

High-speed combination folder

ALPHA X5

The standard solution for making
1, 2, or 3 classic half folds

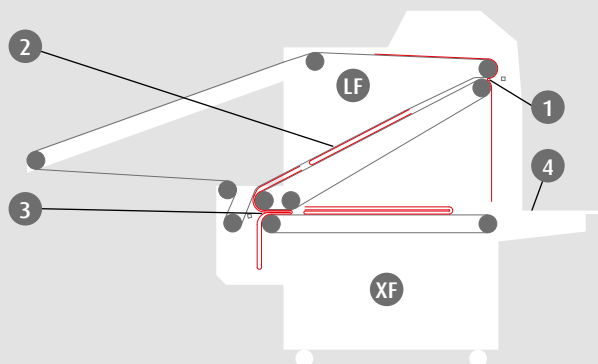


The ALPHA X5 is a range of combination folders with a standard working width of up to 3500mm. lateral folding is only 1 or 4 lanes available. The folder was designed with less moving parts than other conventional combination folders, which makes it a very fast and reliable folder. Lateral folding is performed by the classic airblast between pinch rollers. The lateral folder operates without reversing mechanisms and has a running speed of up to 60 meters per minute. The speed is synchronously adjusted to the ironer speed. The lateral folder can be combined with cross folders to suit the type of linen, the product mix and the required folding patterns. In addition, it can be combined with small piece combination cross folders and stackers for multi-purpose ironer lines.

LF – Lateral Fold section

- 1 The linen is hanging freely from the top of the folder's conveyor at the 1st lateral fold (B). The fold is performed by air blast between pinch rollers. The air blast can be adjusted according to linen thickness, ensuring fast, simple and efficient folding of light or heavy linen.
- 2 Belting guides the linen through the machine. This technique prevents the linen from sliding and displacing, and the pressing function ensures optimum folding quality.
- 3 The Lateral fold C is performed by sandwich conveyor belts and air blast. Thanks to the sandwich design, optimum friction and an excellent folding quality is ensured.

LF Lateral folding 2-lateral fold model



Lane divisions - Lateral fold section

- | | | |
|-----|--|-------------------|
| | | Bypass |
| B | | 1 fold, edges out |
| C | | 1 fold, edges in |
| B+C | | 2 folds |

Lateral fold patterns

Bypass systems

Two bypass systems in the lateral fold section allow you to perform bypass drop of large pieces to the rear table **4**, or to bypass small pieces through the machine, e.g. to a small-piece combination cross folder and stacker placed after the folder. Other bypass systems are available according to lane division and options.

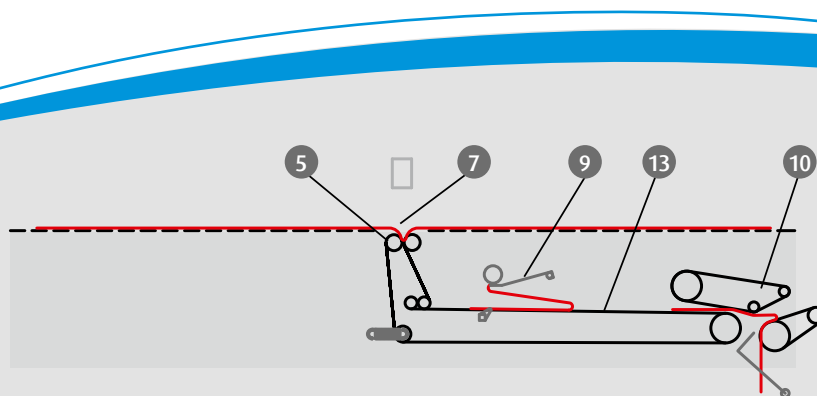
XF – Cross fold section

The ALPHA X5 uses as standard a simple and fast cross folder for 1-lane operation, giving 1, 2, or 3 cross folds as half folds. As an option, the folder can be supplied with a selection of crossfold sections well-known from the Jenfold Classic range.

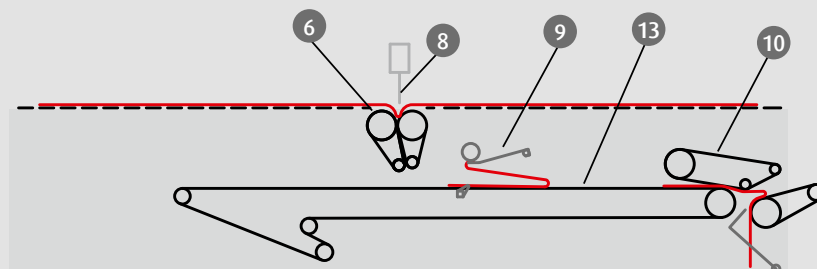
5 The 1st cross fold is performed between pinch rollers. The distance between the rollers, and thus the roller

pressure, is automatically adjusted by a mechanically spring-loaded roller. This ensures a good friction between the rollers and the linen. The belts of the outlet conveyor drive the rollers of the 1st cross fold, and guide the linen down onto the outlet conveyor. The standard cross fold section is for light material and max. two lateral folds.

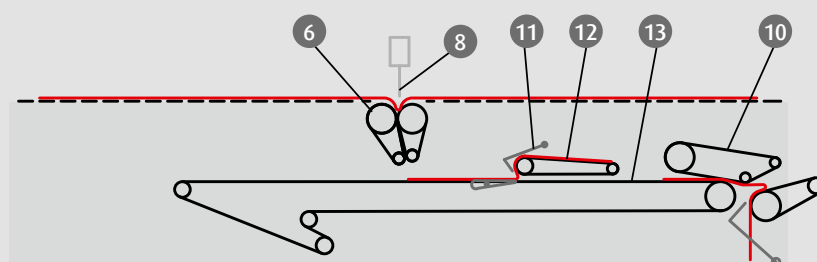
6 As an option, the 1st cross fold can be supplied with sandwich belts and large diameter rollers. The belts guide the linen down and press the linen, ensuring exact fold and smoothing of the folded edges. The distance between the rollers, and thus the roller pressure, is automatically adjusted by means of air cylinders, ensuring optimum friction and flexibility disregarding linen types and thicknesses. In case of a jam or emergency stop, or when opening the safety guards to the cross fold section,



Option 1: For light materials

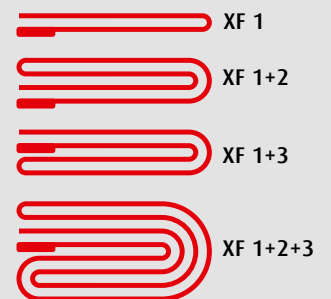


Option 2: For light or heavy materials



Option 3: For light and heavy materials in mixed production

XF Cross folding



Possible cross fold patterns

the distance between the rollers at the 1st cross fold automatically increases, allowing the operator to easily remove the linen.

7 Air blast between pinch rollers at 1st cross fold is recommended for light linen.

8 Knife between pinch rollers at 1st cross fold is recommended for heavy linen.

9 Pick-up and drop at 2nd cross fold is recommended for light linen.

10 EN-fold with knife at 3rd cross fold is the standard solution for half folds.

11 Knife at reversing conveyor.

12 Reversing conveyor at 2nd cross fold is recommended for high-quality half folds of heavy linen, e.g. for table linen and duvet covers, and after 3 lateral folds.

13 Outlet conveyor.

14 ALPHA XW5

The ALPHA XW5 is a further development of the popular ALPHA X5 model, now featuring a 200 mm. larger cross fold section making it possible to cross fold up to 1030 mm.

The new, larger cross fold has been designed with increasing sizes of hotel linen in mind, and like the ALPHA X5, the model XW5 is available with a selection of cross folding sections which have been carefully designed to meet the different requirements around the world.



Jentrol HMI PLC and control system with touch-screen

Accurate folding requires ultra-fast and accurate control. The Jentrol HMI PLC control system represents the recent and most advanced PLC control system with touch-screen ensuring optimum control of the folding parameters. On ironer lines for high-quality purposes especially, it is an all-important factor to ensure the accuracy of the folding functions, and the right speed and control through the entire ironer line in general.

The Jentrol HMI control system features a fast and accurate processor, an easy-to-use man-machine interface, multi-language facilities and an option for remote system service.

Easy to use man-machine interface prepared for Cockpit

The PLC control allows you to operate with sorting on stackers, automatic lane combination, integrated finishing line control from feeder end, variable speed, etc.

Remote control of folder from feeding takes place through separate panel or feeder panel.

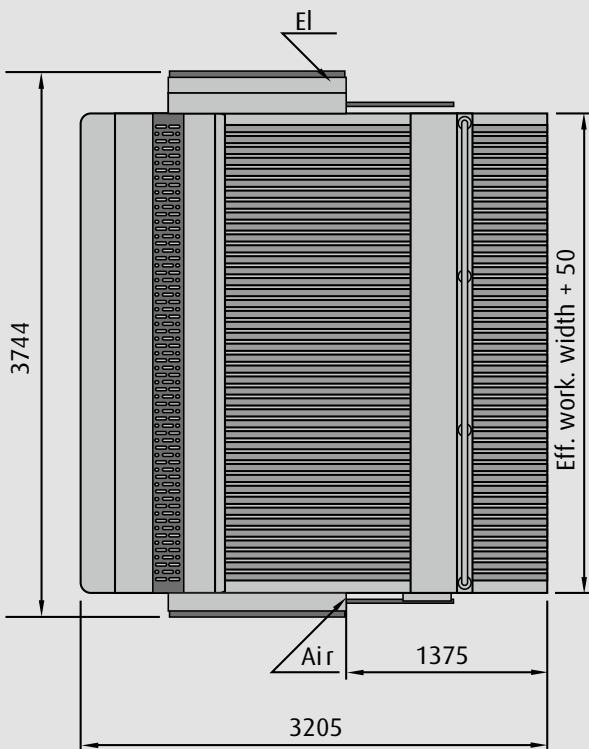
As a standard feature in the software program, all production statistics data can be easily exported to export to an Excel spread sheet through a USB port positioned on PLC.

Detailed information per customer / article or up to 99 categories, informing:

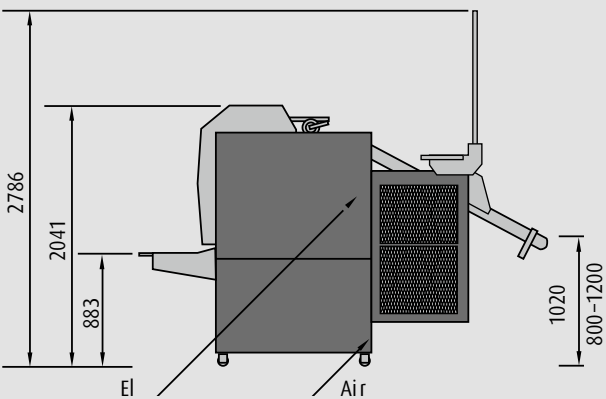
- production per lane
- drop and sorting (repair / rewash)

You get the above information for each recipe in total and for all recipes in total, and you can get historical totals differentiated on:

- per day
- per recipe
- per day / recipe / batch



Example of typical layout. JENSEN shall be pleased to provide you with other models if required. Please contact your local JENSEN partner.



Customer / Article (set by flag) enables you to differentiate history further on:

- per day
- per day / customer
- per day / customer / article
- per day / customer / article / batch
- in total for each

Features and options

- Jentrol HMI PLC control and operating panel with touch screen and digital counters
- Visual LED indicators for control in PLC rack
- 2 air pressures on lateral fold B
- 2 air pressures on lateral fold C
- Automatic bypass of twisted and badly fed linen to rear table
- Automatic 1 or 2 lateral folds
- Jam alarm in lateral fold section for small pieces
- Jam alarm in lateral fold and cross fold section for large pieces
- Automatic 2 or 3 cross folds
- Toothed belt drive
- Draping stacker for small pieces placed in rear table.

Installation

JENSEN is pleased to assist you in planning your laundry by providing excellent advice, layouts and technical data. Authorized JENSEN distributors or JENSEN engineers should carry out the installation to ensure that it is performed correctly.

Service

In addition, JENSEN provides an extraordinary after-sales service through a worldwide network of highly qualified Sales and Service Centers and distributors, all with their own maintenance and spare parts services.

Call us...

JENSEN provides a complete range of heavy-duty equipment for the laundry industry, delivered and installed according to your specifications. Please do not hesitate to contact us for further advice and information, or visit

www.jensen-group.com

Local contact

www.jensen-group.com

Explore our equipment on YouTube

www.youtube.com/jensengroupcom

The ultimate solution for hotel linen

ALPHA XW5

Top-quality folding and high production
on minimum floor space



Top-quality finishing

Top-quality finishing requires top-quality feeding, top-quality ironing, as well as top-quality folding and stacking. During more than 50 years in the laundry industry, JENSEN has grown from being the leading supplier of finishing technology to be the preferred supplier of turn-key solutions.

JENSEN provides optimum solutions to the leading hotel groups, the leading linen rental groups as well as individual laundries serving the healthcare sector and the hospitality sector.

With a record sale of more than 10 000 folders and stackers to the laundry industry all over the world, JENSEN has the experience and know-how to guarantee trouble-free finishing of all kinds of flatwork, ranging from high-capacity ironer lines for hospital linen to top-quality finishing of bed and table linen for high-end hotels and restaurants.

Lateral folding

The ALPHA XW5 provides 1 or 2 lateral folds. The first lateral fold **1** is performed by air blast between pinch rollers, allowing the linen to hang freely from the top of the folder's conveyor. This technique has proven to be fast, simple and reliable, providing a good finishing quality, as the linen is naturally stretched by gravity.

Optimum folding quality

A sandwich conveyor **2** guides the linen through the lateral fold section of the machine. This technique prevents the linen from being twisted, and the pressing function of the sandwich conveyor ensures optimum folding quality. **3** The Lateral fold C is performed by sandwich conveyor belts and air blast. Thanks to the sandwich design, optimum friction and an excellent folding quality is ensured.

Bypass systems

Two bypass systems in the lateral fold section allow bypassing the linen to the rear table **4** after the first



Perfect table linen



Impeccable bed linen

lateral fold or bypassing the linen through the machine for delivering unfolded linen to the rear table. Bypass at the 1st lateral fold is usually used for rejecting wax pieces, or in combination with the optional Jenselect system. The Jenselect system allows to automatically reject linen with defects through the stacker, and to drop stained pieces to the rear table.

Automatic bypass

Automatic bypass of twisted and badly fed linen prevents the linen from entering the cross fold section of the folder. In such cases, the system ensures that the linen is automatically rejected. A similar system works for linen exceeding the maximum allowable length.

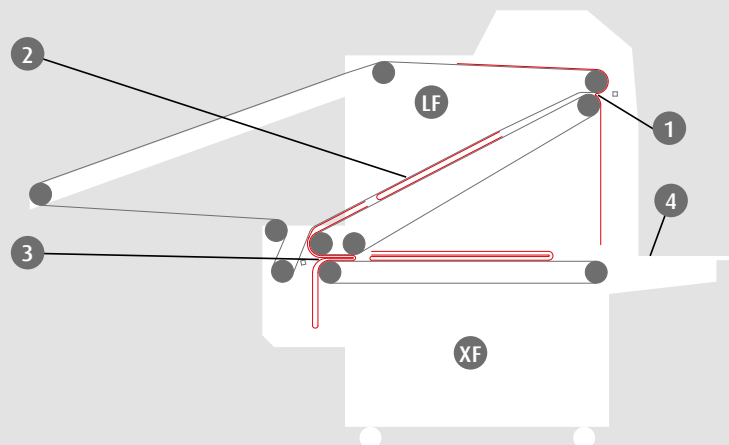
Cross fold sections

The ALPHA XW5 cross fold has been designed with increasing sizes of hotel linen in mind, now featuring a cross fold section making it possible to cross fold up to 1030 mm. It is available with a selection of cross folding sections which have been carefully designed to meet different requirements.

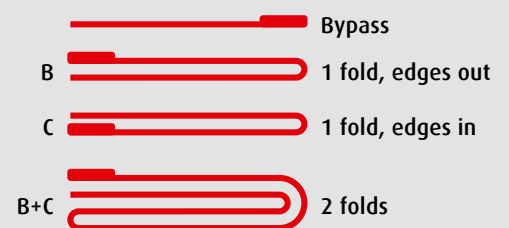
The standard cross folding section is designed for fast folding of light materials such as light bed sheets, using well-proven folding techniques to give 1, 2, or 3 cross folds as half folds in 1-lane operation. The 1st cross fold 5 is performed by air blast between pinch rollers. The distance between the rollers, and thus the roller pressure, is automatically adjusted by a spring-loaded roller



ALPHA XW5 installed in a high-performance JENSEN ironer line



Principle sketch of lateral folding



Possible lateral fold patterns

6 ensuring a good friction between the rollers and the linen. The 2nd cross fold 7 is performed by the simple and fast “Pick Up & Drop” fold, and the 3rd cross fold 8 is performed by the well-proven “EN” knife fold.

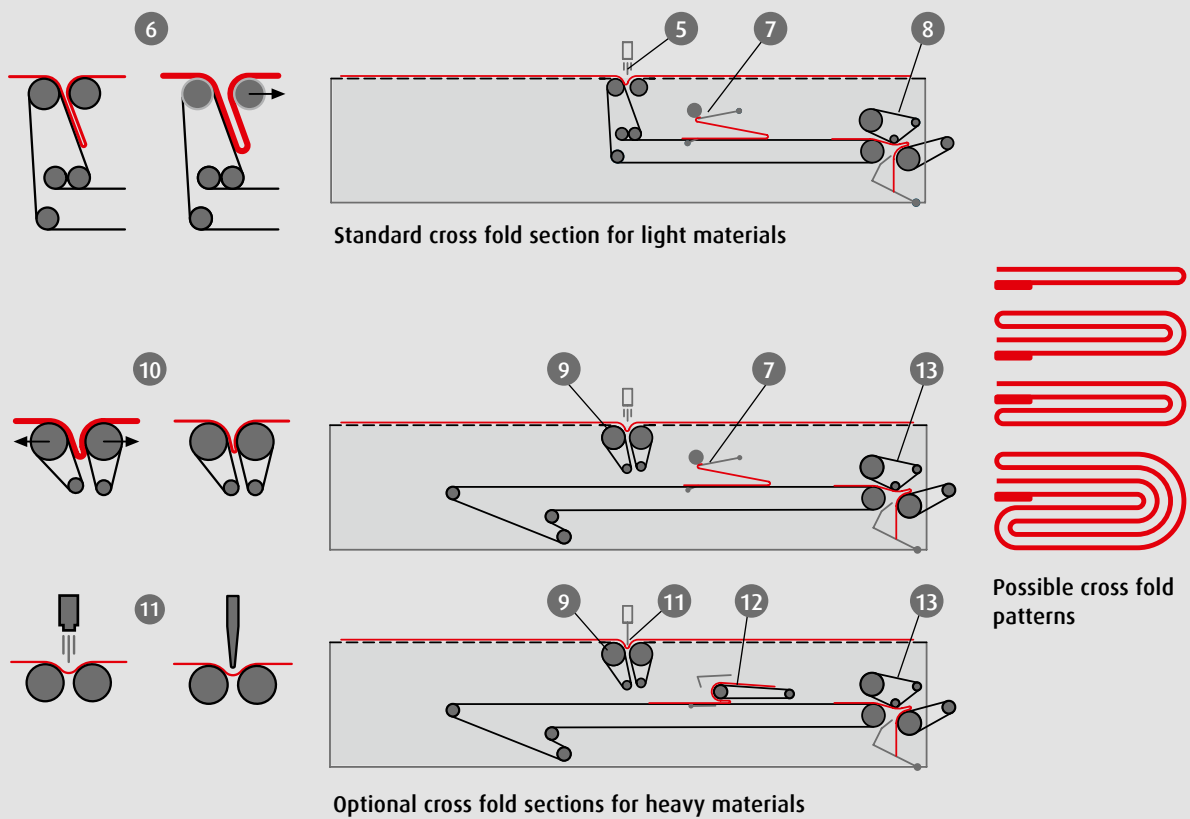
Optional cross fold sections

As an option, the 1st cross fold can be supplied with individually driven rollers 9 and sandwich belts. The sandwich belts guide the linen very precisely and press the linen, ensuring exact folding and smoothing of the folded edges. The distance between the rollers 10 and thus the roller pressure is automatically adjusted by means of air cylinders, ensuring optimum friction and flexibility. The result is a high and uniform folding quality regardless from linen type and linen thickness.

In case of a jam or emergency stop, or when opening the safety guards, the gap between the rollers

at the 1st cross fold opens automatically, allowing the operator to easily remove the linen. The optional cross fold sections are recommended for heavy materials and for top-quality purposes, using well-proven techniques as follows.

- 11 A knife between the pinch rollers at the 1st cross fold is recommended for heavy linen such as duvet covers and table linen.
- 12 A reversing conveyor and a knife at the 2nd cross fold is recommended if an even higher folding quality is required and when heavily starched linen as well as very heavy duvet covers are being processed.
- 13 EN-fold with knife at the 3rd cross fold is the standard solution for half folds of all types of linen.



HMI PLC and control system equipped with touch-screen

The HMI control system features a fast and accurate processor, an easy-to-use man-machine interface and multi-language facilities.

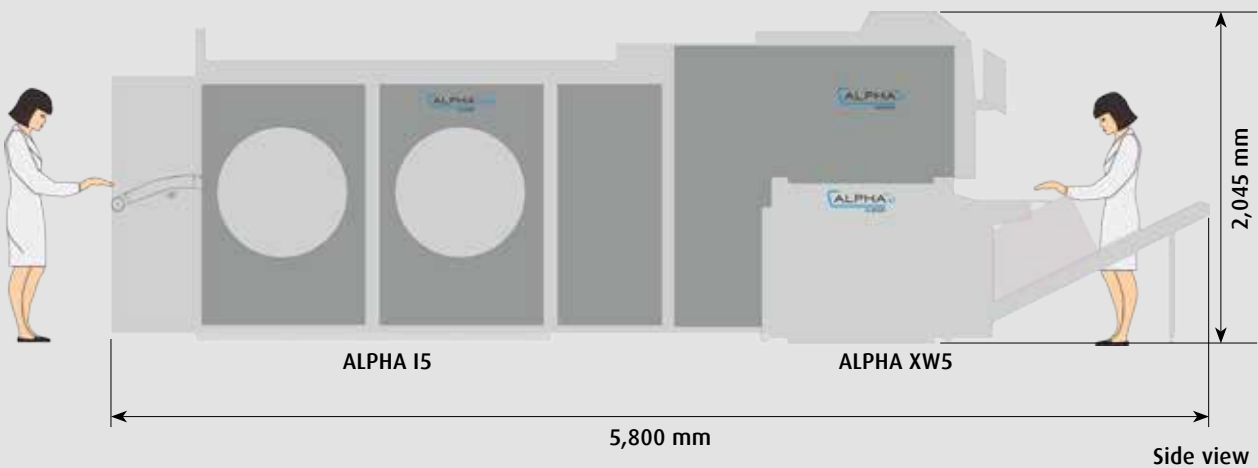
High capacity and high stacking quality with the optional ALPHA SW5

The ALPHA SW5 is a simple and reliable drop stacker, which over the years has proven its reliability in thousands of installations all over the world. The ALPHA SW5 is controlled by the folder's program. When adding the ALPHA SW5 to the ALPHA SW5, a high and uniform stacking quality on limited floor space is guaranteed.

14 ALPHA XW5 finishing line

When combining the ALPHA XW5 with an ALPHA by JENSEN ironer, the output of the ironer line will be increased. Furthermore, the ALPHA XW5 delivers a constant and uniform folding quality, providing the same high finish-

ing quality every day. The linen can be delivered on a stacking table 15 for manual stacking, or stacked on the ALPHA SW5, delivering the stack on a delivery conveyor. 16 In any case, unfolded linen or linen having received primary folds only, can be led to the rear table. 17



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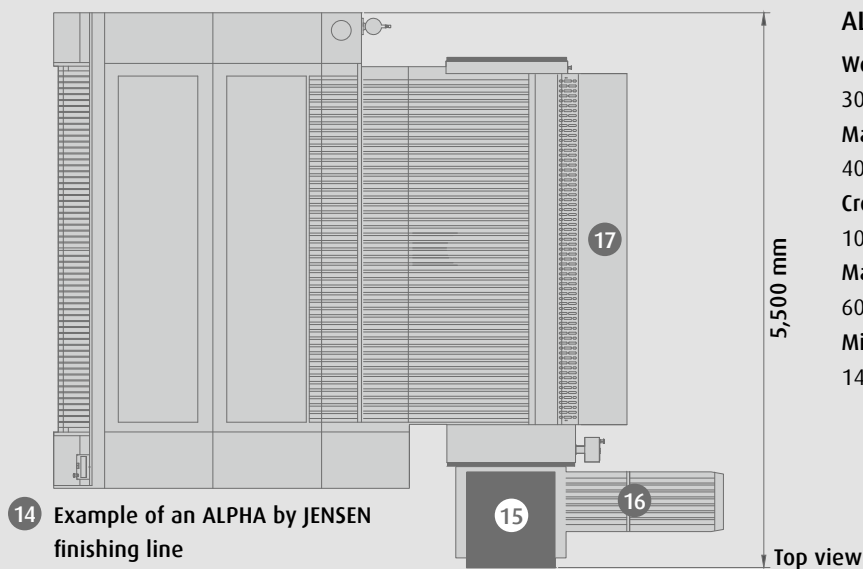
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Local contact

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ALPHA XW5 models and capacities

Working widths:

3000, 3300 and 3500 mm.

Maximum linen length:

4000 mm.

Cross fold opening:

1030 mm.

Maximum speed:

60 meters per minute

Minimum speed:

14 meters per minute