

Jenrail 2000 Automatic

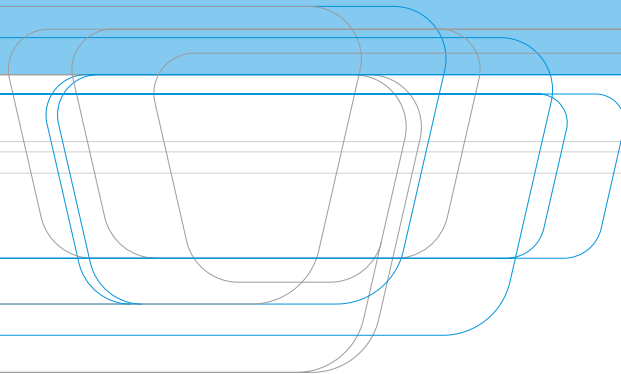
Remote preparation and buffer for
automatic feeding of large pieces



Main components

- A** Delivery conveyor
- B** Loading stations
- C** Buffer lines
- D** Deloading stations
- E** Automatic feeder

A buffer of sorted and ready linen placed in front of a fully automatic feeder even-out disturbances in the production line (service on machines, an operator leaving a workstation, stop of linen flow to the operators etc.) as it allows you to put extra pieces into the system when you have the capacity to do so, thus the capacity of the feeder can be fully utilized. The Jenrail 2000 Automatic system gives you this possibility as the number of loading stations is independent of the feeder and need not be operated all the time.



Jenrail 2000 Automatic

Continuous flow to the feeder

1 Remote feeding

The loading stations are placed at a distance from the feeder. At the loading station, the clamp's bar code (optional) is married to the category and finishing code given by the operators or by an automatic size identification by photocells. Clamp information is then stored in the control system's backup function, to control operation and to be able to restore information e.g. after power failure. A Tag or bar code reader placed in front of the bufferlines controls that linen is led into the correct buffer lines in the right sequence. Just before the transfer to the feeder another bar code reader controls and transfers the finishing code to the feeder.

1 concept 3 solutions



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2 Alternative A

Loading into single clamps

The single clamp solution is the preferred solution when feeding wide, large-pieces of bed linen in one lane operation into the Logic Automatic feeder family, as the second corner of the linen is presented to the operator after the first corner has left the feeding position. When the first corner of the linen is clipped into one of the two single clamps, the clamp lifts the linen, thus presenting the second corner to the operator. When both corners are clipped into both clamps, the linen is transferred into the tandem clamp of the buffer line through a transfer station.

3 Alternative B

Loading into tandem clamps

Loading into the tandem clamp is the preferred solution for feeding mixed production of sheets, duvet covers and table linen into the Logic Automatic feeder family. The system provides low cycle time and good ergonomics with height-adjustable feeding position. When both corners are clipped into the tandem clamp, the clamp is led into the bufferline.

4 Alternative C

Cornerless feeding

The cornerless feeding concept for feeding of sheets was introduced by JENSEN in 1994, and it has proven to be the fastest feeding concept as the operator needs not find the corners of the linen. The hem of the linen is fed into the feeding bill, and start is automatically activated, transferring the hem of the linen into the tandem clamp and lifting it up into the bufferline.

All JENSEN's Jenrail systems are based on the concept of using one clamp only to transport one piece of linen as this concept reduces the risk of jams considerably compared to traditional single clamp solutions.



7 Tandem clamp for clamp feeders

8 Tandem clamp for "cornerless" feeders



9 Deloading to clamp feeder



Deloading to "cornerless" feeder



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5 Master station

One of the remote feeding stations works as a master station, controlling all feeding stations in a remote feeding system (change of batch, customer, article, etc.) The master station is supplied with the Jentrol MMI operator panel with touch screen, ensuring easy control in up to 99 categories. All feeding stations can be supplied with sorting buttons for repair or rewash (option).

6 Measuring linen length (option)

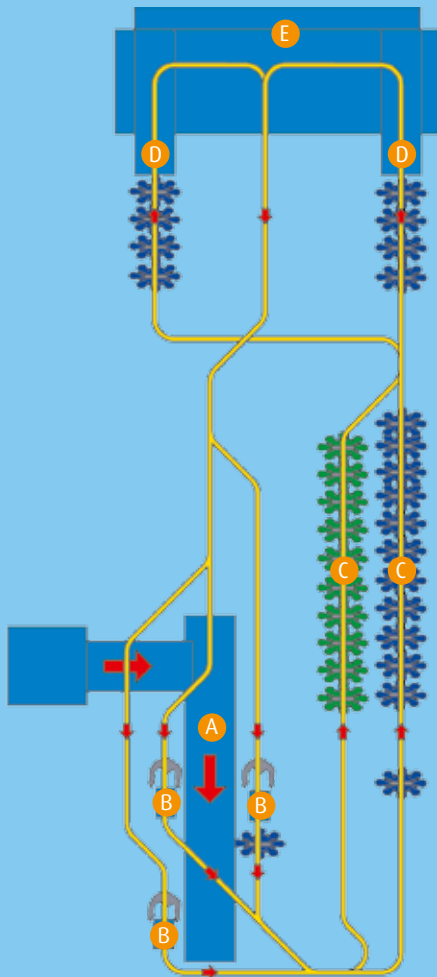
Automatic sorting according to linen size is possible by means of photocells measuring the length of the linen. The photocells are placed on the feeding station of the Quick Automatic, or on a special measuring station placed in front of the Logic Automatic feeder family.

7 8 Unique tandem clamp

The unique tandem clamps are equipped with running wheels as well as guiding wheels for smooth and noiseless transport. After feeding, the tandem clamp carries the linen on specially designed extruded aluminium rails and through switch tracks to the buffer lines in front of the automatic feeder. JENSEN was the first to introduce the tandem clamp for rail transport. The tandem clamp is easy to transport as synchronisation is built in (one clamp carries one piece of linen), and it offers the possibility to inspect the linen by the operators. Finally it gives double storage capacity per buffer rail meter compared to traditional single clamp solutions, allowing you to save space or increase the number of sorting lines.

9 Deloading and transfer

The deloading stations are supplied with a built-in buffer, ensuring that a new piece is always hanging ready near the transfer position for transfer. Transfer to the automatic feeder is carried out fast and efficient by means of a photocell controlled separator on the deloading station, which lets in one clamp at a time to the transfer position.



Main components of example layout comprising 2 bufferlines for sorting

- A Delivery conveyor
- B Loading stations
- C Buffer with two sortings
- D Deloading stations
- E Logic Automatic Feeder*

* JENSEN offers a broad range of Automatic Feeders. Please consult JENSEN and require a brochure on each individual JENSEN feeder.

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10 Logic Plus Automatic feeder

Multi-purpose large-piece feeder for 1 or 2-lane operation, or combined 1 and 2-lane operation. Typically used for feeding of sheets, duvet covers and table linen in combination with remote feeding stations type 2 or 3. Optional pivotable deloading stations of the Jenrail 2000 Automatic system allow small-piece feeding into the feeder.

11 Logic 2000 Automatic

Large-piece feeder for 1 or 2-lane operation. Typically used for feeding of sheets and duvet covers in combination with remote feeding stations type 2 or 3.

12 Quick Automatic

Large-piece feeder for 1-lane operation. Typically used for feeding of sheets in combination with cornerless feeding stations type 4.

13 Manual feeding

Manual feeding into a feeding station at the feeder is optional, and gives the possibility to feed small batches of linen from a trolley. It also allows you to re-feed a dropped piece directly at the feeder instead of transporting the piece back to the remote feeding station, maintaining customer integrity.

14 Small-piece feeding

Optional pivotable deloading stations of the Jenrail 2000 Automatic system allow small piece feeding into the Jenfeed Logic Plus Automatic as shown on the next page. With this flexible, multi-purpose solution you can feed large pieces into the buffer lines while feeding small pieces directly into the Logic Plus Automatic feeder.

Low noise level

By using tandem clamps equipped with guiding wheels running in extruded aluminium rails, and loading stations and switch tracks equipped with low-friction materials, the Jenrail 2000 Automatic system has a very low noise level. By positioning the loading stations at a distance from the ironerline, the noise level around the operators is reduced even further, giving optimum working conditions for the operators.



Control centre of the Jenrail 2000 Automatic system with Jentrol HMI PLC and touch screen.



Optional pivotable deloading stations of the Jenrail 2000 Automatic system allow small-piece feeding into the Jenfeed Logic Plus Automatic

Jentrol HMI PLC and control system

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. The Jentrol HMI is prepared for the COCKPIT management information system comprising real-time visualization of production status, resources and maintenance status.

Detailed information of up to 99 different categories, informing about:

- Minutes in operation since reset of category
- Piece count per category, in total, per station, rewash, and repair
- Events, such as jam, recent alarms, and errors

Installation

JENSEN is pleased to assist you in planning your laundry by providing excellent advice, layouts and technical data. Authorised 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 Centres 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

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Explore our equipment on **YouTube**
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