

Total Solutions Provider of Gluing & Inspection Systems to the  
**FOLDING CARTON INDUSTRY**



Adhesive Dispensing & Quality Assurance Systems

# CONTROLS

## M C P - 4 J

- 4-Valves, 4-Scanners
- Auto-configuring voltage 90-240VAC
- Internal/External Pressure Control
- Job Storage (100)
- Inch/Metric
- LED display plus push-button overlay
- Auto-Glue mode
- OEM Communication
- Pulse-Purge
- Stitched patterns - jog on restart
- Data sharing with CartonChek 7
- USB port for system backups and software updates.
- Batch Count
- Scanner Lockout
- Vertical or Horizontal Mounting



## M C P - 8

- 8-Valves, 8-Scanners
- Jam Preventer (4 or 8 Channel)
- Auto-configuring voltage 90-240VAC
- Internal/External Pressure Control
- Job storage (100)
- Inch/Metric
- 4.5" Color touch-screen
- Alarm/Relay outputs
- Remote mount screen option
- Backup/Restore to/from external media
- Data sharing with CartonChek 7
- OEM Communication
- Auto-Glue mode
- Pulse-Purge
- Stitched patterns - jog on restart
- Scanner Lockout
- Batch Count



## M C P - 8 I

- 4-Valves, 3-Inspection Sensors, 1 ejector
- Jam Preventer (4 or 8 Channel)
- Auto-configuring voltage 90-240VAC
- Internal/External Pressure Control
- Job storage (100)
- Inch/Metric
- 4.5" Color touch-screen
- Alarm/Relay outputs
- Remote mount screen option
- Backup/Restore to/from external media
- Data sharing with CartonChek 7
- OEM Communication
- Auto-Glue mode
- Pulse-Purge
- Stitched patterns - jog on restart
- Scanner Lockout
- Supports kick, spray and linear ejector with tracking, no rotary ejection





## VCX/OT-120



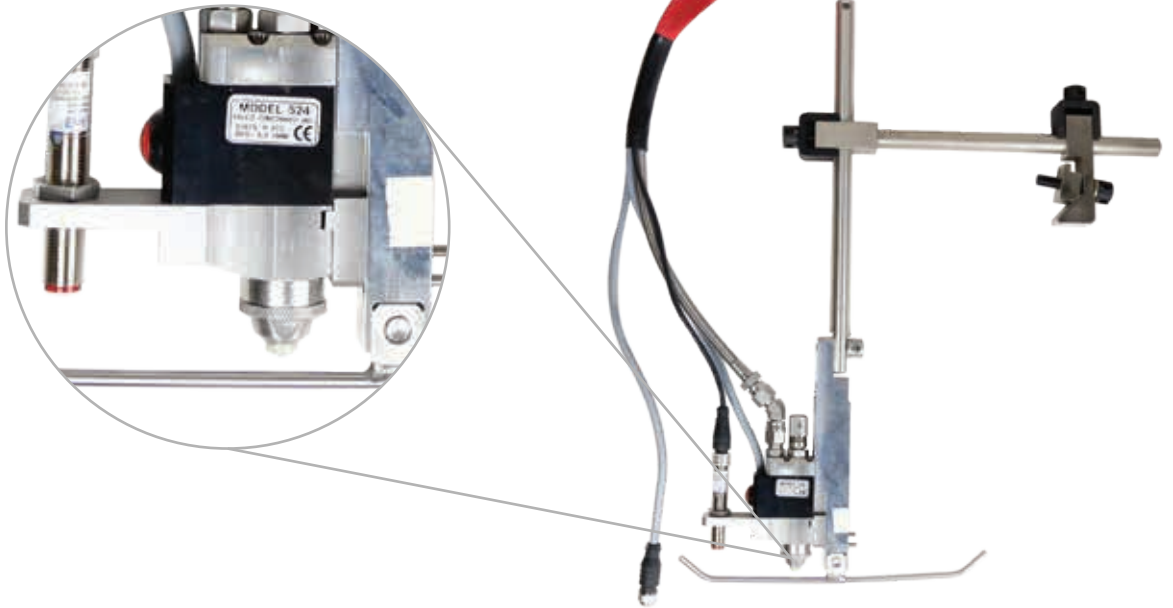
- Up to 16 channels in modules of 4 in any combination of sensors and valves
- Jam Preventer (up to 16 channels)
- Auto-configuring voltage 90-240VAC
- Internal Pressure Control (up to 4)
- External Pressure Control (up to 4)
- Easily recognized icon-based access to gluing inspection
- Job Storage (1000)
- Batch, supports tracking and all forms of ejection
- Inch/Metric
- 12" Remote-mount Color touch-screen
- Data sharing with CartonChek 7
- OEM Communication
- Auto-Glue mode
- Pulse-Purge
- Stitched patterns - jog on restart
- Scanner Lockout
- Quality data collection and reporting
- SupportChek remote service access



## GLUE STATIONS & VALVES

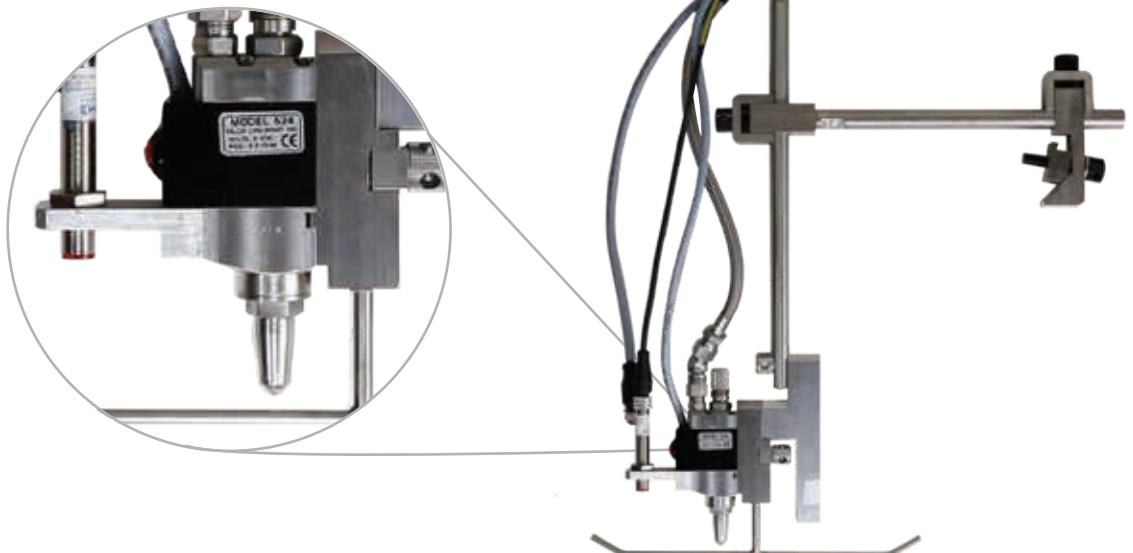
### 524 VALVE

- Adjustable flow rate for precision high-speed patterns
- Integrated purge/test switch
- Capable of high pressure operation (up to 500 psi)
- Compatible with a range of adhesive viscosities (up to 4000cps)
- Ceramic on ceramic ball and seat



### 524 EXTENDED NOZZLE BODY VALVE

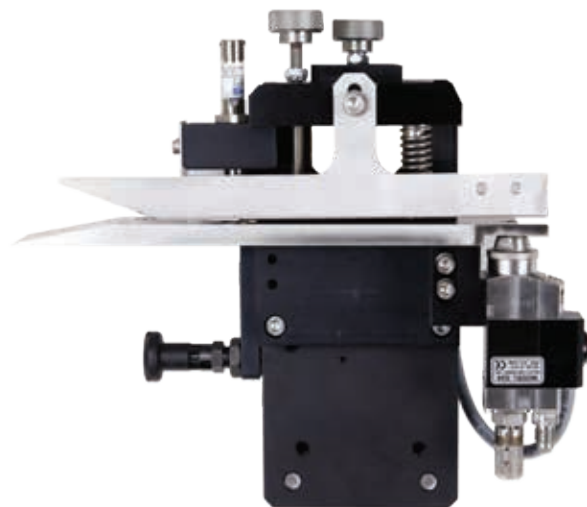
- Adjustable flow rate for precision high-speed patterns
- Integrated purge/test switch
- Capable of high pressure operation (up to 500 psi)
- Compatible with a range of adhesive viscosities (up to 4000cps)
- Extended nozzle body permits positioning close to machine rails for installation flexibility
- Ceramic on ceramic ball and seat



# GLUE STATION & VALVES

## BOTTOM UP GLUE STATION

- Can be installed on most folder-glueers
- All-electric high-speed precision glue valve
- Reduces adhesive usage
- Eliminates maintenance and cleaning associated with glue pot
- Enhances machine performance and production versatility
- Glue detection available



## 300 VALVE

- Precision glue patterns at all machine speeds
- Simple design with only 3 replacement parts
- Integrated purge/test switch
- Numerous mounting options
- Cost-effective, full featured high speed non-contact gluing



**COST-SAVING**  
Fast and simple order setup/change over



**FLEXIBILITY**  
Top-down or bottom up / high-pressure or low-pressure  
Contact or Non-Contact



**LESS WASTE**  
Precise patterns with less glue consumption



**VERSATILITY**  
Easily expand system capabilities as needs change



# PUMPING SYSTEMS & BALANCING REGULATORS

## 1:1, 3:1, 6:1 BALANCING REGULATOR

- Pressure balancing regulator - relieves excessive pressure that occurs during high speed stops
- Ultra-precise and fast pressure control
- No shaft seals
- Easy rebuild
- No pattern flooding at restart
- Rolling diaphragm design for frictionless movement and no losses



## DD - 1

- Trusted reliability of a 1:1 diaphragm pump
- Electronic shifting
- High flow rate
- Suction from totes, drums, and pails
- 1/2 NPT and 1/2 BSPP inlet/outlet fittings
- 24VAC source from Valco Melton controls or optional transformer
- Wall mount, pail mount, or drum mount



## EPP - 9

- High flow-rate 9:1 piston pump
- Electronic reversing
- Intelligent SLOW MODE feature prevents high cycle rates that occur during priming or when adhesive supply is blocked or depleted (dry cycling).
- Can communicate adhesive consumption and maintenance intervals with select glue pattern controllers
- Advanced seal technology offers extended reliability

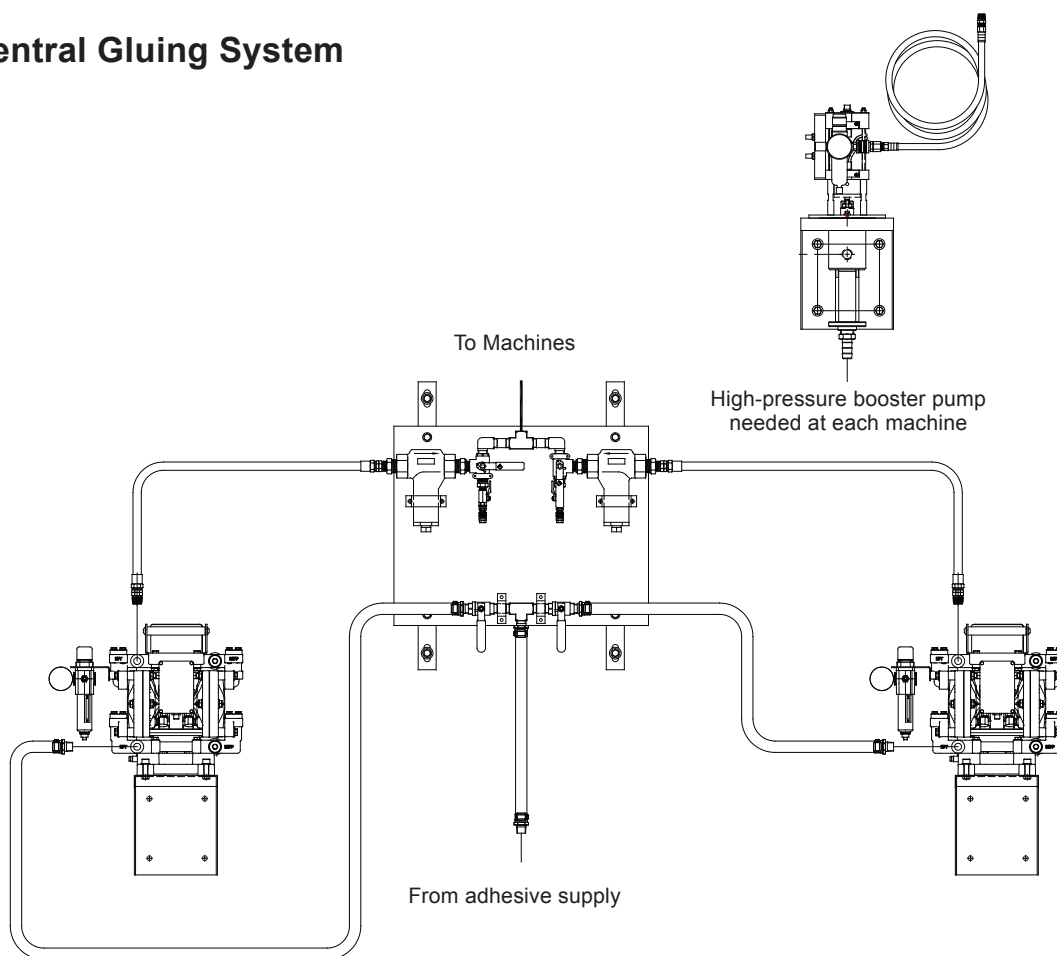


## PFRM - 5

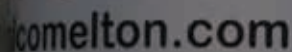
- Complete assembled package, 14:1 pump, 5:1 pressure-balancing regulator, 4-port manifold, and filter
- Shaft/seal cartridge for fast and simple repair
- Drum mount, wall mount, and pail mount options



## Central Gluing System



**PERFECT PRESSURE  
EVERY TIME**

  
valcomelton.com



# THE HOT MELT ALTERNATIVE

## GEAR PUMP OR PISTON PUMP MELT UNITS

Valco Melton's D4, D10 and D16 Series Units are ideal for high speed folding carton applications. All D Series units feature an LED display, spur gear pump with fixed or variable speed, "key-to-line" control, and a multi-functional control system. Other options include an integrated glue pattern control, line speed pressure control and integrated auto-feed systems.

- Achieve uniform output pressure to match line speed with built-in pressure run-up control
- Easy-to-connect HMI communication through the melter interface I/O's

The EC series units design is a culmination of features that have been crafted in response to communication with hot melt unit users worldwide. Valco Melton's new EC Series hot melt adhesive unit offers optimum reliability and total control of the unit's operation. Supported by the most current features and technology, the Valco Melton EC series unit easily takes recognition as the best in its class.

- User-friendly control panel
- Air-powered piston pump

**D SERIES GEAR PUMP UNITS**  
4, 10, 16 KG TANKS



**EC SERIES**  
**PISTON PUMP UNITS**  
4, 8, 14KG TANKS



## PUR

Valco Melton's IsoMelt Mini and D4 PUR Series are designed to process reactive hot melts such as PUR. Units feature a fully integrated, multi-functional controller that is accessible from a user-friendly screen, which allows for fast and easy configuration changes and provides 'key-to-line' capabilities.

- Ideal for plastic packaging
- Swiveling tank lid allows for faster changes of PUR slugs, minimizing downtime

**Also available with Pail Unloader**

**IsoMelt Mini**

**D4-PUR**



**Pail Unloader**





## MX SERIES VALVES, SIDE-FEED OR TOP-FEED

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### MX Valve

Valco Melton's MX electric hot melt valve is the workhorse for most Valco Melton hot melt dispensing solutions. The MX electric valve can operate at extremely high speeds reaching 15,000 cycles per minute for short bursts and are capable of more than 2 billion cycles before requiring service.

Combine the speed of hot melt with the strength of cold glue.

- Cost-effective solution
- Maximize production
- Clean application
- Fast system payback
- Side feed or top feed assembly



**MX SERIES VALVES**

### MK Valve

Designed for easy installation in constricted spaces, its compact design makes it ideal for folding carton applications with limited space.

Air-open air-close zero cavity design produces clean adhesive shut-off for PUR and pressure sensitive adhesives.

- Minimal space required for installation and maintenance
- Sharp cut-off for a clean application – no adhesive stringing
- Specially insulated for safe handling
- Zero cavity design – extremely fast and accurate patterns



**MK SERIES VALVE**

# SENSORS

## AS303/AS303H

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- Fine Resolution: 1mm
- Compact Size: 21mm wide x 115mm tall x 60mm deep
- Functions with Quality Assurance Systems: CartonChek, VCX, MCP-8i
- High speed inspection for cold glue and hot melt adhesives
- No UV additive required



## CGS-40S

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- Designed for side seam inspection
- Glue pot or closed system
- Indicator LED's for supply voltage and signal output
- Polymer enclosure with a smooth surface for minimal build-up and easy cleaning



## CDS CODE READER

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The CDS code reader is an indispensable tool for high-speed production. The code reader reliably monitors color (including foil stampings) or black-and-white bar codes. The operator can set dimensional tolerances individually for code bars and spaces to provide simple or advanced quality standards. Valco's color-code-reading system provides inspection functions not possible with any other code reader.

The color code reader comes with a pre-folder. Because the code reader is mounted in the proper fixed position for quick sampling, make-ready time is substantially reduced. A dual color code reader is also available for carton applications that have print on both sides.

- Mixed copy
- Missing color
- Color density
- Print registration
- Die-cut registration
- Skew
- Double-feed
- Binary codes (including Bobst and Pharma)



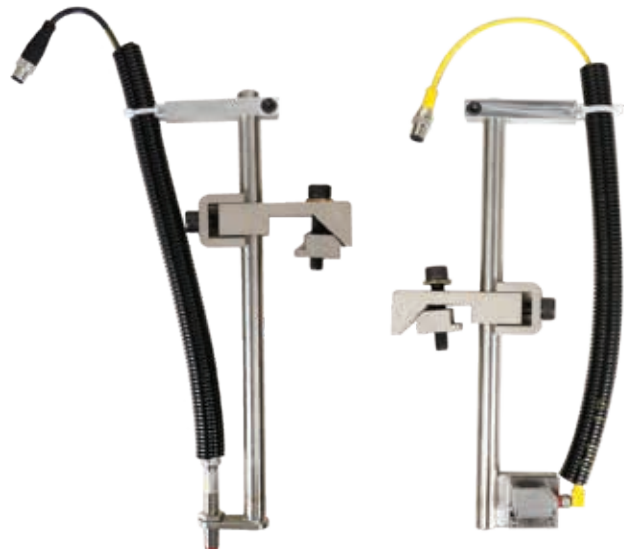
## BAR CODE READER

- Code 39
- Codabar
- Code 128
- Interleaved 2 of 5
- Code 93
- UPC / EAN / Pharma
- OMR (Optical Mark Recognition)



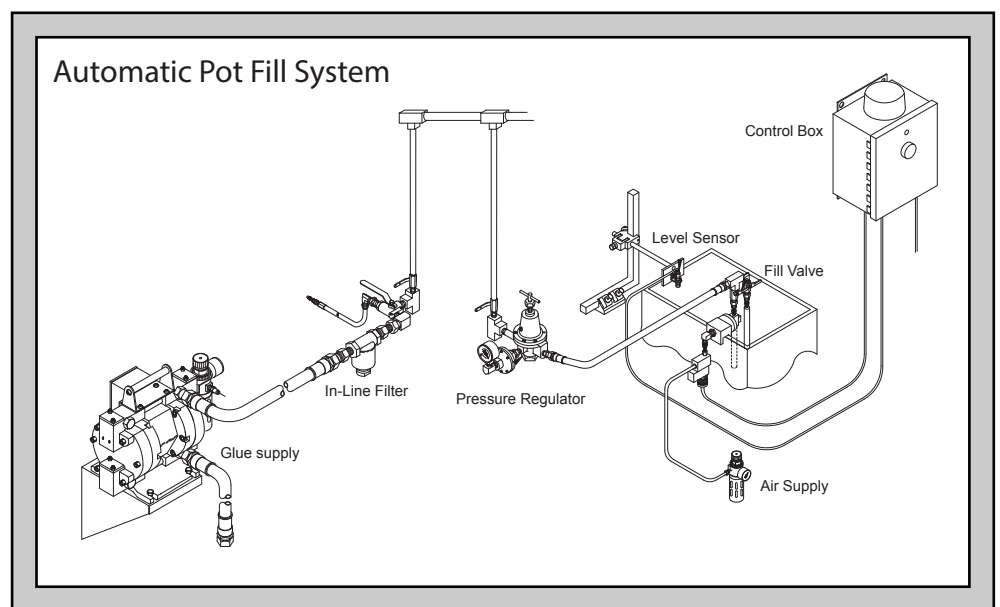
## DIGITAL SENSORS FOR CUSTOM DETECTION NEEDS

- Length and skew detection
- Flap detection
- Foil and window detection
- Label detection



## POT FILL

- Valco Melton pot fill system will automatically maintain adhesive level without requiring operator attention



# EJECTORS, KICKING & MARKING

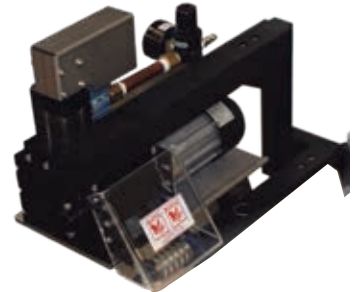
## ROTARY & LINEAR EJECTOR

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- Valco Melton offers high-speed linear and rotary ejector systems that will remove defective product before it can be processed



ROTARY EJECTOR



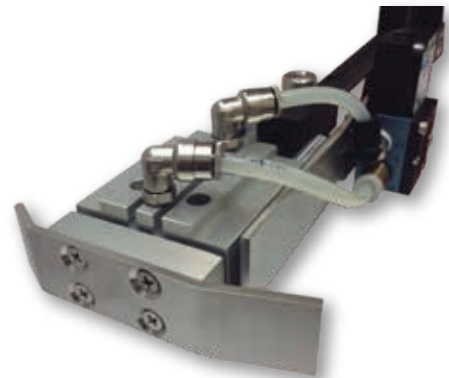
LINEAR EJECTOR

## KICKER

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The Valco Melton Kicker is ideally suited for batch counting and reject kicking applications. The kicker offers a fast cycle time for smaller cartons and compact design for flexible mounting requirements.

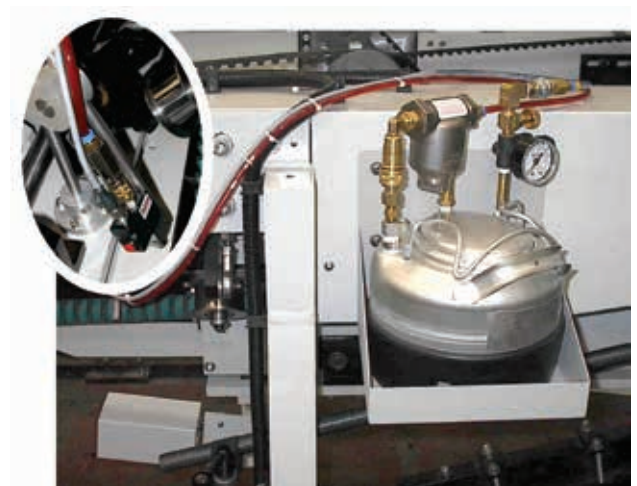
- Single kick eject
- Dual kick and count eject optional



## MARKING VALVE

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- Compact system package provides identification of faulty product
- Stainless steel tank
- All-electric, jetting or spray valve options
- Optional UV lamp kit





## SYSTEM STANDS

Valco Melton offers several options for system stands. The system stand significantly reduces initial installation time and provides a clean, organized installation for improved operator interface.

- Floor mount, machine mount or optional casters
- Diaphragm pump or piston pump
- Single or multiple glue pressure regulators
- Selected for any common Valco Melton control



System stand options are available for any system configuration

## CARTONCHEK

### HOW IT WORKS

CartonChek brings users complete information on production line performance in real time. The screen simultaneously displays job statistics, defect images and history bar to facilitate analysis.

### BENEFITS

- Detect and identify defective gluing (hot melt or cold glue), folds, barcodes, print registration, manufactures joint, as well as issues with sheets such as skew.
- Minimize configuration times with the system's ability to learn the position of the cameras and sensors.
- Streamline support sessions using the online chat window.
- Intuitive interface that displays real time images and data from each of the installed systems.
- Defect and performance data for all boxes stored locally in SQL database and can be easily accessed remotely with MeasurementChek for quick comprehensive reporting.



### SOFTWARE PACKAGES

#### GLUECHEK

- Glue pattern
- Glue volume
- Extraneous glue splash or splatter
- Full sheet monitoring, glue patterns, flaps and fold verification

#### CODECHEK

- Eliminate mixed copy issues
- Validate most 1D (Linear) and 2D (Matrix) barcodes

#### LASERCHEK

- Height changes are inspected in order to recognize folds, flaps, and cut outs.
- Use LaserChek to check perforations, cut outs, tip-on (placement), die cuts or any point that requires a measurement or validation in-line

#### WINDOWCHEK

- Complete window inspection: height, width, position, contaminates, glue pattern & cello with slit are all measured or compared to Master Image
- Set and adjust multiple tolerances to detect various types of defects

#### BRAILLECHEK

- Decodes braille into text for accuracy and validation
- Identifies missing or misshapen braille dots

#### PRINTCHEK

- Print quality
- Color monitoring
- Print registration
- Missing print



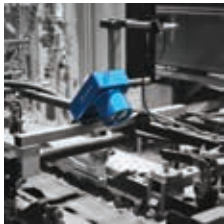
#### **NARROWCHEK**

- Small footprint
- Simple to move and install
- Self Calibrating
- Ideal for single glue line or DOT applications



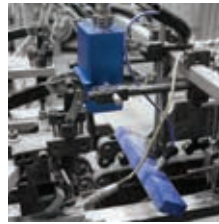
#### **MICROCHEK**

- Compact
- Built-in Lighting
- Simple to move and install
- Ideal for barcodes, object and number inspection



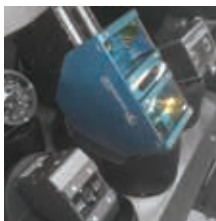
#### **AREACHEK**

- Typically uses external lighting
- Best for permanent mount
- FOV: 40mm(1.57") x 40mm up to 200mm(7.87") x200mm



#### **MEGACHEK**

- Ideal for whole carton image
- Glue pattern, flaps, and fold confirmation
- Typically uses external lighting
- Best for permanent mount
- FOV: 60mm (2.36") to 700mm (27.56")



#### **SHADOWCHEK**

- Built-in lighting source
- Designed to create profile or shadow to define raised edges
- Ideal for braille, glue patterns, tip-ons and more



#### **LASERCHEK**

- Built-in lighting source
- Designed to create profile or shadow to define raised edges
- Ideal for glue patterns, tip-ons, cutouts, perforations and more




**CLEARVISION**  
**THE PERFECT CARTON**

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