

HTGF-50 Automatic Plastic Tube Filling Sealing Machine

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

Overviews

HTGF-50 automatic tube filling and sealing machine is mechanical-electrical integration, used multiple introduction technology and controlled by PLC, it can complete tube feeding, photocell recognition, filling, sealing, date printing and tube injection automatically simultaneously. The machine runs smoothly, easy to control and size change over, suitable for producing paste products.

The machine has a modern shape, a strong practicability and good value for process, it is widely used in toothpaste, ointment, paste food, cosmetics, hair-dyeing, adhesive, art palette and so on. The machinery is strictly according to GMP norms and has a compatible design, which is ideal for sealing and filling plastic as well as lami tubes.

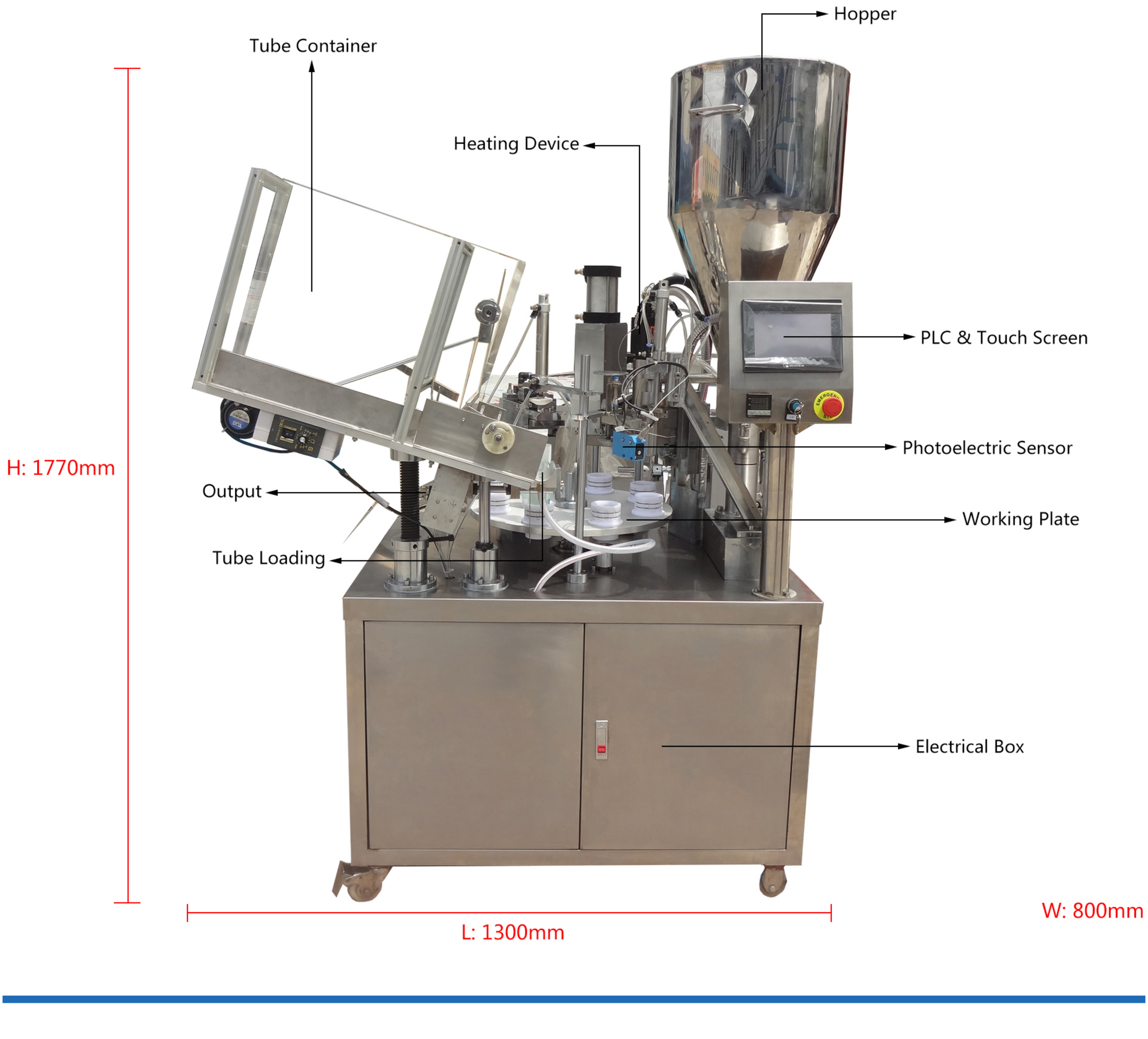
Features:

1. Stainless steel volumetric dozing syringe and Teflon piston seals for accurate dosage.
2. Tube lifting at filling station – so that filling nozzle gets inserted inside tube during filling.
3. Tail cutting by 'suck back' method to prevent dripping of product after filling.
4. Hot air tool for plastic / laminated tubes (Leister make heater).
5. PID temperature controller for accurate control of hot air temperature.
6. Air supply to air heater through independent blower.
7. Batch code embossing facility within sealing jaws (by using negatively etched character type fount).
8. Trimming of plastic / lami tubes at the top end.
9. Preset counter.
10. No–Tube–No–Fill system.
11. Control sensor for non ejected tubes.

Specifications

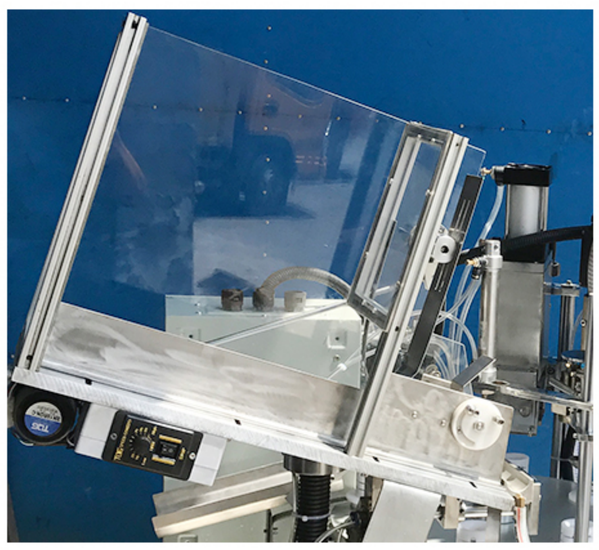
Model	HTGF-50
Productivity	20-30pcs/min
Tube Length	50-200mm (customized)
Tube Diameter	10-50mm (change molds)
Filling Volume	8-250ml (change pump)
Hopper Capacity	40L
Filling Accuracy	±1%
Control	PLC Control System
Display	Touch Screen Display
Power	2KW
Voltage	AC380V/220V, 50Hz/60Hz
Machine Dimension	1300*800*1770mm (L*W*H)
Machine Weight	500KG
Working Process	Tube Container → Automatic Tube Loading → Photoelectric Sensor Positioning → Fluid Filling → Tube Hot Melting → Tube Sealing & Date/Batch Number Coding → Tube Checking and Rejecting →Trimming → Output

Structure



BIAOZAN

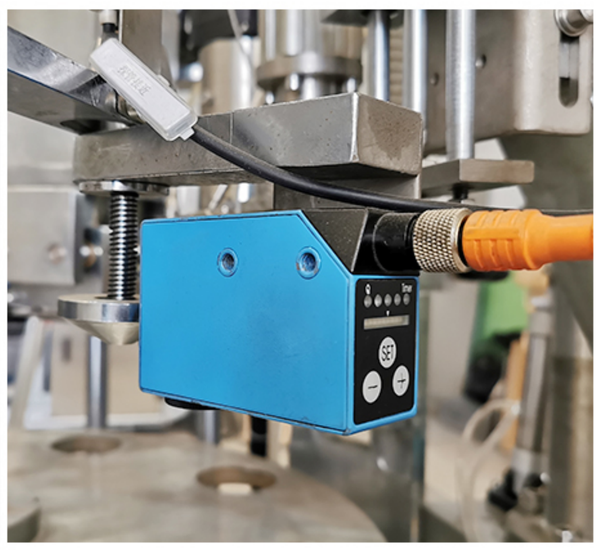
Detail Images



Tube Container



Tube Loading



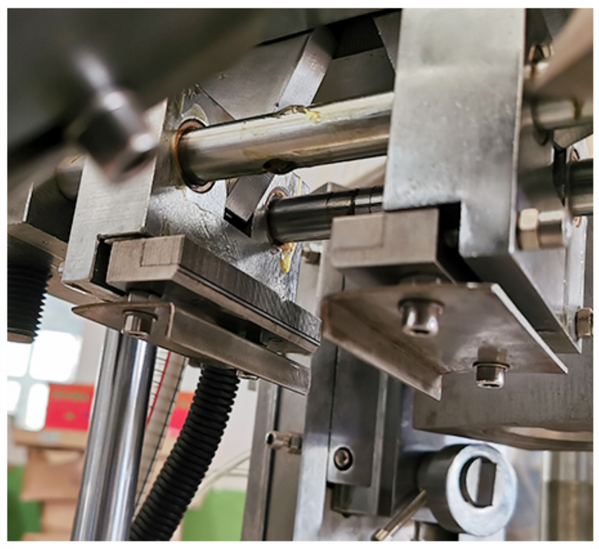
Photoelectric Sensor



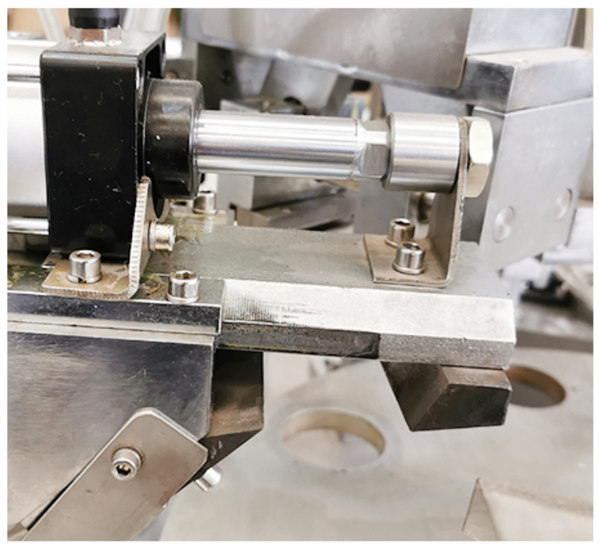
Filling Head



Heating Device



Tube Sealing Device



Cutting Tail



Output

Hopper

PLC & Touch Screen

Working Plate

Electric Box

Samples

















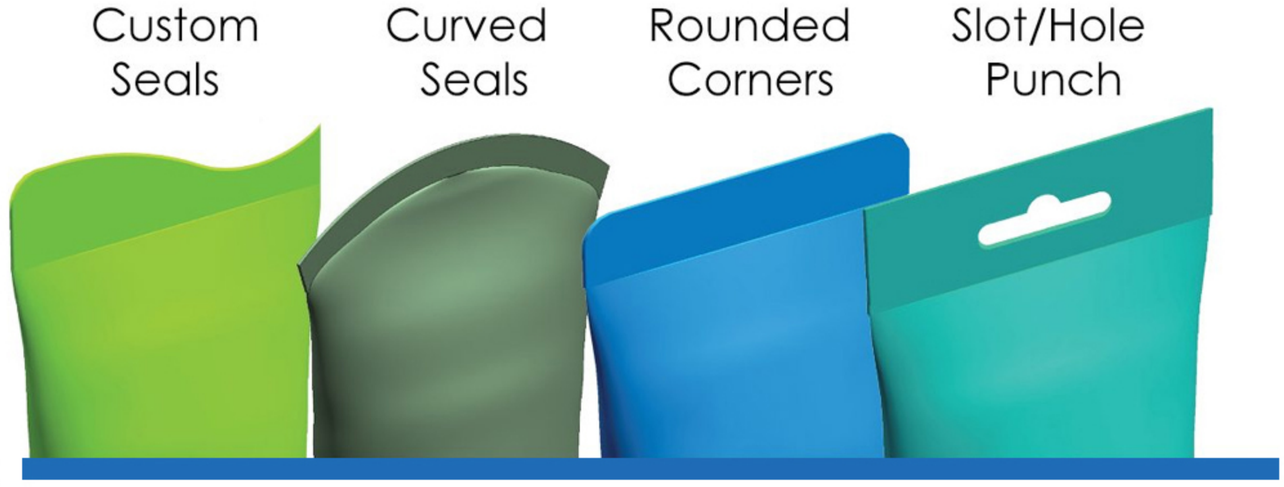
Sealing Types

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.

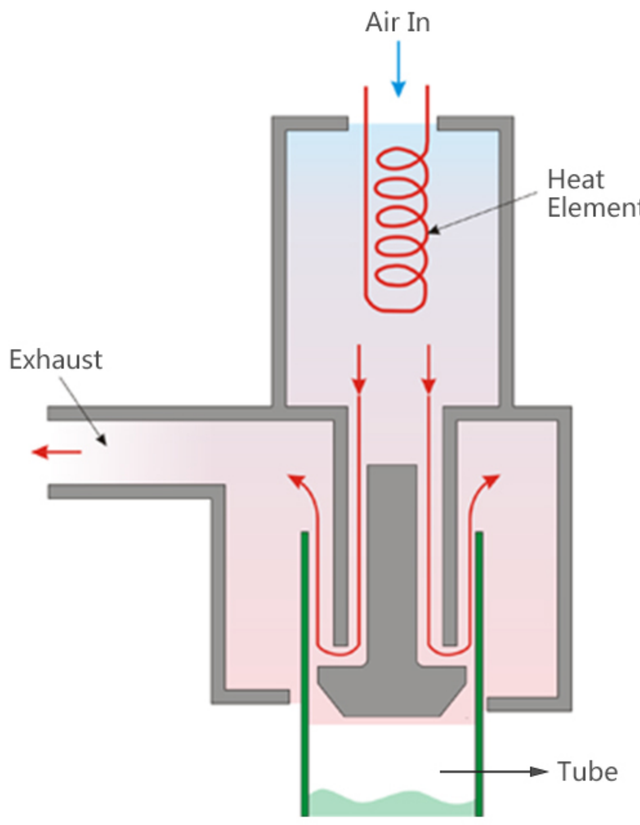
PLASTIC TUBE SEALING PATTERNS



PLASTIC TUBE CLOSING OPTIONS



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	Cylinder	Shanghai
2	Main Motor	Taiqi (Taiwan)
3	The Electromagnetic Valve	AirTAC (Taiwan)
4	Proximity Switch	Schneider (France)
5	Electrical Switches	Schneider (France)
6	Heat Seal	Domestic
7	PLC	Mitsubishi (Japan)
8	Touch Screen	Weinview (Taiwan)
9	Temperature Table	Conch (Taiwan)

Advantages

Our Machine Advantages:

1. Host with frequency control.
2. 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.
3. 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 ≤±1%, cost savings and truly accurate measurement.
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: Barrel Internal Mixing Device
- Optional: Alien Sealing Device (wave-shaped sealing device; arc-shaped sealing device; T-type punching and sealing devices, etc.)
- Optional: Multiple-Color Filling System
- Optional: Less Than 3ML / Branch Dedicated Filling Device
- Optional: Automatic Feeding Pump
- Optional: Finished Tube Output Conveyor

Contact us

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