35KW
Air pressure: 0.6MPA
Voltage: AC380V
Dimensions: 1.6M*1.8M*3.2M
Drive mode: pneumatic
Mold opening distance: 1000MM
Body weight: 3T
Equipment accuracy: 0.12MM
Running speed: 480M/S
Control system: Siemens
Language: Chinese-English
Operation interface: 10.0 touch inside
Features: Efficient、energy saving

3. Hot Riveting Welding Machine

Introduction:

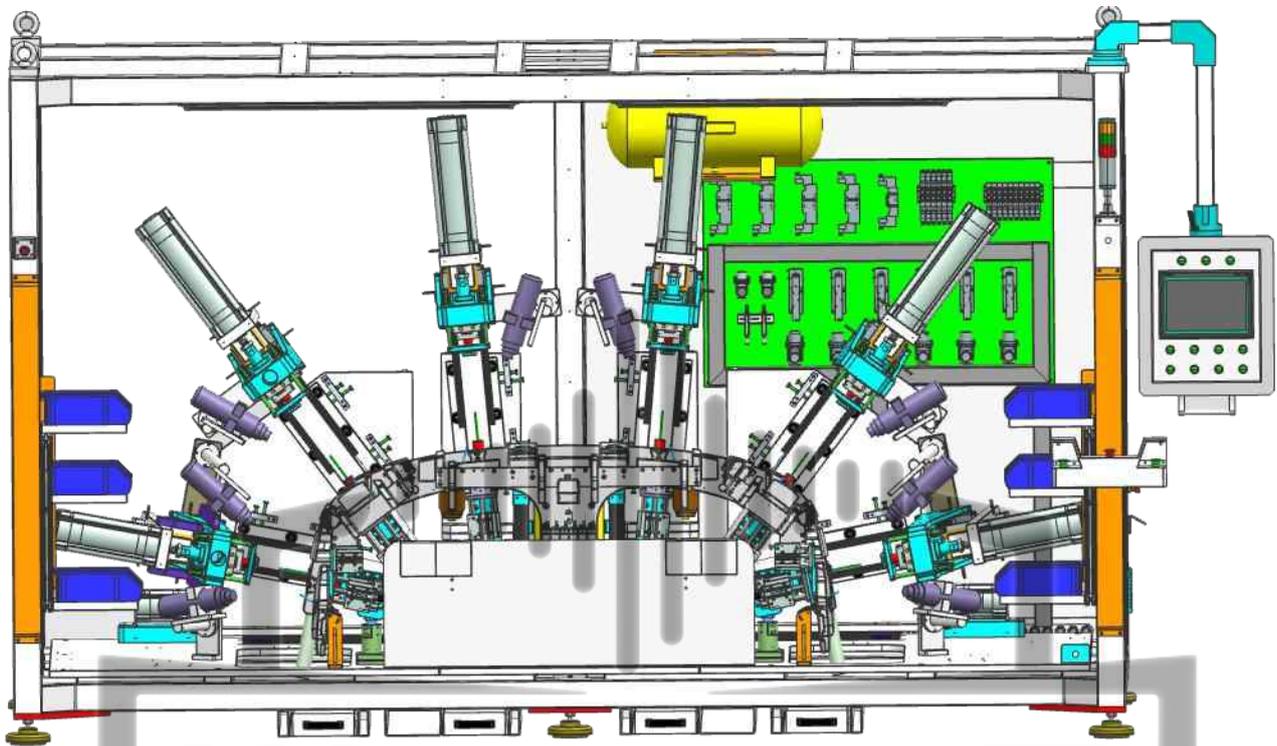
The hot willow welding machine adopts the design concept of independent temperature control and independent adjustment of each rivet point; it solves the solution of car door panels, instrument panels, various decorative parts, and riveting welding solutions. The main drive mode of the equipment is a high-pressure cylinder, equipped with willow point blowing to cool down; mold clamping work; high efficiency, low energy consumption, and easy maintenance.



Function & Specification

Power: 35KW
Air pressure: 0.6MPA
Voltage: AC380V
Dimensions: 1.6M*1.8M*3.2M
Drive mode: pneumatic
Mold opening distance: 1000MM
Body weight: 3T
Equipment accuracy: 0.12MM
Running speed: 480M/S
Control system: Siemens
Language: Chinese-English
Operation interface: 1e.0 touch inside
Features: Efficient、 energy saving

4. Bumper Ultrasonic Perforating Machine



Introduction:

Bumper ultrasonic perforating machine, ultrasonic perforating equipment specially designed for front and rear bumpers of automobiles. It can complete various hole shapes, circles, squares, etc. designed for the bumper; realize the integrated operation of punching and welding. The equipment adopts multi-station design. After ultrasonic perforating, it runs to the welding radar bracket station; high-performance sonic piercing welding radar bracket.

Function ntrorcification

Power: 10KW
Air pressure: 0.6MPA
Voltage: AC380V
Dimensions: Customized by product
Drive mode: Pneumatic \ Hydraulic
Mold opening distance: 400MM
Body weight: 3-5T
Equipment accuracy: 0.08MM
Running speed: 260M/S
Control system: Siemens
Language: Chinese-English
Operation interface: 10.0 touch inside
Features: High efficiency and good precision

5. Mold Tooling

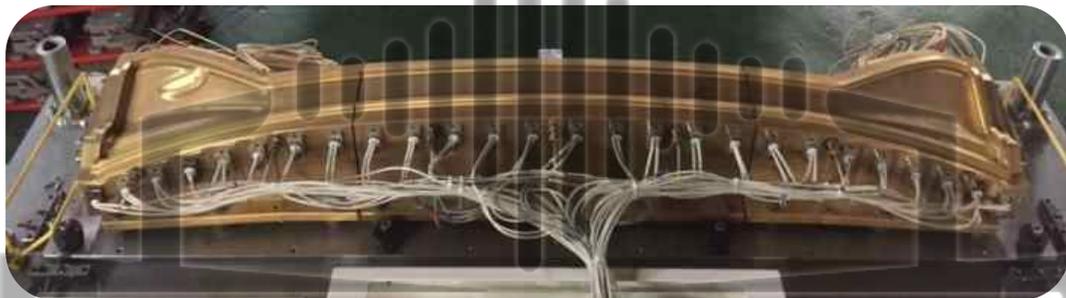


Introduction:

The hot plate welding mold is mainly designed for the welding of larger and irregular plastic workpieces made of pE, pp, nylon, aBs, etc. CNC copying production, high machining accuracy; materials include aluminum alloy, copper, steel, etc.; low temperature mode, the temperature of the hot plate is between 180 °C - 280 °C; high temperature and high speed mode, the temperature of the hot plate is as high as 400 °C. The plastic welding surface is fully melted and fully pressed to ensure that the product is qualified for welding.

5. Mold Tooling

► Hot Plate Welding Mold

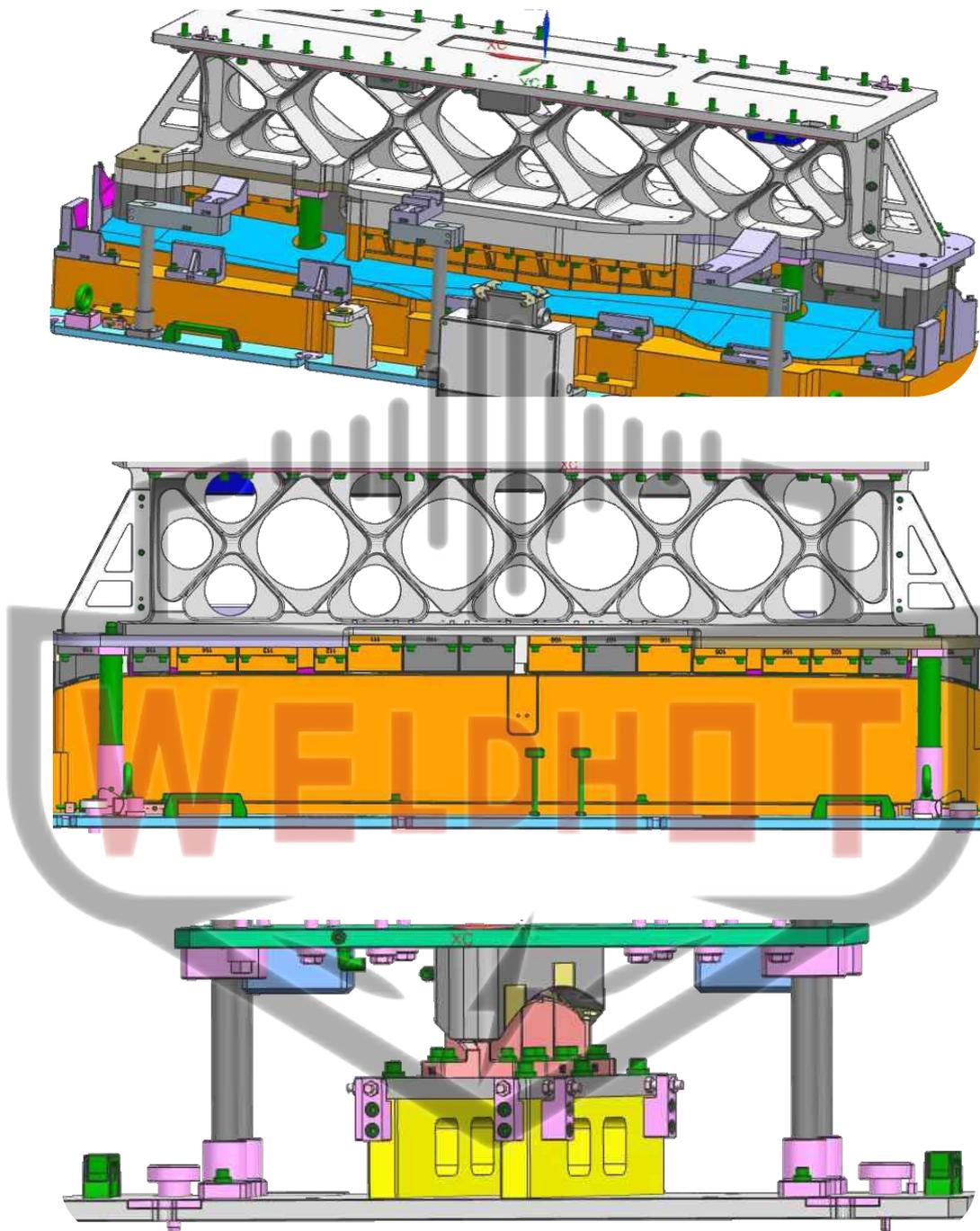


Introduction:

1200mm through-type tail lamp hot plate welding mold

5. Mold Tooling

► Vibration friction welding mold



Introduction:

The vibration welding process is to press the two plastic parts together, vibrate the upper die laterally rapidly, and generate heat through friction to melt the plastic welding in the contact area; product representatives include car dashboards, airbag frames, glove boxes, lights, etc.;

5. Mold Tooling

► Hot Riveting Welding Mold

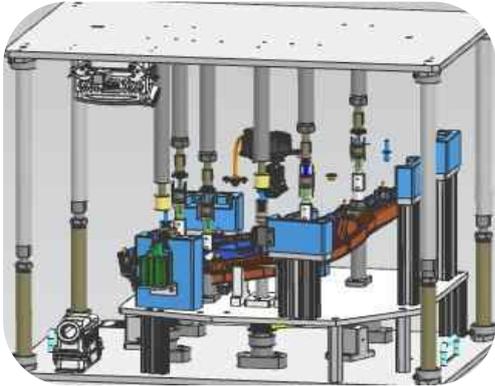


Introduction:

The temperature of each rivet head is heated separately, and the temperature is controlled accurately; the rivet head profile is determined according to the product
It has a good molding effect; the surface is treated with special coating for welding and non-stick material; equipped with air blowing cooling
Speed up welding time; single-point position adjustment is convenient for maintenance.

5. Mold Tooling

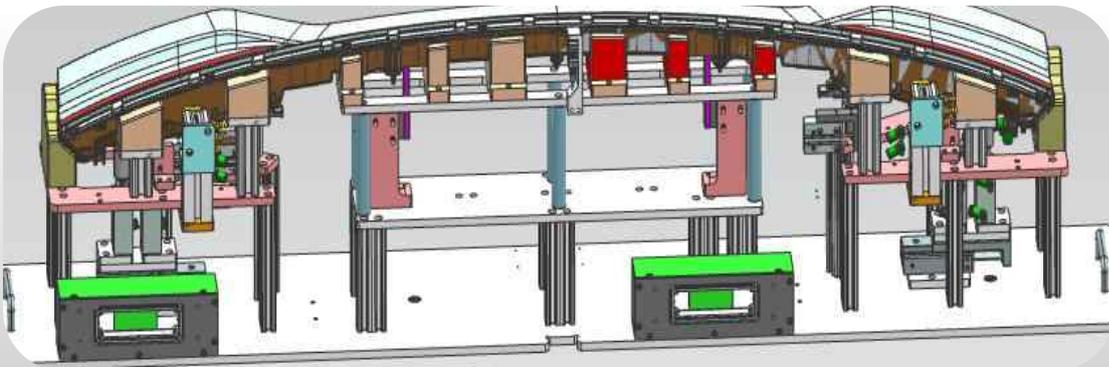
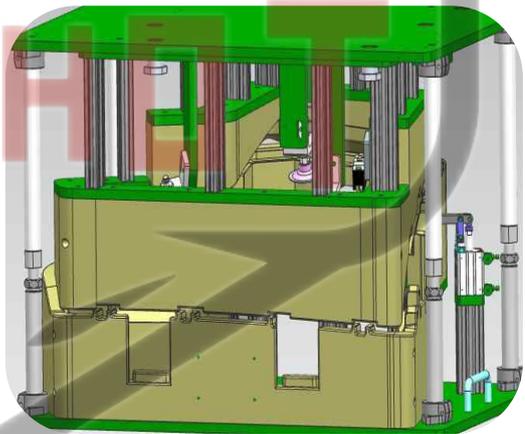
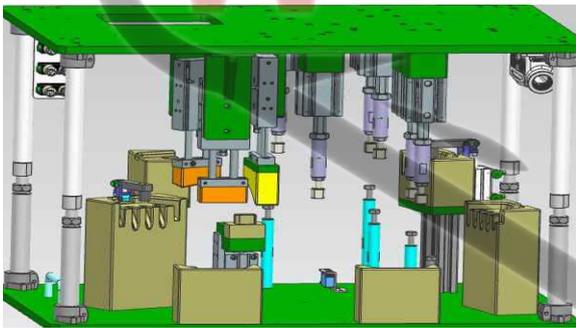
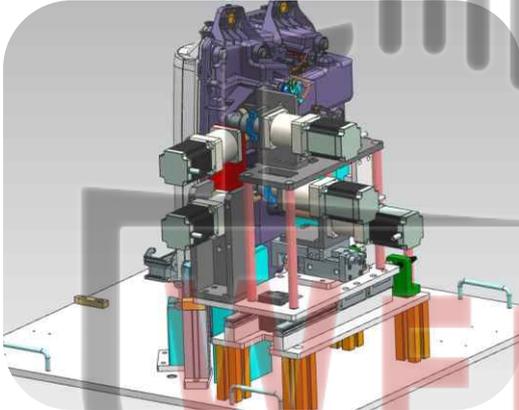
► Car headlight taillight tooling



Introduction:

Customized tooling according to product process requirements

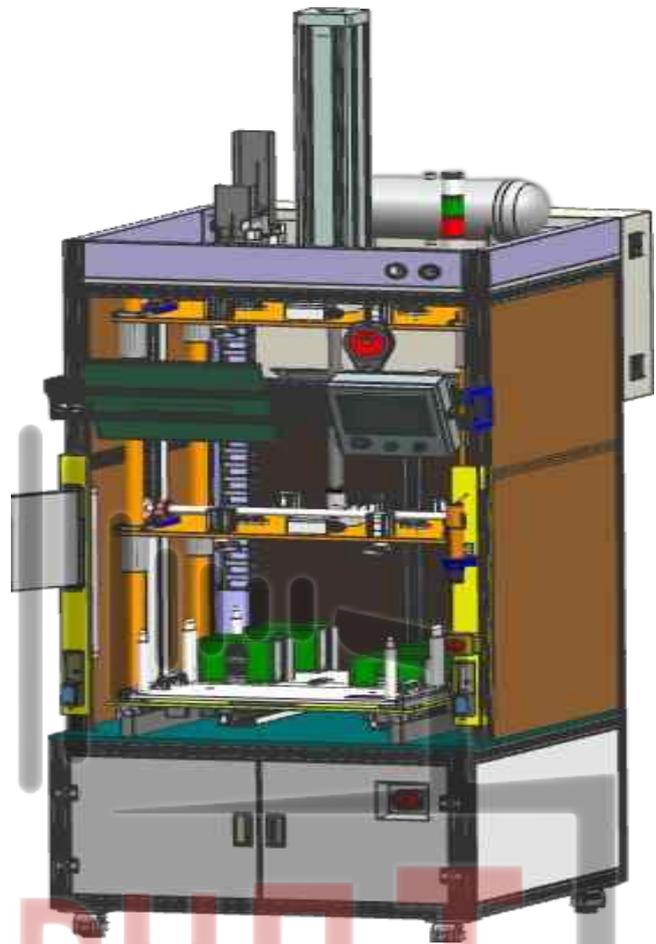
1. Lock the screw to fix the tooling
2. Assemble the fixed tooling
3. Gluing and pressing tooling
4. Air tightness detection tooling
5. Optical inspection tooling
6. Dust removal tooling
7. Cooling and shaping tooling
8. Foil tooling, etc.



6. Riveting Press Machine

introduce:

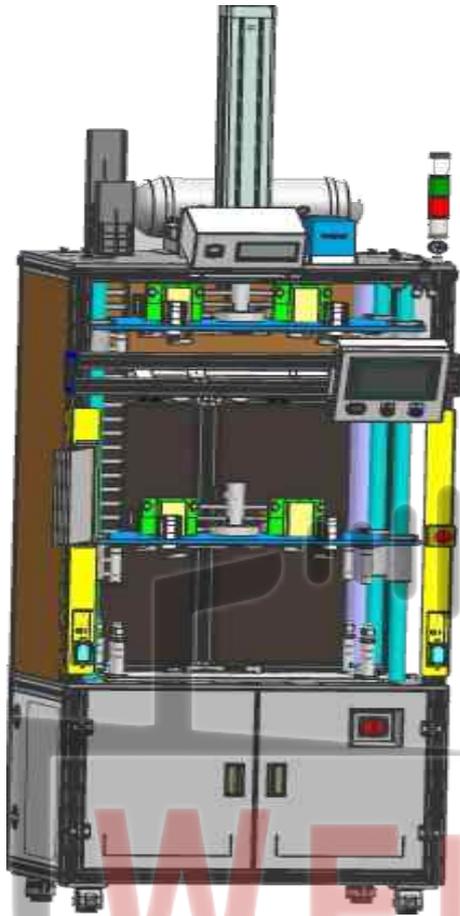
The model is designed for car headlight plum blossom card press-in riveting; ball head is automatically locked. Equipped with material detection, plum card detection, reflector lens Pull detection; support drive
4 groups of stepper motors;



Function ntrodconfication

Power: 4KW
Air pressure: 0.6MPA
Voltage: AC220V
Dimensions: 1000MM*700MM*2900MM
Drive mode: Pneumatic \ Hydraulic
Mold opening distance: 350MM-900MM
Body weight: 0.7T
Equipment accuracy: 0.1MM
Running speed: 240M/S
Control system: Siemens
Language: Chinese-English
Operation interface: 10.0 touch inside
Features: Multiple functions and high configuration

7. Airtight Machine



Introduction:

It is used for automobile headlights, taillights, air tightness testing; it can be equipped with various brands of air tightness testers, Wan testers, COSMO, etc. according to customer requirements; the equipment is equipped with real-time monitoring and alarm function of intake pressure; Dotting and other actions after the airtightness is completed.

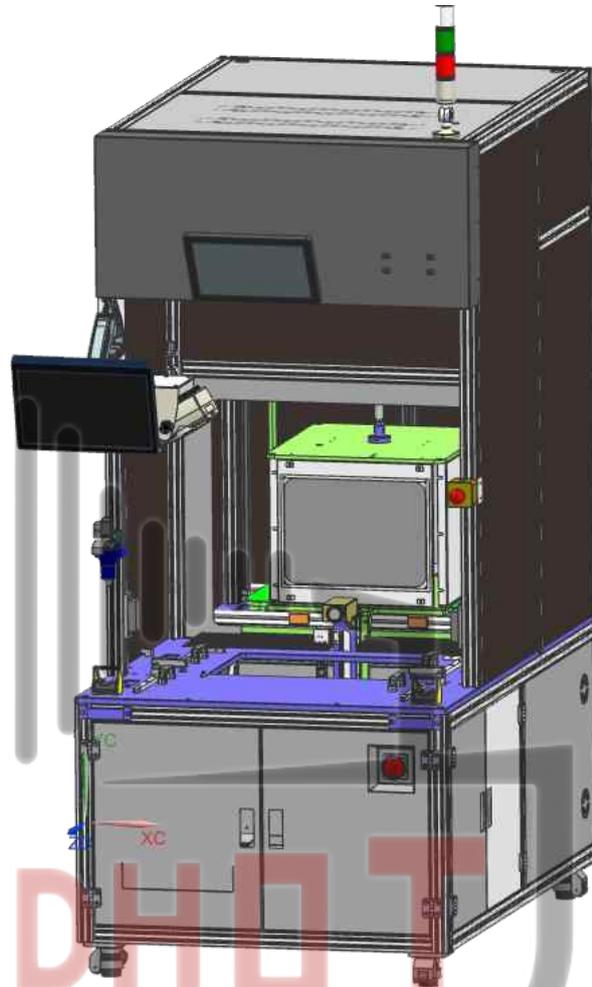
Function ntroduction

Power: 4KW
Air pressure: 0.6MPA
Voltage: AC220V
Dimensions: 1000MM*700MM*2900MM
Drive mode: Pneumatic
Mold opening distance: 350MM-900MM
Body weight: 0.7T
Equipment accuracy: 0.1MM
Running speed: 240M/S
Control system: Siemens
Language: Chinese-English
Operation interface: 10.0 touch inside
Features: High precision and fast testing

8. CCD Light Shaper

Introduction:

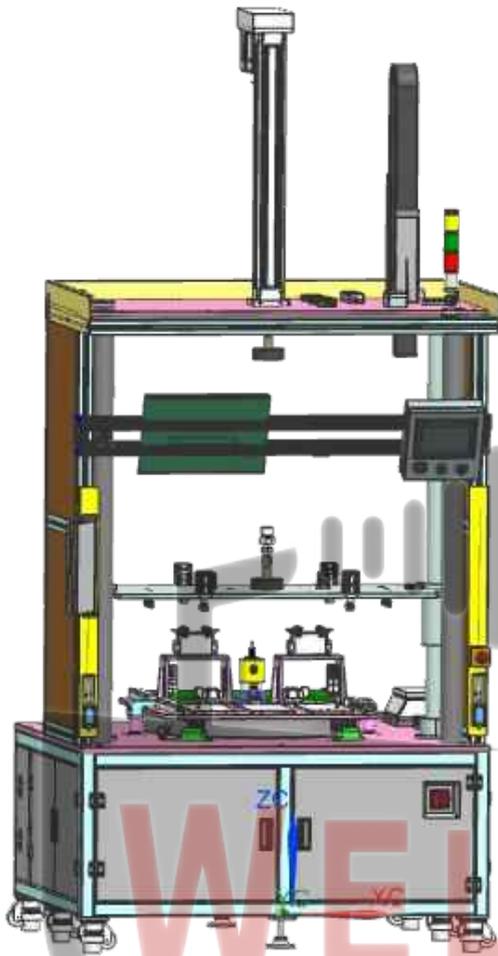
Used for automotive headlights, taillights, light shape detection; headlight detection through industrial cameras, illuminance, chromatic aberration, running water detection; through the lens obscura to adjust the far and near light shape; detection of taillight illumination, color difference, running water detection; detection of lamp voltage and current value, detection completed printing barcode, etc.



Function ntroduction

Power: 5KW
Air pressure: 0.6MPA
Voltage: AC220V
Dimensions: Confirm by machine type
Drive mode: Pneumatic
Mold opening distance: 350MM-900MM
Body weight: 0.7T
Equipment accuracy: 0.1MM
Running speed: 240M/S
Control system: Siemens
Language: Chinese-English
Operation interface: 10.0 touch inside
Features: High efficient and stable

9. Glue Pressing Machine



Introduction:

It is used for car headlights to be glued to the back cover and the lamp housing to be pressed together. The equipment can be equipped with a lower mold sliding table; realize the integration of manipulator gluing and pressing, saving the manual transfer process; the equipment is equipped with automatic clamping of the upper and lower mold tooling, and the mold change is fast; equipped with functions such as clamping and vacuum adsorption

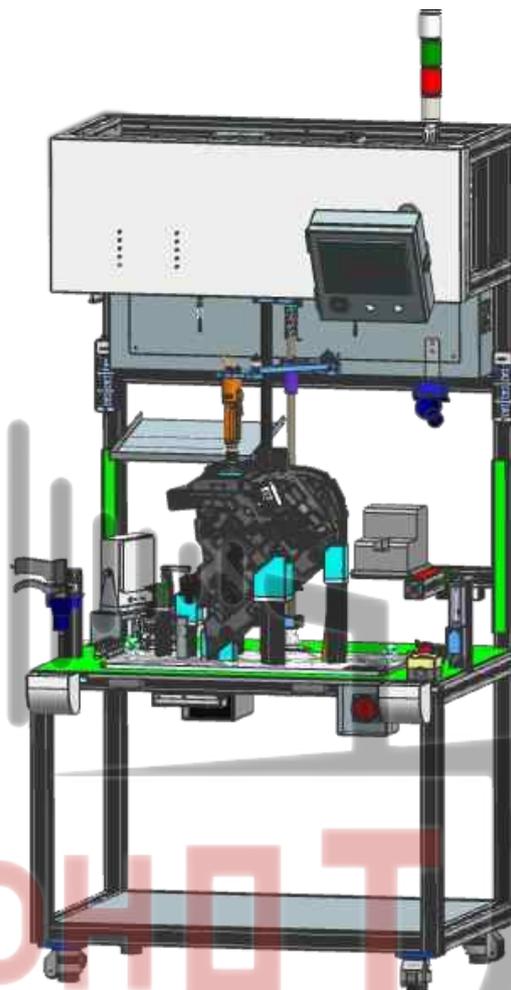
Function ntroduction

Power: 4.5-9KW
Air pressure: 0.6MPA
Voltage: AC220V/380V
Dimensions: 1000MM*1500M*3000M
Drive mode: Pneumatic/Servo
Mold opening distance: 350MM-1000MM
Body weight: 1T
Equipment accuracy: 0.1MM
Running speed: 240M/S-350M/sa
Control system: Siemens
Language: Chinese-English
Operation interface: 10.0 touch inside
Features: High efficient and stable

10. Workbench

Introduction:

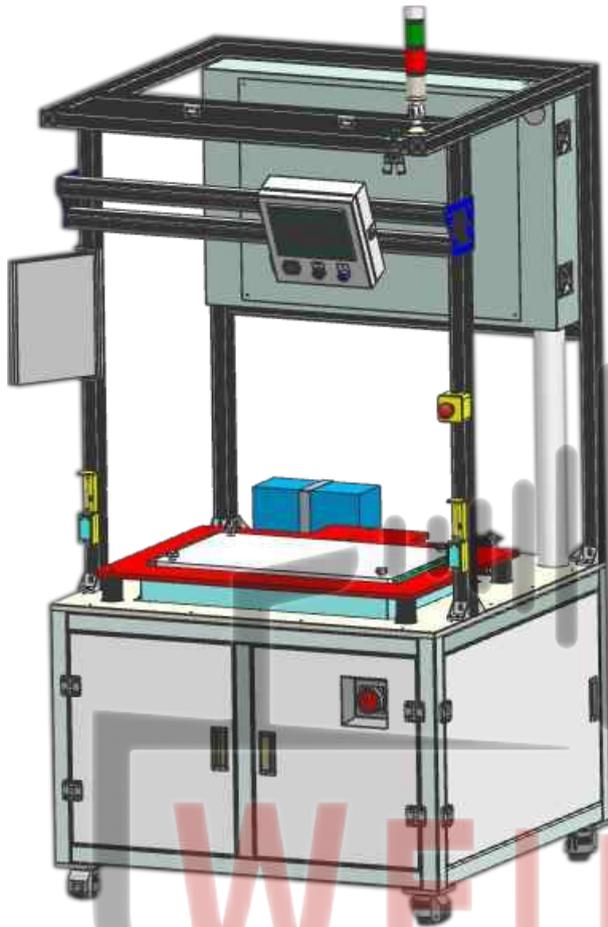
It is used for automobile headlight production line, tail light production line, interior and exterior trim production line; various models can be customized according to the different needs of customers
Workbench; can be equipped with PLC electronic control; realize functions such as clamping, screw counting, flipping, etc.; and defective product detection; can be equipped with electrostatic fans; screwdrivers; screw feeders; electrostatic guns; electrostatic wristbands and other configurations required by customers.



Function ntroduction

Power: 2KW
Air pressure: 0.6MPA
Voltage: AC220V
Dimensions: Customized by customer
Drive mode: /
Mold opening distance: 350MM-1000MM
Body weight: 0.4T
Equipment accuracy: 0.1MM
Running speed: /
Control system: Siemens
Language: Chinese-English
Operation interface: 10.0 touch inside
Features: Simple and durable

11.Dust collector



Introduction:

It is used for electrostatic vibration dust removal of automobile headlights, tail lights and semi-finished products; it is equipped with an ion wind rod to emit charges, and through the reciprocating motion of the cylinder, blowing and vacuuming removes fine dust; the dust removal time of the equipment is controllable; the amplitude is controllable.

Function ntroduction

Power: 2KW

Air pressure: 0.6MPA

Voltage: AC220V

Dimensions: 700MM*900MM*2000MM

Drive mode: Pneumatic

Mold opening distance: 350MM-1000MM

Body weight: 0.4T

Equipment accuracy: 0.1MM

Running speed: 220M/S

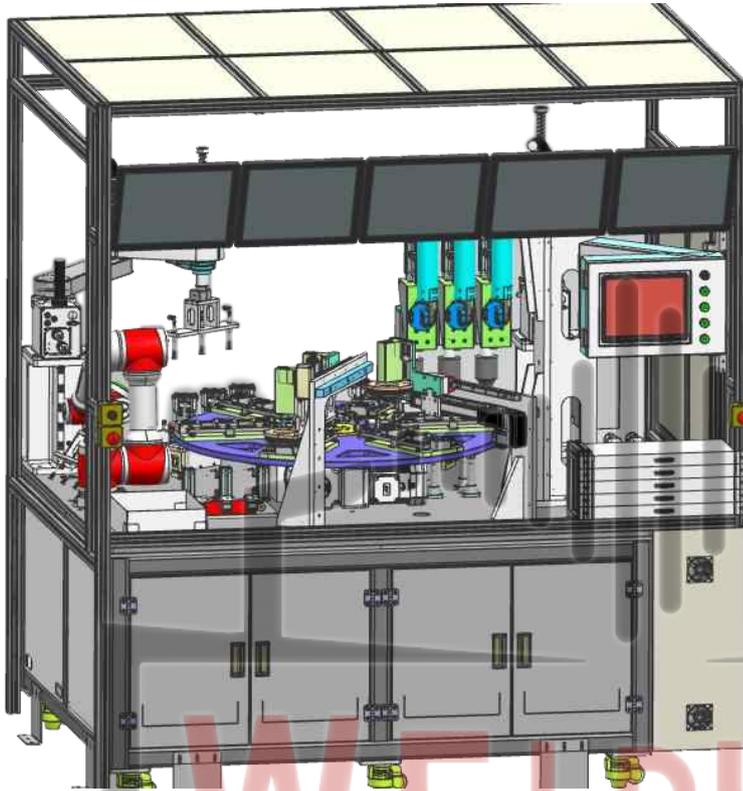
Control system: Siemens

Language: Chinese-English

Operation interface: 10.0 touch inside

Features: Simple and durable

12. Non-standard Automation Integration



Introduction:

Integration of non-standard automation equipment; according to various needs of customers, customized products manufactured with unified industry standards and specifications

Meta-equipment assembly, develop and design and manufacture equipment according to the needs of customers.

Function ntroduction

PLC: Siemens / Mitsubishi / Omron
Touch screen: Siemens / Mitsubishi / Omron
Low voltage electric device: Siemens / Schneider
Electric relay: Omron / Siemens
Robot: Yaskawa / ABB / UR
Servo: Schneider / Siemens / Delta
Industrial control: Advantech
Screen: Industry grade
Pneumatic components: SMC / AirTAC / Festo
Screw, guide rail: Hiwin
Sensor: Sisco / Omron / KEYENCE
System: Self-developed

