Monet > 07/04/21   08:30
Expansion Box On

Cartons/hr
10800

M/min
40

Feed
14384

Trombone
14384

8
7
6
5
4
3
2
1

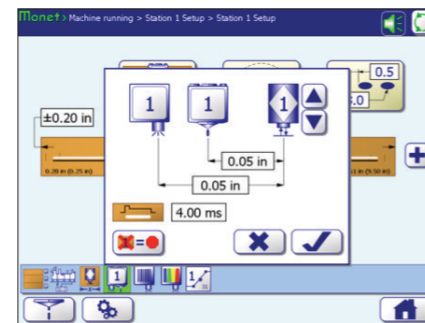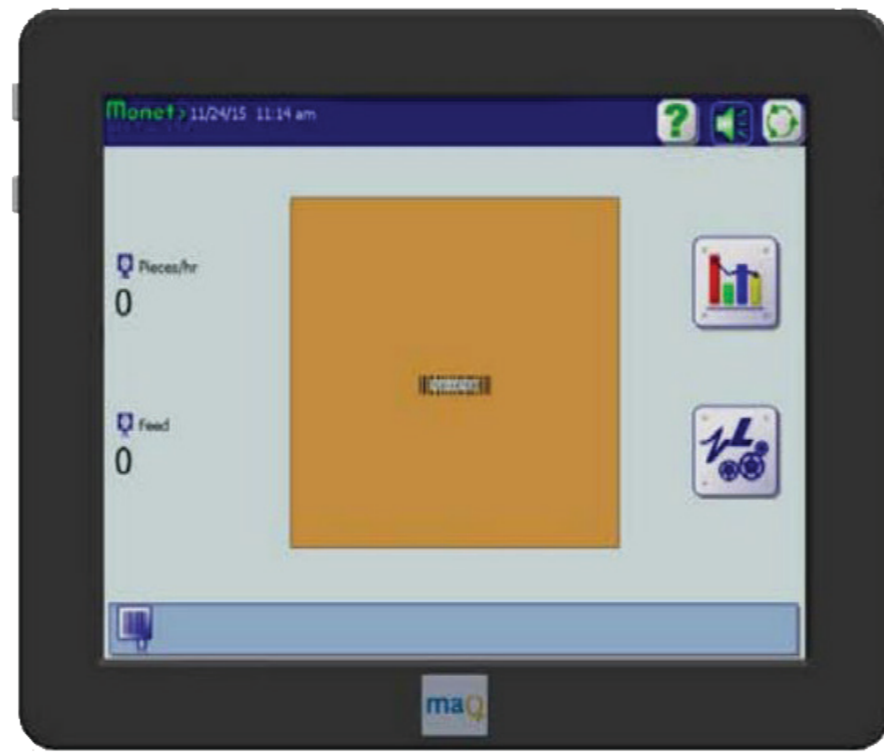[0 Rejects]

1 2 3 4 5 6 7 8

maɋ₊

maɋ₊

maQ+
Combination Controller

The MaQ+ (plus) controller is ideal for customers looking to expand their gluing and / or add quality assurance compatibilities to their machine. The ease of expansion makes the MaQ+ the most cost-effective solution with minimal initial investment expense and future flexibility for growth.
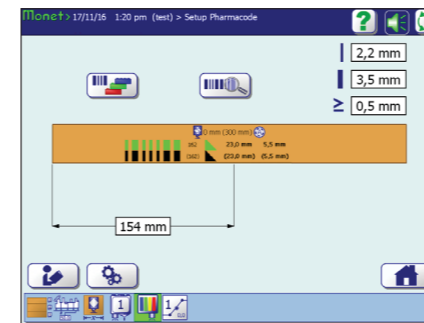
The MaQ+ comes standard as a base unit with three configuration choices; detection only, extrusion only, or combination extrusion and detection to produce 100% fit-for-use product. This solution can be fully expanded to a maximum of eight extrusion outputs and three detection inputs. This advanced control system monitors all triggers and encoders through closed-loop SureScan technology to guarantee fail-safe inspection and delivery of quality product.

The large touch screen, graphical user interface includes the market leading Monet software with iQ Cloud data and LearyNET Remote Support compatibilities.

The MaQ+ is ideal for gluing and detection on folder gluers, folding machines, die-cutters, bag machines, tray formers and more.

Trigger & Valve Setup Page

Pharmacode Detection Setup Page

Monet software is designed for quick, simple, job setups producing immediate quality product. Unique capabilities such as rolling password protected settings, and automatic configuration of glue pattern locations are included along with an intuitive layout which reduces operator learning to a minimum.

Dynamically scaled graphics allow the operator to see the exact locations of applied glue and detected barcodes or other QA inspection. Verifying correct position on the screen first, ensures proper setup without waste. Defective products are rejected with a variety of efficient removal or marking systems.

DETECTION CAPABILITIES

The MaQ+ controller is designed for up to (3) detection inputs. Choose from barcode reading, glue detection or other options to deliver quality product. Non-compliant products can stop the machine or be automatically removed by various devices, including Leary's retrofit inline diverter or an OEM interface.
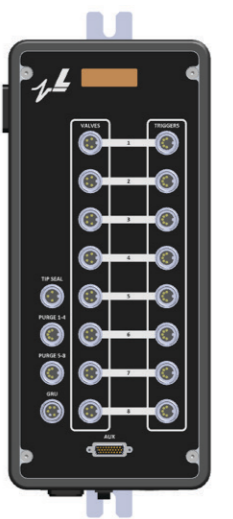
DETECTION CAPABILITIES - over 70+ customized options	
Detection inputs	Up to 3
Mixed copy detection	Laser 1D, iCode 2D, Pharmacode
Glue detection	Position & Volume detection with remote setup
Camera detection	LearyVIEW Print, Braille and Glue
Carton detection	Carton gap, double feed, skew, jam, overlap, missing or bent flap detection
Common QA options	Missing window, label detection, insert

EXTRUSION CAPABILITIES

Utilize extrusion capabilities of the MaQ+ controller by adding a simple expansion module. Upgradeable in the field, this one-time hardware expansion allows up to (8) valves with tip sealer control, remote purge and connection to the glue regulation unit. Extrusion software is sold in (4) or (8) patterns for cost savings. Glue valves sold separately

Plants that start with an extrusion controller can also upgrade to detection at a later date, simply adding quality detection sensors, cameras and software. This eliminates the higher cost of combination gluing and detection systems.

EXTRUSION CAPABILITIES	
Extrusion outputs	Options for 4 or 8
Additional inputs	Tip Sealer, Remote Purge, GRU output
Triggers	4 or 8
Glue Regulation Unit	Up to 2 (0 - 10 V)
GRU features	Pressure Dumping, Adjustable purge pressure, Real-time pressure graph and display
Valve compatibility	Jet, Quantum, Sempre-*i* and hot melt range
Remote purge input	yes
CleanStart tip seal compatible	yes

DETECTION ONLY
- Up to 3 detection stations
- Over 70 detection options
- Versatile rejection options
- Detection accuracy at 200,000 pieces/hr and 750 m/min (2,500 ft/min)

GLUING ONLY
- Up to 8 extrusion stations
- Expandable module
- Tip sealer control
- +/- 1mm application accuracy

COMBINATION
- Gluing & Detection
- Up to 11 total inputs and outputs
- Closed-loop SureScan™ technology
- Ergonomic mounting

CONTROLLER SPECIFICATIONS

Configuration options	Detection only, Gluing only, Combination Gluing & Detection
Detection inputs	Up to 3 (based on controller configuration)
Extrusion outputs	Up to 8 (based on controller configuration)
Rejection options	Spray, Batch, Rotary, In-line, Machine Interface
Software	Monet 2.12 or later
iQ Smart Services	iQ Data, Alerts and Remote Support all available
Encoders	Up to 2
Triggers	Up to 11
Batch count option	Feed, Trombone, Case, Batch & Batch Count Correction
Number of stored jobs	1,000+
Touch screen	Included
Safety standard	CE marked
Power requirements	Controller: 110 - 230 VAC, 50/60 Hz Frequency, 200 VA max Expansion Unit: 90 - 264 VAC, 50/60 Hz Frequency, 400 VA max
Weight	Controller: 5.56 kg (12.25 lbs) Expansion module: 5.08 kg (11.2 lbs)

RESOLUTION and SPEEDS

Detection resolution	0.25 mm (.01 in) at 244 m/min (800 ft/min) 0.5 mm (.02 in) at 488 m/min (1,600 ft/min) 0.75 mm (.03 in) at 732 m/min (2,400 ft/min) 1 mm (.04 in) at 975 m/min (3,200 ft/min)
Application resolution	+/- 1 mm application accuracy at 200,000 pieces / hour

SYSTEM CONFIGURATION

Controller build	Software build for configuration selection - 3 detection inputs - Up to 8 extrusion outputs in groups of 4 or 8 - Combination
Mounting	Self-contained or machine mounting
Alarms	Built-in buzzer, optional multicolor remote beacon
Additional components	Encoder, triggers, cabling and mounting
Extrusion specific	Expansion module, data link-connection

MaQ+ Controller Base Unit

305 mm (12 in)

381 mm (15 in)

73 mm (2.9 in)

Extrusion Expansion Module

168 mm (6.6 in)

172 mm (6.8 in)

373 mm (14.7 in)

419 mm (16.5 in)