

Tube filling and sealing machine

NTT-400A



Design example - subject to alterations

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 fully automatic mode.

TUBE PARAMETERS



| | |
|---------------|--|
| Tube diameter | ø 10–50 mm |
| 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

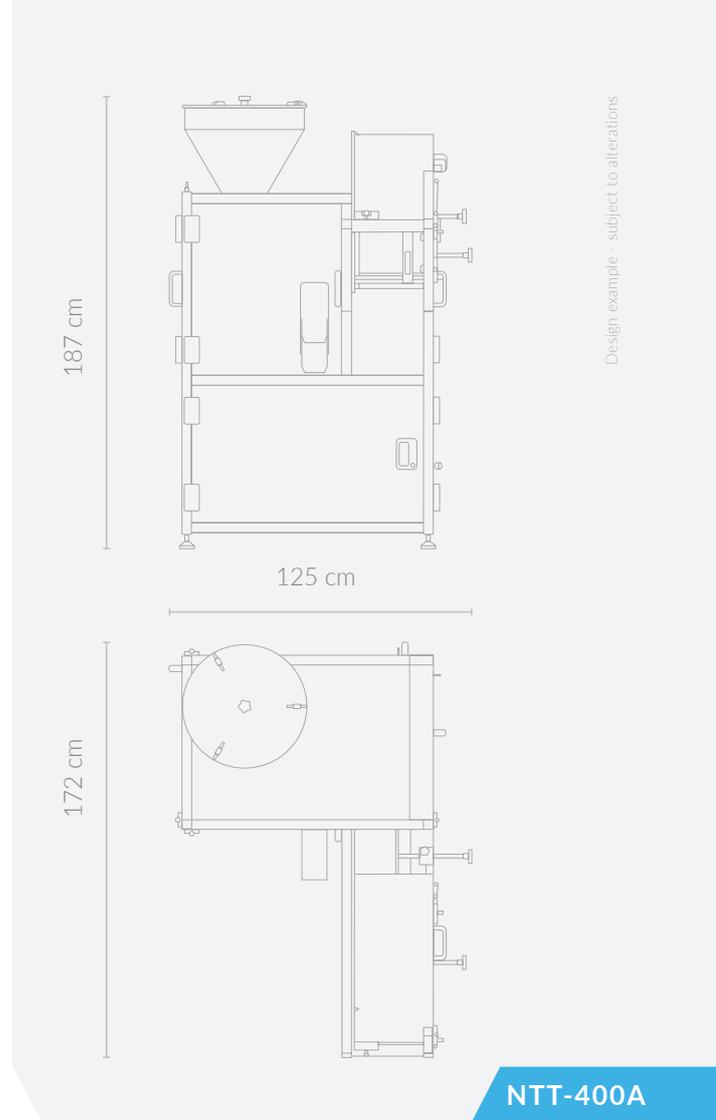
- ▲ Suitable for all plastic (polyethylene and polypropylene) and laminate tubes
- ▲ Hot air sealing technology
- ▲ Tube cassette magazine feeder
- ▲ 8 station rotary indexing
- ▲ 40 liter hopper with lid
- ▲ No water chiller required

MACHINE COMPONENTS

- ▲ Stainless steel AISI 304 construction
- ▲ Contact parts from AISI 316 stainless steel
- ▲ Mitsubishi Electric PLC and touch screen
- ▲ Mitsubishi Electric servodrive
- ▲ 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



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| | | |
|---------------------|--|---|
| PROCESS PARAMETERS | Machine output (speed) | 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 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 | 172 × 125 × 187 cm |
| | Net machine weight | 362 kg |
| | Power supply | 230 V, 50 Hz |
| | Installed capacity | 3.6 kW |
| | Air pressure required | 0.6 MPa |
| | Compressed air consumption | up to 500 l/min |



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