

Tube filling and sealing / crimping machine

NTTA-300



Compact universal machine used for filling of plastic (polyethylene and polypropylene), laminate and aluminum tubes with creams, gels or other dense fluids, sealing / closing them and coding.

The machine works in semi-automatic mode – all operations, except for inserting of tubes are done automatically.

Design example - subject to alterations

PLASTIC AND LAMINATE TUBES



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

ALUMINUM TUBES



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



NEWECO Machinery sp. z o.o.
ul. Domaniewska 47/10
02-672 Warszawa, Poland

+48 22 846 64 60
www.neweco.biz

KEY FEATURES

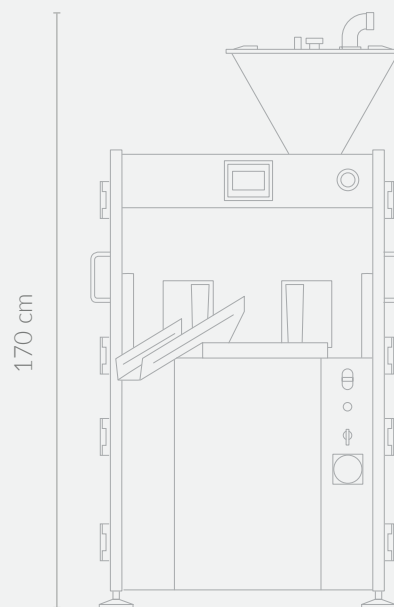
- ▲ Universal machine suitable for all plastic (polyethylene and propylene), laminate and aluminum tubes
- ▲ Hot air sealing technology for plastic and laminate tubes / mechanical crimping of aluminum tubes
- ▲ 8 station rotary indexing
- ▲ Electronic control of parameters and process with saving option (recipes)
- ▲ 25 liter hopper with lid
- ▲ No water chiller required
- ▲ Tool-less and ultra-fast changeovers

MACHINE COMPONENTS

- ▲ Stainless steel AISI 304 construction
- ▲ Contact parts from AISI 316 stainless steel
- ▲ Mitsubishi Electric PLC and touch screen
- ▲ Mitsubishi Electric rotary drive
- ▲ Festo, CKD, Camozzi and Metal Work pneumatic elements
- ▲ Integrated tube seal strength tester

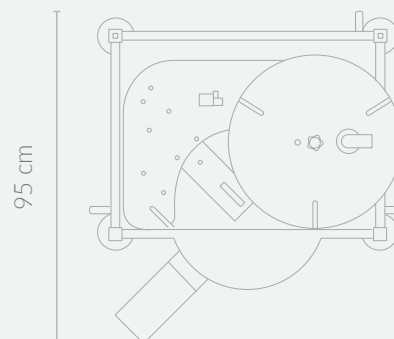
OPTIONAL EQUIPMENT

- ▲ Automatic hopper fill level control
- ▲ External pump for dense fluids
- ▲ Filling device for micro-dosing
- ▲ Pneumatic mixer
- ▲ Jacketed hopper - enables heating of product



170 cm

90 cm



95 cm

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Design example - subject to alterations

PROCESS PARAMETERS	Machine output (speed)	up to 30 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
	Micro-dosing volume	0,4 - 10 ml
	Filling accuracy error	<±1% of volume
LEVEL OF AUTOMATION	Inserting of empty tubes	manual
	Tube orientation	manual or automatic (option)
	Moving of tube holders	automatic
	Heating of product	automatic (option)
	Mixing of product	automatic (option)
	Filling of tubes	automatic
	Sealing / crimping of tubes	automatic
	Coding of tubes	automatic
	Triming 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
Net machine weight		285 kg
Power supply		220 - 240 V, 2.8 kW
Air pressure required		0.6 MPa
Compressed air consumption		up to 400 l/min



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