

AUTOMATIC TUBE LOADING & SORTING MACHINE

Smart Tube Handling Solutions
for Modern Manufacturing

MODEL
BTL-80



AUTOMATION
ROBOTICS
PRECISION
INTEGRATION



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*Precision in Every Tube.
Automation in Every Step.*

MACHINE FEATURES



TUBE MANAGING

- Empty tube storage system
- Continuous feeding
- Variable capacity according to tube diameter



TUBE SEPARATION UNIT

- Individual tube separation
- Double-feeding prevention
- Pneumatic and mechanical operating system



ORIENTATION SYSTEM

- Tube position detection
- Accurate tube orientation
- Compatible with round and oval tubes



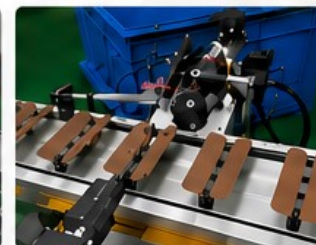
ROBOTIC PICK & PLACE

- Servo-driven robotic arm
- High precision movement
- Synchronized electronic control



CONVEYOR TRANSFER SYSTEM

- Synchronized conveyor
- Precise positioning
- Integration with automated production lines



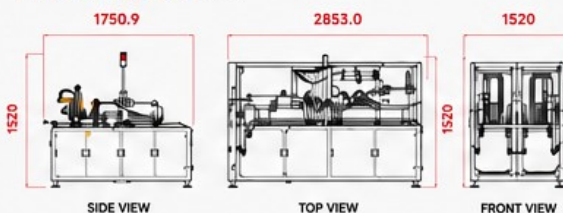
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TECHNICAL SPECIFICATIONS

Machine Type	Automatic Tube Loading & Sorting Machine
Production Speed	Max. 80 pcs/min
Tube Diameter Range	Ø16 - Ø60 mm
Tube Sleeve Length	Max. 220 mm
Machine Dimension (L x W x H)	2853 x 1750.9 x 1520 mm
Power Supply	380V ± 10%, 60Hz, 3 Phase
Air Pressure	0.5 - 0.7 MPa

MACHINE DIMENSION (mm)



MACHINE OVERVIEW

Tube Orientation & Transfer System

The Tube Orientation & Transfer System is designed to automatically detect the position of tubes and accurately orient them to the required production direction. Through an advanced tube detection mechanism and Automation rotation system, each tube is precisely aligned before transfer.

Once oriented, the tubes are transferred by a servo-controlled robotic arm or pick & place system, ensuring high-speed, stable, and accurate handling throughout the production process. The system can be seamlessly integrated with downstream equipment such as printing machines, hot stamping machines, capping machines, and inspection systems, enabling fully automated production line operation and improving overall productivity, consistency, and efficiency.

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