

Brief description

With the delta-pro automatic delivery, you can rely on higher productivity at lower personnel costs. Sturdy, easy-to-handle stacks ensure effective compressed bundles to further processing machines.

The delta-pro is a fully automatic, quality-assuring, stack-forming delivery system that streamlines the production process. The focus here is not just on banding the stacks, but on rationalization. By using a delta, your folding machine can work constantly at higher speeds - usually with only one operator!

Even on the saddle stitcher, the stacks are removed cost-effectively by just one person at increased cycle rates, regardless of whether in double, three-up or even five-up production. Even when used in-house from the folding machine to the saddle stitcher, handling the stacks is quick and easy. The bande role serves merely as an aid for buffering and depositing the products quickly, easily and efficiently. Whether in terms of speed, format or user-friendliness, the delta-pro sets new standards.

Its output of 600 packages per hour per product stream increases the cycle time of the entire process chain. The fully automatic delivery is mobile and can easily be installed behind another machine. It can be converted to another format in just a few minutes.

To be used behind:

Folding machines | Digital printing machines | Saddle stitchers
 Mailers | Thread stitching machines | Collating machines
 Combined or pocket folding machines | Rotative machines
 Punching machines | Ink-Jet-Lines

To the Video:

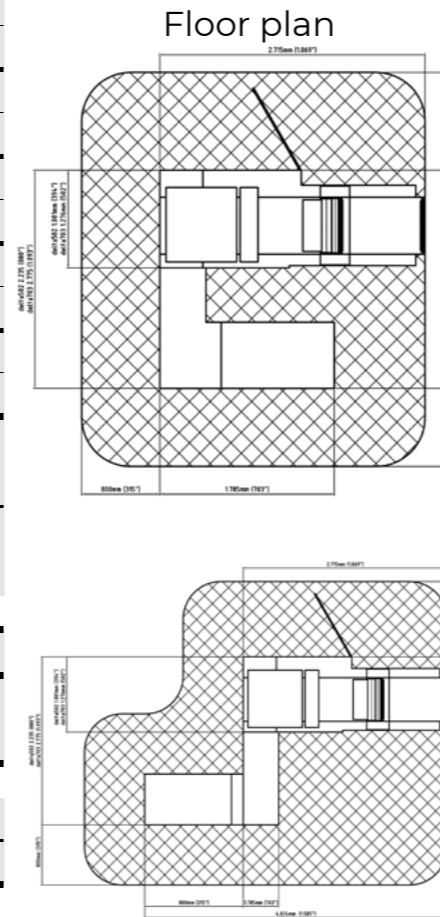


Example for product stacks from the delta-pro



Easily accessible pressing unit of the delta-pro

| Format max. (w x l) | delta502pro | delta703pro | delta705pro |
|------------------------------------|--|--|--------------------------|
| 1 UP (inches) | 20,86 x 12,59 | 31,49 x 12,59 | 31,49 x 12,59 |
| 1 UP (mm) | 530 x 320 | 800 x 320 | 800 x 320 |
| 2 UPs (inches) | 9,64 x 12,59 | 12,99 x 12,59 | 12,99 x 12,59 |
| 2 UPs (mm) | 245 x 320 | 330 x 320 | 330 x 320 |
| 3 UPs (inches) | | 9,44 x 12,59 | 9,44 x 12,59 |
| 3 UPs (mm) | | 240 x 320 | 240 x 320 |
| 4 UPs (inches) | | | 6,69 x 12,59 |
| 4 UPs (mm) | | | 170 x 320 |
| 5 UPs (inches) | | | 5,51 x 12,59 |
| 5 UPs (mm) | | | 140 x 320 |
| Format min. | 4,13 x 2,75 | 4,13 x 2,75 | 4,13 x 2,75 |
| w x l (inches) | 3,14 x 2,55 ¹ | 3,14 x 2,55 ¹ | 2,16 x 2,55 ¹ |
| w x l (mm) | 105 x 70 | 105 x 70 | 105 x 70 |
| | 80 x 65 ¹ | 80 x 65 ¹ | 55 x 65 ¹ |
| | ¹ with small format device | | |
| Number of UPs | 2 | 3 | 5 |
| Output max. (packages/h) | 1.200 | 1.800 | 3.000 |
| Band width | | | |
| inches | 1,96 (opt. 1,18) | 1,96 (opt. 1,18) | 2,18 |
| mm | 5 (opt. 3) | 5 (opt. 3) | 3 |
| Speed | | min. - max. | |
| ft/min | | 82,02 - 672,57 | |
| m/min | | 25 - 205 | |
| Stack height | | min. - max. | |
| inches | | 0,39 (0,07 ²) - 5,9 | |
| mm | | 10 (2 ²) - 150 | |
| | | ² with small package option | |
| Infeed height | | min. - max. | |
| inches | | 15,74 - 41,34 | |
| cm | | 40 - 1050 | |
| Press force | 1.5 t (Pre-press roll) + 2 t (main press roll) | | |
| Control | palamides color touchscreen | | |



General information:
 Technical data depending on press configuration, job, format, substrate and other factors, if any.
 The combination of the individual features may vary from country to country.



palamides GmbH
 Benzstr. 14 · 71272 Renningen, Germany
 Phone: +49 (0) 7159 925 70-0
 Fax: +49 (0) 7159 925 70-47
 e-mail: welcome@palamides.de
www.palamides.com

“With the delta-pro automatic delivery, you can rely on higher productivity and quality with lower personnel resources.”



Advantages for your production

- ◆ More efficient production due to higher operating speeds of folders, saddle stitchers, etc.
- ◆ Short set-up times due to semi-automated set-up.
- ◆ Easy-to-understand user interface and a modern touch screen for intuitive operation.
- ◆ Format corrections can be made externally at any time without interrupting production!
- ◆ Professional workplace organization is facilitated by practical storage areas.
- ◆ Large buffer for the cleanly jogged, stable and easy to handle product stacks. This allows the machine to be operated with only one person at a high, constant speed.
- ◆ Constant production due to automatic format detection and waste lock.
- ◆ The large format range enables high machine utilization.
- ◆ The infeed, which can be swivelled from 42 - 105 cm (15,74" - 41,33"), as well as having caster rollers make the machine mobile and enable quick changes of place.
- ◆ The use of different colored band roles enables the separation of different product versions.
- ◆ Flexible basic plan: The package lift can be rotated 180° at any time and can also be adjusted on the right-hand side. It is always possible to easily switch between the four resulting set-up variants.
- ◆ Ergonomic working heights protect the operator's joints and back.

Functional description:

The folded sheets/saddle stitched stitch brochures are transferred by means of round belts, electronically measured and pressed. Missing sheets are already detected at the infeed and ejected upstream of the pressing station. The products are now fed to the stack magazines, precisely jogged piles are formed and pressed again as a complete package before they are banded. The banded bundles are then made available to the operator on a spacious buffer table via a bundle lift at an ergonomic working height.

Standard

- ✔ Automatic format recognition and automatic waste reject.
- ✔ Shingle stream and single-sheet processing
- ✔ Pressing station with pre- and main pressing rolls with a total pressing pressure of 3.5 t pneumatic opening to make cleaning of the pressing rolls and removal of double sheets quick and easy.
- ✔ Tool-less semi-automated quick set-up mode to limit makeready time to a few minutes.
- ✔ Optical setup aid (two-color round belts)
- ✔ Product stabilization device for reliable processing of difficult and thin products.
- ✔ Banding of the stacks in the product shaft - this enables the machine to produce an incomparable stack formation even of lacquered and uneven products.
- ✔ Vibrating device with jogging paddles, in order to be able to push open also larger stacks of uneven products edge-exactly.
- ✔ Product discharge in running direction or back to operator possible, left or right on large buffer table.
- ✔ Robust and reliable electronic pulse welding process (EIS) for durable banding.
- ✔ Version separation for multiple UP, by different sleeve colors.

Options

- Small format device for reliable processing of small formats.
- Variable stacking level compensation for products that are heavily applied to the stack, for example to optimize stacking on the saddle stitcher. (Adaptable to product size and fold type.).
- Antistatic device for processing statically charged products.
- Blow air device for processing products that unlock (backstitch brochures, layer folds, etc.).
- Small package device for processing flat stacks (min. 2 mm).
- Coupling modules for all folding machines and saddle stitchers from various manufacturers.
- Barcode recognition for postal code sorting or for collating on digital printing machines, film wrapping machines or behind personalization devices.
- Banding with plastic (PE).
- Chip board or card inserter to provide the top and bottom of the stack with a carton which is banded together to keep the stack evenly pressed. Ideal for products that are further processed in mailing systems. The chip board or card inserter can also include price lists, info sheets, etc. as cover sheets in the package.
- Suitable for inline further processing - automatic transfer of parcels by special roller table, e.g. to a shrink tunnel, possible.
- Shingle stream intake.
- Stack level compensation right or left (for processing plow fold).