

QS-Series Inline Casemaker Range

Top Print Mini Lines **QS 618** 660mm x 1800mm

Top Print Mid Lines **QS 1025** 1000mm x 2500mm

QS 850 850mm x 2500mm

QS 1227 1200mm x 2750mm



The QS Concept



2 min auto setup, Non-stop order change technology
Fully Independent all servo drive, throughout
High Speed, Precise Production
Easy to operate and maintain

QS Smart Tech system

- 3D display to easily identify machine areas
- Smart order memory
- Multiple user functions:
 - Order status
 - Machine axes control
 - Speed control
 - Error codes
 - Trouble shooting
 - Production Efficiency data
 - Safety checks
 - Electrical contacts monitoring
 - Drive monitors
 - Maintenance system
 - Realtime Dynamic information
 - Quick port check

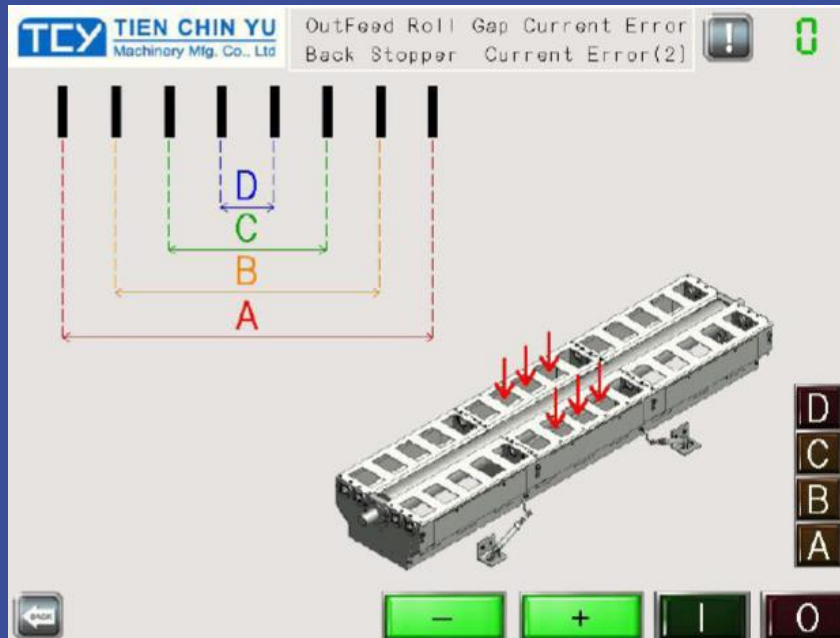


Feeding Section



- Full servo motor drive for Lead-edge feeder
- Automatic feeding stroke of Sun Automation gearbox
- Maximum speed of 400 sheets per minute
- Automatically adjusting air vent of feed chamber
- Fully integrated 15" HMI control unit
- Rubber & Metal pull roll to prevent sheet crush
- Auto gap adjustment
- Automatic zero set

AUTOMATIC VACUUM GATE SYSTEM - Feeder



Automatically selects the best damper zone for different orders

Four groups of damper zones to select from across machine width

Automatic vacuum system is available as standard on every QS series machine

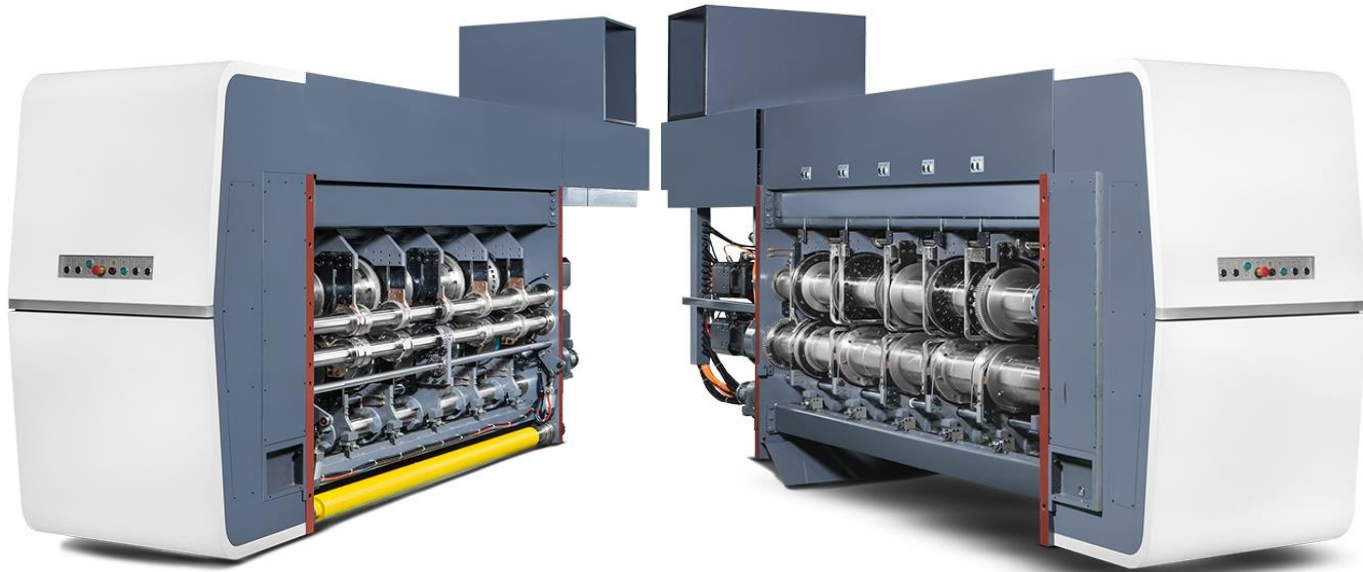
Printing Section

- Top print, full servo motor drive per print unit
- Highly accurate print to print registration, with individual adjustment per print section
- Upper unit of the printer lifts to allow operator access for plate change during production
- Diaphragm pump for stable ink viscosity and flow
- Ink chambers with double doctor blade and auto wash down system
- Push button Auto zero-set
- Motorized Reel rod lock & release for stereo mounting by push button
- Vacuum transfer with specially coated wheels
- Optional Print section slide out on tracks for ease of maintenance
- Each unit can have an optional dryer fitted
- Optional carbon fibre chambers

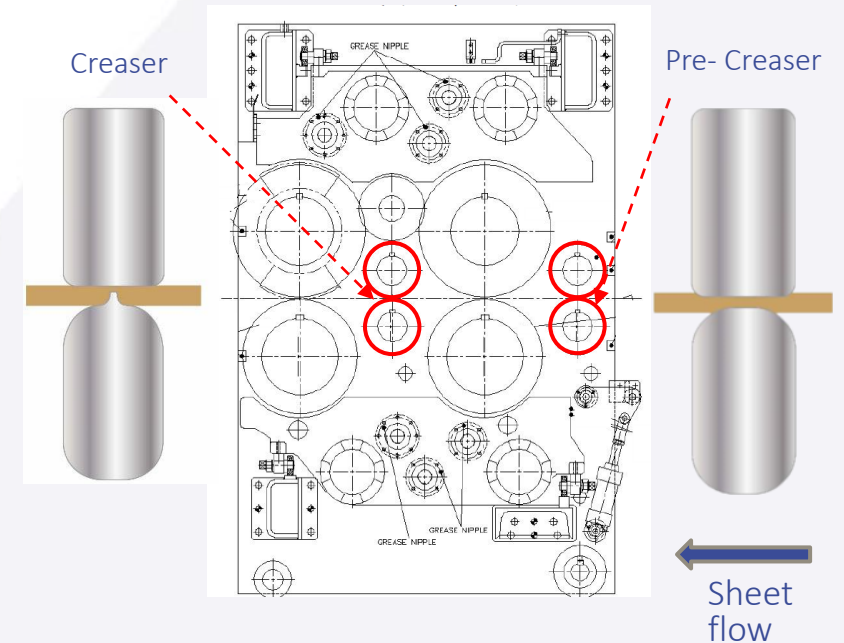


Slotting Creaser Section

(Dual Slotting & Creasing System)



- Full servo motor drive for double slotting shafts and double creasing shafts
- Steel to steel glue tab knife
- Independent and enlarged crusher and creaser to produce effective scoring and eliminates fish tiling, overlap and sheet damage



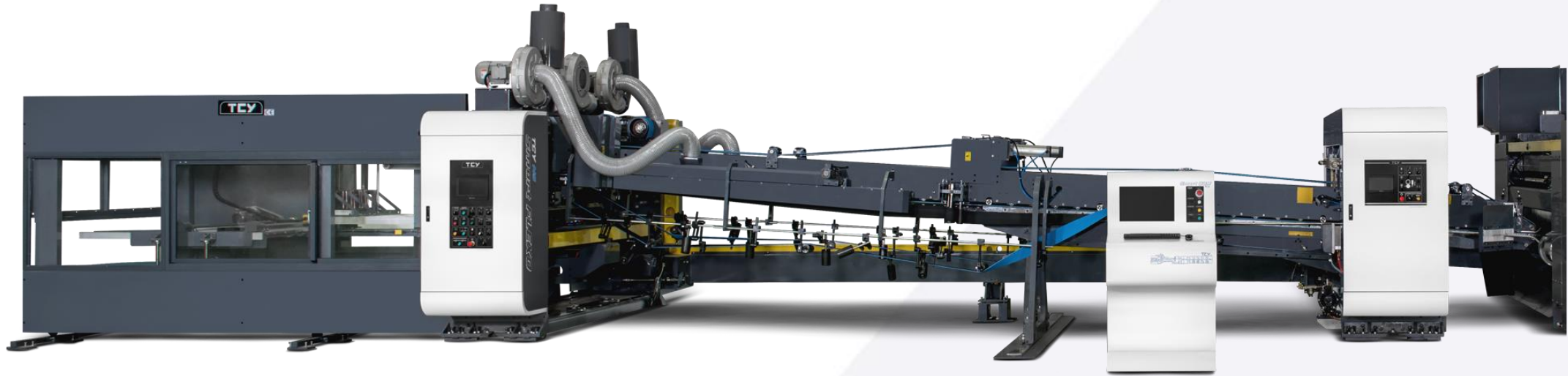
- Stainless strip deflector for slot waste
- No box height limit
- Upper trim knife with waste guide for paper
- Fully auto set

Die Cutting Section



- Independent servo motor drive for die drum and anvil drum
- Anvil drum oscillation via hydraulic cylinder to prolong anvil life
- One-push Auto Zero set for die cutting position
- Strong, thick-walled die cut drum to reduce vibration to a minimum and provide accurate die cutting performance
- Anvil trimming device with anvil drum servo synchronized drive
- Waste conveyor under unit
- Optional Serrapid mounting system

Folding Gluing & Top Loading Counter Ejector



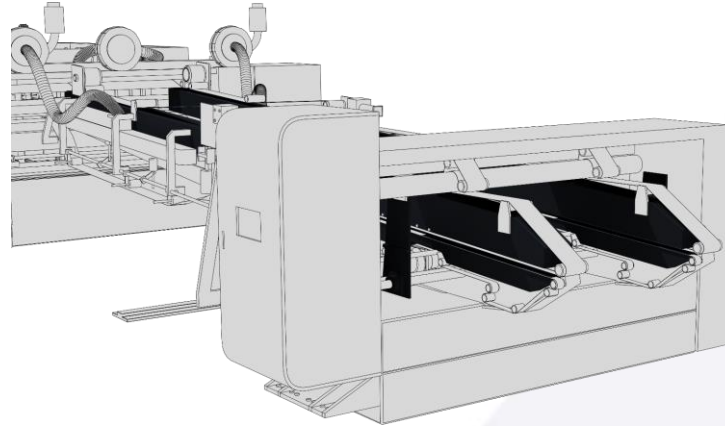
- Upper folding belt equipped with suction chamber with pressure wheel
- Speed of lower folding belt can be set by servo motor via HMI
- Adjustable speed control of folding belts by servo motor
- Side guide wheels have micro-adjustment for folding gap via HMI
- Built-in sheet incline detector and safety shut off
- Solid one-piece folding arms for strength and stability
- Eliminate fishtailing and have consistent folding gap with auto adjustment
- Top loading finished box with bottom extruder for bundle boxes
- Servo motor control for quick setting of position and smooth motion
- Fully closed unit for safe operation
- Servo for elevator up/down, ledge in/out, press bar, front belt, rear belt

Folder Gluer Section cont.

Prevents fishing-tailing of sheets

Gap-Adjustable, Side Folding Wheel
(see next slide)

Speed-Adjustable Bottom Folding Belt



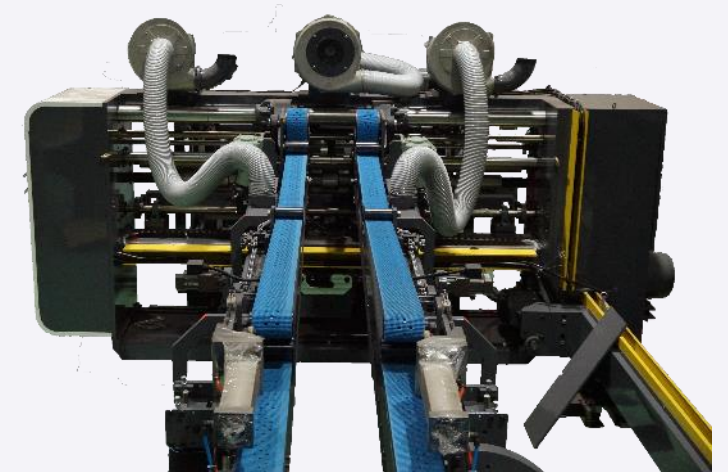
Prevents sheet skewing

Vacuum Belt with rugged, rough-top belts for positive grip and stable transfer of sheet

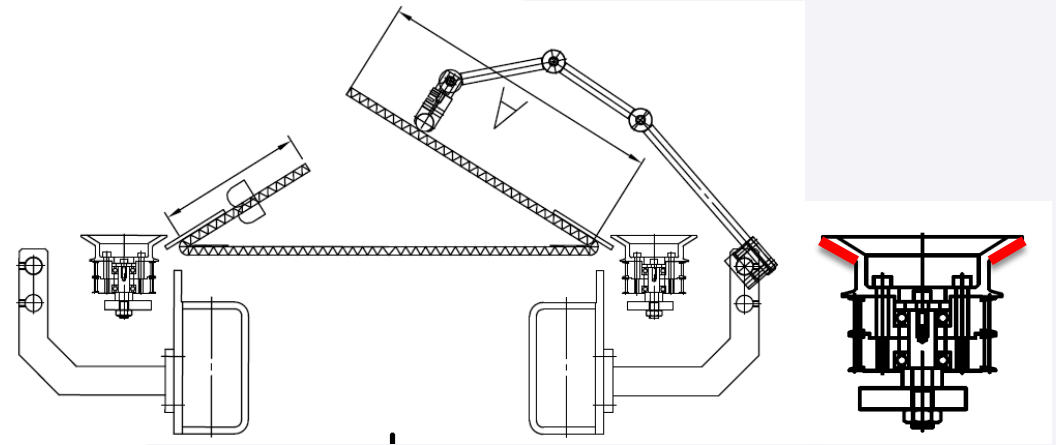
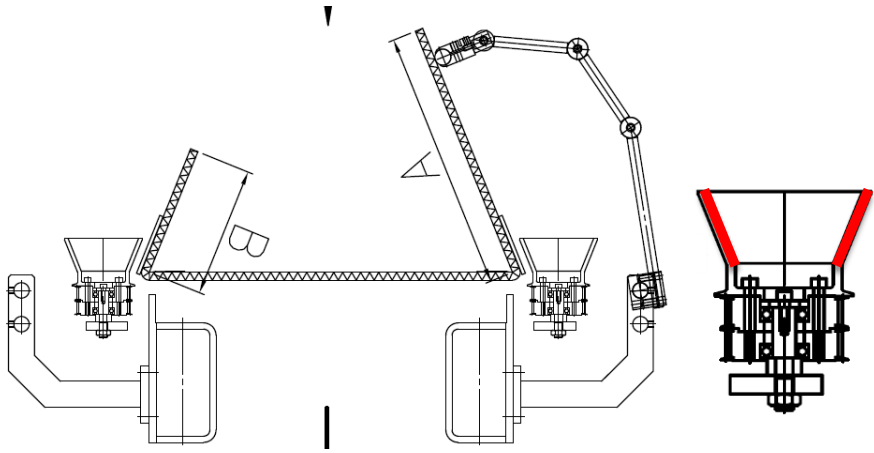


Folding Beam uses High-quality
Reinforced Materials

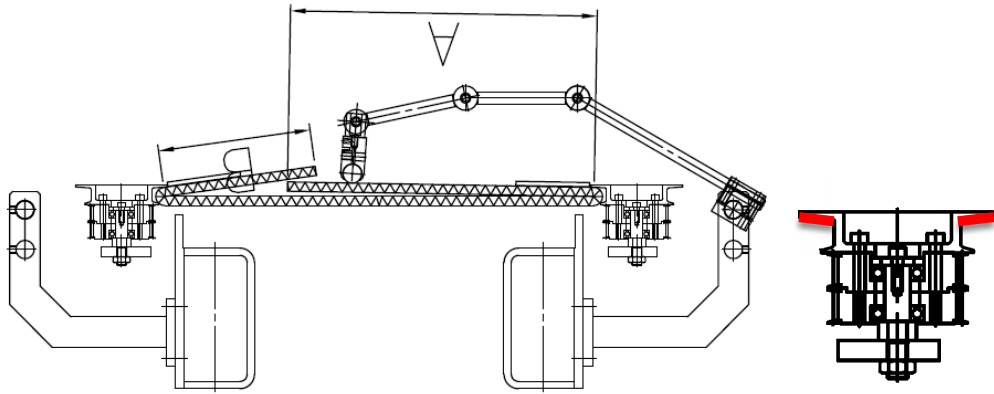
Valco Glue System



TCY Side Guiding Wheels



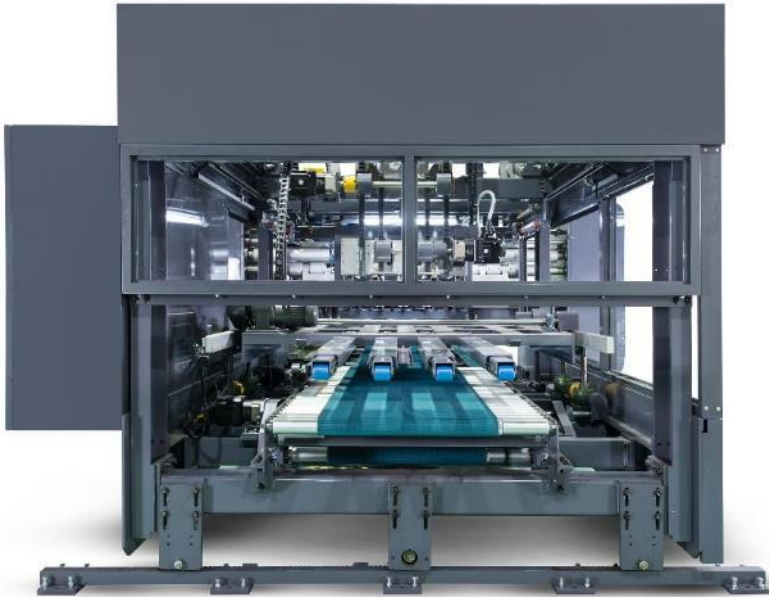
Side guiding wheels can micro-adjusted for folding gap



Every guide wheel is designed for different folding angle

Counter Ejector Section

QS Series Servo Control
System for quick setting
position and smooth motion



100% Accurate box quantity count and bundle ejection

Top loading system for receiving and stacking of boxes



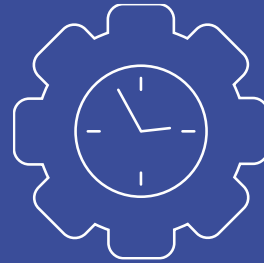
QS-SERIES VALUE



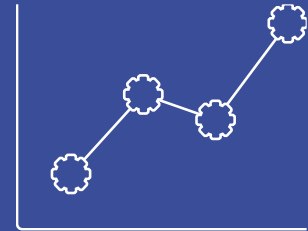
ONE TOUCH
Fast Setup Time



EASY MAINTENANCE
Reduce Cost



SPEEDY, RELIABLE
PRODUCTION



EFFICIENCY UP

TCY QS-Series Inline Casemaker

Fast Set - Easy to Operate - Easy to Maintain - High Performance – Non-stop order changeover



plus...TCY Machinery UK Ltd – Get the most from your QS-Series

- 100% owned subsidiary of TCY
- Factory, Warehouse and Demo centre in West Yorkshire
 - Dedicated TCY OEM parts in stock
 - In house Technical Support
- Field-based service engineer expertise