

LABELING DESIGN FEATURES

- Combining hot-melt adhesive and self-adhesive labeling capabilities, thanks to the labeling stations in modularized design and integration of multiple stations.
- Automatic detection of label roll consumption condition and automatic changeover to another label roll when the preset value is reached, with the system slowing down but not being shut down.
- Improved transmission accuracy and labeling efficiency as well as reduced vibration and noise levels as the result of each associated part being installed with an independent servo drive.





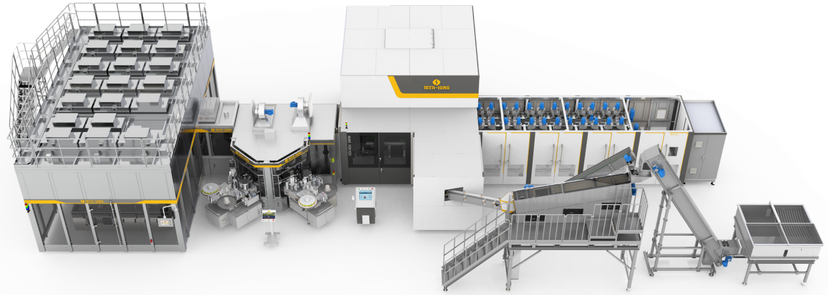
FILLING-CAPPING FEATURES

- The integrated floor-standing housing fitted with high strength laminated tempered glass of double-layer and explosion-proof construction, safe and durable, beautifully designed, and with permanent clear views against atomization possible.
- No residues left and higher hygiene level due to the clean baseplate of inclined design.
- Volumetric filling with flow meters featuring both cost effectiveness and reliability.
- Ease of recipes changeover, and no return during filling for better energy conservation and higher hygiene level.
- Automatic enclosed and circulating CIP system characterized by high efficiency and best hygiene level.
- Capping cam profile flexibly optimized for ensuring stable machine rotation at high speed.



TECH-LONG

FULLY-NEW HIGH-SPEED BLOWING-LABELING-FILLING-CAPPING MONOBLOC



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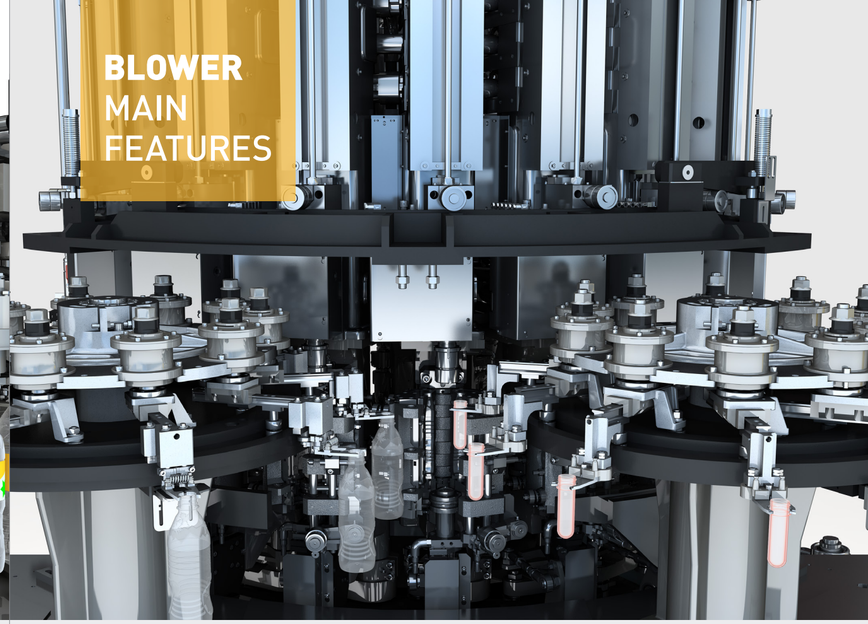
TECHNICAL DATA

Number of moulds/bottle rotation assemblies /filling valves/capping heads	32×60×120×42
Rated capacity(BPH)	72,000
High-pressure air consumption(Nm³/min)	13.6 (30bar) 11.2 (25bar)
Installed power(Kw)	802
Dimension(mm)	31650 (length)×11800 (width)× 5000 (height)
Gross Weight(T)	77.5
Bottle diameter range(mm)	Φ40 ～ Φ74
Bottle volume range(ml)	200 ～ 600
Bottle height range(mm)	120 ～ 260
Label width range(mm)	30 ～ 170
Label length range(mm)	138 ～ 250
Distance range from label to bottle bottom(mm)	35 ～115



ADVANTAGES

- Output: 72000 BPH.
- The Blowing-Labeling-Filling-Capping Combi free of the labeler upstream pressure-less conveyor, bottle body air drying device and other units, with 20%~30% less footprint required than the traditional production line.
- Reduced manpower from 3 operators for traditional equipment to 1 operator for this monobloc.
- Whole machine production efficiency above 98%.
- MES intelligent management system combining control, maintenance, management and other functions.
- The installed visual inspection and rejection system capable of checking empty container quality, capping quality and filling levels online, and rejecting defective products quickly for ensuring fast speed, high accuracy, improved production stability and efficiency.
- Significantly reduced energy consumptions, i.e. 40%~55% lower HP air consumption and 25%~35% lower electricity consumption, with the application of Tech-Long's state-of-the-art energy-saving technologies.



BLOWER MAIN FEATURES

- Servo stretching and mechanical sealing with flexibly adjustable stretching parameters and maximized processing angle.
- Base molds interlocked with mold opening and closing for fewer impacts and vibrations.
- High pressure air consumption decreased by 40%~55%, thanks to the use of six-step blowing technology.
- Quick change of neck size parts and bottle format parts for changeovers of different neck sizes and bottle formats.
- Energy consumption reduced by more than 40% with the heating and air circulation system featuring high speed and energy conservation.

