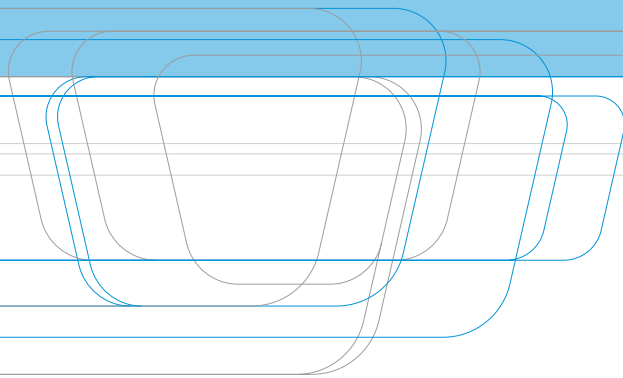


Jenroll EX

Designed and equipped for
integrated finishing lines





Jenroll EX

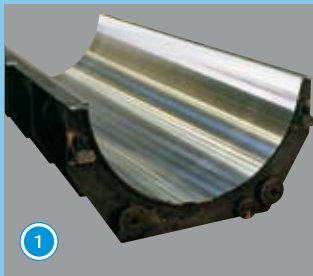
Designed and equipped for
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High evaporation

In order to realize the highest possible evaporation, it is essential to optimize the heat transfer from steam to linen. JENSEN has carried out extensive studies and tests into new methods of conducting the steam through the chest. The key to an optimal heat transfer is a turbulent steam flow combined with a chest made of carbon steel material. Carbon steel has a thermal conduction which is four times higher than that of stainless steel, reducing energy consumption as a result of the more efficient heat transfer to the linen. The turbulent steam flow inside the steam distribution channels flushes away the condensate from the surface, ensuring that no insulation water film will arise. This turbulent flow is a result of the high velocity of the steam in the chest of the Jenroll EX.



Steam side



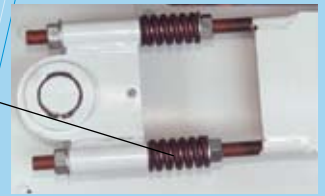
Heavy-duty class chests made of high-grade carbon steel



The EX roll made of perforated steel plate

3

Spring in roll arms



4

Special chest support bolts



5

Steam pipe



6

Exhaust control



1 Chests

Chests and gap pieces are made of top grade steel plates and annealed at a high temperature. The chests receive an extra fine polish to ensure trouble-free commissioning and a longer life for both the padding and the ironer tapes. The ironing is performed with iron, because this metal gives optimum thermal conduction and a **low friction** with wet linen, resulting in a nice finish of the linen. The low friction also reduces the wear of padding, ironing tapes and linen.

2 Rolls

The EX rolls are made of perforated steel with support rings welded to the inner side. The rigid design ensures an even and stable ironing pressure over the entire surface. .

3 Spring in roll arms

Spring in roll arms let rolls lift and let smaller lumps of linen pass without making any deformations.

4 Special chest support

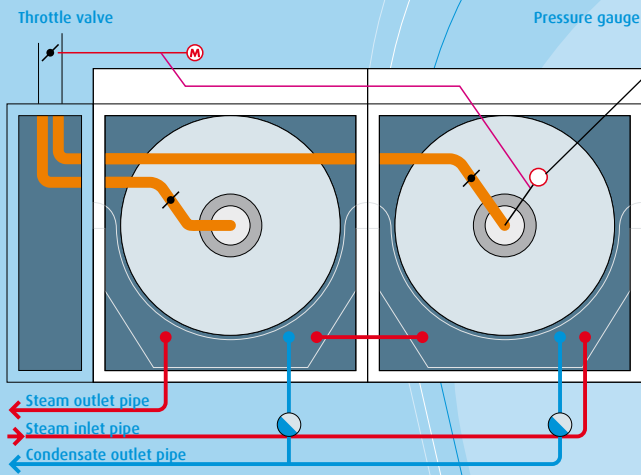
Should a major jam occur, the deformation power is transmitted to the special chest support bolts which will break - leaving the chest and side frames intact and without any deformation. Afterwards, it is easy to reposition the chest and replace the support bolts. An electronic jam alarm is a standard feature, if the ironer is in line with a JENSEN feeder and folder.

5 Piping

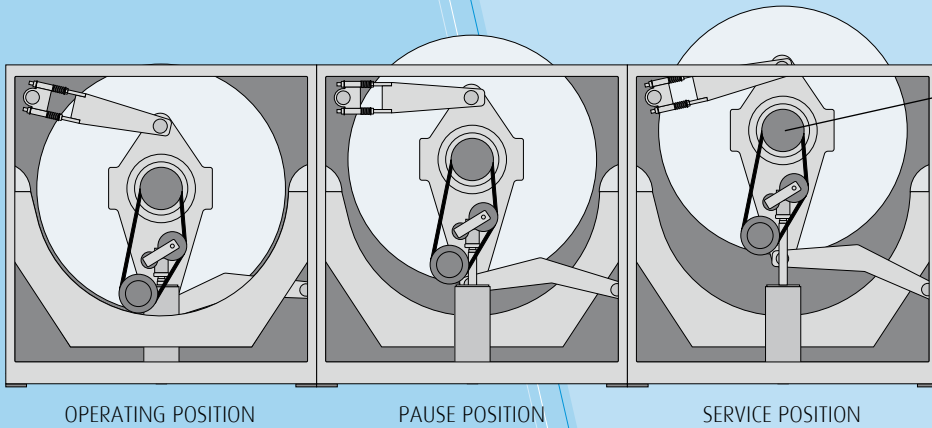
All pipe connections are flanged and are easily accessible from the left-hand side of the ironer.

6 Exhaust control

Exhaust control is essential to adjust each EX roll to the optimal vacuum in order to prevent the padding from becoming moist and at the same time the EX roll from cooling down. The convection losses will be reduced to a minimum if they are adjusted to this optimum. In the Jenroll EX the exhaust is affected by a fan on each EX roll with a manually adjustable throttle valve, which is connected to the main exhaust duct at the rear of the ironer.



Pressure gauge and motor driven throttle valve:
- maintains a fixed vacuum



Center-positioned heavy-duty class EX rolls with planetary drives give:
- no counter torque and lifting of rolls
- even and stable ironing pressure
- top finish
- minimum tape breakage

7 Pressure gauge and throttle valve

An optional automatic exhaust control can be installed, using a pressure gauge in the first EX roll. This controls a motor driven throttle valve in the main exhaust outlet, to maintain a fixed vacuum in the first roll, which is approximately 0.5 mbar lower than the surrounding air.

8 Planetary gear

Using planetary gears on each roll is a principle, which JENSEN has applied for years. The planetary gear minimizes the counter torque and prevents the rolls from lifting up. Due to this, the EX rolls will stay in their centered position without the application of a vertical force on the drive side. The air

cylinders, which are placed on both sides of each EX roll, control the ironer pressure and lower and lift the EX rolls. Both cylinders receive compressed air from the same solenoid valve, ensuring the same pressure on both sides of the rolls.

9 Centered positions of the EX rolls

Due to the special lever system, the EX roll is always kept in a centered position, and thus always conducting an equal pressure over the entire surface. Even in the pause position the EX roll is centered ensuring good access.

Variable speed

All Jenroll EX ironers are equipped with AC motors with a frequency inverter, which allows variable speeds as a standard feature.

The speed range can be set to suit the capacity of the ironer. The inlet table has a separate drive with a frequency inverter. A **remote control unit** for the drive motor is provided for use when changing ironer tapes. An optional individual tape tensioning device, one per EX roll, is available for the Jenroll EX. This system reduces the ironer tape breakage and improves the finishing quality. To prevent the tapes from breaking at startup, the EX rolls are lowered one by one starting with the last one. The distance of the tapes can be set individually.





Jenroll EX

· the finishing line philosophy

JENSEN develops and delivers equipment according to the “Finishing Line Philosophy” that claims that a finishing line should form one single system, as explained in the six steps below:

Easy to install

Each Jenroll is equipped with an integrated finishing line control, so that both feeder and folder can be easily connected. The Jenroll serves as a distribution center for all energy supplies to the other equipment in the finishing lines.

Easy to operate

It is possible to control the entire finishing line from the control panel of the feeder. By changing the operating program of the feeder, the speed of the finishing line and the folding program are automatically changed.

Easy to control

Both the main and the analog control panels can monitor the performance of the ironer.

The control panels will give the following information and warning in one view:

- Speed indication
- The current (ampere) used by the drive motor (indication starts flashing when waxing is needed)
- Temperature of exhaust and condensate
- Steam, inlet pressure
- Ironing pressure
- Warning light of cold chest
- Warning light of low air pressure

Easy to maintain

By using maintenance-free technologies such as V-belts, frequency inverter, etc., the only maintenance left is keeping the ironer clean and changing the oil of the gearboxes.

High availability

JENSEN has insisted on the highest standards of design and components for the Jenroll EX. Main components, such as the chest, rolls, motors and cylinders, are built by reputable suppliers in accordance with JENSEN’s specifications and quality assurance.

Operator safety

When one of the guards or emergency buttons in the finishing line is activated, all rolls are raised and stopped immediately. All machines in a finishing line are connected in the same emergency stop circuit, which means that in case of an emergency stop, the entire finishing line will stop.



Integrated small-piece feeder



Integrated small-piece feeder.

JENSEN supplies a wide range of small-piece feeders that can be integrated into the ironer. Each feeder can be configured according to customer requirements, thus ensuring optimum performance and top-quality feeding in 2-6 lanes. Please consult JENSEN for further information.

Models and roll diameters

800, 1000, 1200 mm.

Number of rolls per machine: 1-4

Working widths:

From 2500 to 4200 mm.

Heating medium: steam or oil.

Installation

JENSEN is pleased to assist you in planning your laundry providing excellent consulting, layouts and technical data. Authorized JENSEN distributors or JENSEN engineers should carry out the installation to ensure the correct performance.

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