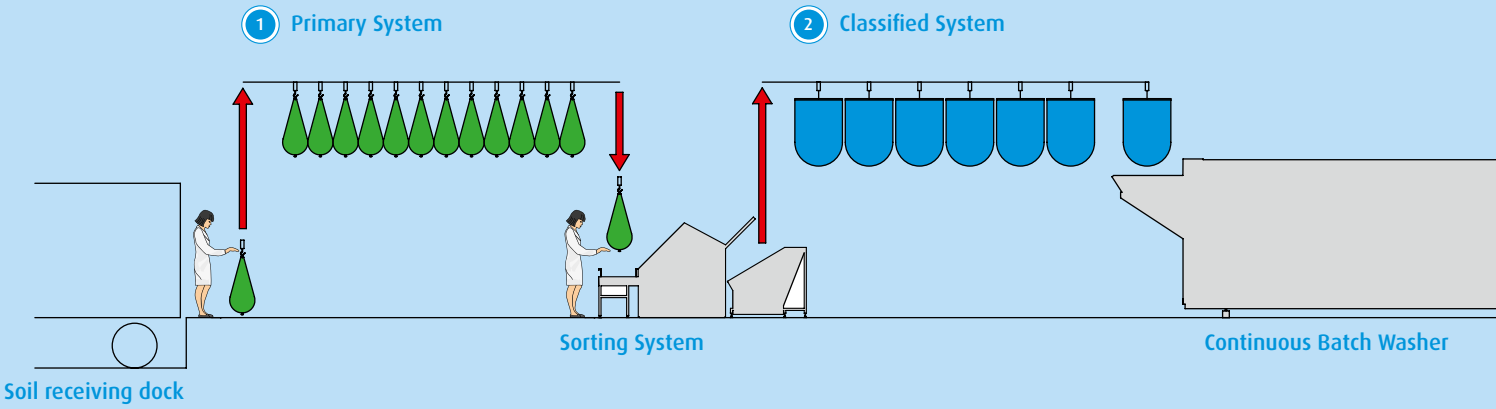
Futurail

Automated Laundry Handling Solutions
For soiled and clean linen

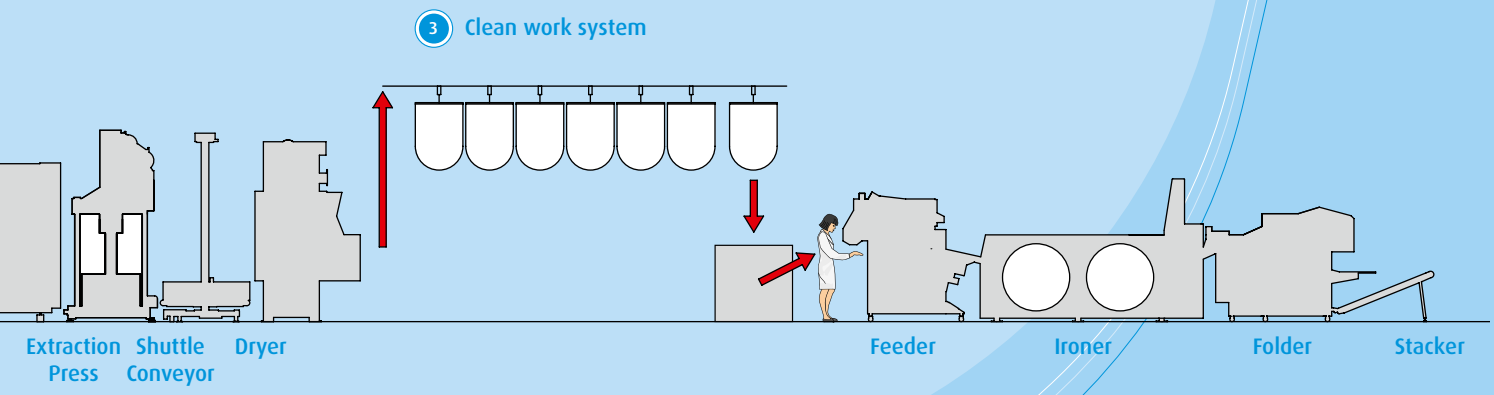
JENSEN®



Futurail

Complete laundry handling

- Soil Sorting Systems
- Post Sorting Systems
- Counting Systems
- Bag Handling and Storage Systems
- Vacuum Transport Systems
- Belt Conveyors



1 Primary System

A primary system represents the first stage in the materials handling process. Unclassified soiled linen is removed from delivery vehicles and loaded onto the Futurail Primary System. It is now quickly and effectively, raised to a storage system, where it waits before being routed to the sorting area.

Key Benefits

- Fast unloading of delivery vehicles
- Segregation of product, customers or routes
- Simple visual check of work available
- FIFO or selective call-off to sorting area

2 Classified System

Once soiled linen has been released from primary storage, it is sorted and weighed (or counted) into batches. These batches are then stored prior to being delivered to the washroom for processing. The wide range of Futurail equipment can handle this entire process.

Key Benefits

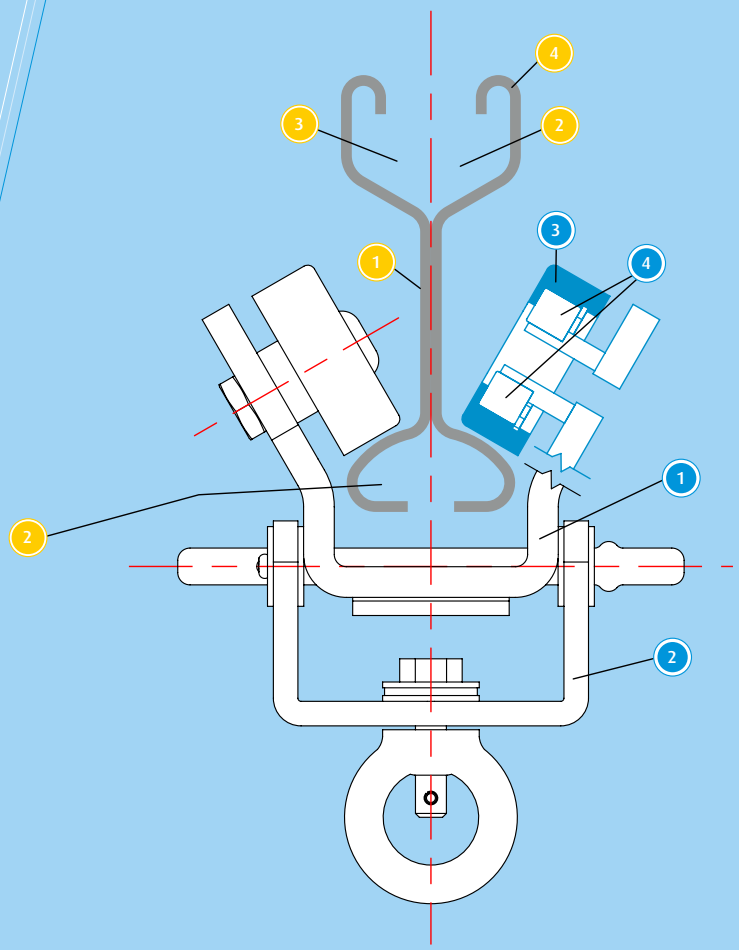
- Sorting and counting systems for ALL applications
- Ability to segregate different customers or routes
- Automatic accumulation of machine loads
- New software to optimize the sequencing of bags to the washroom
- Full tracking of batches from sorting to clean finishing area
- Automatic feeding of washing machines

3 Clean System

Batches of dry or conditioned linen that are discharged from the washroom can be delivered automatically to relevant finishing machines upon demand and according to their classification.

Key Benefits

- Fast and efficient unloading of dryers
- Clean storage helps to ensure a constant supply of work to finishing machines



Rail and trolley specifications

The rail and trolley have both undergone significant upgrades to:

- Increase the load capacity of the system
- Prolong the life of the system
- Improve system reliability and performance
- Reduce maintenance costs
- Be compatible with existing Futurail systems

Rail Key Features

1 Cold-rolled grade 201 stainless steel profile

- Improved system reliability
- Increased load-bearing capacity
- Longer rail life
- Corrosion resistant

2 Rail joints secured top and bottom

- Improved reliability

3 Electrical and pneumatic services are run in the top of the profile

- Faster installations
- Tidier appearance

4 Compatible with old rail profile

- Old Futurail Systems can be extended / upgraded with new rail

Trolley Key Features

1 Pressed 6mm (1/4") steel trolley body

- Increased load capacity

2 Unique lower arm assembly

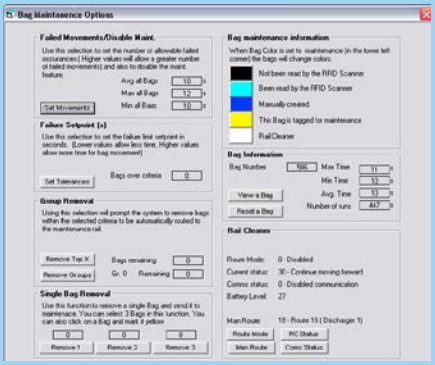
- Trolley body remains perpendicular when bags stop
- Reduced wear and tear on rail and trolley

3 Plastic tires

- Tires can be easily replaced
- Quiet operation
- Prolonged rail life

4 Replaceable bearings

- Reduced maintenance costs



Bag maintenance interface

Rail Cleaner

The Futurail Rail Cleaner is an automatic device that runs continuously to ensure that the running surfaces of the Rail are kept clean. This improves the reliability of the system and reduces maintenance costs.

Friction drive

The unit is powered along the rail by a friction drive. It occupies the same space on the rail as a bag and a sensor causes it to stop when it comes up against a bag.

Battery powered

The unit is powered by two 12V batteries. The charge level is continuously monitored and the batteries are automatically re-charged at the maintenance station at ground level.

Vacuum system to collect debris

Debris is collected from the cleaning brushes by a vacuum head and deposited in a collection chamber mounted on the unit. The unit is emptied at a maintenance station at ground level.

Remote controlled

The unit is controlled remotely from the central Futurail system PLC. The cleaning route, status of the rails, and location of the Rail Cleaner are all displayed on the Futurail PC terminal.

Bag Maintenance

The Futurail Bag Maintenance System automates the removal of bags for preventative maintenance to ensure optimum system performance and reliability. Bags can be called off in the following different ways:

Bag performance

The speed of empty bags is measured and any bags repeatedly falling below a pre-set speed will be automatically called down to a maintenance rail.

By bag number

Bags can be called down to a maintenance rail by bag group. This ensures that a predetermined quantity of bags are called to the maintenance rail each time and that all bags are maintained equally.

Individually by sight

Bags can be called down for maintenance simply by entering the bag number into the system. Typically this facility is used when a bag has some visible defect that requires immediate attention. The system provides a history of each bag that can be accessed simply by clicking on the bag at the control terminal.

Trans-Sort System

The Trans-Sort system is the first system to provide automatic sorting for any batch size up to 120kg / 265 lbs without a sorting platform or an excavation in the ground.

Key Features

Capacity up to 120 Kg / 265 lbs

Sorting operators can work from floor level

- More comfortable working conditions
- Goods can be sorted either from a sorting conveyor or directly from carts
- No platform or excavation required
- Low headroom requirement

Large chute opening

- High sorting productivity
- Excellent sorting accuracy

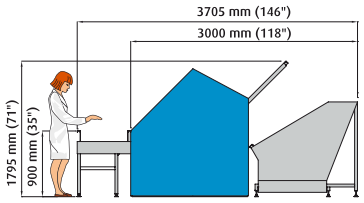
Stainless steel hopper and door construction

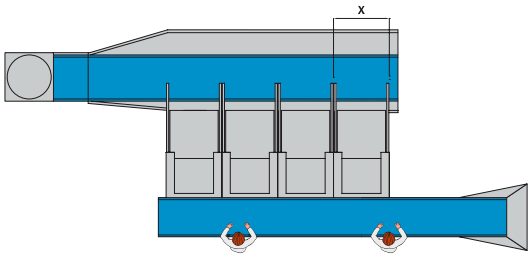
- Corrosion free
- Stations can be easily washed down

Electronic Weighing through industrial load cells

- Accurate batch sizes
- Accurate weigh data for invoicing and production reports

Type	Max. Batch size kg/lbs	Sorting station width x mm/inch
A	50/110	1000/40
B	75/165	1250/50
C	120/265	1500/60





Multi-Sort system

This system is ideal for plants with large numbers of classifications. It lends itself particularly well to a carousel type sorting belt formation in which items that are not sorted are returned to the operators.

Key Features

Capacity up to 120 Kg / 265 lbs

Compact tandem formation

- Savings in floor space

Ideal with Carousel sorting configuration

- High sorting productivity

Large chute opening

- High sorting productivity
- Excellent sorting accuracy

Stainless steel hopper and door construction

- Corrosion free
- Stations can be easily washed down

Electronic Weighing

- Accurate batch sizes
- Accurate weigh data for invoicing and production reports

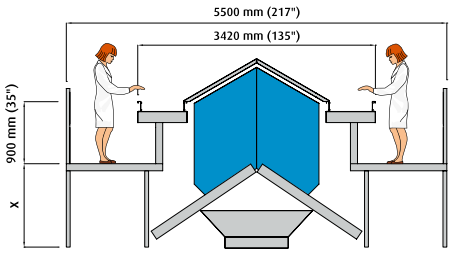
Reduced sorting platform height

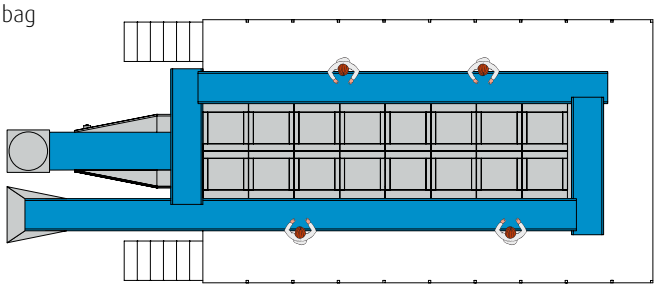
- Comfortable working conditions
- Reduced headroom requirement

Double door design (optional)

- No disruption in sorting during bag changeovers

Type	Max. Batch size kg/lbs	Sorting station width x mm/inch
A	50/110	1500/60
B	90/198	2180/86
C	120/265	2725/108





Tri-Sort system

This unique sorting system significantly reduces the effort of sorting by bringing the rear stations closer to the operators.

Key Features

Capacity up to 120 Kg / 265 lbs

Reduced distance to rear stations

- Less effort required to sort
- Excellent sorting accuracy
- High sorting productivity

Compact design

- Savings in floor space

Stainless steel hopper and door construction

- Corrosion free
- Stations can be easily washed down

Reduced sorting platform height

- Comfortable working conditions
- Reduced headroom requirement

Electronic weighing

- Accurate batch sizes
- Accurate weigh data for invoicing and production reports

Double door design (optional)

- No disruption in sorting during bag changeovers

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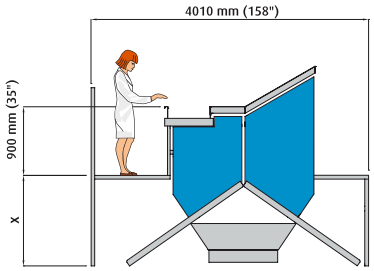
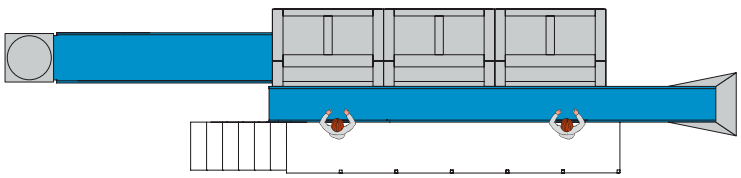




Continu-Sort system

This system includes continuous sorting which makes it suitable for high volume applications. Unlike other FUTURAIL sorting systems, items are sorted directly into bags eliminating the need for a transfer belt conveyor.

Max. Batch size kg/lbs	Sorting station width x mm/inch
50/110	1500/60
90/198	2180/86
120/265	2725/108

Key Features

Capacity up to 120 Kg / 265 lbs

Double door design is standard

- No disruption in sorting during bag change-overs

Large chute opening

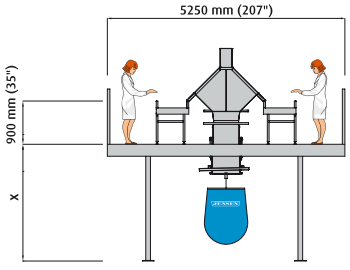
- High sorting productivity
- Excellent sorting accuracy / less re-wash

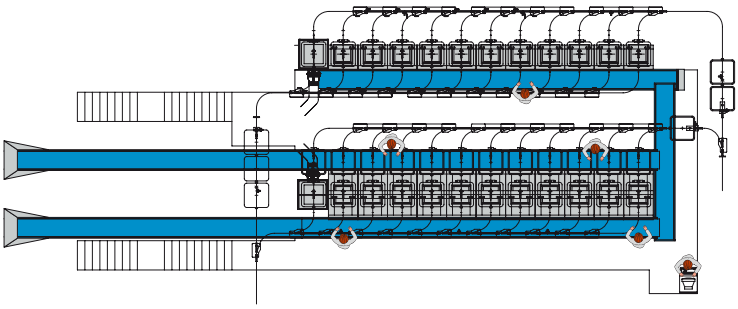
Stainless steel chute and hopper construction

- Corrosion free
- Stations can easily be washed down

Electronic weighing

- Accurate batch sizes
- Accurate data for invoicing and production reports





Vacuum Sorting

Large items are removed prior to sorting with the aid of a vacuum tube and are then accumulated in a weighing hopper.

Large items are removed prior to sorting

- Increased sorting productivity
- Increased sorting capacity

Large items are sorted during the break out process

- Reduced double handling and increased productivity

Vacuum assisted sorting of large items

- Reduced effort required

Sorting Options

Category Display

17" Color Displays are mounted at each sorting station to shows the following real time information.

Category description and photograph

- Fewer sorting errors / lower re-wash
- Less language dependent

Sorting productivity against target

- Higher sorting productivity

Sorting station availability

- Performance of equipment can be monitored

Account / customer name can be displayed

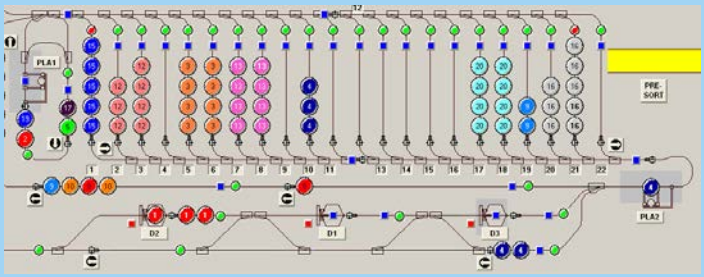
- Easier account segregation

Weight indication

- More consistent batch sizes

Call-off interface

Category display



Category display

Call-Off Optimizer Scheduling Software

This is a patent applied for software package that uses the following real time plant data to optimize the scheduling of linen from soil storage through the washroom to the finishing equipment:

- Production targets per category compared to actual
- Wash compatibility
- Dry time and dryer capacity
- Storage levels in both soil and clean areas

Before selecting the next batch of soiled linen to be washed, the system looks at the above data and awards each available batch a score. The batch selection is made according to this score and once it has been made the process is repeated for the next batch.

Minimized contamination of product in the washers

- Less re-wash and damaged linen

Dryer utilization is optimized

- Increased plant capacity

The system reacts automatically to events in the plant such as machine down time

- Fewer bottlenecks
- Increased plant capacity

Automatic separation of customers

- Labor saving
- Improved customer satisfaction

Futurail increases the productivity as it stores and feeds machines with linen. Much like a GPS system, Futurail efficiently guides linen to its destination by taking into account the actual traffic situation. The storage and transport system guarantees maximum capacity utilization, increases productivity, and allows green lights all the way for soiled and clean linen.

Futurail is sustainable laundry automation in action.

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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

www.jensen-group.com

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