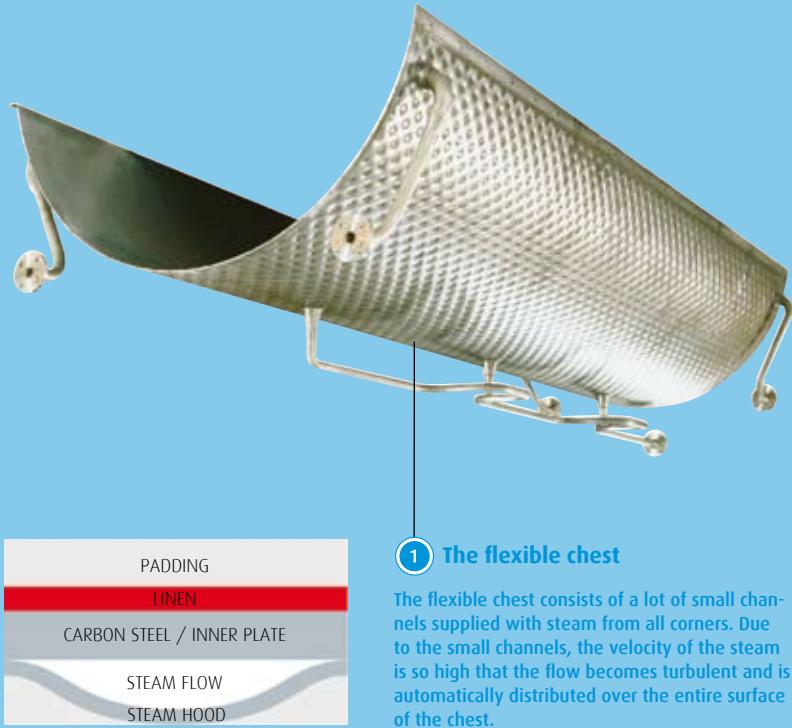




Jenroll EXPress

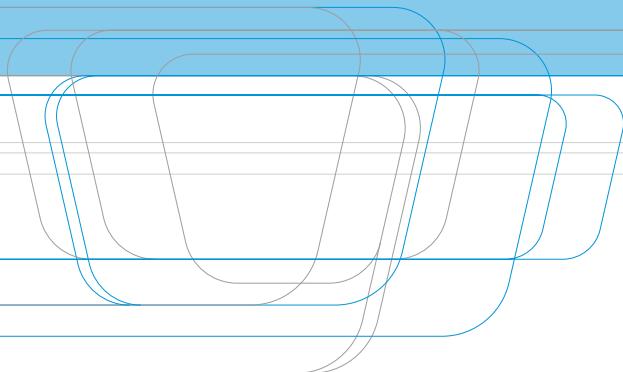
Optimized evaporation capacity
for integrated finishing lines

JENSEN
®



1 The flexible chest

The flexible chest consists of a lot of small channels supplied with steam from all corners. Due to the small channels, the velocity of the steam is so high that the flow becomes turbulent and is automatically distributed over the entire surface of the chest.



Jenroll EXPress

Optimized evaporation capacity
through the flexible chest



A traditional fixed chest loses contact when the padding wears out and the roll diameter is reduced.



A traditional fixed chest ironer requires 3 rolls and thus more space in order to evaporate the same amount of water as the 2 roll Jenroll EXPress incorporating the flexible chests.



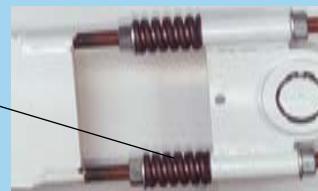
The vertical pressure of the roll on the chest makes the sides of the flexible chest press to the roll and results in a uniform pressure over the entire width of the chest.



Being shaped around the roll, the flexible chest of the Jenroll EXPress evens out the reductions in the roll diameter. By doing this, a full contact angle is guaranteed. As a result of this stable contact angle you will experience a 50% higher evaporation capacity over time than with a traditional ironer incorporating the fixed chest.



2 Roll with planetary gear



3 Spring in roll arms



4 Steam pipe



5 Exhaust control

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 flexible 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.

A 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 flexible chest of the Jenroll EXPress.

1 Chests

The flexible chest consists of two layers of sheet metal welded together in a matrix pattern by a laser. This sandwich plate is rolled to the roll diameter and blasted with high pressure, thus forming small steam channels between the weldings. The flexibility of this sandwich construction allows the adaptation to the reduced roll diameter. 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. Due to the relatively low weight of the flexible chest it can be heated in a fraction of the time and with a fraction of the energy required to heat a traditional chest. Thus, the temperature of the chest can quickly be changed when the production is switched from cotton to viscose.

2 Rolls

The 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. After welding, all rolls are machined to size.

3 Spring in roll arms

Spring in roll arms let rolls lift and let smaller lumps of linen pass without making any deformations. Should a major jam occur, special chest support springs will absorb the power, leaving the chest and side frames intact. An electronic jam alarm is a standard feature, if the ironer is in line with a JENSEN feeder and folder.

4 Piping

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



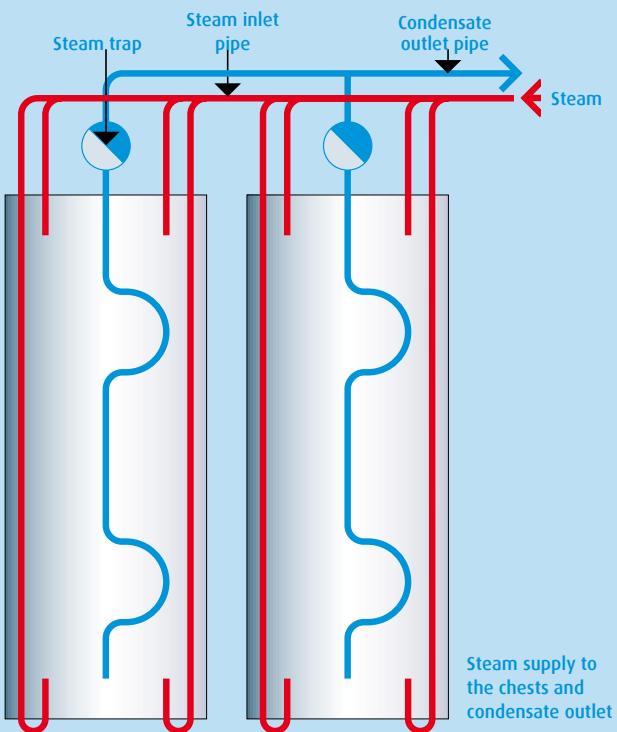
7 8

Drive side



6

Steam side



5 Exhaust control

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

6 Pressure gauge and throttle valve

An optional automatic exhaust control can be installed, using a pressure gauge in the first 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.

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

8 Centered positions of the rolls

Due to the special lever system, the 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 roll is centered ensuring good

access. To prevent the tapes from breaking at startup, the rolls are lowered one by one starting with the last one. A remote control unit for the drive motor is provided for use when changing ironer tapes.

Variable speed

All Jenroll 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.

Jenroll EXPress

· 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:



A 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.

B 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.

C 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

D Easy to maintain

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

E High availability

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

F 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 configurated 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:

31,5", 39,4" and 47,2"
(800, 1000, 1200 mm.)

Number of rolls per machine: 1-3

Working widths:

From 98,4" to 165,4" (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