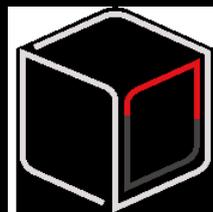


# **CORRUGATED INDUSTRY**

## **STRAPPING SOLUTIONS**



**in partnership**

## SINGLE STRAPPER

## STRAPPING & SQUARING SYSTEM

## SPECIALTY STRAPPING SOLUTION

### STEP TP-702C

### STEP TP-702CCQ

### STEP TP-702CQ3-S

### STEP TP-702CQ

### STEP TP-CIL TransCorrLiner

### STEP TP-702CTRS

- High performance strapper with minimum investment
- Easy integration to every corrugated production line
- Smallest footprint
- Several thousands on installations around the world (connection with leading FFG brands)
- Up to 33 bundles per minute

- The most cost-effective bundle strapper with squaring function
- Side squaring and backstop ensure better bundle shape before strapping
- Easy integration to every corrugated production line
- Up to 26 bundles per minute

- With integrated electric-driven squaring and backstop functions optimize the integrity of bundle for strapping
- Smallest footprint
- Dual dispenser with auto coil option
- Fast bundle size change over

- 4-side bundle squaring and strapping system
- Excellent side squaring, backstop, and pusher ensure the integrity of the bundle before strapping
- Easy and effortless bundle size change setup
- Up to 17 bundles per

- Inline squaring and strapping system
- Meet the speed requirement of the fastest Flexo Folder Gluer and Casemaker
- Strapping in the flute direction
- Automatic bundle size setup in 15 seconds
- lower strap use
- Dual dispenser with auto splicer option minimizes labor involvement
- Precise strapping position
- Up to 24 bundles per minute

- Preferred choice for shingled-stream folder gluer output
- Ensure the best stack condition after strapping
- Protect delicate boxes from damage without sacrificing its high speed
- Simple bundle setup via Siemens HMI
- Optimize specialty folder gluer throughput
- Up to 23 bundles per minute

### STEP TP-702CQ3-T

- With integrated electric-driven squaring and backstop functions optimize the integrity of bundle for strapping
- Smallest footprint
- Dual dispenser with auto coil option
- Fast bundle size change over

# STEP TP-702C

## High Speed Corrugated Strapper

STEP TP-702C corrugated strapper is built on Transpak's Mercury strapping head and brushless DC motor Direct drive technology. High strapping speed, less maintenance requirement, innovative features, and proven reliability make it perfect for application sheet plants.

### Main Features

#### Compact and Robust Strapping Head

Use the latest DC brushes motor technology to provide the highest level of accuracy and reliability. All motors are German-made. Without belts, clutches, and pulleys, its compact design greatly minimizes the numbers of moving parts and maintenance cost.

#### Hinge Roller Table

Easy to open the table top if maintenance is required. Ergonomic design.

#### Free Access to Strap Guides (patent reg)

Unblocking the guides enables free and quick access to the strap guides without using any tools. The most maintenance friendly design.

#### Siemens PLC Control

Siemens PLC is the state-of-the-art controller. It is programmable and can be expanded flexibly to meet various requirements in different applications.

### Technical Data

Capacity	Up to 33 bundles/minute (single strap) Up to 20 bundles/minute (double straps)
Strap Width	5 mm, 6 mm, or 9 mm
Tension Range	1-32 kg
Minimum Bundle Size	300 mm (L) x 200 mm (W) x 20 mm (H)
Bundle Weight	max 40 kg
Conveyor Speed	15 - 60 m/minute
Electrical Requirements	220V, 380V, 400V, 415V 50/60Hz 3PH

### More Features

#### Auto Strap Ejector

Loop-eject clears unwanted strap automatically. Eliminate downtime.

#### Patented Jammed-strap Ejection Device

Make it easy to remove jammed-strap

#### Full-width Pneumatic Press

Provide the highest reliability and stability for the movement of pneumatic

#### Multiple Strap Function

For single, double, continuous strapping, or transit mode.

#### Variable Conveyor Speed

Fully automatic operations with variable conveyor speed between 15 and 60 meters/minute,

#### Strap End Ejector

Eject end of strap from the inlet of strap feeding. Easy to clean the end of strap and get the machine ready for next coil of strap.

#### Adjustable table Height

The table height is adjustable between 700 mm and 1000 mm.

### Options

- Siemens HMI (touch panel)
- Light tree alarm with low strap sensor (triple lamp)
- Foot pedal switch
- Strapping cycle counter
- Without press bar
- Adjustable backstop

### Models

#### STEP TP-702C-L

arch size: 1650 mm (W) x 450 mm (H)

#### STEP TP-702C-M

arch size: 1250 mm (W) x 450 mm (H)

# STEP TP-702CCQ

## Corrugated 3-Slide Bundle Squaring and Strapping System

STEP TP-702CCQ is built based on STEP TP-702C high speed corrugated strapper combined with the 3-side squaring station CC-BSS. It carries all the innovative features of STEP TP-702C. TP-702CCQ offers high strapping productivity with the most cost-effective bundle squaring solution for corrugated industry.

### Main Features

#### Compact and Robust Strapping Head

Use the latest DC brushes motor technology to provide the highest level of accuracy and reliability. All motors are German-made. Without belts, clutches, and pulley, its compact design greatly minimizes the numbers of moving parts and maintenance cost.

#### 3-Side Squaring Bundle Control

Excellent side squaring and backstop ensure better bundle before strapping.

#### Free Access to Strap Guides (patent reg)

Unblocking the guides enables free and quick access to the strap guides without using any tools. The most maintenance friendly design.

#### Siemens PLC Control

Siemens PLC is the state-of-the-art controller. It is programmable and can be expanded flexibly to meet various requirements in different applications.

### Technical Data

Capacity	Up to 26 bundles/minute (single strap) Up to 20 bundles/minute (double straps)
Strap Width	5 mm, 6 mm, or 9 mm
Tension Range	1-32 kg
Minimum Bundle Size	300 mm (L) x 200 mm (W) x 20 mm (H)
Bundle Weight	max 40 kg
Conveyor Speed	15 - 60 m/minute
Electrical Requirements	220V, 380V, 400V, 415V 50/60Hz 3PH

### More Features

#### Auto Strap Ejector

Loop-eject clears unwanted strap automatically. Eliminate downtime.

#### Patented Jammed-strap Ejection Device

Provide the highest reliability and stability for the movement of pneumatic press.

#### Full-width Pneumatic Press

Provide the highest reliability and stability for the movement of pneumatic press.

#### Multiple Strap Function

For single, double, continuous strapping, or transit mode.

#### Variable Conveyor Speed

Fully automatic with variable conveyor speed between 15 and 60 meter/minute.

#### Hinged Roller Table

Easy to open the table top if maintenance is required. Ergonomic design

#### Adjustable Pressure on Press and Squaring

Easy adjustment to adapt different bundle requirements.

### Models

#### STEP TP-702CCQ-L

arch size: 1650 mm (W) x 450 mm (H)

#### STEP TP-702CCQ-M

arch size: 1650 mm (W) x 450 mm (H)

### Options

- Siemens HMI (touch panel)
- Light tree alarm with low strap sensor (triple lamp)
- Adjustable backstop
- Foot pedal switch
- Strapping cycle counter

# STEP TP-702CQ3-S

## High Speed Corrugated Strapper with Integrated Squaring System

STEP TP-702CQ3-S is an all-electric high speed corrugated strapper with integrated squaring and backstop functions. It is built based on the quality proven Transpak STEP TP-702C corrugated strapper and carries all the innovative features of the STEP TP-702C. Motorized squaring and backstop devices provide precise bundle handling and positioning for forming perfect bundles.

### Main Features

#### Compact and Robust Strapping Head

Use the latest DC brushes motor technology to provide the highest level of accuracy and reliability. All motors are German-made. Without belts, clutches, and pulleys, its compact design greatly minimizes the numbers of moving parts and maintenance cost.

#### Good for Small Bundle

The round belts added on rollers help to move small bundles across strapping position smoothly. It allows a minimum bundle size width 200 mm (8") x length 250 mm (10")

#### 3-Side Squaring Bundle Control

The electric-driven side squaring and backdrop devices optimize the integrity bundles for strapping. Unique front and rear squaring mechanism with independent control system improves squaring performance over a wider range on bundle size.

#### Siemens PLC Control and HMI

Provide easy adjustments, TEACH-IN programming, and troubleshooting guides.

### Technical Data

Capacity	Up to 24 bundles/minute (single strap) Up to 13 bundles/minute (double straps)
Strap Width	5 mm, 6 mm, or 9 mm
Tension Range	1-32 kg
Minimum Bundle Size	250 mm (L) x 200 mm (W) x 50 mm (H)
Bundle Weight	max 35 kg
Conveyor Speed	15 - 60 m/minute
Electrical Requirements	220V, 380V, 400V, 415V 50/60Hz 3PH

### More Features

#### Automatic Bundle Size Setup System

The automatic setting mode makes the bundle size set up for STEP TP-702CQ3-S finish 15 seconds. It minimizes costly downtime.

#### Motorized Full-width Press

Motorized full-width press provides the highest reliability and stability of the movement. It also offers easy adjustments for different press position to optimize strapping speed.

#### Hinged Roller Table

Easy and effortless to open the table top for cleaning and maintenance. Ergonomic design.

#### Free Access to Strap Guides (patent reg)

Unblocking the guides enables free and quick access to strap guides without using any tools. The most maintenance friendly design.

#### Adjustable Table Height

The table height is adjustable between 700 mm and 1000 mm.

#### All Electric Driven Design

No air consumption is required. The performance of the machine will not be restricted the the air supply.

#### Smallest footprint

The strapping and squaring are integrated at the same station. It optimizes the bundle condition with minimum space required.

### Options

- Dual dispenser with auto coil change
- Light tree alarm with low strap sensor
- Energy saving transit with auto sleep mode
- Floor rails
- Foot pedal switch
- Bus interface for bundle size data transfer from upstream equipment

# STEP TP-702CQ3-T Tandem

## High Speed Corrugated Strapper with Integrated Squaring System

STEP-702CQ3-T is an all-electric TANDEM system of high speed corrugated strapper with integrated 3-side squaring design. Motorized squaring and backstop devices provide precise bundle handling and positioning for forming perfect bundles. The TANDEM design with the built-in program enables the system to process up to 30 bundles per minutes – one of the fastest systems designed specially for high capacity Flexo folder Gluer and Casemaker in the Industry.

### Main Features

#### Compact and Robust Strapping Head

Use the latest DC brushes motor technology to provide the highest level of accuracy and reliability. All motors are German-made. Without belts, clutches, and pulleys, its compact design greatly minimizes the number of moving parts and maintenance cost.

#### Free Access to Strap Guides (patent reg)

Unblocking the guides enables free and quick access to the strap guides without using any tools. The most maintenance friendly design.

#### 3-Side Squaring Bundle Control

The electric-driven side squaring and backdrop devices optimize the integrity bundles for strapping. Unique front and rear squaring mechanism with independent control system improves squaring performance over a wider range on bundle size.

#### Siemens PLC Control and HMI

Provide easy adjustments, TEACH-IN programming, and troubleshooting guides.

### Technical Data

Capacity	Up to 30 bundles/minute (single strap) Up to 24 bundles/minute (double straps)
Strap Width	5 mm, 6 mm, or 9 mm
Tension Range	1-32 kg
Minimum Bundle Size	250 mm (L) x 200 mm (W) x 50 mm (H)
Maximum Bundle Size	1420 mm (W) x 450 mm (H)
Bundle Weight	max 40 kg
Conveyor Speed	15 - 60 m/minute
Electrical Requirements	220V, 380V, 400V, 415V 50/60Hz 3PH

### More Features

#### Automatic Bundle Size Setup System

The automatic setting ode makes the bundle size set up STEP TP-702CQ3-T finish in 15 seconds. It minimizes costly downtime.

#### Motorized Full-width Press

Motorized full-width press provides the highest reliability and stability of the movement, It also offers easy adjustments for different press position to optimize strapping speed.

#### Hinged Roller Table

Easy and effortless to open the table top for cleaning and maintenance. Ergonomic design.

#### All Electric Driven Design

No air consumption id required. The performance of the machine will not be restricted by the air supply.

#### Good for Small Bundle

The round bells added on rollers help to move small bundles across strapping position smoothly. It allows a minimum bundle size of width 200 mm (8") x length 250 mm (10")

#### Multiple Operation Modes

Various operation patterns give the system great flexibility to work in accordance with production requirements.

#### High Speed

One of the fastest strapping and squaring system in the industry. Great for high capacity production line.

### Options

- Dual dispenser with auto coil
- Light tree alarm with low strap sensor (triple lamp)
- Energy saving transit with auto sleep mode
- Floor rails
- Press roller on accumulating conveyor
- Bus interface for bundle size data transfer from upstream equipment

# STEP TP-702CQ

## Corrugated 4-Side Bundle Squaring and Strapping System

STEP TP-702CQ is built based on STEP TP-702C high speed corrugated strapper combined with the 4-side squaring station CI-BQ. It carries all the innovative features of STEP TP-702C. The backstop, pusher and the side squaring altogether provide the precise bundle control and assure the bundle integrity during the strapping cycle. Easy bundle size change setup eliminates the downtime and makes the production more efficient. Truly user friendly machine for your Casemaking and Flexo Folder Gluer line.

### Main Features

#### Compact and Robust Strapping Head

Use the latest DC brushes motor technology to provide the highest level of accuracy and reliability. All motors are German-made. Without belts, clutches, and pulleys, its compact design greatly minimizes the numbers of moving parts and maintenance cost.

#### 4-Side Squaring Bundle Control

Excellent side squaring, backstop, and pusher ensure the integrity of the bundle before strapping.

#### Siemens PLC Control and HMI

Siemens PLC is the state-of-the-art controller. It is programmable and can be expanded flexibly to meet various requirements in different applications. The Siemens HMI (touch panel) provides easy adjustments, operating instruction and troubleshooting guides.

### More Features

#### Auto Strap Ejector

Loop-eject clears unwanted strap automatically. Eliminate downtime.

#### Patented Jammed-strap Ejection Device

Provide the highest reliability and stability for the movement of pneumatic press.

#### Full-width Pneumatic Press

Provide the highest reliability and stability for the movement of pneumatic press.

#### Hinged Roller Table

Easy to open the table for maintenance. The table is hinged, strapping, and easy to move.

#### the Covey or Speed

Fully automatic with variable speed.

Easy to clean the end of strap and get the clean ready for next child of strap.

#### the Pressureion Presp and Squar

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# STEP TransCorrliner TP-CIL

## Inline Squaring and Strapping System

STEP TransCorrliner STEP TP-CIL is a high speed corrugated inline squaring and strapping system which meets the speed requirement of the fastest Flexo Folder Gluer and Casemaker. STEP TP-CIL uses the latest brushless DC motor direct drive technology in sealing head, needle, squaring devices, and off-center strapping to provide the highest level of reliability and durability. In addition, the intelligent self-positioned pusher detects bundle length automatically to streamline production process and increase strapping speed.

### Main Features

#### Compact and Robust Strapping Head

Use the latest DC brushes motor technology in sealing head needle, squaring devices, and off-center strapping to provide the highest level of accuracy and reliability. All motors are German-made.

#### Automatic Bundle Size Setup System

The automatic setting mode makes TP-CIL fast set-up for bundle size change in 15 seconds. It minimizes costly downtime.

#### Intelligent Pusher Optimizes Speed (patent reg)

The intelligent self-positioned pusher detects bundle length and height automatically. It streamlines production process and increases strapping speed.

#### Independent Controlled Conveyor

Built-in independent conveyor at the entrance eliminates bundle jams.

### Technical Data

Capacity	Up to 24 bundles/minute (single strap)
Strap Width	5 mm, 6 mm, 8mm, or 9 mm`
Tension Range	1-20 kg
Bundle Weight	max 35 kg
Conveyor Height	780mm - 1080 mm
Conveyor Speed	30 - 70 m/minute
Electrical Requirements	220V, 380V, 400V, 415V 50/60Hz 3PH

### Options

- Powered alignment device
- Dual dispenser with auto splices
- Air conditioner for control box
- belt driven conveyor for the last bundle
- Energy saving trasit with auto sleeo mode
- Uplifted support
- Bus interface for bundle size data transfer from upstream equipment

### More Features

#### Strapping in the Flute Direction

Applying strapping in the transport direction, in line with the flutes, typically reduces strap consumption and also secures the strap is applied in the optimum position.

#### Siemens PLC and HMI

Provide easy adjustments, TEACH\_IN programming, simplified set-up, and troubleshooting guides.

#### Off-center Strapping

The strapping position is adjustable for applying perfect strapping on complex bundles sizes and formats,

#### Hot Standby Mode (Twin head model only)

In the single strap applications, the second head is in hot standby mode and can be activated in seconds automatically for eliminating downtime.

#### Good for Inexpensive Narrow Strap

The drap-strap feeding design allows TP-CIL to use economical PP strap. Maximize cost efficiency.

### Stack Sizes

# STEP TP-702CTRS

## High Speed Strapper for Specialty Folder Gluer Boxes

STEP TP-702CTRS is designed to strap specialty boxes, including crash lock boxes, four corner tray, and other folded type boxes from shingled-stream folder gluer output. The clever side-pusher and backstop designs ensure of the best stack condition after strapping and protect delicate boxes from damage without sacrificing its high speed. STEP TP-702CTRS is an efficient squaring and strapping solution for specialty folder gluer products.

### Main Features

#### Compact and Robust Strapping Head

Use the latest brushless DC motor direct drive technology to provide the highest level of accuracy and reliability. All motors are German-made. With compact design and fewer moving parts, it can greatly minimize the maintenance cost.

#### Siemens PLC Control and HMI

Provide easy adjustments, TEACH-IN programming, and troubleshooting guides.

#### Easy Maintainance

The Strapping unit and the conveying unit are independently designed. The strapping unit can be quickly and easily pulled for the convenience of service and maintenance,

#### Ascending Backstop with Sensor

The backstop with sensor ascends incline. It prevents damage to stacks, and ensures the stack integrity and precise strapping positions.

### Technical Data

Capacity	Up to 23 bundles/minute (single strap)
Strap Width	5 mm, 6 mm, 9mm, or 12 mm
Tension Range	1-20 kg (5 mm, 6 mm, 9mm) 1 - 55 kg (12mm)
Bundle Weight	max 25 kg
Conveyor Speed	24 - 60 m/minute
Electrical Requirements	220V, 380V, 400V, 415V 50/60Hz 3PH

### More Features

#### Quick and Effortless Change over

The positioning of the backstop, side pusher, and all other settings can be easily adjusted through Siemens HMI(touch panel) near operator position. Convenient, quick and effortless.

#### Free Access to Strap Guides (patent reg)

Unblocking the guides enables free ad quick access to strap guides without using any tools. The most maintenance friendly design.

#### Auto Strap Ejector

Loop-eject clears unwanted strap automatically. Eliminate downtime.

#### Strap End Ejector

Eject end of the strap from the inlet of strap feeding. Easy to remove the end of the strap and get the machine ready for the next coil of strap.

#### Sensor Controlled Heater

The fast heating mechanism is sensor controlled assuring consistent and high sealing efficiency.

#### Adjustable Table Height

The table height is adjustable between 700 mm and 900 mm.

### Options

- Light tree alarm with low strap sensor (triple alarm)
- Foot pedal switch
- Powered top conveyor
- Additional backstop

**Sal-Tech Easy Packaging**  
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