

Ruggedly Built for Best Manufacturing Results

A box-type foundation provides rigidity, even at high speeds. All product contacting surfaces are stainless steel or approved plastic. A built-in system uses brushes and high-pressure air jets to clean out mating slats between cycles. Oil-tight switches and push buttons are used throughout the system, and controls are in NEMA 12 electrical enclosures.

Quick Changeover and Maintenance

Merrill fillers quickly and efficiently meet the needs of all your container sizes and product lines.

Changing container sizes? Filling manifold assemblies can be replaced in minutes without the need for tools.

Changing products? Mating slat sets are easily accessible for fast replacement or cleaning. Merrill machines open wide for maintenance or cleaning, and all side panels are hinged for convenient access and interlocked so the machine cannot be operated when panels are opened. The entire machine is mounted on a portable base.

Automatic Controls

These controls provide security against container jams and product spills. Automatic infeed and backup controls stop machine operation if the container supply falls, or if a backup occurs on the conveyor line.

Programmable Machine Control

All solid state electronics control every phase of machine operation. The color touchscreen provides reliability and fast, easy change in setup or operation. Setup data is held in a menu format for single-touch downloading.



Merrill Slat Filler Features

- Adjustable slope – variation of path angle
- Slat shaker and bottom slat vibrator
- Slat thumper tablet ejector
- Blade eject positive purge system
- Clear view manifold with patented double channel flipper gate
- CTC display panel
- Micro-Scan® short-count detection system (Model 72- 39 HY only)

Merrill Slat Fillers



▲ Merrill Model 72-39 HY

Merrill Fillers provide superior performance in pharmaceutical product counting and container filling.

Excellent manufacturing practices and the high-speed accuracy of these rugged machines will meet your present and future filling requirements. Choose from various sizes of slat fillers in the NOVA Packaging Systems product line to best meet your specifications.

Bottle Handling Systems

Air Cylinder Index. Electric timed grouping utilities combine with electrically timed air cylinders to control exact container positioning. All containers are visible during indexing – as well as fillings – without precision adjustments.

Quick-Connect, Servo-Driven Feedscrew Indexing. The feedscrew index quietly handles and precisely locates containers of varying sizes and shapes directly under filling chutes.

Bulk Tablet/Capsule Feeding Systems

The Merrill Series 73 Auxiliary Bulk Feeder or PIAB Bulk Vacuum Conveyor, used in conjunction with the Merrill Series of fillers, gives you complete tablet/capsule handling capability . . . from bulk supply to final packaging.

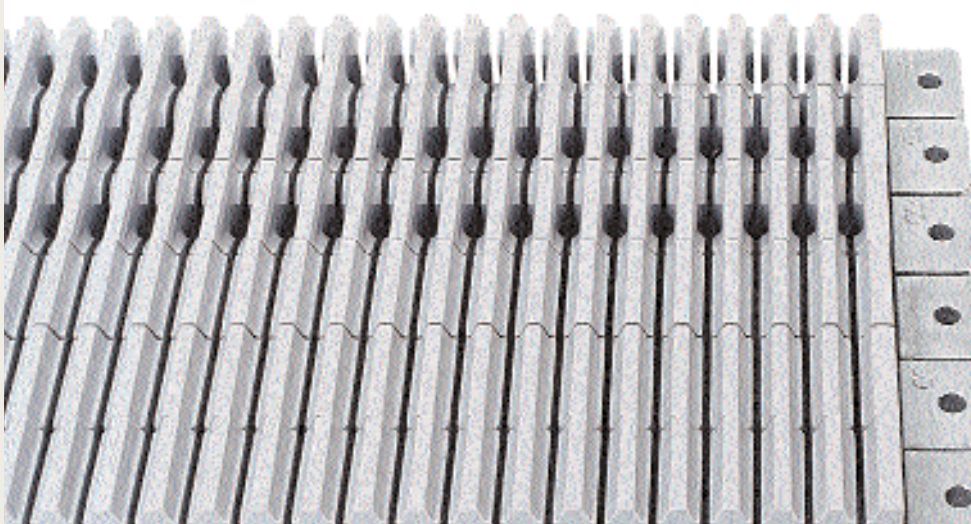
Merrill Slat Fillers Production Rates

Based on 100 Count Aspirin Size Tablet

48-16 AX	48 slats	160 bottles per minute
48-39 AX	48 slats	250 bottles per minute
48-39 HY	48 slats	250 bottles per minute
72-16 AX	72 slats	150 bottles per minute
72-39 AX	72 slats	300 bottles per minute
72-39 HY		400 bottles per minute

Note: Speeds are dependent upon tablet and container shape, size, and uniformity

Accurate High-Speed Container Filling

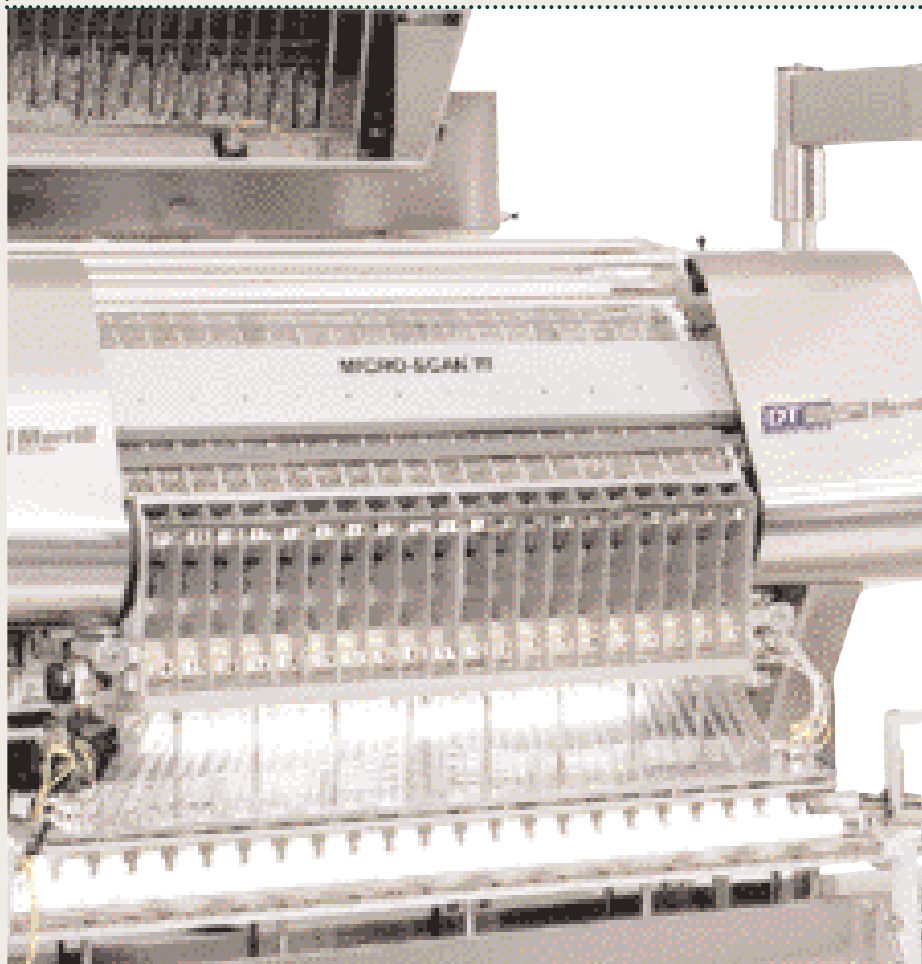


▲ The Merrill positive product eject system uses an anodized aluminum bar mounted to the front of the filler with 316L stainless steel blades that extend up into the product drop point. As the blade ejector style slats rotate around the front shaft, the blades slice through the cavity, assisting any product that has not already dropped.

Merrill Blade Ejection . . . Positive Purge System

Positive purging of all product

The Merrill purge system ensures that all tablets and capsules are discharged from the cavities of each mating slat during every cycle. This prevents undetected short-count containers (as a result of product hang-up) without utilizing extra inspection personnel. A mechanically actuated stainless steel bar probes each cavity by gently assisting all product into the bottle filling chute as the mating slat reaches the drop point. Blades for an entire slat width are contained on a single bar.



▲ Micro-Scan® detection system checks every cavity, every cycle, at any speed . . . and automatically tracks and rejects "short-count" containers.

Merrill Micro-Scan® Quality System

(available on Model 72-39 HY)

The Merrill Micro-Scan® empty cavity detection system solves the problem of positive, every-cavity inspection, even when operating at high speeds. The system is reliable, using infrared light and advanced solid-state electronics.

How the Micro-Scan® system works:

1. During operation, the Micro-Scan® monitors data from both heads and the timing signals. It processes and stores the data, and generates a signal to the reject system if necessary.
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2. On signal from the Micro-Scan® control, light from an infrared LED source is beamed through a bottom hole of the mating slat.
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3. If product is present, infrared light is blocked. No signal goes to the receiver head.
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4. If the cavity is empty, infrared light passes through, is picked up by the receiver head, and recorded by the Micro-Scan® control.
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5. When an empty cavity is detected, the bottle with a short-count is tracked and rejected by the machine.

Customer Service and Change Parts

Responsive Customer Support and Service

One Manufacturing Facility

This enables us to track each order through our innovative tracking system. We can now track every order, from design phase to shipping, knowing the exact status of your change parts order at any time.

Improved Delivery

With the addition of our new machining centers, we are now able to offer 2 to 3 week deliveries on your change part orders.

Improved Quality

With the latest technologies in design and manufacturing, we are able to see design and machining flaws, even before one piece of material is cut on our machining centers. This quality results in accurate and excellent cavity filling, cycle-after-cycle.

Slat Testing

In our facility, we have test machines capable of running any size or type of Lakso,

Merrill, or King slats. We can offer written documentation of our internal slat test with your slats and product prior to them entering your facility. With pre-checked and qualified slats, our slats can be inserted into your production line with confidence. This is a free, value-added service of NOVA Packaging Systems.

Independent Sales & Support Staff

The change part unit has its own sales and support staff. Our group, known for their resourceful and practical problem-solving ability, have over 45 years combined experience in sales, design, and manufacturing of change parts.

One-Stop Shopping

We also offer change parts for a wide range of slat fillers including Lakso, Merrill, and King brands of equipment. This allows you the convenience of ordering all your change parts from one location.

Automated liquid and tablet filling systems, including cottoners, cappers, bottle unscramblers, slat and electronic tablet counters, complete line integrations, and validation services

Product brands include Kalish, King, Lakso, Merrill, and Swiftpack

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Partial Customer List

- GlaxoSmithKline
- Pharmacia
- Eli Lilly & Co.
- Parke Davis
- Merck P.R.
- Aventis
- Wyeth Laboratories
- Bristol-Myers

Take the Next Step.

Please contact us today to discuss your application and explore profitable possibilities.

Sample Merrill Change Parts



▲ Standard type slats



▲ Blade ejection-type slats



▲ Screwless design lower manifold



▲ Feedscrew



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