

HTGF-100 Automatic Plastic Tube Filling Sealing Machine

- Widely used in toothpaste, ointment, paste food, cosmetics, hair-dyeing, adhesive, etc.

Overviews

HTGF-100 automatic tube filler tube sealer using rotary type, double filling heads, high speed. Filling type use piston way, filling accuracy is precision. Filling nozzle anti-drop type, no leak after filling. Easy to adjust filling volume, and change molds for different size, the filling speed can be adjusted. It applies to all kinds of composite tubes, plastic pipe or metal pipe filling and sealing, date printing, cut the tail. Sealing neat appearance, sealing strong, high accuracy, good stability. Machine is high quality, adopts imported PLC control, imported the original frequency control, pneumatic components using (AIRTAC), for tube tail marker reader, use import original (SICK) photoelectric sensors, high stability, heating system, use imported Switzerland LEISTER heating gun.

Packaging Materials and Filling Materials Scope:

- 1) soft tube, plastic pipe, composite pipe.
- 2) ointment, cream, gel viscosity fluids agents.

Applicable Industries:

It is widely used in pharmaceutical, cosmetic, food, chemical and other industries packaging. Such as ointments, gels, adhesives, AB glue, epoxy glue, skin cream, hair dye, shoe polish, toothpaste and other liquid or paste filling and sealing materials.

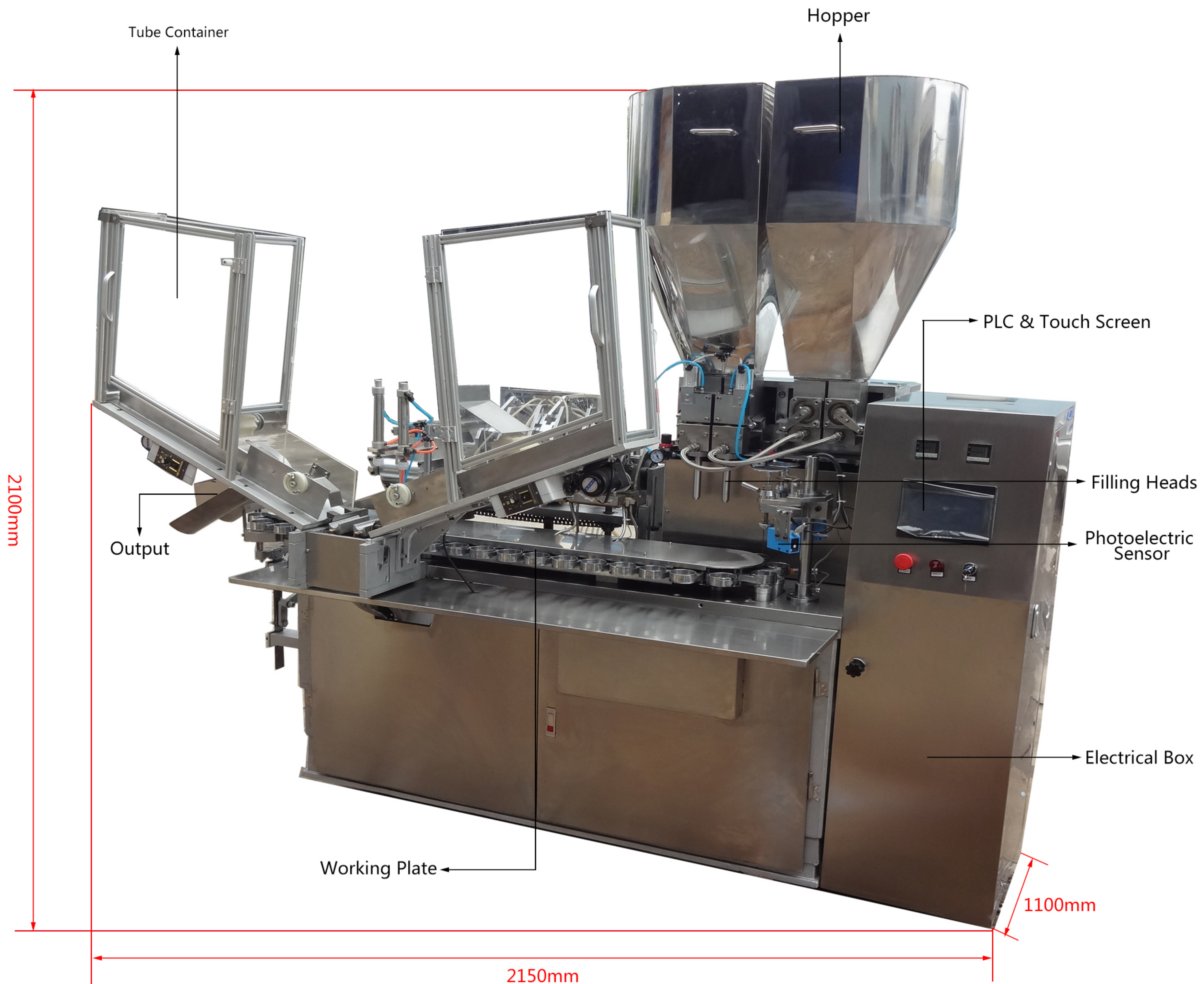
Work Procedure:

Automatic Tube Feeding → Tube Press Into Tube Holder → Automatic Tube Tail Marker Reader → Automatic Filling → Tube Heating → Tail Shaping and Sealing → Tail Cutting → Date Printing → Product Output

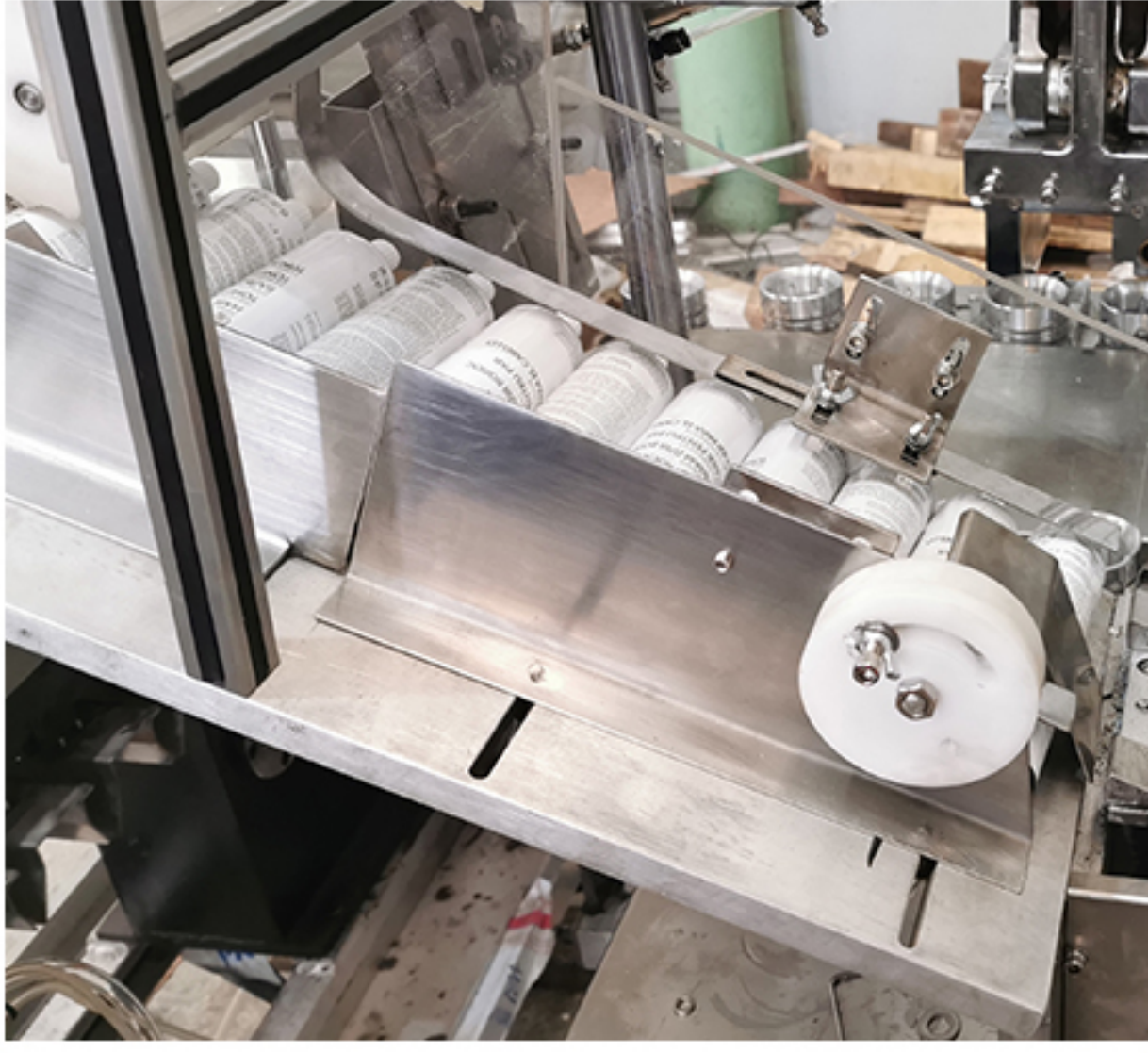
Specifications

Model	HTGF-100
Productivity	80-100 pcs/min
Tube Length	50-230mm (customized)
Tube Diameter	11-38mm (change molds)
Filling Volume	5-200ml (change pump)
Hopper Capacity	50L
Filling Accuracy	±1%
Control	PLC Control System
Display	Touch Screen Display
Power	7.5KW
Voltage	AC380V/220V, 50Hz/60Hz
Machine Dimension	2150*1100*2100mm(L*W*H)
Machine Weight	1300KGS

Structure



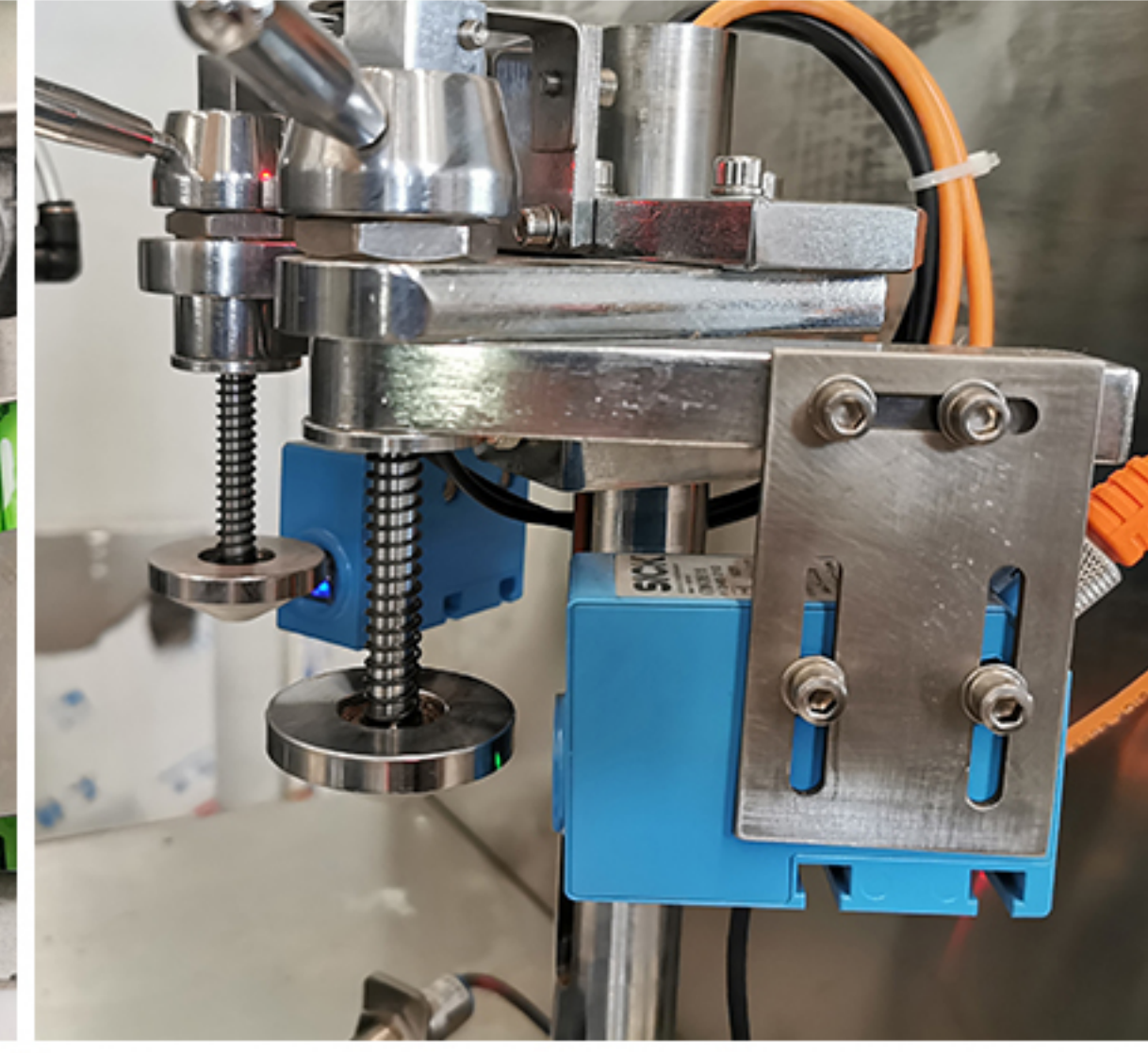
Detail Images



Tube Container



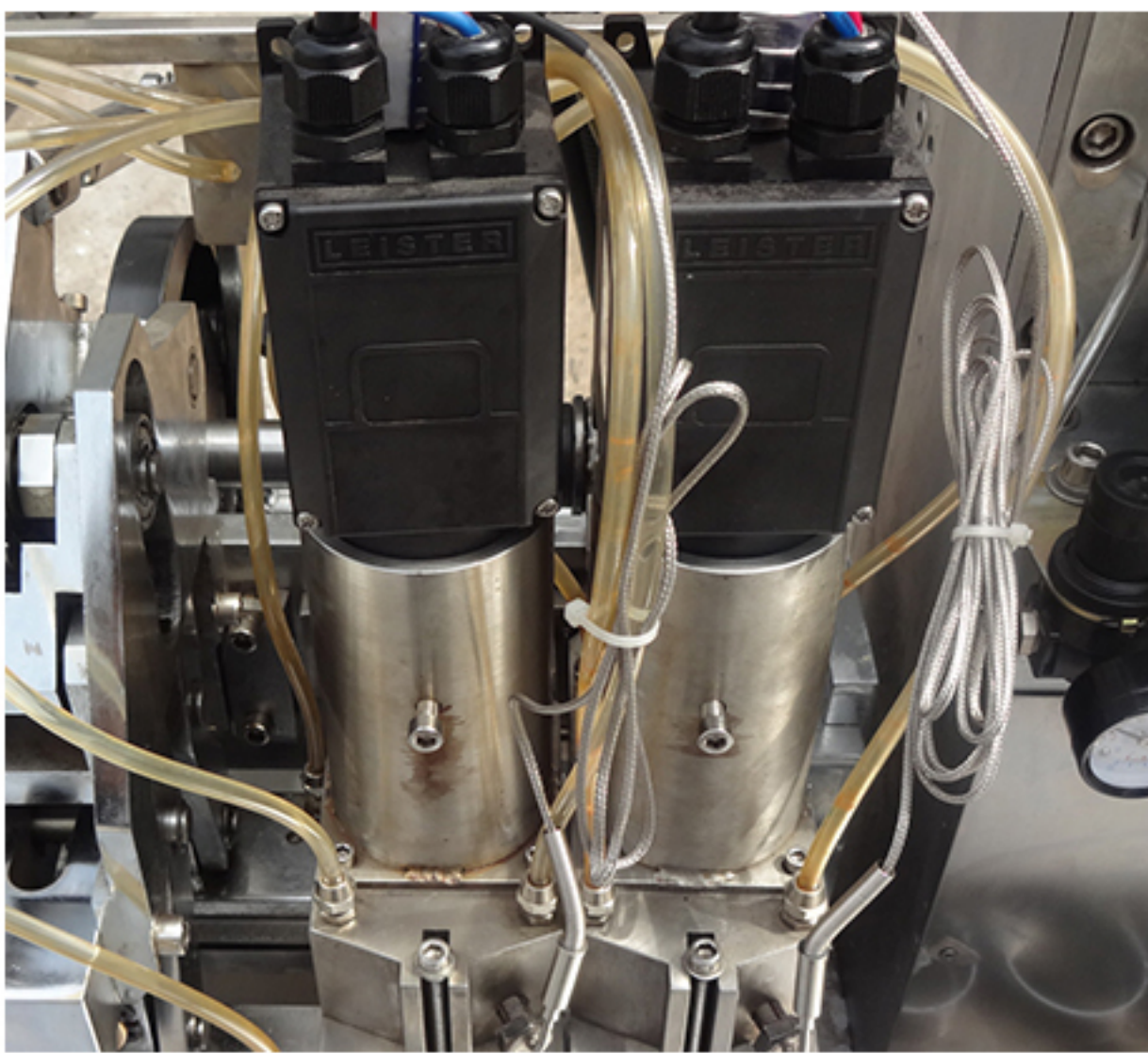
Tube Loading



Photoelectric Sensor



Filling Head



Heating Device



Tube Sealing Parts



Cutting Tail



Output



Cup Holder



Hopper



PLC & Touch Screen



Electric Box

Samples



Sealing Types

Shanghai BiaoZan offers a variety of squeeze tube closing options for sealing Plastic and Laminate tubes. Plastic and Laminate squeeze tube seals include Curved Seals, Rounded Corners, Slot/Hole Punch for hanging tubes and Custom Seals for unique tube presentations. Seal patterns for Plastic and Laminate tubes are also offered in Smooth, Standard or Custom textures.

PLASTIC TUBE SEALING PATTERNS

12 Digit Code, Optional Both Sides
Smooth Standard Custom

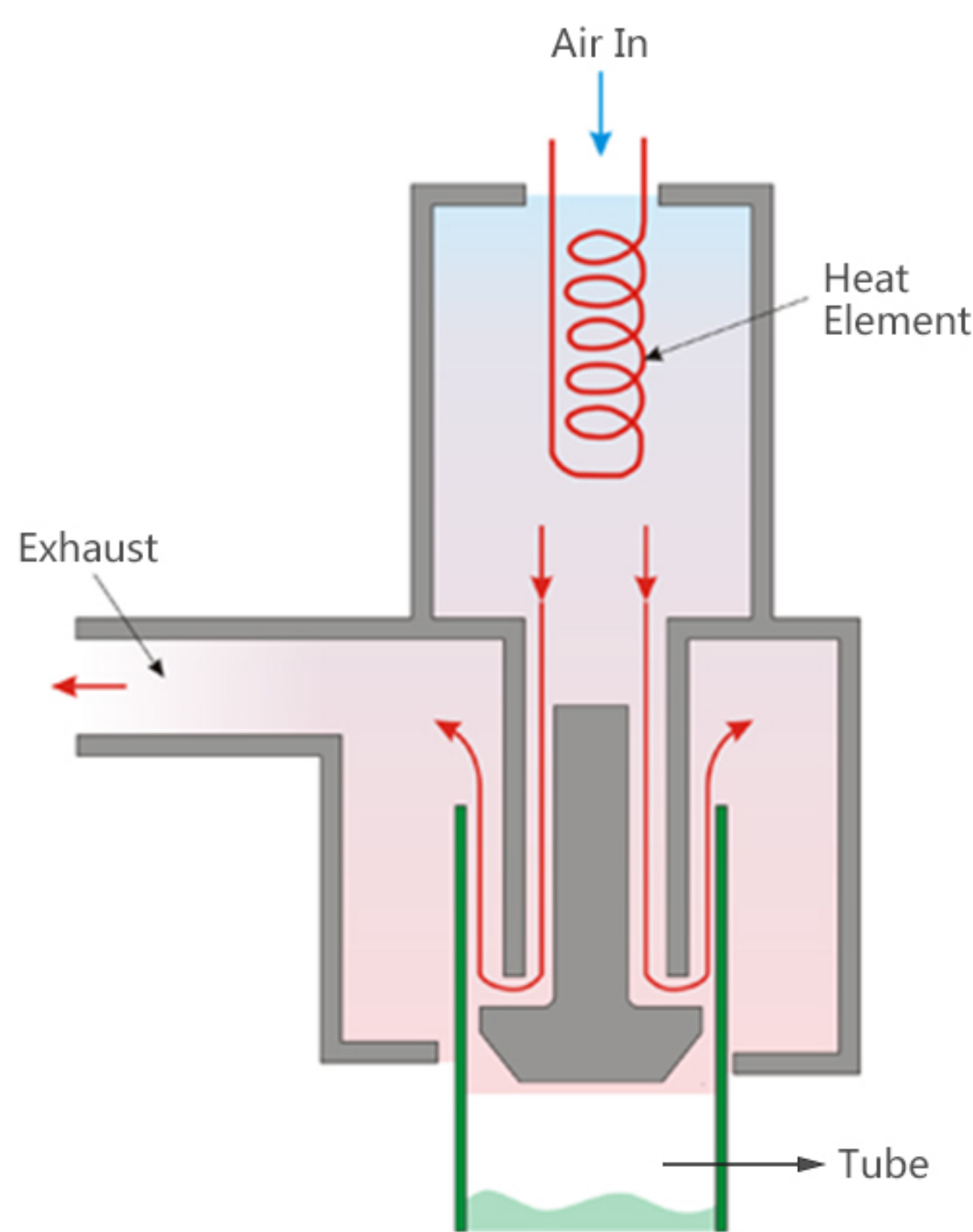


PLASTIC TUBE CLOSING OPTIONS

Custom Seals Curved Seals Rounded Corners Slot/Hole Punch



TUBE SEALING FOR PLASTIC & LAMINATE TUBES



HOT AIR TUBE SEALING

With hot air sealing the inside seal area of the tube is heated by hot air and then is transferred to the closing station where the tube is pressed together and chilled. Hot air tube sealing is the fastest method of plastic tube sealing and works with all plastic and laminate tubes.

Configuration List

NO.	ITEMS	BRANDS
1	Touch Screen	Taiwan WEINVIEW
2	Frequency Converter	China Wei Chuang
3	PLC	Japan Mitsubishi
4	Photocell Eye	Germany SICK
5	Temperature Controller	America Honeywell
6	Main Motor	Taiwan Taiqi
7	Optoelectronic Switch	American Banner
8	Cylinder	Shanghai
9	304 SS	Shanghai Baosteel

Advantages

Our Machine Advantages:

1. Anti-leak filling nozzle deep into inside of hose, while there is a bottom-up filling process is complete when filling and sealing, no leakage or overflow. Machine is suitable for a variety of different physical and chemical properties of the filling material requirements. Filling volume fine hand wheel placed in the external body, tight regulation and very convenient to ensure filling accuracy $\leq \pm 1\%$, cost savings and truly accurate measurement.
2. Mechanical drive, each parts connect with gear or cam, machine running smoothly and stable, no noise.
3. Color positioning, selection of German, while accompanied by a high-precision drives and stepper motor (very high requirements on the standard configuration servo motor), to ensure the correct position graphics.
4. The structure is compact, self-control, transmission closed.
5. Easy to change tube holder for different tube diameter.
6. Material contact parts made of 316 stainless steel, clean, sanitary, in full compliance with the requirements of GMP.
7. The machine speed by inverter control can be adjustable.
8. Height can be adjusted directly and conveniently for different tubes.
9. Filling volume can be adjustable by double cylinder, easy to adjustable.
10. Equipped with safety devices, door stop, no tube no filling, overload protection.
11. No filling leak, the air blow-off device blew cream tail. (This is our patent)
12. Sealing temperature use (Leister hot air gun) tail pipe internal heating, cooling external cooling device configuration.

Accessories

Optional Accessories:

- Optional: External Chiller System, Water Cooler
- Optional: Laminated Barrel Insulation Device
- Optional: Alien Sealing Device (wave-shaped sealing device; arc-shaped sealing device; T-type punching and sealing devices, etc.)
- Optional: Automatic Feeding Pump
- Optional: Finished Tube Output Conveyor

Specific

Machine Working Plate

Have 40 pcs of holder, all the tube feeding, marker location, automatic filling, heating, automatic sealing (with date printing) and output functions around of it.



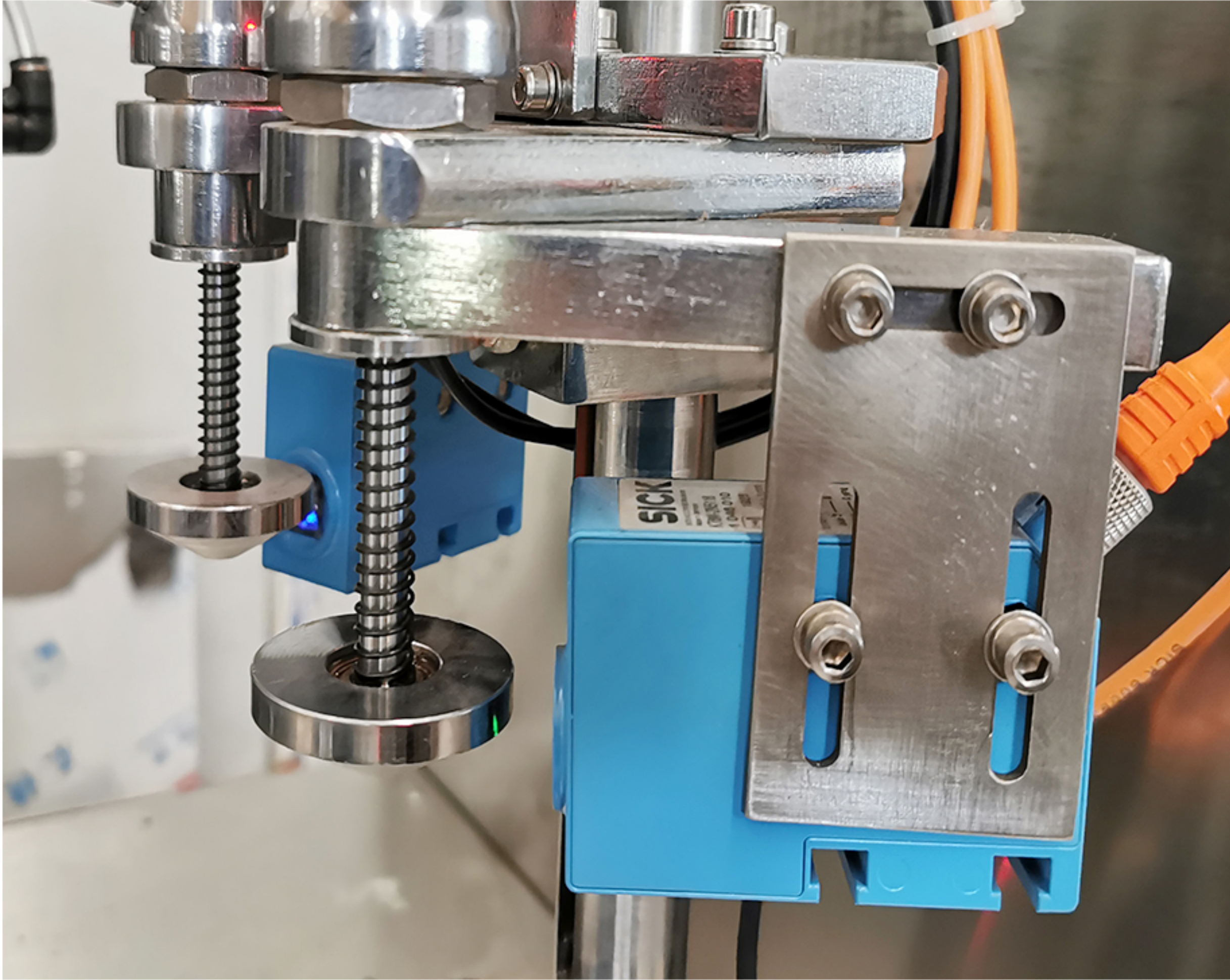
Automatic Tube Feeding System

You just need to put empty tubes into feeding box, it will be feeding the tubes automatically one by one. You can put about 200 pcs of tubes into each box one time.



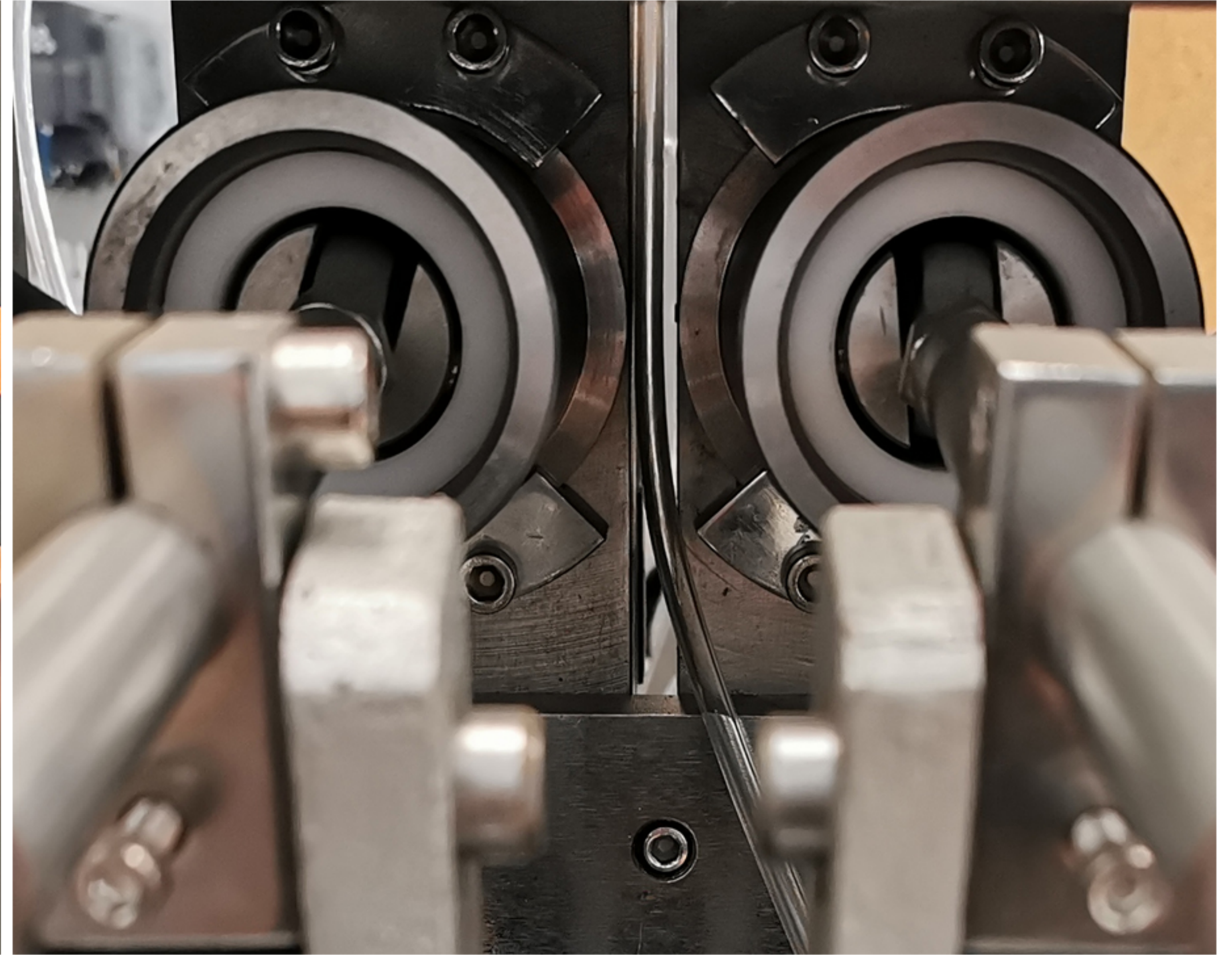
Tube Tail Marker Reader

We User Germany SICK color electric eye, high accuracy and stable.



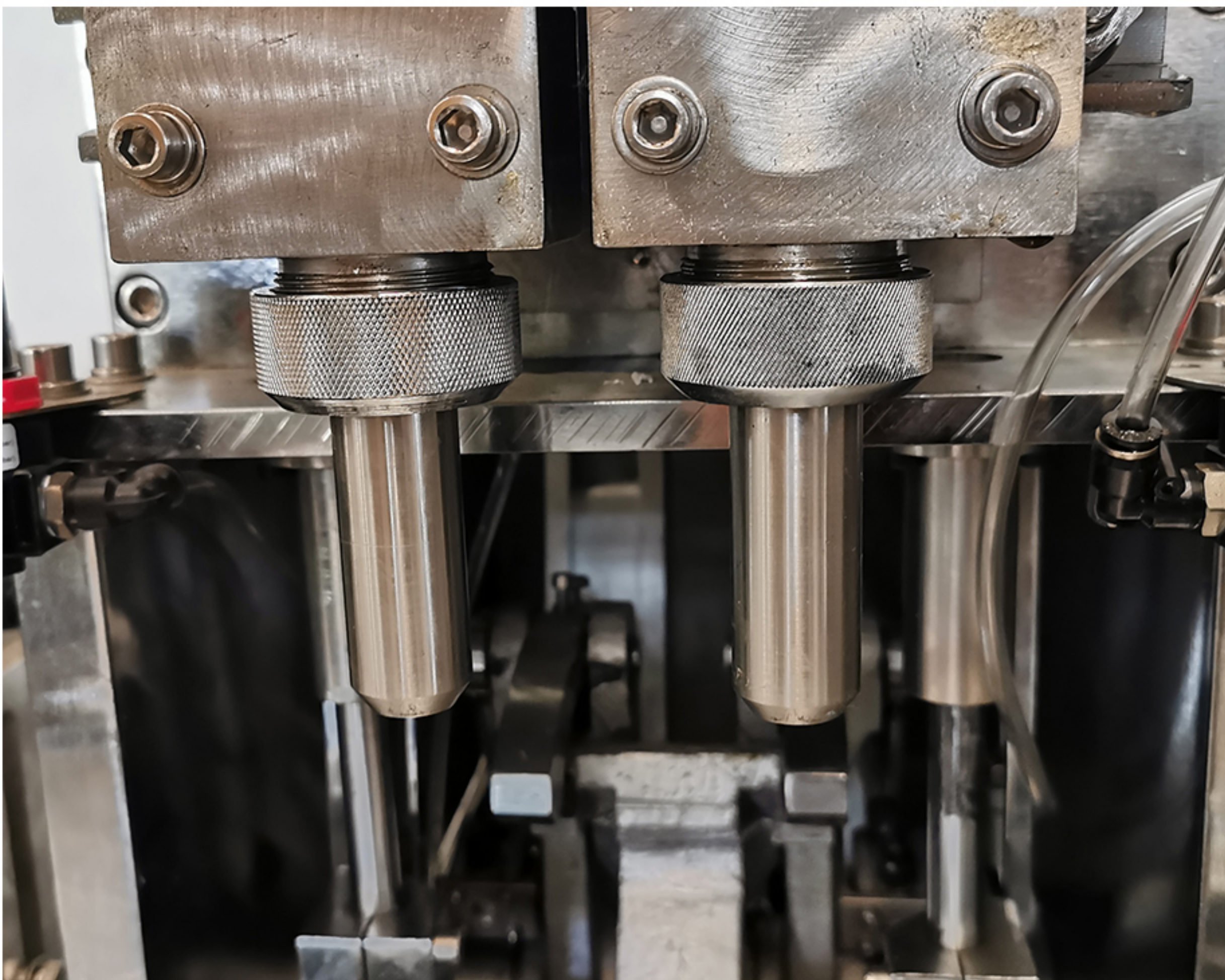
Two Piston Filling Pump

Made of SS 304. Also can be customized as SS 316L. Filling volume can be adjustable.



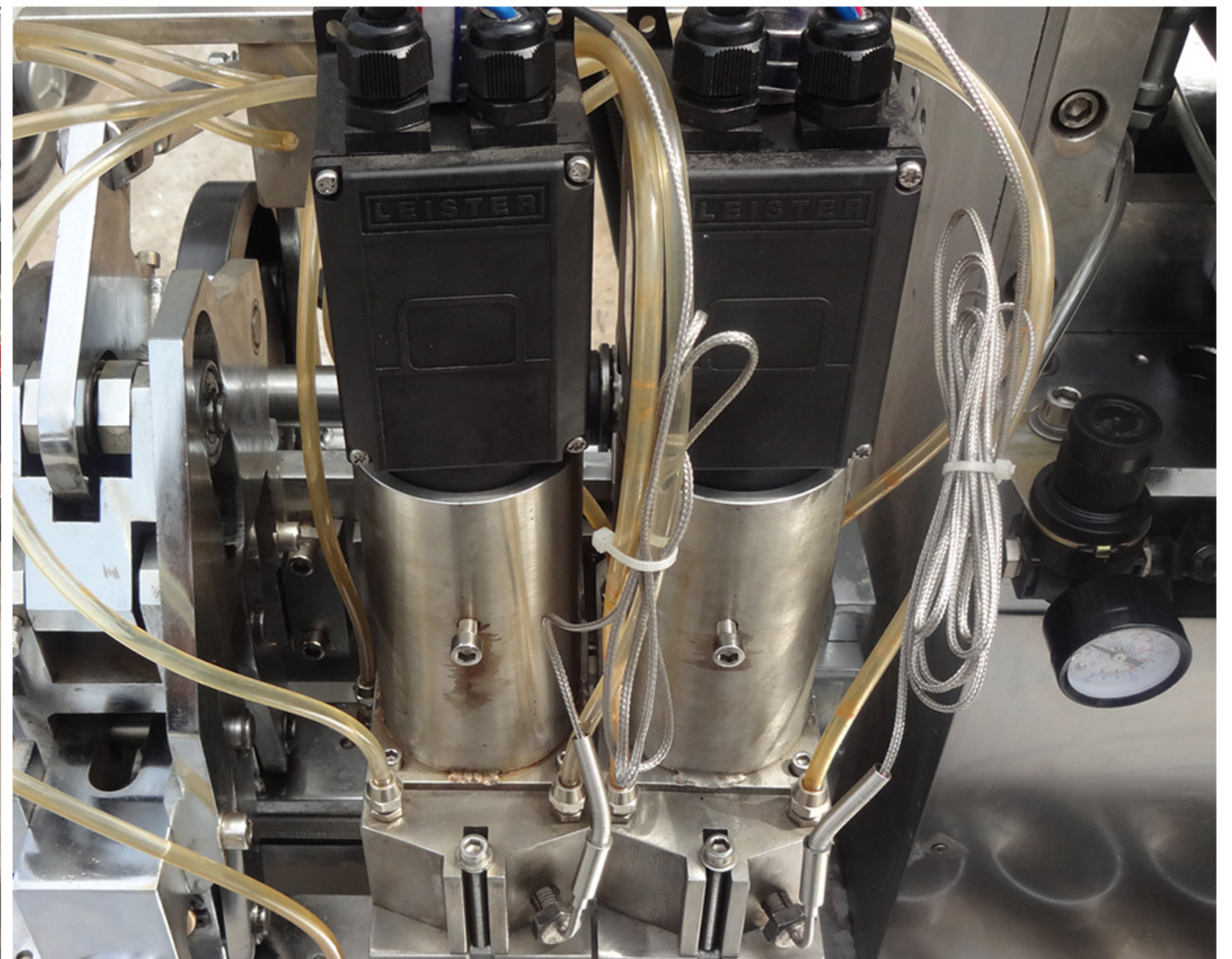
Double Filling Nozzles

Made of SS304. Also can be customized as SS316L. It anti-drop system. Have end cap inside of filling nozzle, and also have air blow after filling to cut down the tail of products.



Inner Heating System

Use Switzerland LEISTER brand, heating time is every short. Temperature can be up to setting temperature within 1-2 minute.



Contact us

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