

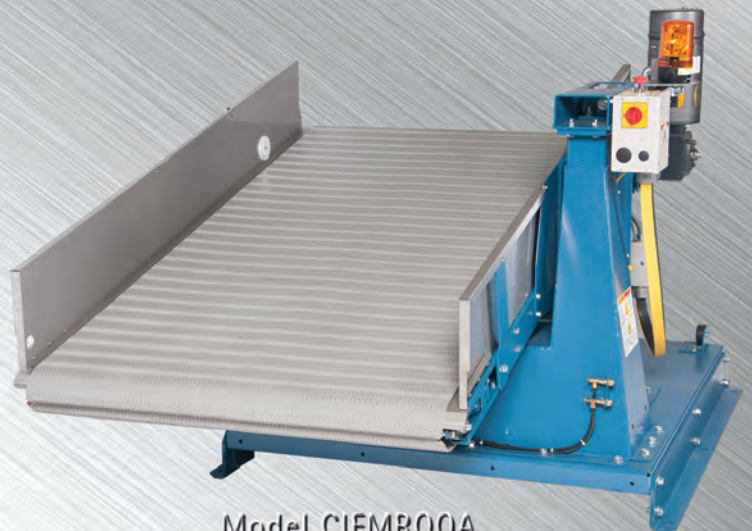


MATERIALS HANDLING MACHINERY

CONDENSED CATALOG



Model COSHQ112



Model CIFMRQQA



Model CONW304H



SAFE, EFFICIENT SYSTEMS FOR LOADING

Whether the washing takes place in a Continuous Batch Washer (CBW®) or in a sling-loaded Washer-Extractor, an automated system needs machinery to convey soiled goods into the system, transfer clean goods within the system, and handle finished goods as they leave the system. Milnor designs and manufactures a wide range of equipment needed to handle goods as they progress through the cleaning, moisture extraction, and drying process. The selection of machines shown are but a sample of the types of materials handling equipment we make, with the same sturdy construction and reliability you expect from every Milnor machine. All models come with multiple safety stops, and traversing shuttles have safety kick plates to stop the shuttle should they unexpectedly encounter an obstruction.



Batch Washer Loading Devices:

Designed for systems where hand loading the tunnel washer from carts of sorted or unsorted linens is desired. Goods can be loaded one batch at a time, or staged in a partitioned conveyor for automatic transfer into the washer.

CA3608PS

- Single batch elevating tunnel loader
- Weight scale with automatic weight data transfer optional
- Ideal for low ceilings or limited floor space in the area around the load chute

CONLO/CONWA MODELS

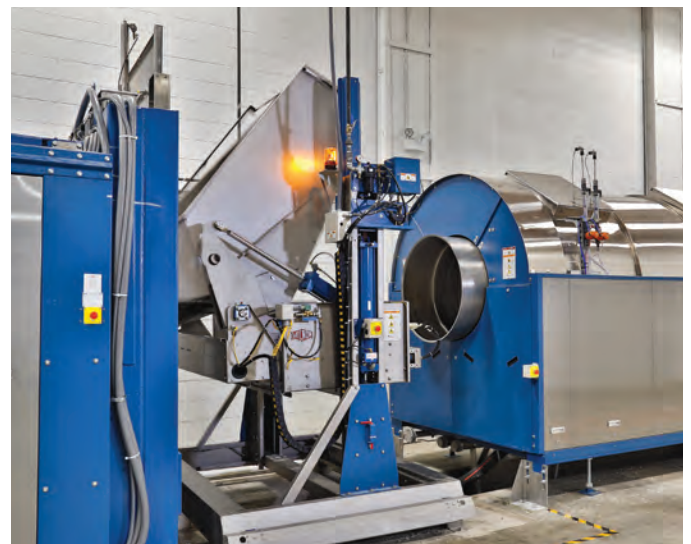
- Loading conveyor with stainless steel partitions
- Available in 2 to 12 pockets, horizontal or inclined, depending on the application requirements
- Pockets sized according to the rated capacity of the batch washer
- Available with an optional load cell for automatic weight transfer including signal lights for proper load sizing

Wet Goods Loading Devices:

Designed for batch washers that transfer clean, wet loads to a centrifugal extractor. Some models traverse for loading multiple extractors, or remain stationary to receive multiple loads for transfer to a single extractor.

COBUC/COBUD MODELS

- Accepts wet goods from a batch washer
- Models sized depending on the expected volume of goods
- Traversing models controlled by a laser targeting system now used on all Milnor shuttles
- Non-traversing models can be stationary or can pivot 90 degrees before loading the extractor
- Traversing models available with a hoist for applications requiring elevated extractors



LOADING AND UNLOADING GOODS



Post-Extraction Storage Conveyors:

Designed to store or transfer pressed cakes or loose extracted goods, these conveyors perform a key function in the performance of an automated washing system. Stored goods aid in the timing of systems to avoid hold time, while conveyors that transfer goods only are used for such purposes as raising the elevation of the goods, or simply spanning some distance depending on the physical layout of the system.

COINC MODELS

- Available in pivoting or non-pivoting models depending on the requirements of the layout
- Stores a single cake
- Controlled by the press so that additional system control options are not needed (when applicable)
- Typically offered with an inclined bed, horizontal bed models available for special applications (requires Device Master™ controller)

CONVEYOR MODELS

- Available in 42" (1067 mm) or 50" (1270 mm) belt width models, depending on cake or load size
- Optional controls for storing one or more cakes, or a load of loose goods, as required

Pressed Cake Elevators and Shuttle:

These devices automatically receive a cake of goods from a hydraulic press. Non-traversing elevators change the elevation of the cake(s) as required by the system configuration. They also perform a timing function in the system by providing for an additional vertically oriented storage position before transferring to a traversing shuttle. Shuttles move cakes to the next functional area of the system: dryers, no-dry positions, or some other cake-handling device such as a conveyor. Available with single or double beds of various lengths for handling a wide variety of goods, or for best fit within the constraints of the facility layout. Shuttles are designed with the appropriate length of floor rail and festooning for powering and controlling the device, and come with the controls and photo eyes required for automatic operation.

COLF ELEVATOR MODELS

- Available in a wide range of heights depending on the height requirement of the device
- Available in horizontal or inclined beds as required

COSH SHUTTLE MODELS

- Laser targeting system for fast and accurate traversal
- Variable speed drive for optimal traversal speed
- Variable speed belts (available on longer bed models) for better transfer of small pieces into the dryer
- Dual rail, floor drive system

SPECIAL APPLICATION SHUTTLES AND ELEVATOR

Special application shuttle and elevator models are also available for the following:

- In applications where a very high discharge level is required
- In applications where more than 2 beds are necessary on a single device
- In applications where more than 1 cake per bed is necessary
- In applications where the shuttle may not need to elevate





Loose Goods Shuttles:

These devices are used in applications where the extraction results in loose vs. caked goods, such as in washer-extractor systems, or when a centrifugal extractor is used in a batch washer system. All shuttles come with a laser targeting system for accurate and reliable discharge position locating, plus the appropriate floor rail and festooning to power and control the shuttle.

- CL models elevate to discharge, CG models elevate and use dual floor rails to traverse, and CF models are fixed height
- Shuttles come in a wide range of belt widths and bed lengths depending on the application and the load size and nature of the goods being handles
- The ability on some models to extend the belt to be loaded, or extend the belt out to discharge, ensures a complete transfer of goods from device to device regardless of the size or type of goods
- Includes all necessary components to contain the goods on the belt during operation, including load end sides and extended flat sides
- Includes all necessary photo eyes and controls for automated operation

Conveyors:

Besides the conveyors mentioned above for handling extracted goods, Milnor manufactures a wide variety of conveyors for use in a washer system. Conveyors models come in belt widths of 36" (914 mm), 42" (1067 mm), 48" (1219 mm), 50" (1270 mm), and 60" (1524 mm). Some of the more common applications of conveyors are:

- An additional transition belt between the batch washer and the loading device (sling or Milnor CONLO/CONWA)
- A place to receive cakes that do not have to be dried (no-dry belt)
- A means to handle goods being discharged from dryers (designated as dryer unloaders or as storage belts)
- A place to store an extracted load before it is discharged to a dryer (in the case of a "dryer pod" layout design)
- A means to load a dedicated pass-through dryer manually
- A means to elevate goods for interface with a monorail sling system (including the passing of batch data)

Controls:

All the materials handling devices in a laundry system — including the machinery to wash, extract water, and dry — must have a control system to manage and coordinate how and when each device performs its respective task automatically. For Milnor that system is the MultiTrac™ controller and its suite of control applications. Milnor builds each MultiTrac console for the system it controls. The MultiTrac console includes the industrial computer, its peripherals, a touch-screen monitor, and power backup (UPS). The MultiTrac computer may contain one or more of the following:

- The Miltrac™ control application coordinates the operation of all the devices in the system
- The DRYNET™ application, which controls the elevators, shuttles, and dryers in the system
- The Device Master application that controls conveyor belts that are not controlled by a dedicated extraction device. The system contains the logic to handle individual cakes on a belt, as well as batches of loose goods from a dryer, depending on which kinds of conveyors are in the system.

