

Universal tube filling machine

NTTA-500



Universal automatic machine:

designed for filling plastic (polyethylene and polypropylene), laminate, and aluminum tubes with a variety of products, followed by sealing/closing and coding.

Ultraquick and easy changeovers:

facilitates rapid transitions between products, tubes/formatting sets, and tube types (plastic versus aluminum), minimizing downtime and enhancing operational efficiency.

Servo-driven filling system:

utilizes a servomotor to precisely control the piston, enabling digital adjustments via HMI interface for volumes, speeds, and other parameters, while supporting customizable profiles for various tubes and products.

Design example - subject to alterations

PLASTIC AND LAMINATE TUBES

ULTRAQUICK CHANGEOVERS

ALUMINUM TUBES



Tube diameter	ø 10–60 mm
Tube height	50 - 250 mm
Tube type	plastic (PE, PP), laminate, polyfoil
Seal shape	linear 8 mm, curved, linear 25 mm (for Euro-slot)
Tube coding	single sided, dual sided or none



Tube diameter	ø 10–60 mm
Tube height	50 - 250 mm
Tube crimping (closing)	double fold
Tube coding	single sided or none



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KEY FEATURES

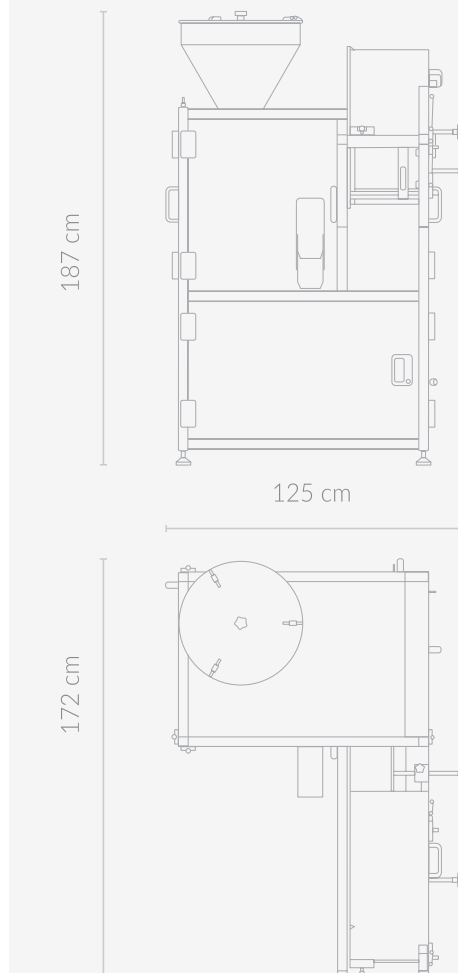
- Universal machine suitable for all plastic (polyethylene and polypropylene), laminate and aluminum tubes
- Hot air sealing technology for plastic and laminate tubes / mechanical crimping of aluminum tubes
- Tube cassette magazine feeder
- 8 station rotary indexing
- 40 liter hopper with lid
- Servo-driven filling system
- Ultraquick and easy changeovers

MACHINE COMPONENTS

- Stainless steel AISI 304 construction
- Contact parts from AISI 316 stainless steel
- Mitsubishi Electric PLC and touch screen
- Turntable operated by Mitsubishi Electric servomotor
- Filling device operated by Mitsubishi Electric servomotor
- CKD, Camozzi, Metal Work, Festo and Valbia pneumatic elements
- Integrated tube seal strength tester

OPTIONAL EQUIPMENT

- Automatic hopper fill level control
- External pump for dense fluids
- Pneumatic mixer with auger (Festo)
- Jacketed hopper – enables heating of product
- Vacuum station – for removal of dust / dirt from tube
- Network router – enables remote support



Design example - subject to alterations

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PROCESS PARAMETERS	Machine output (speed) for plastic tubes	up to 50 tubes per minute
	Machine output (speed) for aluminum tubes	up to 40 tubes per minute
	Dosing volume (cylinder of filling device)	a. 3-20 ml; b. 20-80 ml; c. 40-150 ml; d. 65-260 ml
	Filling accuracy error	<±1% of volume
LEVEL OF AUTOMATION	Feeding of tubes	automatic
	Tube orientation	automatic
	Vacuum cleaning of tubes	automatic (option)
	Heating of product	automatic (option)
	Mixing of product	automatic (option)
	Filling of tubes	automatic
	Sealing / crimping of tubes	automatic
	Coding of tubes	automatic
	Trimming of plastic tubes	automatic
	Control of hopper fluid level	automatic (option)
	Refilling of hopper	automatic with external pump (option)
	Tube ejection	automatic
DEVICE PARAMETERS	Machine dimensions	172 x 125 x 187 cm
	Machine net weight	405 kg
	Power supply	230 V, 50 Hz
	Installed capacity	4.4 kW
	Air pressure required	0.5 MPa
	Compressed air consumption	up to 600 l/min



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