

Tube filling and sealing machine

NTT-200



Design example - subject to alterations

Compact table top machine used for filling of plastic (polyethylene and polypropylene) and laminate tubes with creams, gels or other dense fluids, sealing them with hot air, coding and trimming.

The machine works in semi-automatic mode – all operations except for inserting, orientation and moving of tube holders are done automatically.

TUBE PARAMETERS



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



NEWECO Sp. z o.o. Sp. k.
ul. Domaniewska 47/10
02-672 Warszawa, Poland

+48 22 846 64 60
www.neweco.biz

KEY FEATURES

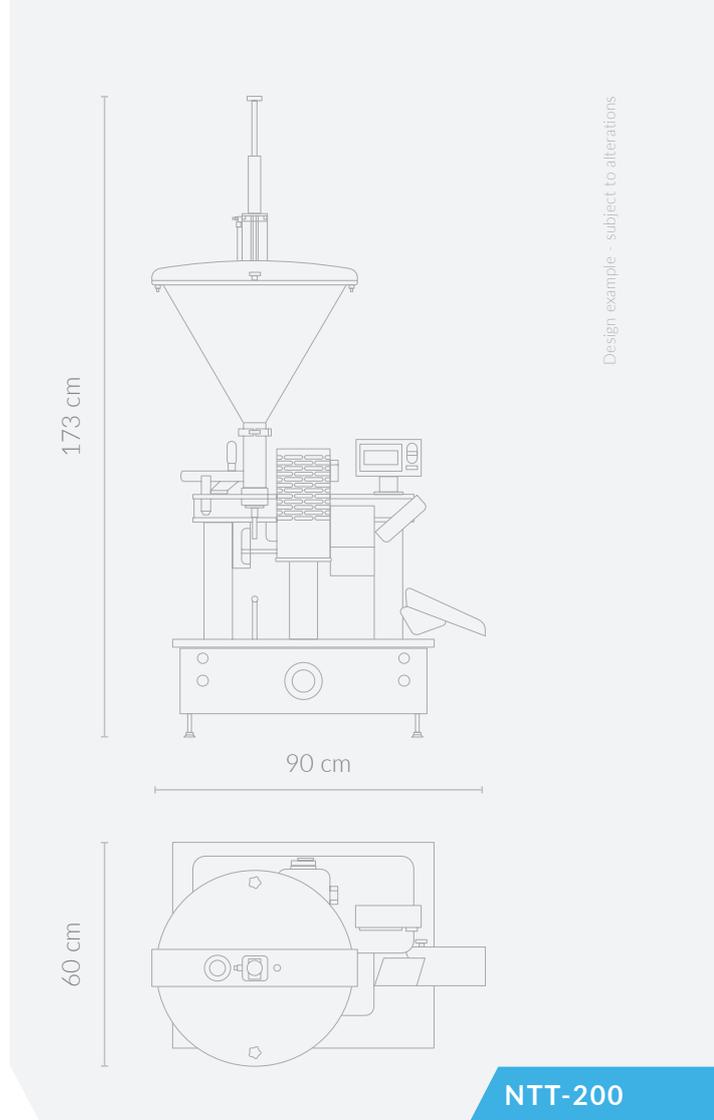
- ▲ Suitable for all plastic (polyethylene and polypropylene) and laminate tubes
- ▲ Hot air sealing technology
- ▲ Operations in 5 stations
- ▲ Electronic control of parameters and process with saving option (recipes)
- ▲ 25 liter hopper with lid
- ▲ No water chiller required
- ▲ Fast changeover of production runs

MACHINE COMPONENTS

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

OPTIONAL EQUIPMENT

- ▲ Automatic hopper fill level control
- ▲ External pump for dense fluids
- ▲ Digital volume indicator
- ▲ Pneumatic mixer (Festo)
- ▲ Jacketed hopper – enables heating of product



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PROCESS PARAMETERS	Machine output (speed)	up to 12 tubes per minute
	Dosing volume (cylinder of filling device)	a. 1-50 ml; b. 30-260 ml
	Filling accuracy error	<±1% for dosing volume over 5 ml
	No. of filling cycles per tube	1-2
LEVEL OF AUTOMATION	Inserting of empty tubes	manual
	Tube orientation	manual
	Moving of tube holders	manual
	Heating of product	automatic (option)
	Mixing of product	automatic (option)
	Filling of tubes	automatic
	Sealing of tubes	automatic
	Coding of tubes	automatic
	Cutting of tube endings	automatic
	Control of hopper fluid level	automatic (option)
	Refilling of hopper	automatic with external pump (option)
Tube ejection	automatic	
DEVICE PARAMETERS	Machine dimensions	90 × 60 × 173 cm
	Net machine weight	140 kg
	Power supply	a. 220-240 V, 1.9 kW; b. 110-120 V, 1.7 kW
	Air pressure required	0.6 MPa
	Compressed air consumption	up to 300 l/min



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