HC SEAL RING SOLUTION

Design,
Supply & Support
One stop soluion to your Seal Ring

HC Seal Ring Automatic Cutting And Gluing Machine

Seal Ring Automatic Cutting And Gluing Machine

Product Name	HC Seal Ring Automatic Cutting And Gluing Machine
Product Ranges	length: 230–1000 mm /230--1500mm/230-2000mm
Voltage	220 V
Air Pressure	0.6 MPa
Power	5kW
Weight	1200 KG
Equipment footprint size: (L ×W×H)	6500×1850×2000 mm
Number of equipment operators	mold feeding (manual filter element discharge) ≥ 1
A production number	≥ 15
Efficiency	8-15s a cycle (3000-4000 / hour)
Suitable material and shape	seal ring, silicone, foam series of round, oval square, rectangular, shaped, etc. (different products correspond to different fixtures

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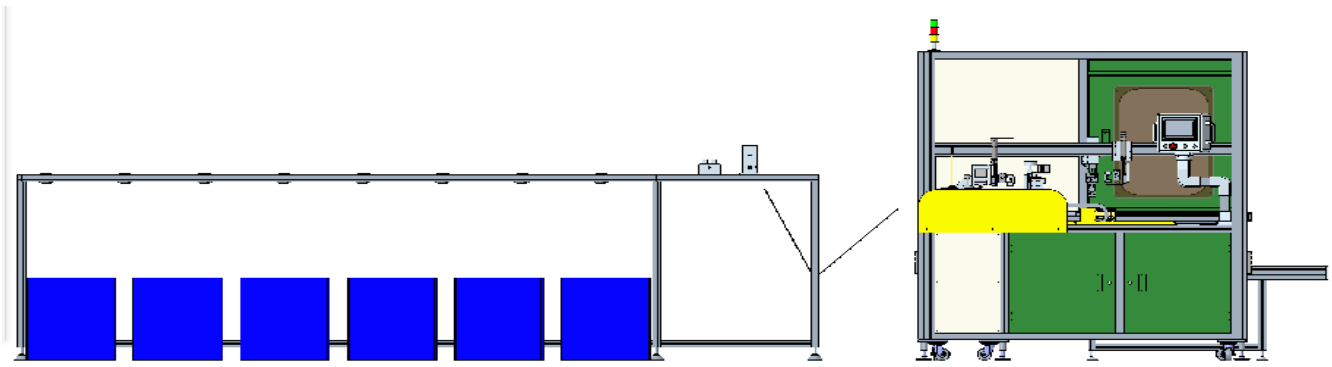
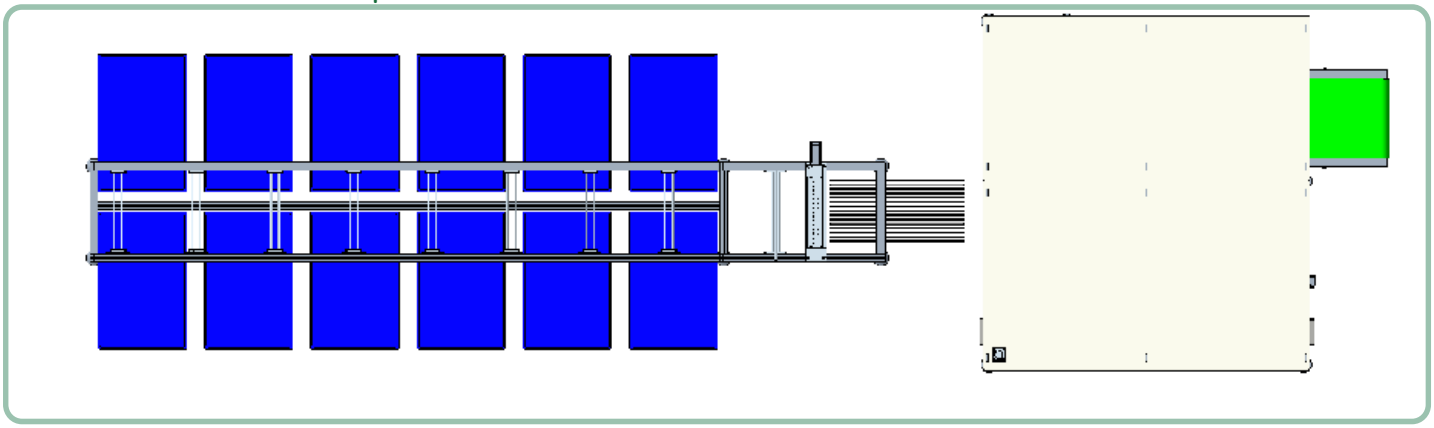
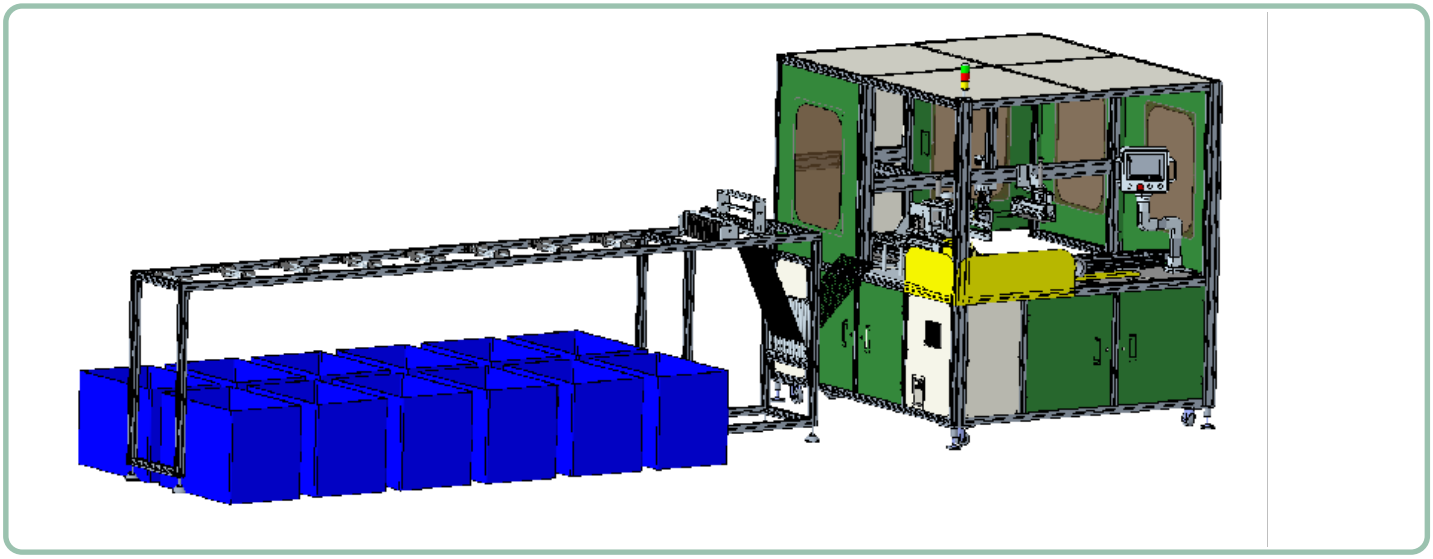
Production line front view



Production line top view



Production line oblique view



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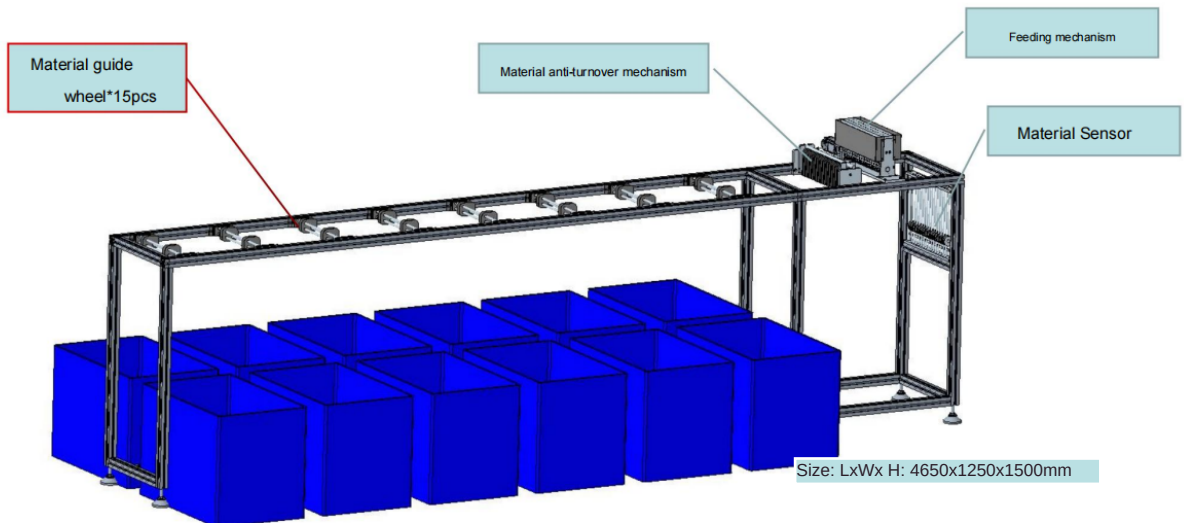
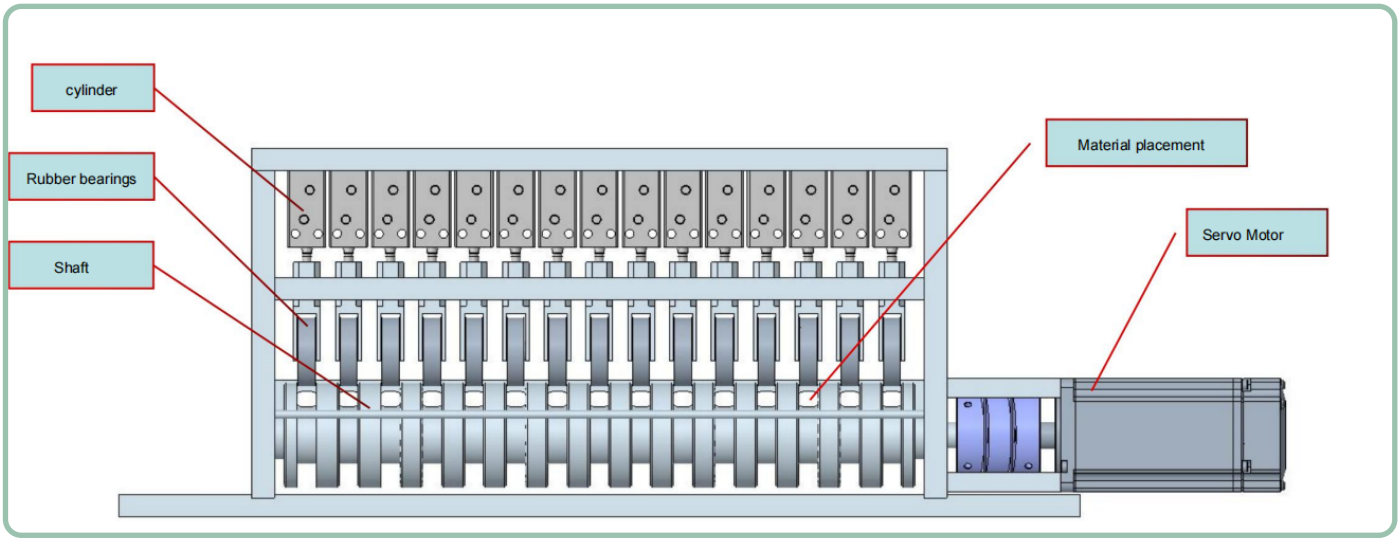
Introduction of rack



Introduction of 15 feeding mechanisms



Action flow:

The material passes through the material placement position, the servo motor drives the shaft , the cylinder drives the rubber-coated bearing down, and the material passes through the friction between the rubber-coated bearing and the shaft to realize the function of sending the material forward.

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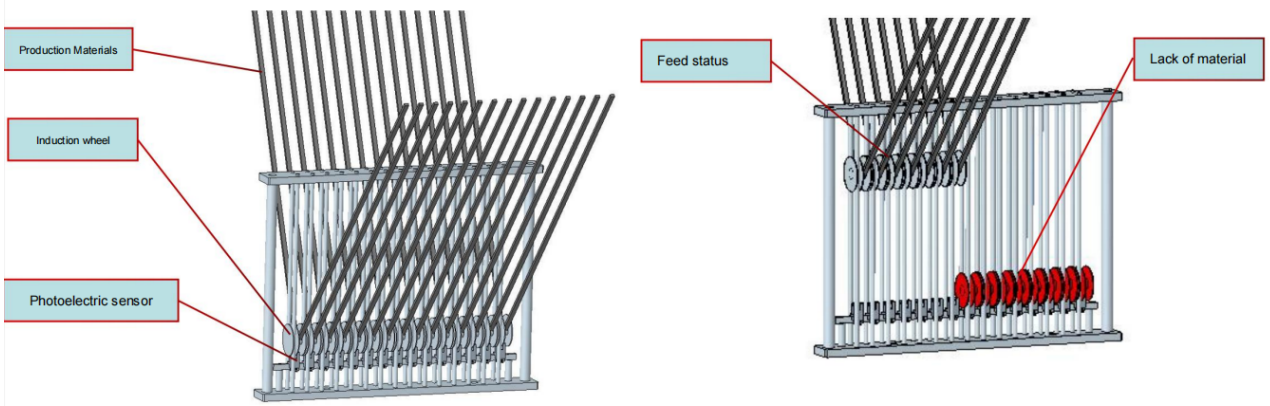
Introduction to material sensing mechanism



Action flow.Themachine pulls:

The production material forward,the material drives the induction wheel upward,the induction wheel leaves thephotoelectric sensor,and the photoelectric sensor is triggered.In this way,the PLC determines that there is material.

When the re is no production material to drive the induction wheel,the photoelectric sensorcannot be triggered,PLC judges material shortage.

Introduction to rack work

Action flow:

1.The operator installs the ring material on the shaft and fixes it.
2.The operator pulls the material through the guide bearing, anti-flip mechanism, motor feeding, material shortage sensor, and reaches the bonding machine. The work is completed.

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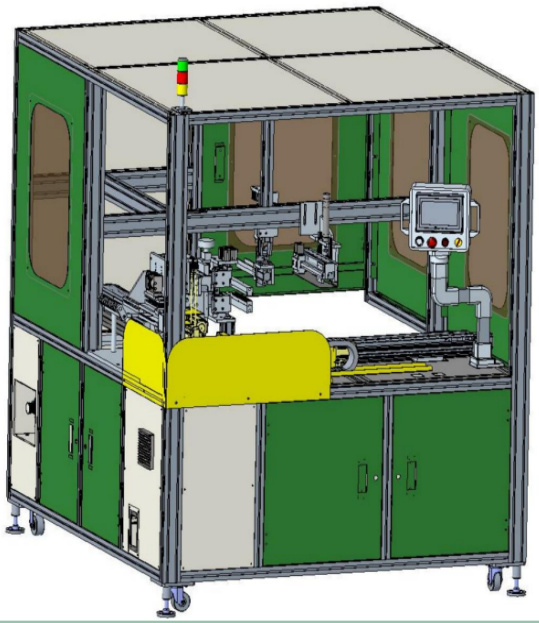
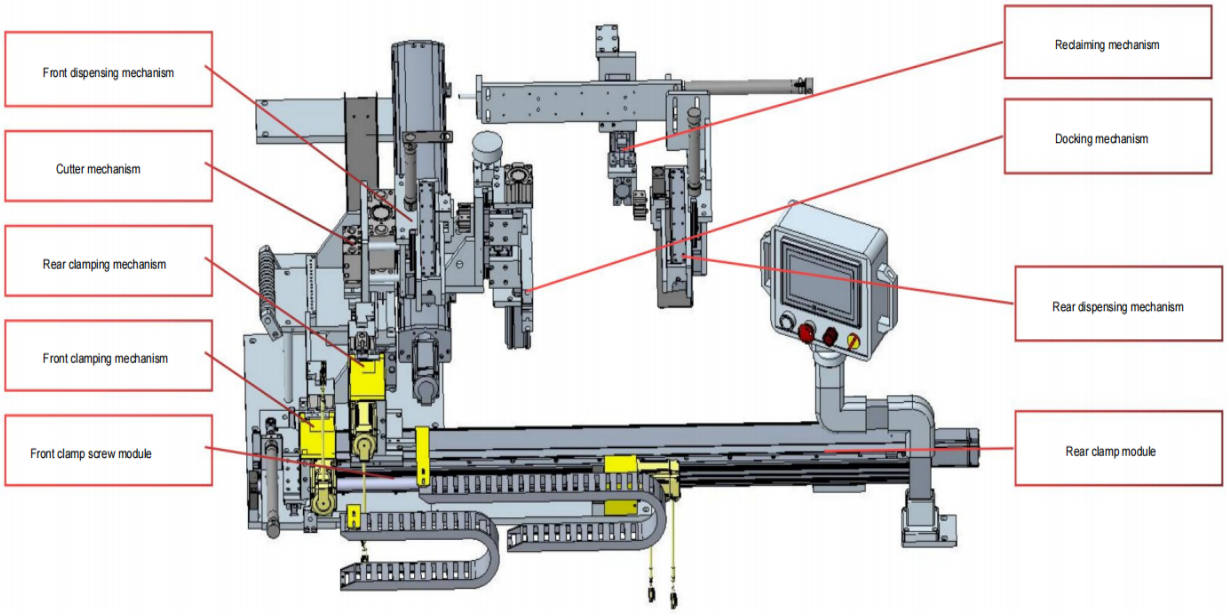
Cutting and gluing machine



Size:LxWxH 1700x1850x1900mm

Machine structure:



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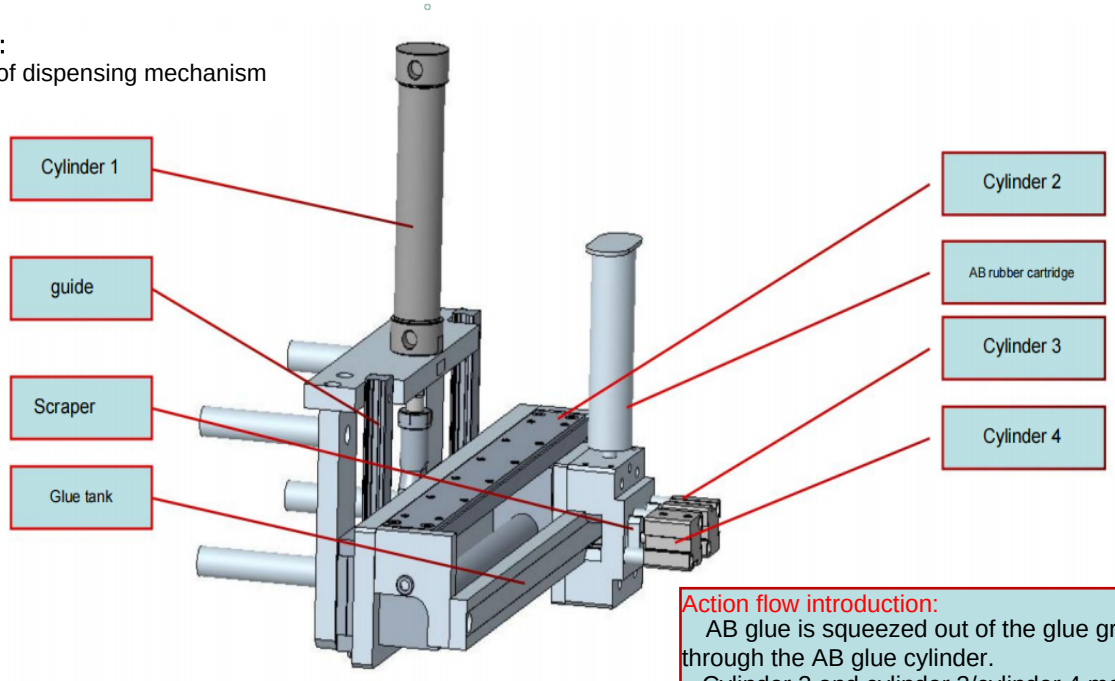
The working of cutting and gluing machine

Introduction to the action process:

1. The front clamping mechanism clamps the material and pulls the product to the set length through the screw drive .
2. The rear clamping mechanism clamps the material and pulls the product to the cutter position through the screw drive .
3. The cutter mechanism cuts the product.
4. The front clamping mechanism transmits one cut surface of the product to the front glue dispensing mechanism for glue dispensing .
5. The rear clamping mechanism transmits another cut surface of the product to the rear glue dispensing mechanism for glue dispensing.
6. The front clamping mechanism and the rear clamping mechanism simultaneously turn 180 degrees and place the material on the docking mechanism for heating and docking.
7. The material taking mechanism takes out the docked product and places it on the conveyor belt.
8. One cycle is completed.

The equipment working station

Station 1:
The front of dispensing mechanism



Action flow introduction:
AB glue is squeezed out of the glue groove through the AB glue cylinder.
Cylinder 2 and cylinder 3/cylinder 4 move left and right to evenly scrape the AB glue on the glue groove.

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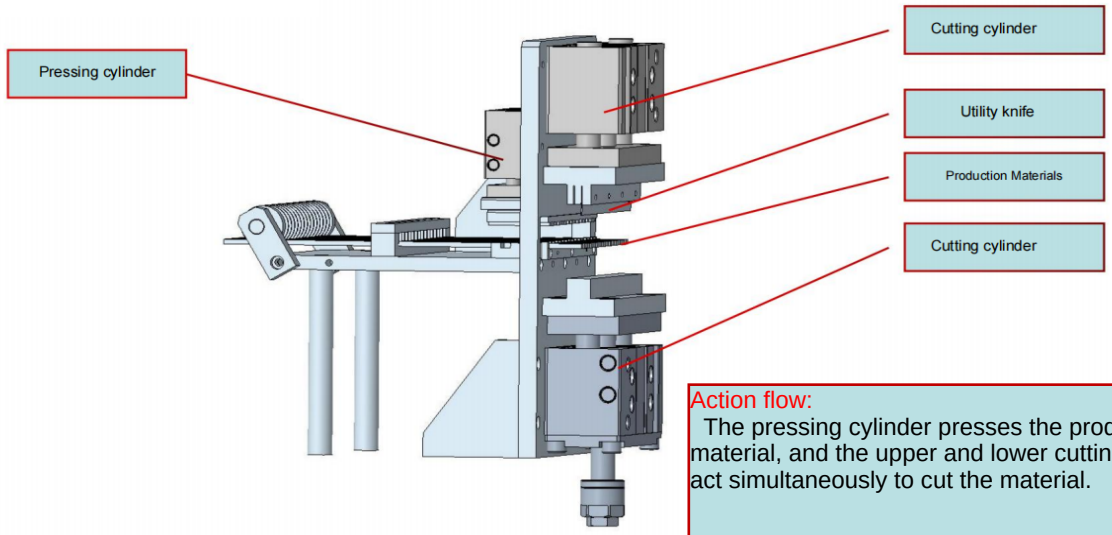
Station 2:

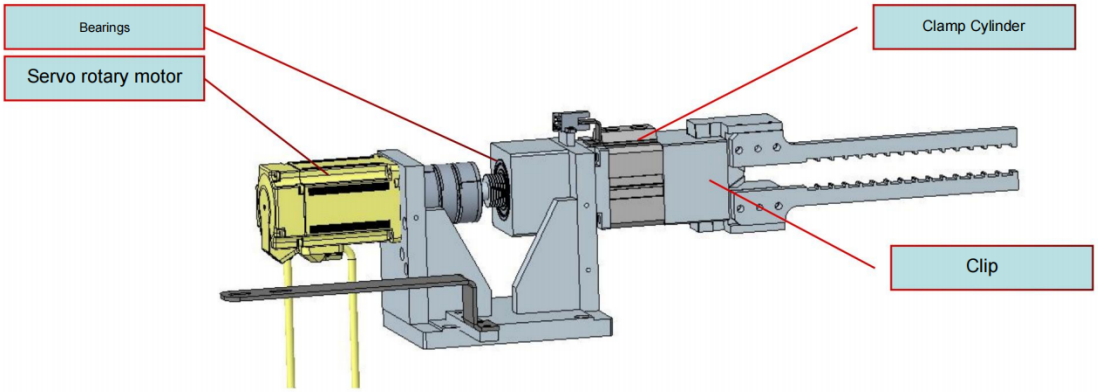
The cutting mechanism



Action flow:
The pressing cylinder presses the production material, and the upper and lower cutting cylinders act simultaneously to cut the material.

Station 3:

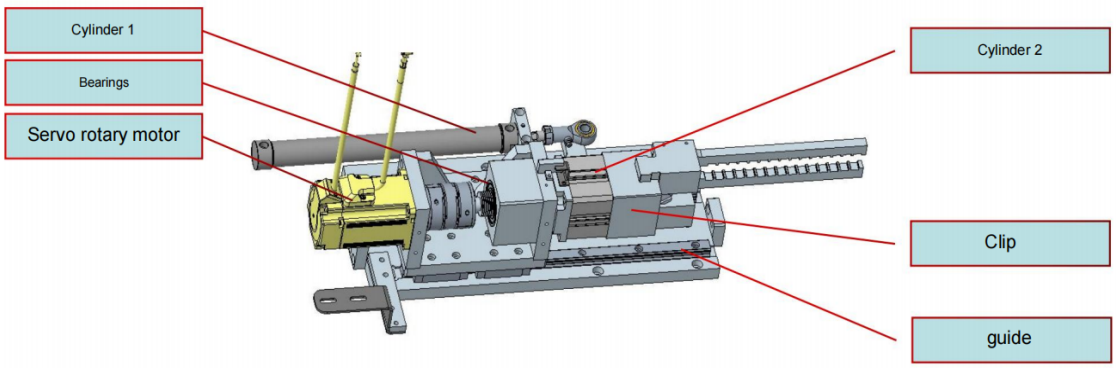
The rear clamping mechanism



Action flow:
The pressing cylinder presses the production material, and the upper and lower cutting cylinders act simultaneously to cut the material.

Station 4:

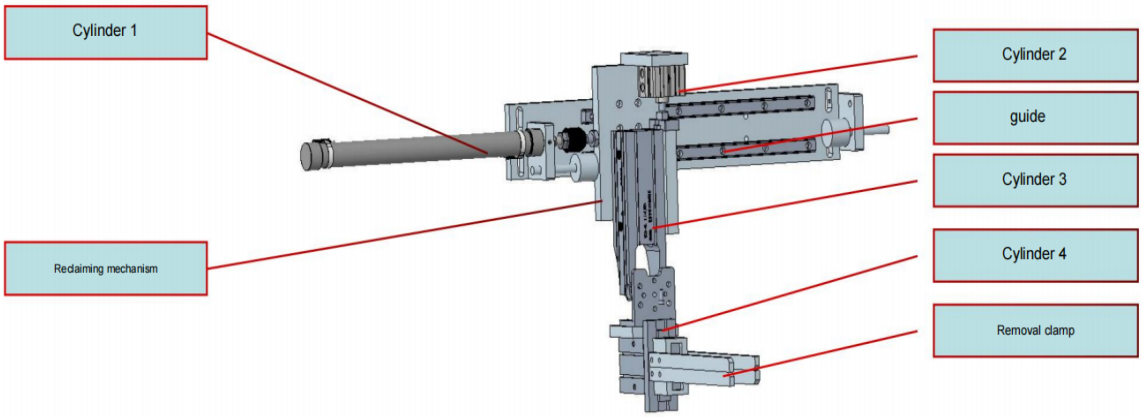
The front of clamping mechanism



Action flow:
Cylinder 1 pushes the clamp forward to clamp the material.
Cylinder 2 controls the opening/closing of the clamp to clamp the material. The servo rotary motor controls the clamp to rotate 180 degrees for processing.

Station 5:

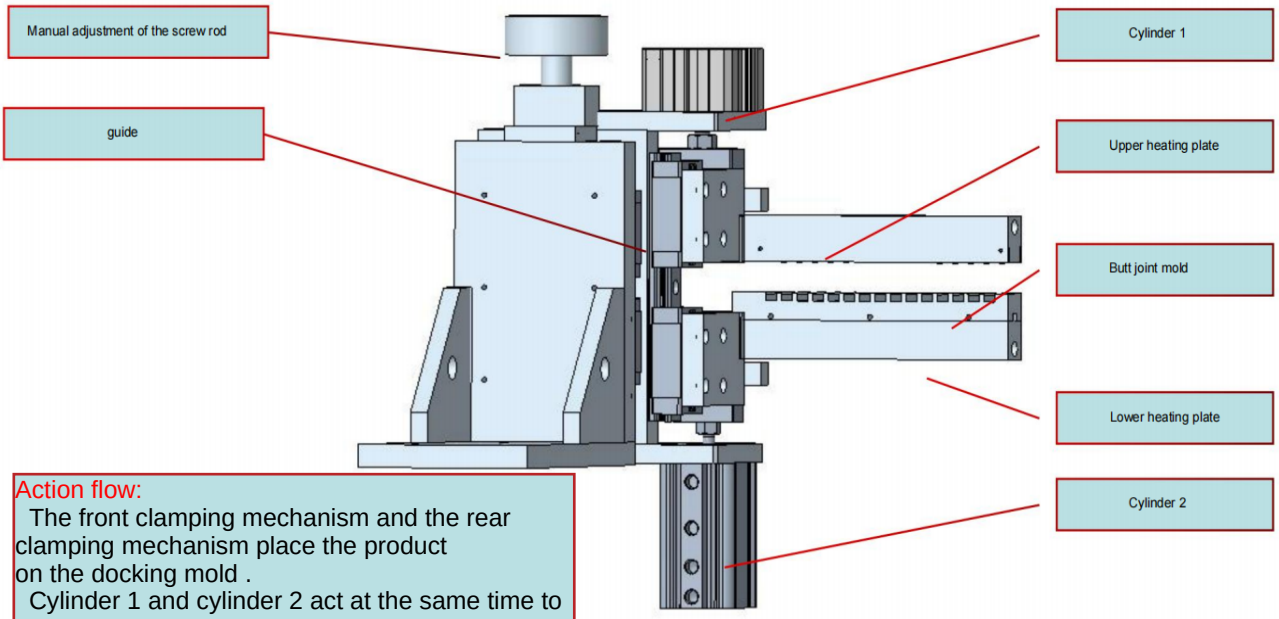
The material taking mechanism



Action flow:
Cylinder 1 pushes the material picking mechanism forward to the specified position.
Cylinder 3 controls the material picking clamp to flip 90 degrees to pick up the material.
Cylinder 4 controls the opening/closing of the material picking clamp to clamp the material by closing it.
After picking up the material, cylinder 3 lifts the material up for unloading.

Station 6:

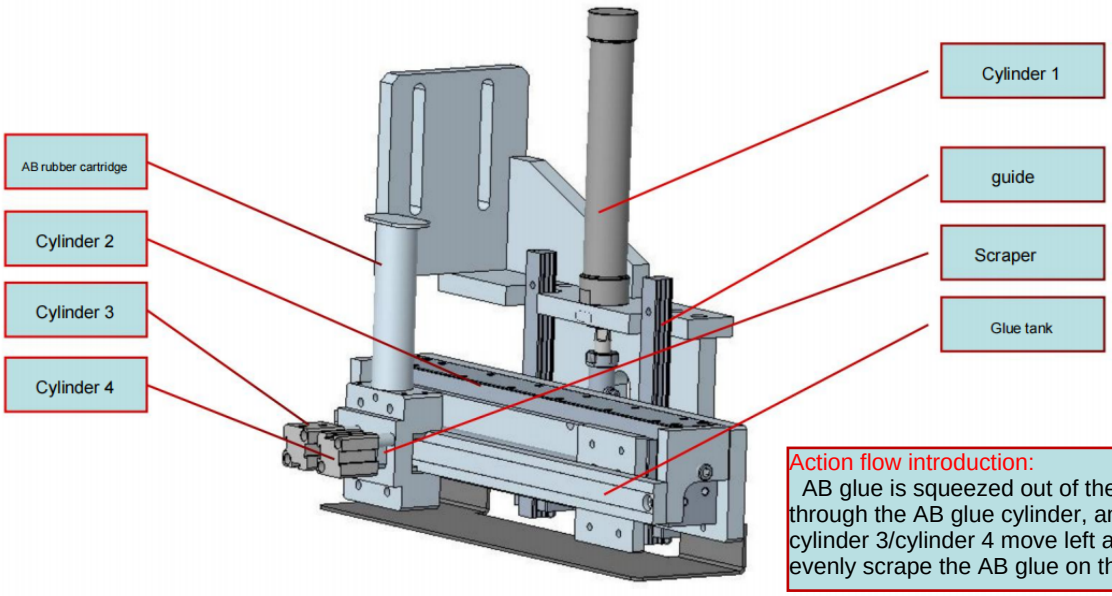
The docking institutions



Action flow:
The front clamping mechanism and the rear clamping mechanism place the product on the docking mold .
Cylinder 1 and cylinder 2 act at the same time to press the product for heating.
Set the heating time. When the time is up, the docking is completed.

Station 7:

The Post-dispensing mechanism



Action flow introduction:
AB glue is squeezed out of the glue groove through the AB glue cylinder, and cylinder 2 / cylinder 3/cylinder 4 move left and right to evenly scrape the AB glue on the glue groove.