

AUTOMATIC ORAL POUCHES FORMING & FILLING MACHINE

TCANP-600

High-speed, integrated production solution for nicotine pouch manufacturing with stable forming, controlled filling and automation-ready line integration. Designed for industrial-scale output, efficient material handling and reliable quality control in modern pouch production environments.

PERFORMANCE	PRODUCT RANGE	MACHINE HIGHLIGHTS
<ul style="list-style-type: none"> • 600 pouches/min unit speed • 2400 pouches full line speed • OEE >=75% • Reject rate <=3% 	<ul style="list-style-type: none"> • 0.3 - 1.2 g fill weight • 28 - 40 mm pouch length • 30 - 37 mm fleece width • 12 - 25 pcs/can 	<ul style="list-style-type: none"> • Automatic roll change • Automatic web splicing • Automatic powder feeding • Remote diagnostics ready

Typical Applications

NICOTINE POUCHES	WHITE POUCH FORMATS	LINE INTEGRATION
<p>600 pouches/min</p> <p>Automatic forming and filling for high-volume oral pouch production.</p>	<p>28–40 mm</p> <p>Prepared for common pouch sizes with stable sealing and recipe flexibility.</p>	<p>160 cans/min</p> <p>Suitable for connection with downstream can filling, checking and reject modules.</p>

TECHNICAL OVERVIEW

TCANP-600 combines automatic pouch forming, filling and core process control in one integrated production platform. The machine is built for stable output, efficient material usage and straightforward integration into high-volume nicotine pouch operations.

KEY FEATURES

- Integrated automatic pouch forming and filling for nicotine pouch production.
- Dual-roll feeding with automatic roll switching and web splicing.
- Fully automatic powder feeding with production monitoring support.
- Beckhoff PLC/HMI and Bosch Rexroth servo motion platform.
- Checkweigher, metal detection, reject handling and vision inspection support.
- Remote diagnostics ready and designed according to CE requirements.

AUTOMATION & SAFETY

Control system	PLC Beckhoff
Motion control	Bosch Rexroth Servo
Sensor system	SICK & KEYENCE
Safety system	Pilz interlocked safety doors and industrial safety circuit
Compliance	Designed according to CE requirements; IEC-based electrical design

PERFORMANCE

Pouch forming speed	600 pouches/min
Can filling speed	180 cans/min
OEE	>=80%
Reject rate	<=3% (automatic vision rejection)

PRODUCT SPECIFICATION

Pouch filling weight	0.3 - 1.2 g
Pouch length	28 - 40 mm
Nonwoven fleece width	30 - 37 mm
Pouches per can	12 - 25 pcs/can

UTILITIES & DIMENSIONS

Power supply	380V / 50Hz / 3 Phase or 480V / 60Hz / 3 Phase
Installed power (single maker)	24 kW
Compressed air pressure	0.6 - 0.8 MPa
Air consumption	Approx. 600 - 800 L/min
Single pouch maker	4900 (L) x 1650 (W) x 3300 (H) mm
Complete production line	17100 (L) x 5300 (W) x 3500 (H) mm
Machine weight	Approx. 2500 kg per maker

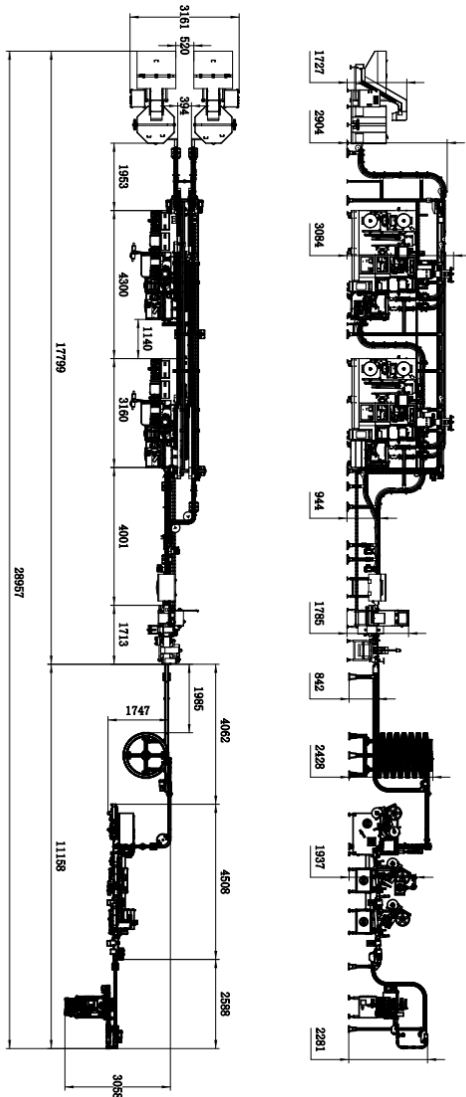
PRODUCT LAYOUT

TCANP-600 is designed for modular line configuration and can be arranged from 2 to 4 Maker & Packer units depending on the required output, available floor space and downstream integration concept. The layout can be adapted to suit plant utility points, operator access requirements and future expansion plans.

Flexible concept: 2-unit layout for standard output expansion, up to 4-unit layout for higher-capacity line architecture.

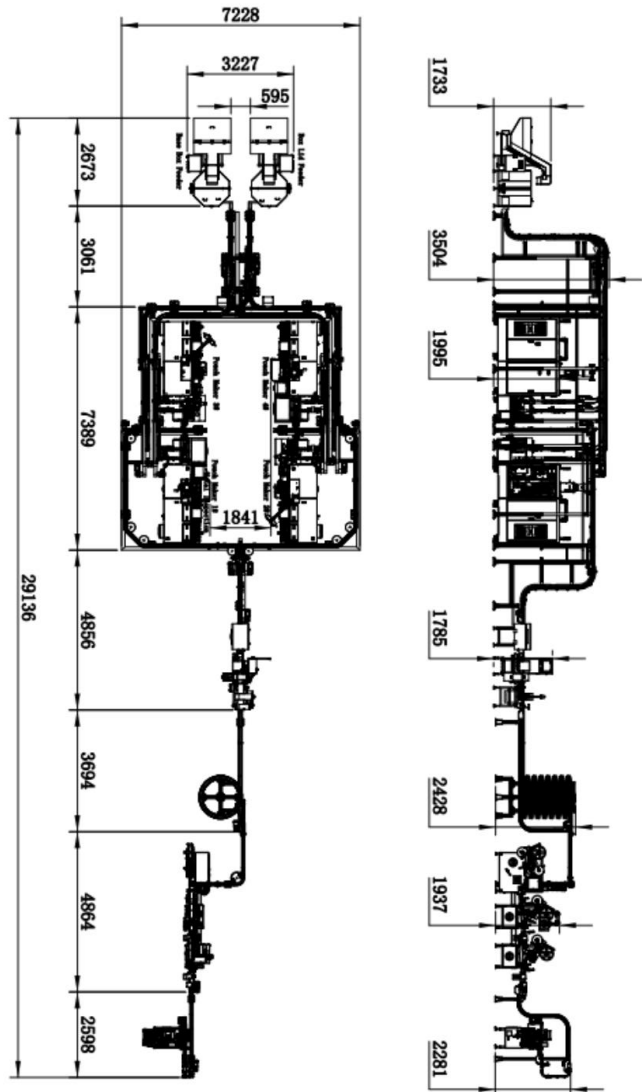
2-Packer REFERENCE LAYOUT

Suitable for compact line configuration and staged capacity build-up.



4-Packer REFERENCE LAYOUT

Configured for higher throughput with integrated feeding and inspection flow.



Final line configuration can be optimized according to factory layout, operator flow, utility routing and downstream equipment connection requirements.