

## Growing demand for the brand new versatile feeder

### LATEST INNOVATIONS The Logic Plus turned out to be a bestseller

After the first introduction of the Logic Plus to JENSEN customers at the Innovation Days in September 2006 and the first presentation in public at the Expodetergo in last November, 47 machines have been sold around the laundry world. Initial and the main French rental groups are already operating the Logic Plus.

In this section we will go deeper into details of the new Logic Plus. The successful installation of more than 700 Logic feeders and 850 Variant feeders was the basis of the development of the new JENSEN Logic Plus feeder with pivoting «Soft-Touch» spreading clamps.

#### The first feeder with pivoting «Soft-Touch» spreading clamps

The new JENSEN Logic Plus feeder is the first feeder in the world with pivoting «Soft-Touch» spreading clamps, combining the advantages of a height-adjustable vertical feeding position and the horizontal transfer technique well known from the JENSEN Variant feeders. The result is a very high capacity of up to 1050 pieces in 1-lane production, and up to 1800 pieces in 2-lane-production and the feeding quality is on the highest level in the industry. The new JENSEN Logic Plus feeder is a highcapacity, versatile large and small-piece feeder with front-loading for large-piece feeding of sheets, duvet covers and table linen. It also offers a high-positioned vacuum box, which can be lowered when feeding small pieces in 3 to 5 lanes. In large-piece feeding it is available with 3 or 4 feeding stations to serve in 1, 2, or combined 1 and 2 lanes.

#### Optimum grip and optimum delivering angle

After clipping the two corners of the linen into the feeding clamps, the linen is lifted to a high position, and transferred into the new «Soft-Touch» spreading clamps. This is a brand new technique (patent pending) introduced by JENSEN. The new «Soft-Touch» spreading clamp features new capabilities compared to traditional spreading clamps, as it works by means of an air cushion. When receiving the linen, the fixation of corners in the spreading clamp is gently applied by different air pressures, and automatically adapts to various linen thicknesses according to category, ensuring at all times an optimum grip to the linen. The clamp's ability to pivot from a vertical receiving position to a horizontal transfer position ensures a straight leading edge, as the weight is taken off the leading edge. A brush on the clamps will then straighten out corners when the clamp moves sideways during transfer of the linen to the vacuum beam. The vacuum beam is divided to work in combined 1 and 2-lane operation, and ensures top-quality feeding into the machine.



Logic Plus demonstration in large-piece mode at the Expodetergo in Milan, November 2006.



Step 1: Two corners are clipped into the height-adjustable feeding clamps.



Step 2: Transfer from feeding clamps to the «Soft-Touch» spreading clamps.



Step 3: The «Soft-Touch» spreading clamps pivot to a horizontal position.



Step 4: Fast, yet gently spreading of the linen onto the vacuum beam.

### Optimum treatment with high-positioned vacuum box

The JENSEN Logic Plus feeder is supplied with a high-positioned vacuum box for large pieces to treat the trailing edge and to stretch the linen, while spreading belts and spreading brushes take care of the side edges. By lifting the leading edge of the linen to a high transfer position, while sucking down the rear edge of the linen into the vacuum box at the same time, the spreading belts and brushes can treat the side edges of the entire length of the linen. Furthermore, by sucking the rear edge into the vacuum box, the piece is moved away from the spreading area, which optimizes production as it allows a new piece to be spread and centered while the previous piece enters the machine. Furthermore a high transfer position may eliminate the need of a pit in the floor.

### Optimum ergonomic working conditions

In large-piece mode the height-adjustable feeding clamp technique, well known from the JENSEN Logic family, allows adjustment of the feeding height to fit each individual operator, giving optimum ergonomic working conditions for the operators in front of the stations. The concept is still unique in the market and patented by JENSEN. In small-piece mode the top of the feeder moves back, and the feeding clamps move up. The position of the inlet conveyor controls the position of the pick-up rollers and the vacuum box, which all move down in small-piece mode. The spreading belts used in large-piece mode only, stop while spreading plates are activated in each lane. Each lane is supplied with its own spreading plate, which can be coupled to work in more lanes, the feature being well known from the JENSEN Variant feeder range. By moving the top of the feeder away in small-piece mode, no mechanical parts are located above the operators when they stand in front of the machine.



Logic Plus operation in small-piece mode.

### Easy to control by PLC-control system with touch-screen

Accurate feeding requires ultra fast and accurate control. The JENTROL 266 M PLC-control system represents the latest and most advanced PLC-control system with touch screen allowing optimum control of the feeding parameters. On high-quality ironer lines especially, it is an all-important factor to ensure the accuracy of the feeding, spreading and vacuum functions, and the right speed and control through the entire ironer line in general. The JENTROL 266M control system features a fast and accurate processor, an easy-to-use man-machine interface, multilanguage facilities and an option for remote system service. In addition it can also store historical data, and provide detailed information of up to 99 different categories. The JENTROL 266M is prepared for the state-of-the-art JENVIEW management information system comprising real-time visualization of production status, resources and maintenance status.

## Ambitious objectives for modernization achieved

### REFERENCES The largest hospital laundry in France

**The Service Central des Blanchisseries (SCB) processes linen for Assistance Publique –Hôpitaux de Paris (APHP), a major group of hospitals in Paris. The SCB owns 2 laundries: one called Salpetriere and the other called Mac Donald, where 60 tons a day in total are processed on the average.**

The finishing department for flat work at Salpetriere was equipped with rather obsolete and dissimilar machines. Due to these circumstances the finishing process could not be operated under best conditions in terms of ergonomics and productivity. For this reason, in 2006 SCB submitted a request for proposal (RFP) for the replacement of 5 complete ironer lines with separator, feeder, ironer, folder and stacker per line, plus a blanket folder for the Salpetriere laundry. The RFP also included a feeder and folder for Mac Donald. The RFP for the laundry Salpetriere specified that the linen must be transferred automatically to the dispatch area via 2 automatic packing machines and continue to a motorized roundabout for ergonomically loading the carts utilized for dispatch of linen to the hospitals.



Viking separator with 3 pickers.

**The objectives for modernization were ambitious:**

- Supplying linen separators thereby improving working conditions by eliminating the labor-intensive tasks of pulling linen out of carts manually.
- Improvement of ergonomics through automatic linen transport to the feeders.
- New and high standards for hygiene.
- Tracking of articles.
- Increase of production capacity per day (1 day = 10 hours)

	Previous capacity per day	Future capacity per day
Sheets	22.000	33.000
Draw sheets	16.000	20.000
Pillow cases	8.000	13.000
Blankets	900	2.600

**After a complete survey, JENSEN France submitted a proposal for all equipment except the packing machines.**

- 5 Viking 2000 separators
- 5 Logic S 2000 2 lane feeders
- 5 Express Duo 1200 ironers
- 5 Classic folders with stackers
- 1 blanket folder equipped with tag antenna
- 1 conveyor system to transfer the linen to the dispatch area.
- Plus a Logic S 2000 feeder with a Classic folder for Mac Donald

After a careful technical and financial analysis of the various proposals from the main suppliers of our industry, JENSEN France was selected to provide all the machines and systems that were included in its offer. The total contract volume amounted to 2.385.000 € excluding VAT. We have now reached the end of the acceptance period. Various tests demonstrated that all our commitments are fulfilled and that the machine capacities are in line with the customers' requirements: 1500 pieces/h for draw sheets and 1100 pieces/h for standard sheets with 4 feeder operators feeding in two lanes. The successful realization of this project shows once more the competence of the JENSEN-GROUP to develop complex and outstanding automated laundry systems.



Automated linen transfer from Classic Folders (large pieces), Napkin Bottom-Up (small pieces) and the blanket folder to the Dispatch area .



A complete ironer line: Logic 2000 feeder – Jenroll EXP ironer – Classic Folder with stacker.

## JENSEN operations recently consolidated in Florida

### INTERNAL NEWS Why did JENSEN make Panama City its new USA hub?

**The plant in Panama City was part of Ipso NV, which merged with JENSEN in 2000 under the Laundry Systems Group (LSG) corporate umbrella. At that time, the factory produced only smaller washers. A year later, JENSEN added its L-Tron washer/extractor manufacturing, shifting that work from a leased facility in Cincinnati. This reflected JENSEN's longstanding emphasis on eliminating overhead by combining operations. Similar synergy would result from placing L-Tron together with the Futurail monorail manufacturing. And since JENSEN is going to combine those two, it made sense to move the U.S. Sales and Service headquarters in Fort Mill, SC (near Charlotte NC) to Panama City.**



JENSEN's new USA hub in Panama City.

Today, that consolidation has occurred and the small-washer business has been divested to Alliance Laundry Systems LLC, USA(ALS). ALS purchased LSG's Ipso and Cissell brands July 14, 2006. The old Sales and Service headquarters in Fort Mill had been leased and so had the Futurail monorail factory in Banbury, UK. In contrast, JENSEN owned the Florida facility and with the expansion of this facility to 100,000 sq. ft. (10'000 m2) it is large enough to accommodate all manufacturing of components for Futurail and L-Tron, the assembly of the big washer-extractors and the JENSEN USA Sales and Service Center. By September 2006, the monorail manufacturing location in the U.K. was shut down. As of late November, Futurail had delivered 28 systems from Panama City to locations as far away as Japan and Australia. Building effective monorail systems, like automated garment sorting equipment, requires a great deal of customization. Not only must you understand the process needed to design such systems, you must also understand the process that surrounds the system. The JENSEN-GROUP not only understands laundries, but the Group has excellent engineers that can transfer the operational needs into functional systems. We managed to keep most, if not all of the people we wanted to keep. We have been quite pleased with the relocation of the entire Futurail management corps from the U.K. Some excellent people were recruited locally as well and they have integrated well with the team that relocated from Charlotte and employees that were already stationed in Panama City.

It is highly unlikely that manufacturing monorail equipment in the U. S. has a great impact on customers. Whether we produce in the USA or Europe, the requirements are the same for building the equipment. Because so much of the business is international, JENSEN still has a sale and service team stationed in the U.K., including installation crews, software support, and spare parts inventory, that will provide both sales and technical support to the European Market and will continue to increase our sales activities to the growing Asia/Pacific region. We are treating quality as our top priority, as we always have. As the relocation and ensuing transitions have taken place, JENSEN has accepted a short-term drop in productivity as a means of maintaining high standards of quality. JENSEN's future in Panama City is an open book. Heavy Duty washer extractors and monorails are the big jobs for the factory, but customer feedback ultimately decides the company's future priorities. We invite you to be part of this process. Your feedback of current products is greatly appreciated and you are also invited to propose new ideas for potential new product development.



New manufacturing facility for monorail systems (Futurail) in Panama City.

## Exhibition Schedule

### MEETING POINT

#### **June 3–5, 2007 The Hotel Show in Dubai. U.A.E**

Forum for the hospitality industry in the Middle East Authorized JENSEN distributor: PLET – Al Hathboor Group-LLC

#### **June 11–14, 2007 Clean Show in Las Vegas, USA**

##### **We present:**

Soiled linen sorting and monorail system

Gas Dryer DT 120 with suction system

Extraction Press SEP 90 SHD

Logic Plus Feeder + Classic Folder

Extreme Feeder + Silver line Folder

Olympic Napkin Folder

Bottom Up Stacker

Evolution

Butterfly Tematic Pro

Washer Extractor 450 lbs Auto Pro

JENview

#### **September 19 –21, 2007 Texcare ASIA in Shanghai, China**

New International Convention Center