

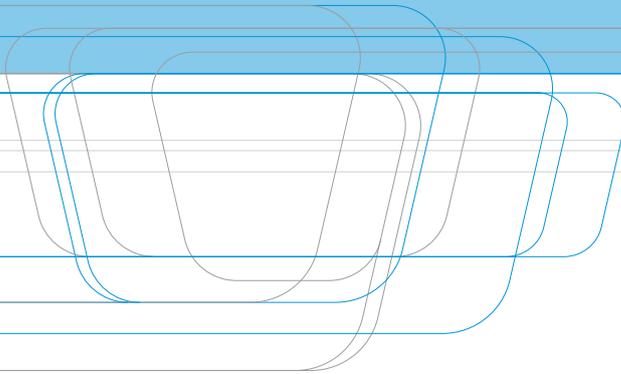
Jenroll EXPress 2000

Top-quality finishing
on limited floor space

JENSEN



Top-quality finishing at a royal level



Jenroll EXPress 2000

Optimized evaporation capacity
through the flexible chest



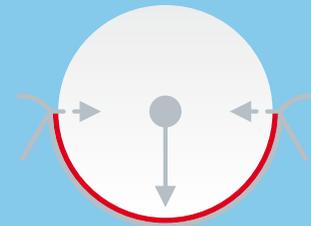
Optimum evaporation capacity and top-quality finishing

In order to realize the highest possible evaporation, JENSEN has carried out extensive studies and tests into new methods of conducting the steam through the chest.

The key to an optimum heat transfer is a turbulent steam flow combined with a flexible chest made of carbon steel material, as this metal gives optimum thermal conduction and a low friction with wet linen. The low friction reduces power consumption and wear of padding and linen, and it gives a nice finish to the linen. Furthermore, one roll only eliminates the need of ironer tapes, thus no ironer tape marks are found on the linen.



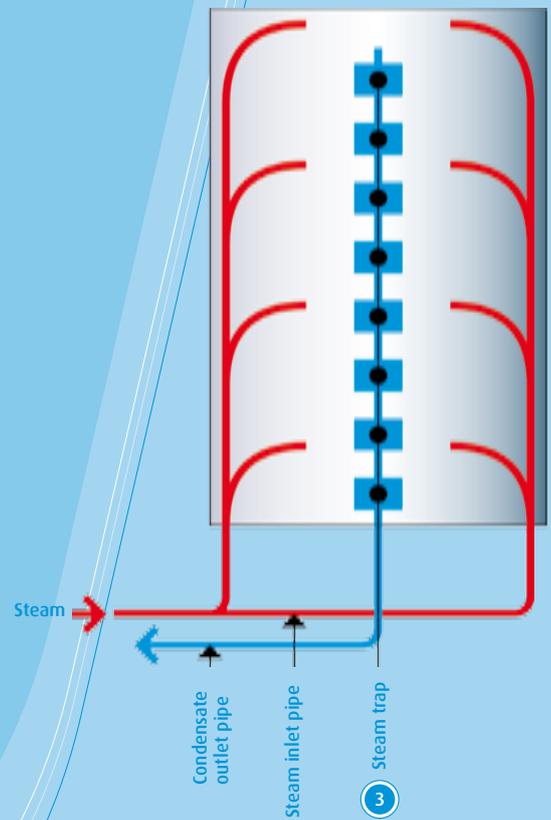
① The flexible chest consists of two layers of sheet metal welded together. The flexibility of this sandwich construction allows the adaption to the roll diameter.



② 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.



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



① Flexible chest

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. 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. The inner plate of the chest is made of carbon steel material, as this material has a low friction with wet linen and a thermal conduction which is four times higher than that of stainless steel, ensuring optimum heat transfer to the linen. The outer plate forming the steam hood is made of stainless steel, ensuring optimum corrosion resistance when combined with carbon steel. (Jensen patent).

Low weight

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 be quickly changed when the production is switched from e.g. cotton to visa.

② Optimum contact angle

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

Being shaped around the roll, the flexible chest of the JENROLL EXPRESS 2000 evens out the reductions in the roll diameter. By doing this, a full contact angle is maintained, resulting in up to 50% higher capacity over time compared to a traditional ironer incorporating the fixed chest.

③ High evaporation

Due to the higher evaporation capacity of the large diameter roll, the JENROLL EXPRESS 2000 evaporates more moisture than a traditional ironer incorporating a chest of a smaller diameter. This moisture is led through flange mounted steam traps positioned below the chest.

④ Exhaust control

The exhaust control adjusts the 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 with a manually adjustable throttle valve, which is connected to the main exhaust duct at the rear of the ironer.

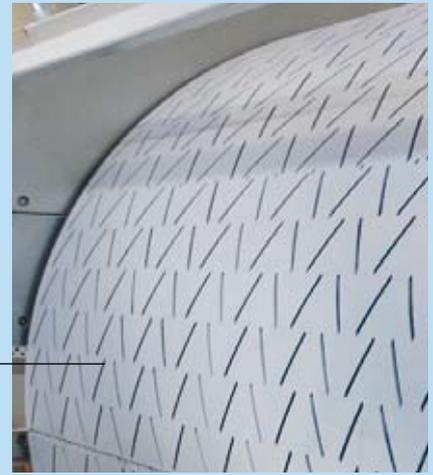


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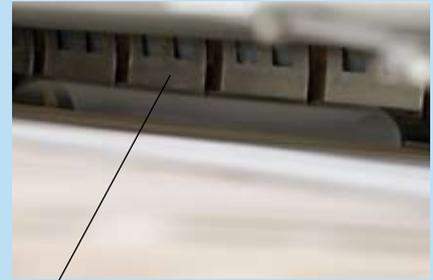


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5 Rigid roll design

The roll is 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, ensuring optimum contact to the chest.

6 Special lever system

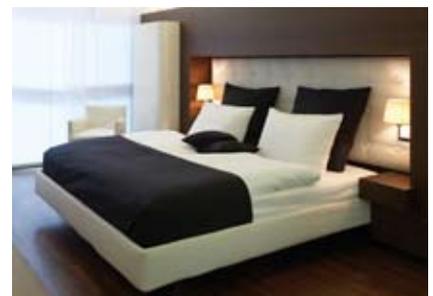
A special lever system keeps the roll in a centered position, and thus it always conducts an equal pressure over the entire surface. Even in the pause position the roll is centered ensuring good access. The air cylinders, which are placed on both sides of the roll, control the ironer pressure and lower and lift the roll. Both cylinders receive compressed air from the same solenoid valve, ensuring the same pressure on both sides of the roll.

7 Combined drive motor and planetary gear

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

8 Top-quality finishing

One roll only means no gap piece between rollers, thus no ironer tapes are required. By using scraper plates instead of ironer tapes to release the linen from the roller at the outlet, no ironer tape marks are found on the linen, which is of special interest to laundries processing table- and bed linen requiring top-quality finishing.



Jenroll EXPRESS 2000 · 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 centre for all energy supplies to the other equipment in the finishing line.

B Easy to operate

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

C Easy to control

Both the main and the analogue 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

One roll only means one padding only and less mechanical parts in general.

By using maintenance-free technologies such as e.g. combined drive motor and planetary gear, frequency inverter, etc., the only maintenance left is keeping the ironer clean and changing the oil of the gearbox.

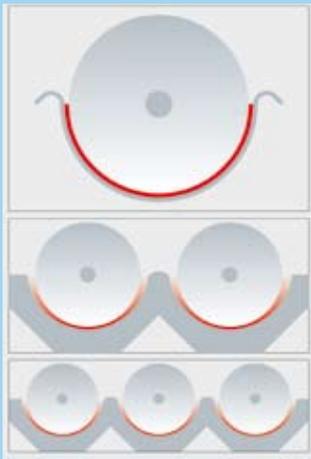
E High availability

JENSEN has insisted on the highest standards of design and components for the Jenroll EXPRESS 2000.

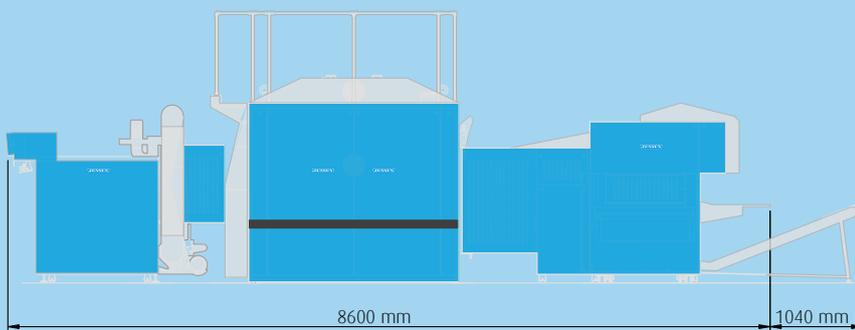
Main components, such as the chest, roll, motor and cylinders, are built by reputable suppliers in accordance with JENSEN's specifications and quality assurance.

F Operator safety

When one of the guards or emergency buttons in the finishing line is activated, the roll is 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.



9 Jenroll EXPRESS 2000
- a space-saving solution.



9 Space saving solution

The Jenroll EXPRESS 2000 is a space saving solution as the performance of a large diameter roll and a flexible chest makes it an alternative to a 2x1200 or 3x800 ironer incorporating fixed chests.

Working widths and roll diameter:

Roll diameter: 2000 mm.

Working widths:

From 3000 to 4000 mm.

Heating medium: Steam*

*) As an option, the flexible chest is

available for oil heating instead of steam.

By using oil as the heating medium, a higher temperature and output is possible.

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

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