# Combination Systems

## For Box Sealing and Strapping Application

2021

2021.V1

PWI®
PACK WAY INC
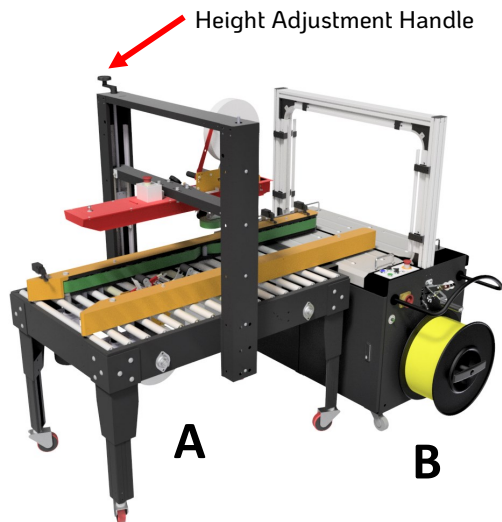
IN

IN

OUT
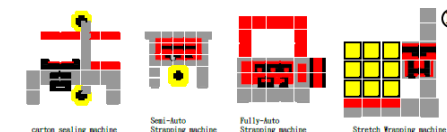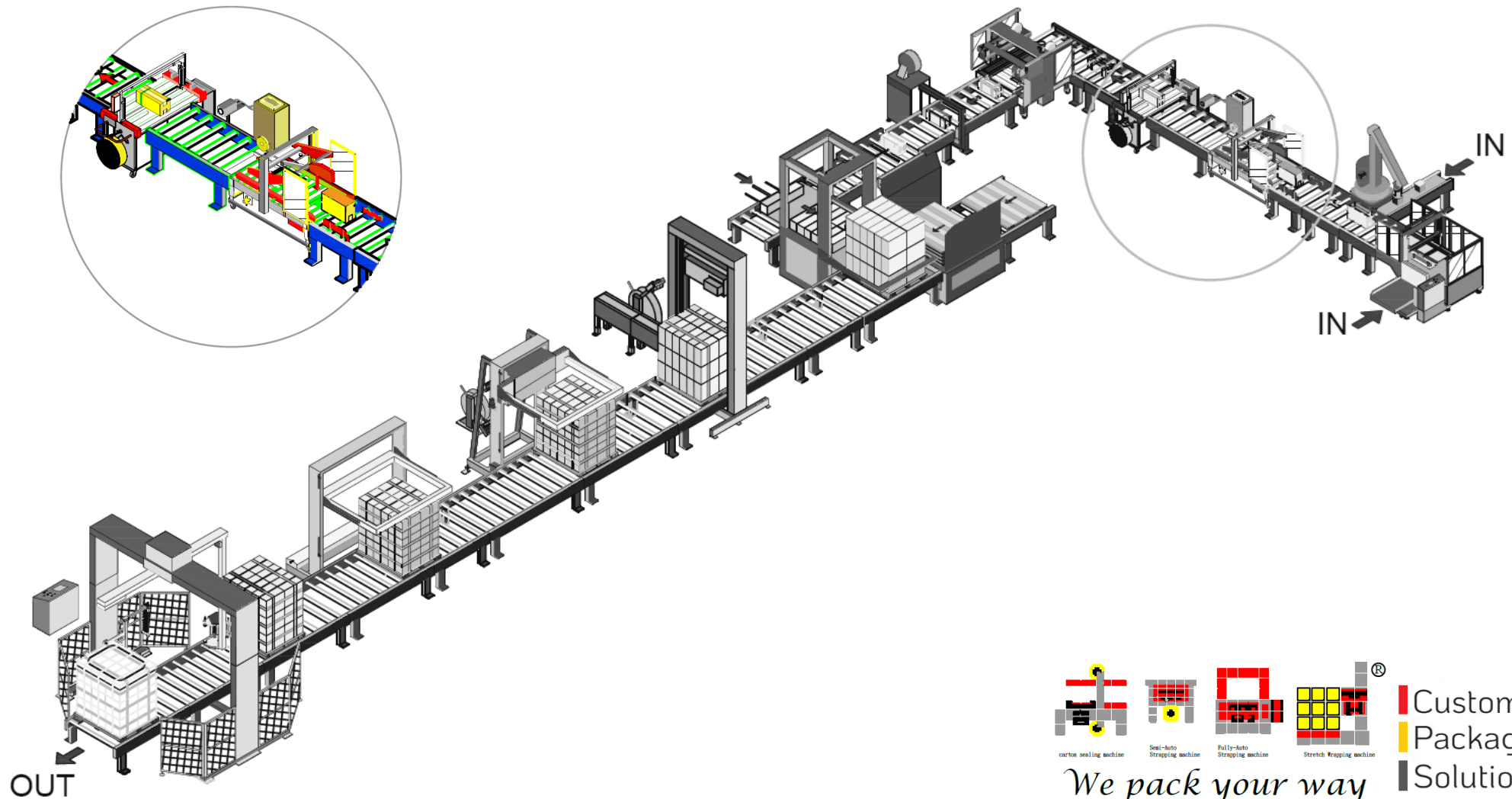
carton sealing machine    Semi-Auto Strapping machine    Fully-Auto Strapping machine    Stretch Wrapping machine

Customize
Packaging
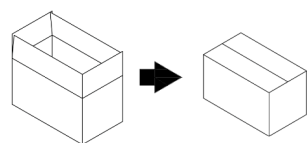Solutions

*We pack your way*

Height Adjustment Handle

A    B

This basic *2 in 1* combo machine is good for uniform size cartons. It provides continuous sealing and strapping. The packaging options can be chosen from single strap or double strap, also with adjustable strapping position for different carton length. Each machine can be used individually when needed. The carton sealer has 60 sec. auto-stop device to save power consumptions. The *CAT* strapping machine features Auto strap feeding from top improves productivity and Auto strap ejector reduces downtime.
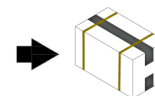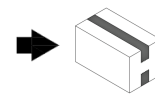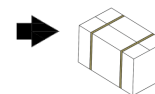
✳ **Operation Flow Diagram**

Manually fold all flaps

Feed into sealing machine

Sealing & Strapping

Sealing (bypass strapping)

Strapping (bypass sealing, with flap plate extension to hold down top flaps entering strapping machine).

✳ System Video

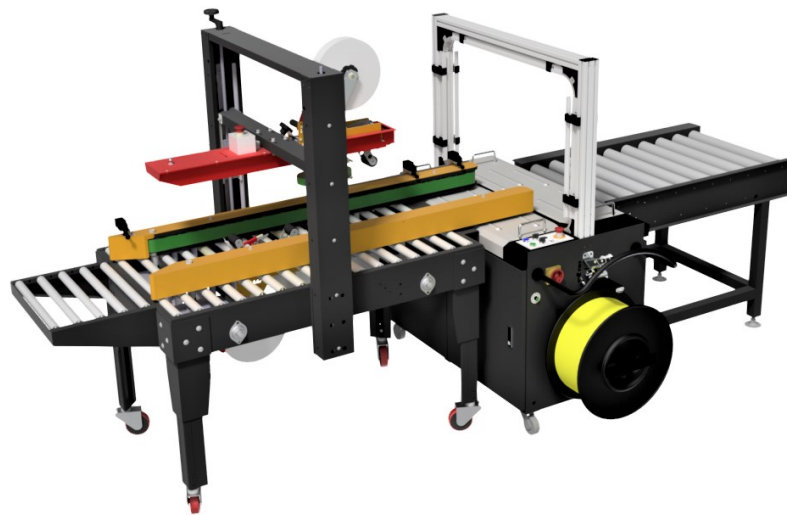| A: PW-553SB | Uniform Carton Sealer with Side Belt Drive |
|---|---|
| Tape Width | 2" or 3" OPP or **Paper tape** |
| Sealing Range | 2" L300~700 x W120~500 x H110~500 <br> 3" L300~700 x W145~500 x H110~500 (mm) |
| Loading weight | 30 kg (50 kg options) |
| Belt speed | 15M/Min. |
| Table height | 550 ~ 810 mm (adjustable legs) |
| Power Supply | 3PH 220V, 380V, 415V, 440V, 50/60Hz |

| B: PW-0860CAT | Automatic Strapping Machine with Auto Strap Feed |
|---|---|
| Strap Width | 9mm, 12mm, 15mm, 19mm |
| Tension Range | Up to 70 kg |
| Strapping speed | **28 straps per minute** |
| Package Size | Max. W500 x H500 Min. W120 x H110 (with PW-553SB) |
| Package Size | Max. W800 x H550 Min. W100 x H30 (use alone) |
| Table height | 810 mm as standard or **730 mm** (options) |
| Power Supply | 3PH 220V, 380V, 415V, 440V, 50/60Hz |
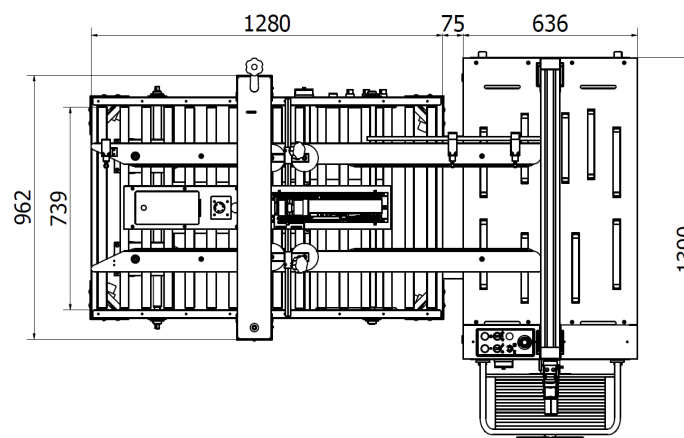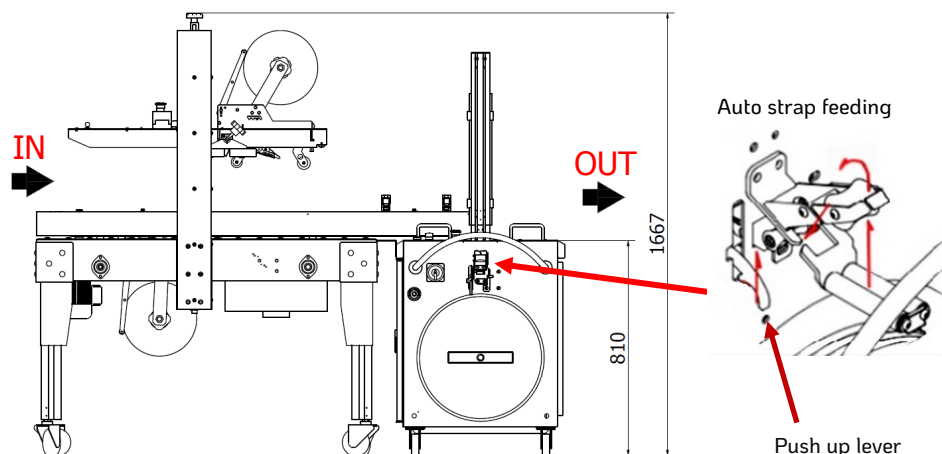


IN

OUT

1667

810

Auto strap feeding

Push up lever

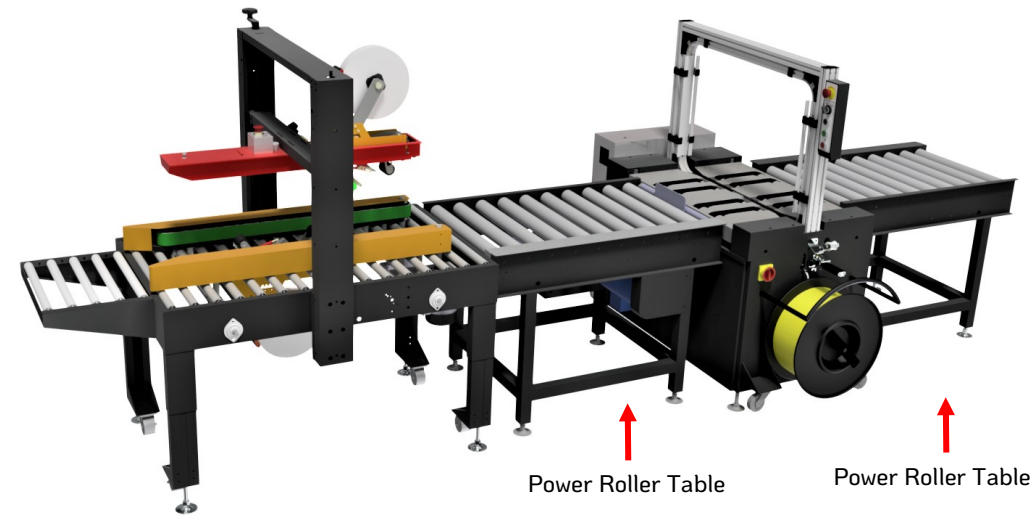1280   75   636

962   739   1390

✳ **Options**

● Extension roller table at in feed
● Stainless steel frame
● Close-type roller table to increase loading capacity
● Retractable tapping head (bypass sealing)
● Machine extension upon request

Unit: mm

All specifications are subject to change without notice.

# Oh. So. Compact.

# Oh. So. Costly.



Power Roller Table

Power Roller Table

| Machine Type | Description |
|---|---|
| PW-553SB | Sealing Machine (extended side belt) |
| PW-0860CAT | Automatic Strapping Machine  (Free Roller Tabletop) |

| Machine Type | Description |
|---|---|
| PW-553S | Sealing Machine (without extended side belt) |
| PW-0860CATS2B | Fully Automatic Strapping Machine (Belt Driven Tabletop) |

**Pros**

- Quick set up
- Cost effective layout
- Wider range box sizes
- Less maintenance costs
- Less power consumption

**Cons**

- Without buffer conveyor
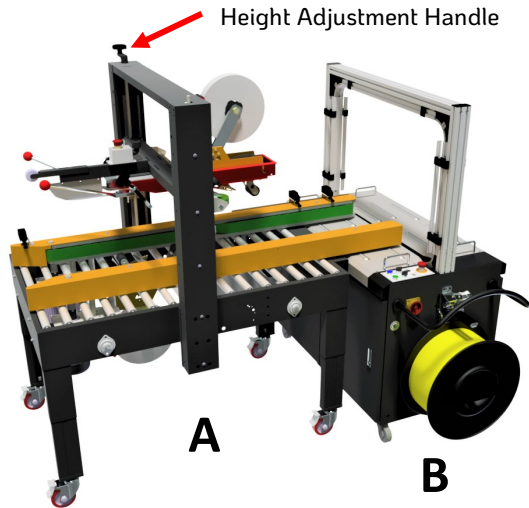- One package in and out at a time (depending on box length)

**Pros**

- Better transit buffer with extra conveyor in between
- Lesser idle time

**Cons**

- Require more space
- Box size range is constrained
- More maintenance costs
- More wearable components (belts)
- More power consumption

# PW-553SBLF+PW-0860CAT Sealing and strapping system with Auto Strap Feed

COMBINATION SYSTEMS

PWI® PACK WAY INC

bsi ISO 9001 Quality Management

CE

Height Adjustment Handle

A

B

This **2 in 1** basic combo machine is designed for uniform size cartons. It provides continuous sealing and strapping and features **left/right flap folding mechanism**. The packaging options can be chosen from single strap or double strap, also with adjustable strapping position for different carton length. Each machine can be used individually when needed. The carton sealer has 60 sec. auto-stop device to save power consumptions. The **CAT** strapping machine features Auto strap feeding from top improves productivity and Auto strap ejector reduces downtime.
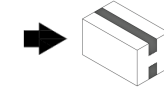
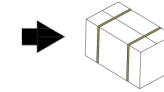**∗ Operation Flow Diagram**
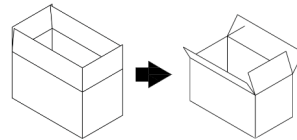
Manually fold down rear flap ➤ Feed into sealing machine ➤
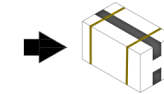
Sealing & Strapping
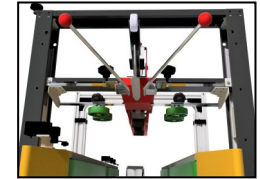
Sealing (bypass strapping)

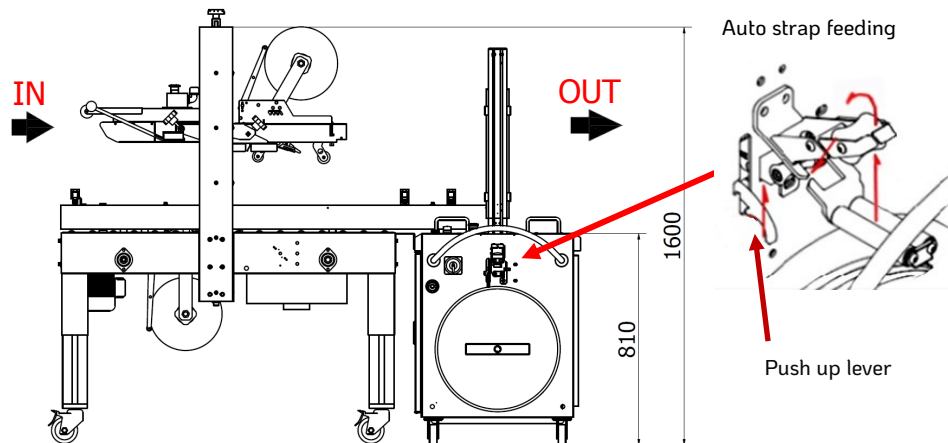Strapping (bypass sealing, with flap plate extension to hold down top flaps entering strapping machine).
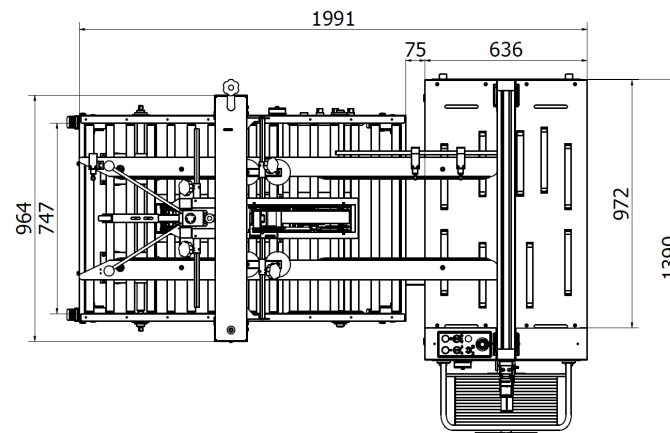
Left/Right Flap fold mechanism

| A: PW-553SBLF | Uniform Carton Sealer with Side Belt Drive + Top Flap Folding |
|---|---|
| Tape Width | 2" or 3" OPP or **Paper tape** |
| Sealing Range | 2"/ 3" L300~500 x W200/225~500 x H110~500 mm |
| Loading weight | 30 kg (50 kg options) |
| Belt speed | 15M/Min. |
| Table height | 550~810 mm (adjustable legs) |
| Power Supply | 3PH 220V, 380V, 415V, 440V, 50/60Hz |

| B: PW-0860CAT | Automatic Strapping Machine with Auto Strap Feed |
|---|---|
| Strap Width | 9mm, 12mm, 15mm, 19mm |
| Tension Range | Up to 70 kg |
| Strapping speed | **28 straps per minute** |
| Package Size | Max. W500 x H500 Min. W200 x H110 (with PW-553SBLF) |
| Package Size | Max. W800 x H550 Min. W100 x H30 (use alone) |
| Table height | 810 mm as standard and **730 mm** (options) |
| Power Supply | 3PH 220V, 380V, 415V, 440V, 50/60Hz |

IN

OUT

Auto strap feeding

Push up lever
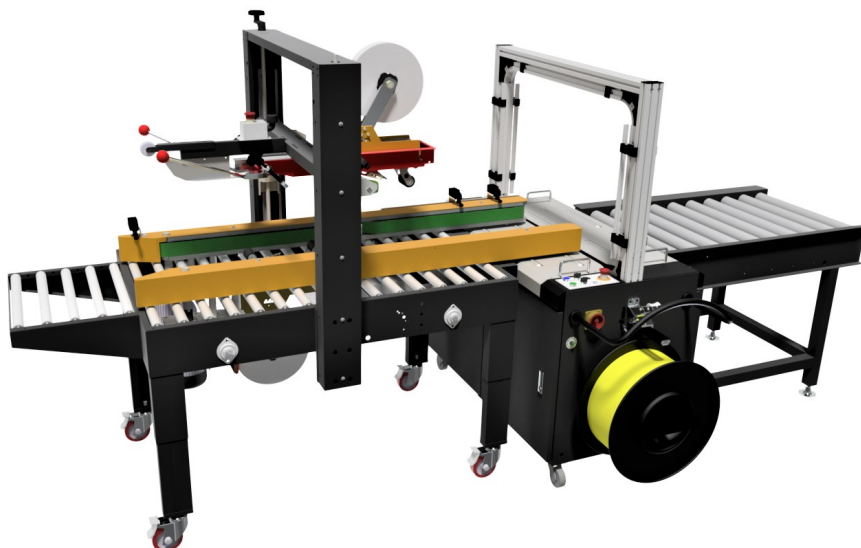
1600

810
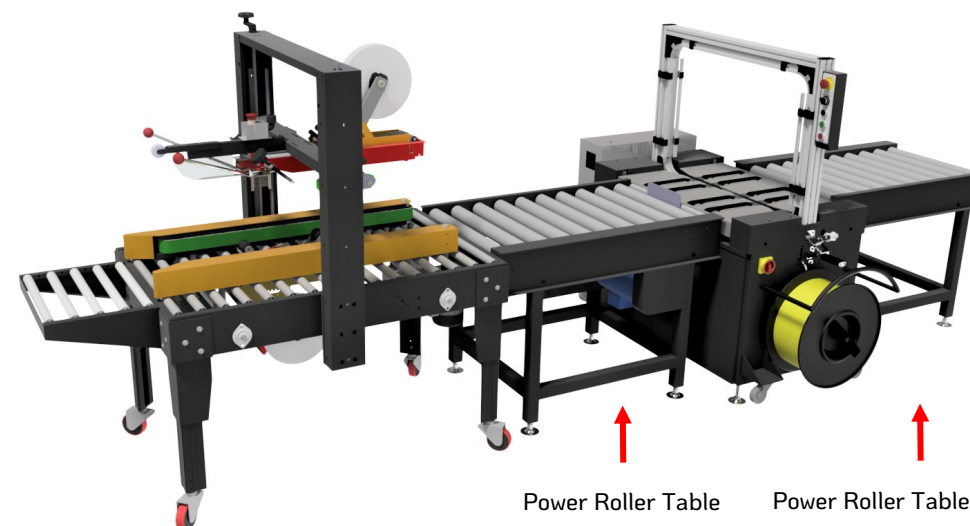
Unit: mm

1991

75

636

964
747

972

1390

**∗ Options**

● Extension roller table at in feed
● Stainless steel frame
● Close-type roller table to increase loading capacity
● Retractable tapping head (bypass sealing)
● Machine extension upon request

All specifications are subject to change without notice.

# Oh. So. Easy.

# Oh. So. Costly.





Power Roller Table    Power Roller Table

| Machine Type | Description |
|---|---|
| PW-553SBLF | Sealing Machine (extended side belt) |
| PW-0860CAT | Automatic Strapping Machine (Free Roller Tabletop) |

| Machine Type | Description |
|---|---|
| PW-553SF | Sealing Machine (without extended side belt) |
| PW-0860CATS2B | Fully Automatic Strapping Machine (Belt Driven Tabletop) |

**Pros**

- Quick set up
- Cost effective layout
- Wider range box sizes
- Less maintenance costs
- Less power consumption

**Cons**

- Without buffer conveyor
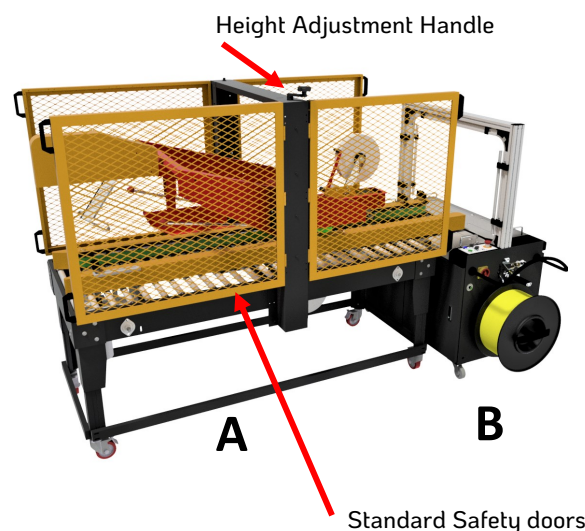- One package in and out at a time (depending on box length)

**Pros**

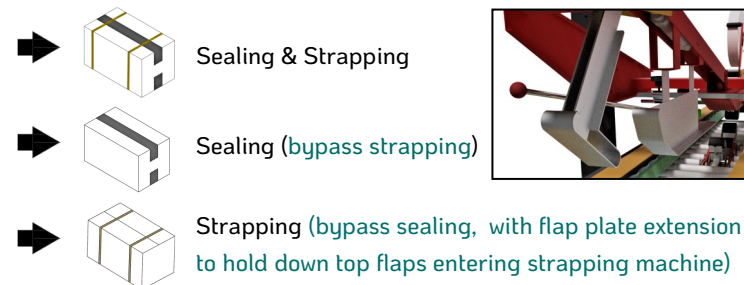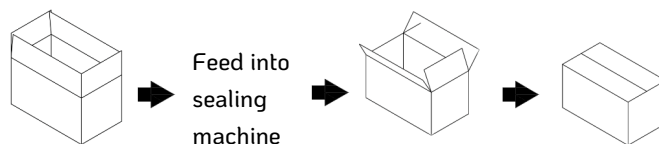- Better transit buffer with extra conveyor in between
- Lesser idle time

**Cons**

- Require more space
- Box size range is constrained
- More maintenance costs
- More wearable components (belts)
- More power consumption

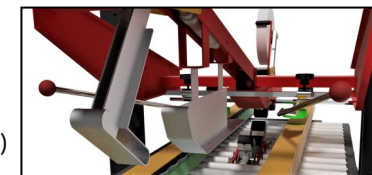Height Adjustment Handle



A    B

Standard Safety doors

This **2 in 1** combo machine is designed for **uniform** size cartons. It provides continuous sealing and strapping and features **all top flap folding mechanism**. The packaging options can be chosen from single strap or double strap, also with adjustable strapping position for different carton length. Each machine can be used individually when needed. The carton sealer has 60 sec. auto-stop device to save power consumptions. The **CAT** strapping machine features **Auto strap feeding** from top improves productivity and **Auto strap ejector** reduces downtime.

Automatic Flap fold mechanism
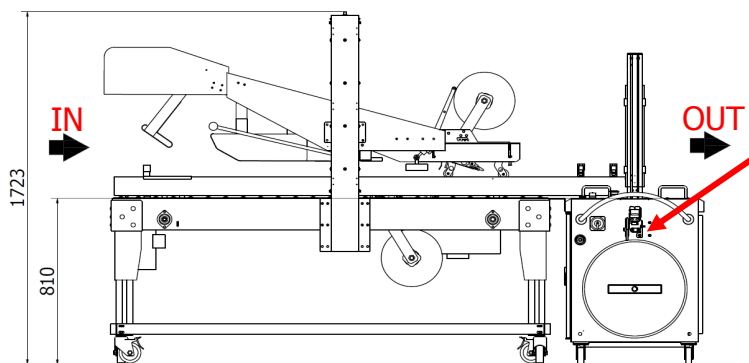


✳ Operation Flow Diagram
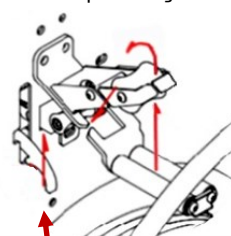
Feed into sealing machine

Sealing & Strapping

Sealing (bypass strapping)

Strapping (bypass sealing, with flap plate extension to hold down top flaps entering strapping machine)

| A: PW-557FB | Uniform Carton Sealer with Side Belt Drive + Top Flap Folding |
|---|---|
| Tape Width | 2" or 3" OPP or **Paper tape** |
| Sealing Range | 2"/3" L200~600 x W120/145~500 x H110~500 mm |
| Loading weight | 30 kg (50 kg options) |
| Belt speed | 15M/Min. |
| Table height | 550~810 mm (adjustable legs) |
| Power Supply | 3PH 220V, 380V, 415V, 440V, 50/60Hz |

| B: PW-0860CAT | Automatic Strapping Machine with Auto Strap Feed |
|---|---|
| Strap Width | 9mm, 12mm, 15mm, 19mm |
| Tension Range | Up to 70 kg |
| Strapping speed | **28 straps per minute** |
| Package Size | Max. W500 x H500 Min. W120 x H110 (with PW-557FB) |
| Package Size | Max. W800 x H550 Min. W100 x H30 (use alone) |
| Table height | 810 mm as standard and **730 mm** (options) |
| Power Supply | 3PH 220V, 380V, 415V, 440V, 50/60Hz |

Auto strap feeding
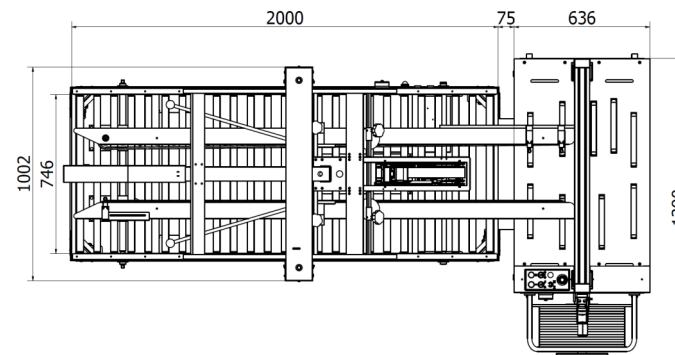
IN

OUT

1723

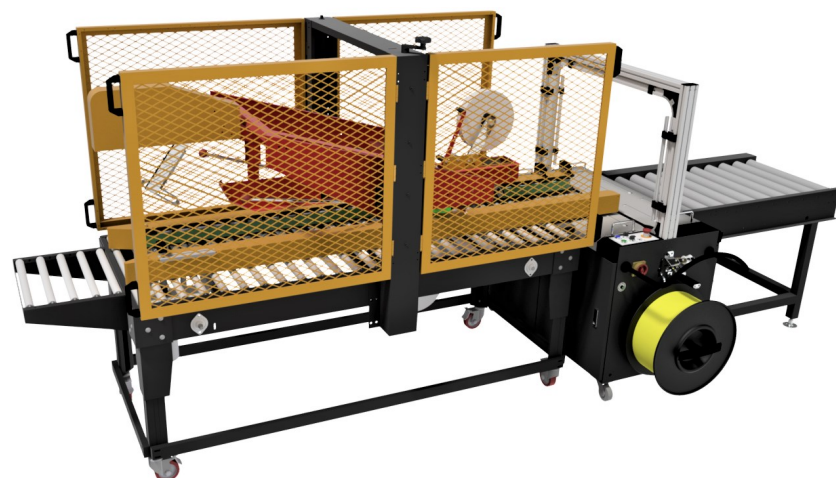810

Push up lever

2000    75    636

1002    746

1390

✳ Options

● Extension roller table at in feed
● Stainless steel frame
● Close-type roller table to increase loading capacity
● Retractable tapping head (bypass sealing)
● Machine extension upon request
● Detection for low tape and sealing

Unit: mm

All specifications are subject to change without notice.

# Oh. So. Efficient.

# Oh. So. Costly.

Power Roller Table          Power Roller Table

| Machine Type | Description |
|---|---|
| PW-557FB | Sealing Machine (extended side belt) |
| PW-0860CAT | Automatic Strapping Machine (Free Roller Tabletop) |

| Machine Type | Description |
|---|---|
| PW-557F | Sealing Machine (without extended side belt) |
| PW-0860CATS2B | Fully Automatic Strapping Machine (Belt Driven Tabletop) |

**Pros**

- Quick set up
- Cost effective layout
- Wider range box sizes
- Less maintenance costs
- Less power consumption

**Cons**

- Without buffer conveyor
- One package in and out at a time (depending on box length)

**Pros**

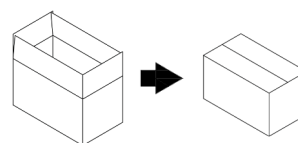- Better transit buffer with extra conveyor in between
- Lesser idle time

**Cons**

- Require more space
- Box size range is constrained
- More maintenance costs
- More wearable components (belts)
- More power consumption
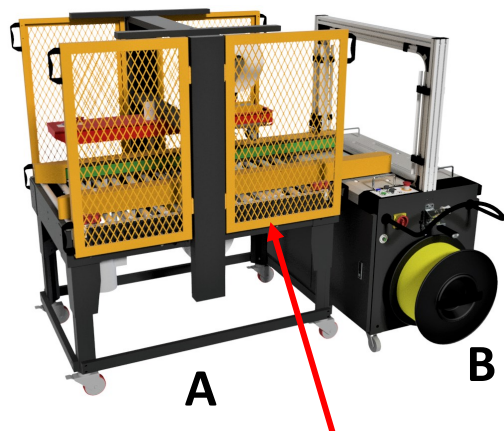
This **2 in 1** combo machine is designed for **random** size cartons. It provides continuous sealing and strapping without the need to adjust the carton sealer manually when changing carton sizes. It can switch to **height memory** function for batch production. The packaging options can be chosen from single strap or double strap, also with adjustable strapping position for different carton length. Each machine can be used individually when needed. The carton sealer has 60 sec. auto-stop device to save power consumptions. The **CAT** strapping machine features **Auto strap feeding** from top improves productivity and **Auto strap ejector** reduces downtime.

Standard Safety doors

**A**

**B**

**∗ Operation Flow Diagram**
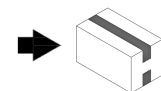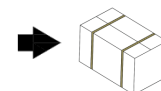
Manually fold all flaps

Feed into sealing machine

Sealing & Strapping

Sealing (bypass strapping)

Strapping (bypass sealing, with flap plate extension to hold down top flaps entering strapping machine)

∗ System Video

| A: PW-555AB | Random Carton Sealer with Side Belt Drive |
|---|---|
| Tape Width | 2" or 3" OPP or **Paper tape** |
| Sealing Range | 2"/3" L300~700 x W120/145~500 x H150~500 mm |
| Loading weight | 30 kg (50 kg options) |
| Belt speed | 15M/Min. |
| Table height | 550~810 mm (adjustable legs) |
| Power Supply | 3PH 220V, 380V, 415V, 440V, 50/60Hz |

| B: PW-0860CAT | Automatic Strapping Machine with Auto Strap Feed |
|---|---|
| Strap Width | 9mm, 12mm, 15mm, 19mm |
| Tension Range | Up to 70 kg |
| Strapping speed | **28 straps per minute** |
| Package Size | Max. W500 x H500 Min. W120 x H150 (with PW-555AB) |
| Package Size | Max. W800 x H550 Min. W100 x H30 (use alone) |
| Table height | 810 mm as standard and **730 mm** (options) |
| Power Supply | 3PH 220V, 380V, 415V, 440V, 50/60Hz |

IN

OUT

Auto strap feeding

Push up lever

1586

810

1288    75    636

933

746

1390,00
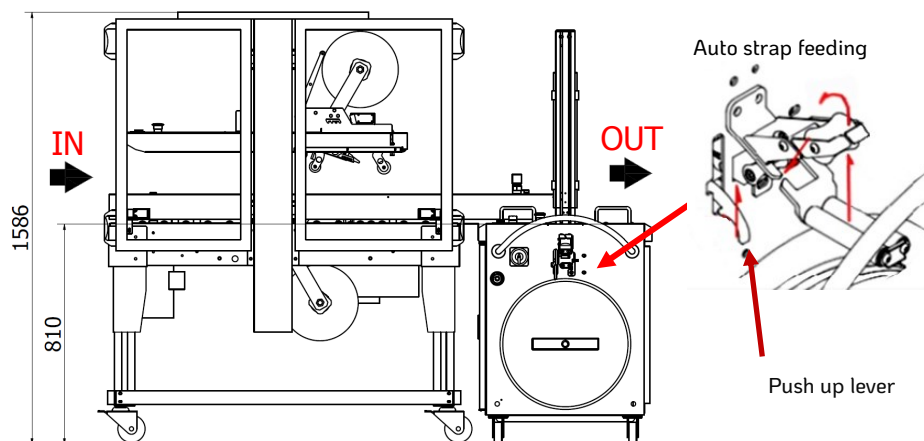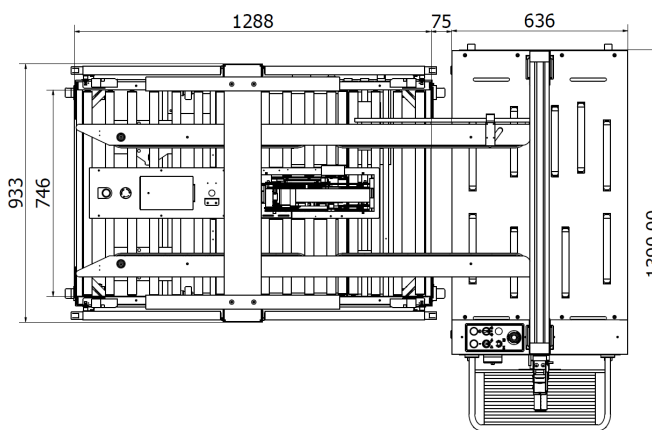
**∗ Options**

- Extension roller table at in feed
- Stainless steel frame
- Close-type roller table to increase loading capacity
- Retractable tapping head (bypass sealing)
- Machine extension upon request
- Detection for low tape and sealing failure (PLC control)

Unit: mm

All specifications are subject to change without notice.

# Oh. So. Convenient.

# Oh. So. Costly.



Power Roller Table      Power Roller Table

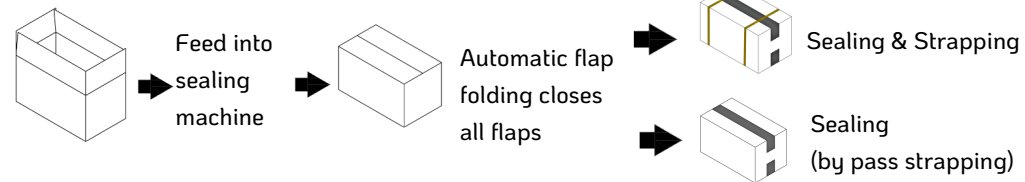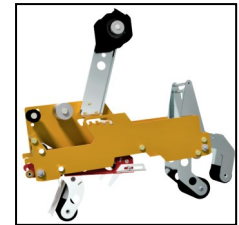| Machine Type | Description |
| --- | --- |
| PW-555AB | Sealing Machine (extended side belt) |
| PW-0860CAT | Automatic Strapping Machine (Free Roller Tabletop) |

| Machine Type | Description |
| --- | --- |
| PW-555A | Sealing Machine (without extended side belt) |
| PW-0860CATS2B | Fully Automatic Strapping Machine (Belt Driven Tabletop) |
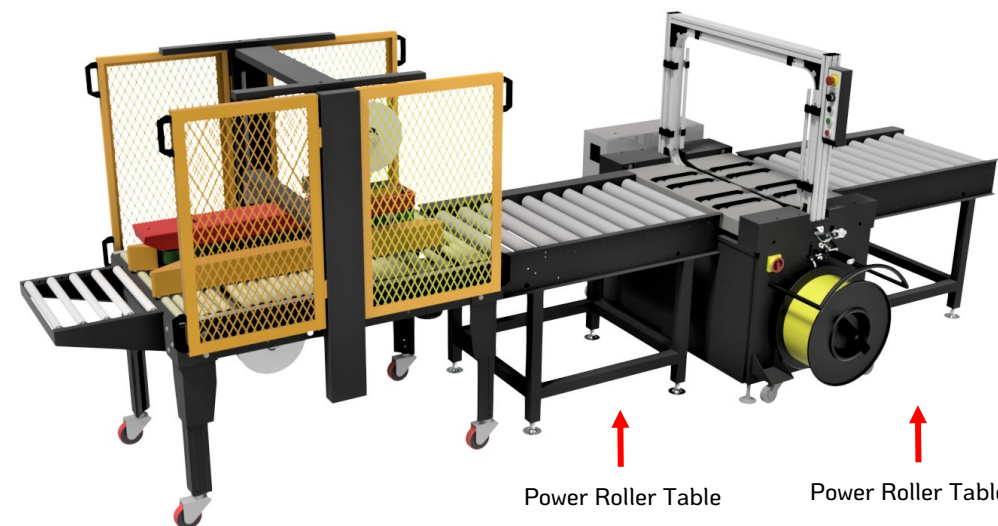
**Pros**

- Quick set up
- Cost effective layout
- Wider range box sizes
- Less maintenance costs
- Less power consumption

**Cons**

- Without buffer conveyor…
- One package in and out at a time (depending on box length)

**Pros**

- Better transit buffer with extra conveyor in between
- Lesser idle time

**Cons**

- Require more space
- Box size range is constrained
- More maintenance costs
- More wearable components (belts)
- More power consumption

✳ System Video
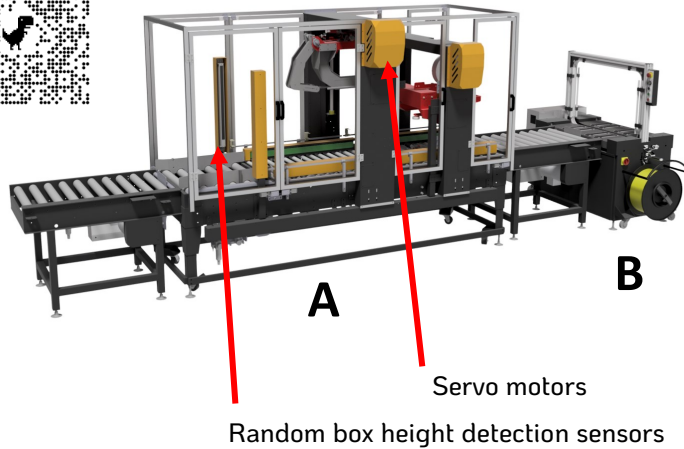
This **fully automatic high speed** carton sealing and strapping system is designed for **random** size cartons. The carton width and height is **pre-detected** at in feed and with **Servo motor drives** for instant and precise positioning. The capacity is **16 cartons per minute** and folds all four sides of top flaps, it is also suited for system operation with **in-feed flow control** and alarm/sensors for low tape and sealing failure as standards. A power roller conveyor at out feed for delivering the cartons to the strapping position.

**A**  **B**

Servo motors

Random box height detection sensors

✳ Operation Flow Diagram

Feed into sealing machine

Automatic flap folding closes all flaps

Sealing & Strapping

Sealing (by pass strapping)

High Speed Tape Head
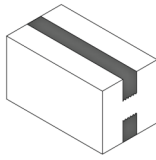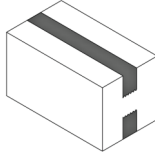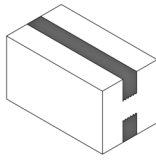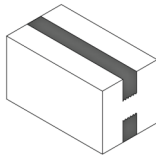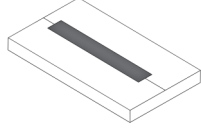
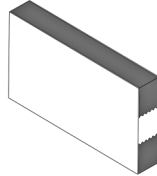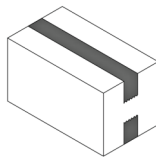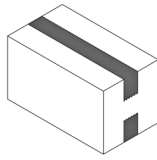| A: PW-569SAF | High Speed Random Carton Sealer |
|---|---|
| Tape Width | 2" or 3" OPP or Paper tape |
| Sealing Range | 2"/3" L300~500 x W200/225~400 x H160~500 mm |
| Loading weight | 30 kg (50 kg options) |
| Belt speed | **33M/Min.  (14~16 Cartos per min.)** |
| Table height | 550~810 mm (adjustable legs) |
| Power Supply | 3PH 220V, 380V, 415V, 440V,  50/60Hz |
| Air Supply | 6kgf/cm² |

| B: PW-0860CATS2B | Automatic Strapping Machine with Auto Strap Feed—Belt driven table |
|---|---|
| Strap Width | 9mm, 12mm, 15mm, 19mm |
| Tension Range | Up to 70 kg |
| Strapping speed | **28 straps per minute** |
| Package Size | Max. W400 x H500 Min. W200 x H160 (with PW-569SAF) |
| Package Size | Max. W800 x H550 Min. W100 x H30 (use alone) |
| Table height | 810 mm as standard and **730 mm** (options) |
| Power Supply | 3PH 220V, 380V, 415V, 440V,  50/60Hz |

2001

IN

OUT

810

Unit: mm

1105   2828   1113

677

1257   1077   609   1674

All specifications are subject to change without notice.

COMBINATION

**PWI** PACK WAY INC
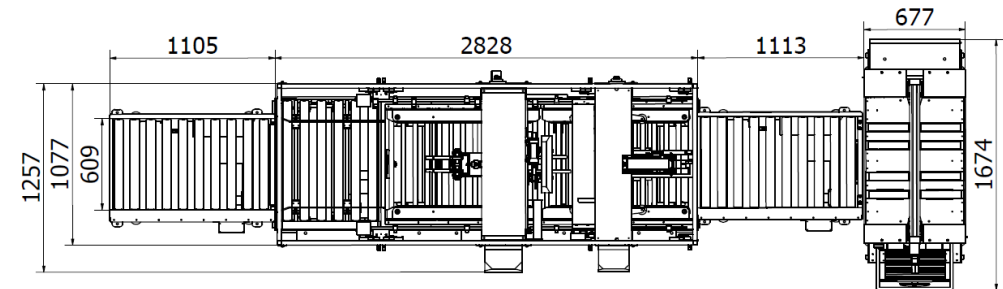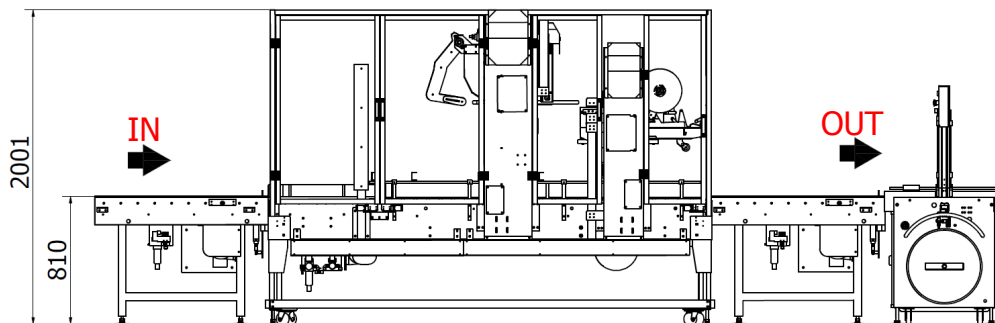
| Tape Head / Specification | C1 | C1 Retractable | C1 Overlap | C3 | C3 Segment | C3 Narrow | Speedy | C6 Ergo |
|---|---|---|---|---|---|---|---|---|
| Tape Sizes | 2" or 3" | 2" or 3" | 2" or 3" | 1.5" or 2" | 1.5" | 2" | 2" or 3" | 2" or 3" |
| Tape Overlap (mm) | 40 ± 5 <br> 60 ± 5 <br> 70 ± 5 <br> 90 ± 5 | 40 ± 5 <br> 60 ± 5 <br> 70 ± 5 <br> 90 ± 5 | 40 ± 5 <br> 60 ± 5 <br> 70 ± 5 <br> 90 ± 5 | 30 ± 5 | n/a | 30 ± 5 | 60 ± 5 | 60 ± 5 |
| Compatible Models | 551TB, 552TB, 553S, 554TS, 555AU, 556AU, 557F, 558F, 559AF and custom made | 551TB, 552TB, 553S, 554TS, 555AU, 556AU, 557F, 558F, 559AF and custom made | 551TB, 552TB, 553S, 554TS, 555AU, 556AU, 557F, 558F, 559AF and custom made | 562M | 562M | 562M | 569SAF <br> 568AHERT | 542S |
| Functionality | Standard General | Optional function for sealing bypass situation | Extra taping roller to press down the tape | Standard for small boxes | Segmented taping without applying tape overlap | Tall and Narrow boxes | Standard Fully Automatic High Speed Taping | Ergonomic Tape Threading |
| Package & Sealing Style | | | | | Shallow box less than 30mm in Height | Narrow box | | |

## Extention Roller Table

Extra platform space for better handling.
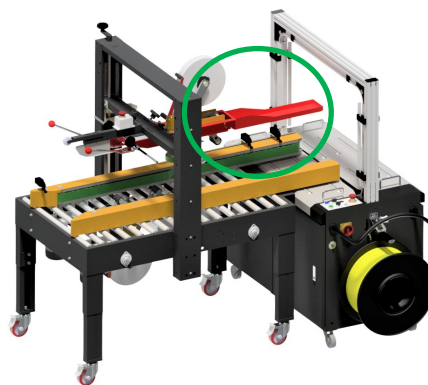
530

361
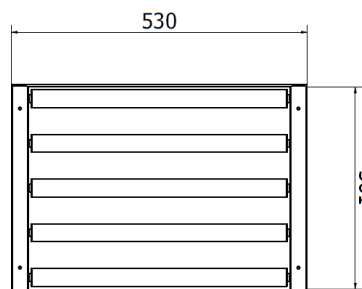
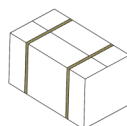*Not Compatible with 569SAF sealing machine

## Extension Plate for Flaps
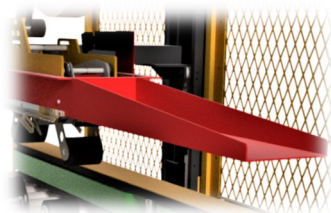
Main purpose for sealing bypass mode. The extension plate helps to press down top flaps and stabilizing the package before entering into strapping machine.
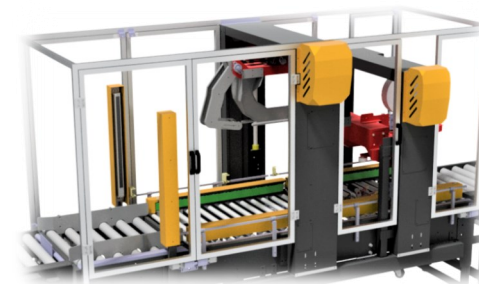
Using sealing bypass mode and the extension flap plate together to further diversify your packaging requirement.

*Not Compatible with 569SAF sealing machine

## Safety Door

Made with acrylic material for window and aluminum frame. It provides clearer visibility of machine status.

Best suited for Fully Automatic or automatic flap folding sealing machines.

*Not required for Uniform type sealing machine

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All specifications are subject to change without notice.