

Automatic Flatwork Separating System

PIK-QUIK[®]

CHICAGO[®]



UNTANGLE YOUR LAUNDRY

Separates wet, partially dry, or fully dry flatwork including sheets, large table linen, or bath blankets

Pik-Quik is a self-contained free-standing machine that can be located at the most convenient point in a finishing production line. Only simple electrical and compressed air connections are required. Because Pik-Quik works directly above a laundry cart, it fits in virtually any laundry. It works ideally in conjunction with a Chicago Edge Series cornerless spreader/feeder to form the most efficient and effortless feeding combination available. Pik-Quik can also be used to improve the productivity of any other automated or manual feeding method.

Since its introduction, Pik-Quik has established itself as the industry's most advanced and flexible, yet simplest method of automatically separating tangled linen.

Through the ingenuity of H.J. Weir Engineering and Chicago's knowledge, experience and service/parts support based on its hundreds of machines installed in the field, Pik-Quik is the premier linen separation system in the industry. This unique and rugged compact unit automatically separates and unloads carts of tangled flatwork and presents easily-handled separated items directly to feeding/ironing/folding operators. Linen can be separated from laundry carts of extracted, tumbled, or caked work.

Pik-Quik should have a place in your laundry:

Saves Time

Eliminates the physically demanding stress, time, and drudgery of separating and shaking out tangled linen by hand.

Reduces Labor Costs

Substantially reduces FTE hours required for manual preparation and feeding on sheet, table linen, or blanket finishing lines by eliminating costly bottlenecks caused by inefficient manual handling of linen.

Increases Operator Throughput

Improves and paces feeder productivity by supplying a consistently high volume of easy-to-handle prepared linen to feeders to make better use of the full capacity of automated ironing and folding equipment.

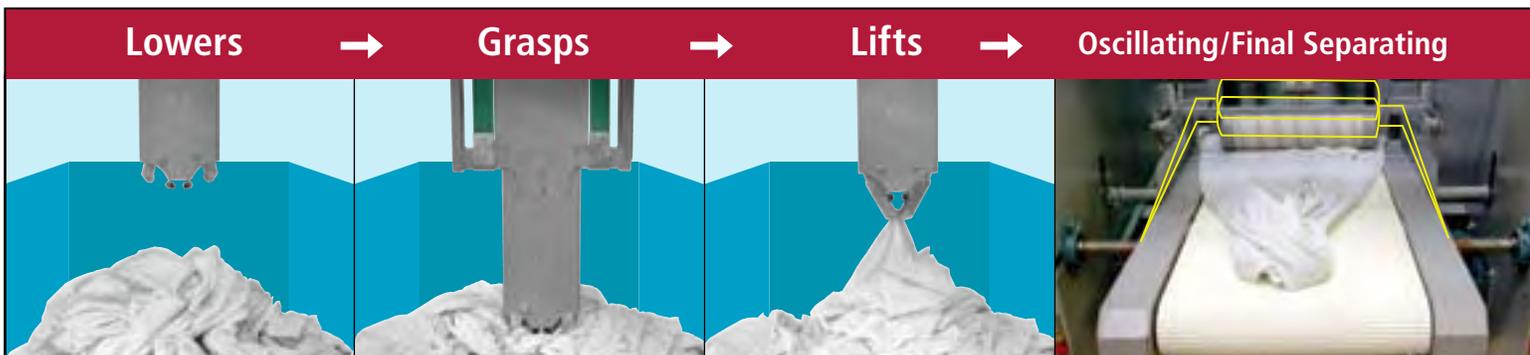
Improves Employee Environment

Engineering advances in electronic control, pneumatics, and mechanics are used to address the ergonomic and musculoskeletal concerns relating to separation by hand. Repetitive bending and twisting motions are eliminated because employees no longer have to manually lift, untangle, and pull apart large volumes of wet linen.

Helps Employees to be More Productive

After the loaded cart is wheeled and locked into position, an operator can be redirected to perform more productive tasks while separation is taking place, instead of remaining occupied untangling and shaking out linen. Good employees are hard to find and tough to keep. Investing in an automated resource like Pik-Quik to do the hardest work makes any human resource department's job easier.

Sequence of Separating Functions



Pik-Quik uses a unique "gravity drop" mechanism to lower its picking head into tangled work at the correct depth for effective separation—whether the cart is full or almost empty. The dual picking head's inner jaw then grasps a segment of linen and raises it before loosening its grip as the outer jaw takes over to lift finely separated linen out of the cart. As each area of the cart is emptied, PLC picking head intelligence directs the cart shuffler to move the cart back and forth a few inches to position the picking head above the next section of linen to be separated. When separating is complete, Pik-Quik audibly and visually signals laundry staff that it is ready for the next cart of linen. After each separated item is lifted from the cart, it is directed by an air blast between a high speed smoothing/stretching roll and a powerful detangling conveyor that

continues to space and advance the separated items. As this conveyor pulls the leading edge of the item through and away from smoothing rolls, linen's trailing edge is held back and stretched as the rapid up-and-down oscillating motion of the conveyor completes the "pulling apart" process. This forceful mechanical action is key to Pik-Quik's ability to separate tangled items. Smoothed and separated linen is then discharged to operators for easy feeding into an automated spreader feeder (such as the Chicago Edge/King Edge series) or manually into a flatwork ironer or folder. If Pik-Quik produces separated linen faster than operators can handle, speed can easily be changed or an exit sensor can automatically pause and restart linen discharge as they catch up.

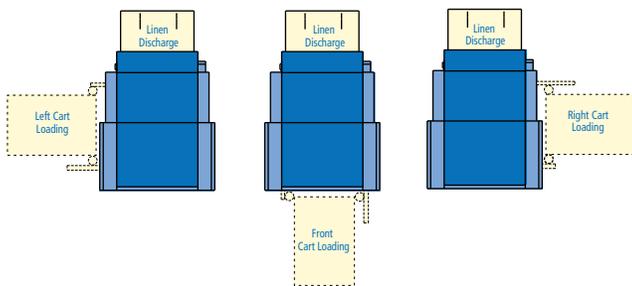
Standard Features

Features

- Compact design utilizes air space above laundry cart so Pik-Quik can usually be placed directly in front of feeder/ironer/folder
- Two stage picking process with overload protection avoids damaging linen by sensing load resistance and releasing if excessive load is picked in one pass
- Powerful internal oscillating conveyor rapidly shakes out picked work to assure optimum linen separation and easy operator handling
- Intelligent quick picking head keeps up with high speed finishing lines, while minimizing moving parts and use of floorspace
- Adjustable to over 1100 picking cycles per hour. Actual separation rate depends on piece size, severity of tangling, and size of load (Consult factory for information about higher cycle rate availability)
- PLC output available to signal auxiliary equipment such as monorail/sling or conveyor system to deliver additional linen (CAT only)
- All components readily accessible to maintenance personnel
- Rugged construction and field support from two of the oldest names in flatwork finishing
- Load side is field reversible in less than one hour if laundry design or equipment is changed

Standard Cart Shuffler

Locks a loaded free-standing wheeled laundry cart into position inside Pik-Quik's supporting leg frame, then moves this cart back and forth under the picking head mechanism as linen is picked and separated. When processing is complete, Pik-Quik's PLC activates an audible/visual alarm to alert operators to move a new loaded cart into position.



Examples of Standard Pik-Quik Work Flow

Front loading is the generally preferred layout for most applications. If laundry design requires, unit may be installed for left or right side loading.

Remote Separation

If there is no room directly in front of the finishing line, many laundries use Pik-Quik in a "cart to cart" system where linen is processed from a tangled cart through Pik-Quik into a separated cart away from the finishing line. Separated carts are then wheeled to the front of the finishing line as needed. In this way, a buffer supply of separated linen can also be maintained. Pik-Quik's flexibility is the key to meeting the needs of any existing or new laundry layout.

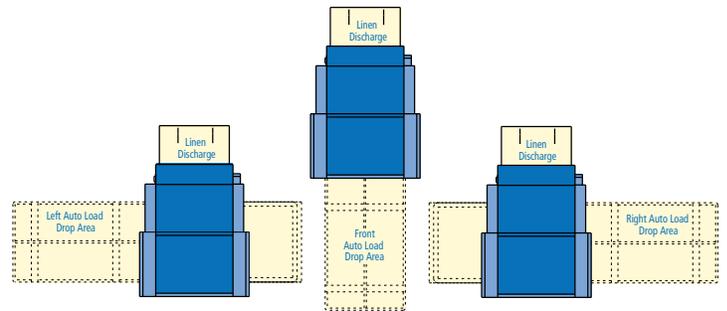
Alternate Platforms

CAT Automatic Loading System



Cart Auto Tram (CAT) System consists of integral separating cart and powerful guide rails with sheet metal enclosure and frame. It can receive linen dropped directly from an overhead sling or conveyor into CAT's specially designed integral separating cart. The

loaded cart then automatically moves across a built-in powered guide system under the picking head for separation. Upon completion, the substantially emptied cart automatically returns to loading position and signals for more linen. CAT can be configured to receive linen from the front, left, or right side.



Examples of Pik-Quik Work Flow with Cart Auto Tram (CAT) System

Cake Buster Preparation Unit

Cake Buster can be added to the CAT loading system to break up solid cakes of wet linen as it is dropped into cart to keep pace with the fastest finishing lines. Cake Buster is also available as a stand-alone unit to initially break up caked linen and speed-up manual separation by operators. (Consult factory for custom heights and pricing.)

Modular Design



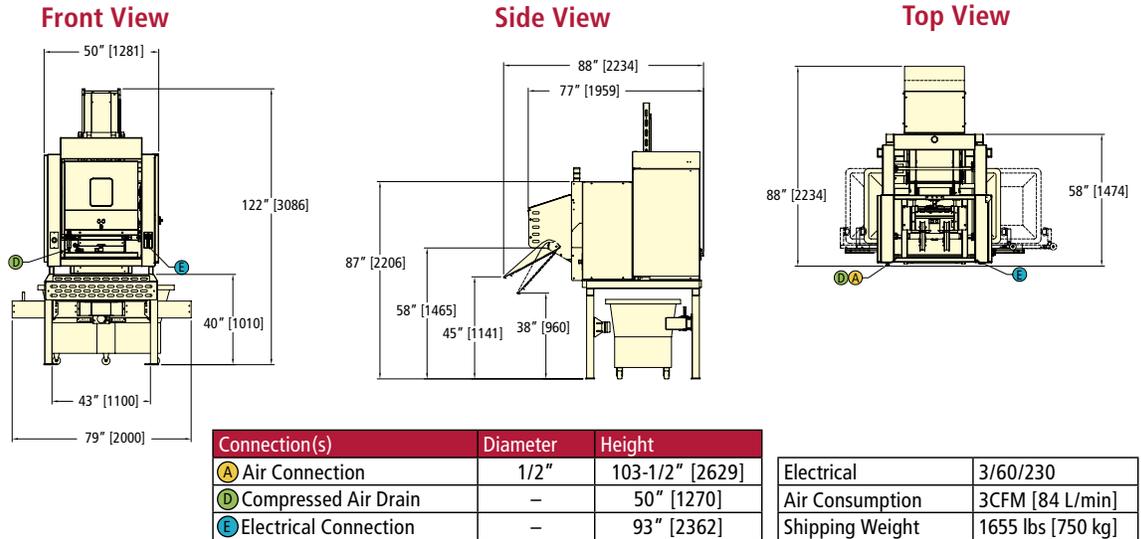
Pik-Quik with LinenStream Conveyor

Separated linen is discharged from a rear chute to Chicago LinenStream intelligent conveyor system or a locally supplied table, cart, or distribution conveyor. Pik-Quik's flexible and compact separating platform can easily adapt to fit any laundry, regardless of size. Streamlined linen flow, swift investment payback, and the improvement of working conditions through the elimination of one of the toughest jobs in any laundry combine to make Pik-Quik a valuable performer in any high production facility.

NOTE

1. Specifications subject to change without notice. Consult factory for certified construction floorplan.
2. Metric dimensions are in [].
3. All dimensions are ± 1/2".
4. Utility connections located as shown.
5. Consult factory for specifications and floorplans for optional Cart Auto Tram (CAT) and Cake Buster Systems.

Pik-Quik with Standard Cart Shuffler: Dimensions and Utilities



Cart Compatibility

The Standard Cart Shuffler will accommodate most wheeled laundry carts. Use the following convenient sizing chart to determine the needs of your laundry.

Cart Shuffler	Special Height Bases (Available with Standard or XL Cart Shuffler)					
	Standard		Optional XL		XT**	XW***
Cart Size	Minimum	Maximum	Minimum	Maximum	Maximum	Maximum
Length	42" [1066mm]	60" [1525mm]	58" [1470mm]	72" [1830mm]	Use Standard or XL Length at left	Use Standard or XL Length at left
Width	30" [762mm]	38" [965mm]	30" [762mm]	38" [965mm]	Use Standard or XL Width at left	46" [1168mm]
Height*	26" [660mm]	40" [1020mm]	26" [660mm]	40" [1020mm]	46" [1168mm]	Use Standard or XL Height at left

* Because the cart must be able to fit under the base around Pik-Quik's picking head, carts can be loaded to a maximum height of 40" [1020mm] above the floor. Standard dimensions are based on a loaded cart height of a minimum of 26" to a maximum of 40" [660mm to 1020mm] above floor. Cart locking mechanism secures cart 27" [685mm] above floor. Optional adapters are available from factory to handle unusual cart designs.
 ** If loaded cart is between 40" [1020mm] and 46" [1168mm] high, optional **XT** base extensions must be factory ordered.
 *** If cart width is between 38" and 46" [965mm and 1168mm] wide, the optional **XW** base is required so carts have enough clearance to fit between base legs around the picking head.

To assure proper separation under all conditions, the use of spring-loaded carts is not recommended unless springs are disabled or removed. Above options can be combined to accommodate most carts. Consult factory for cart sizes not shown. Specially designed heavy duty molded carts are also available from the factory. These rectangular carts have a custom molded bottom, so linen naturally flows towards the center of the cart for more optimum picking efficiency.

A Complete Range of Separating, Feeding, Ironing, Folding, and Linen Handling Options

Chicago manufactures a complete range of flatwork separating, feeding, ironing, and folding equipment for laundries of all types and sizes. For over 100 years, Chicago has specified, manufactured, and supported finishing equipment in commercial, hospitality, health care, and institutional laundries all over the world. An experienced Chicago professional will be pleased to make an objective equipment recommendation based on your production, floor space, utility, and budget requirements. Contact your local Chicago distributor or our factory sales assistance for details. See our complete product line at www.chidry.com.



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