DT INDUSTRIES

Packaging Systems

MERRILL

EXPERT SLAT DESIGN

The essence of a slat counter is the accurate design of the slats to assure product fills each cavity efficiently. Merrill provides over 40 years experience in designing slats for a wide variety of shapes and counters.
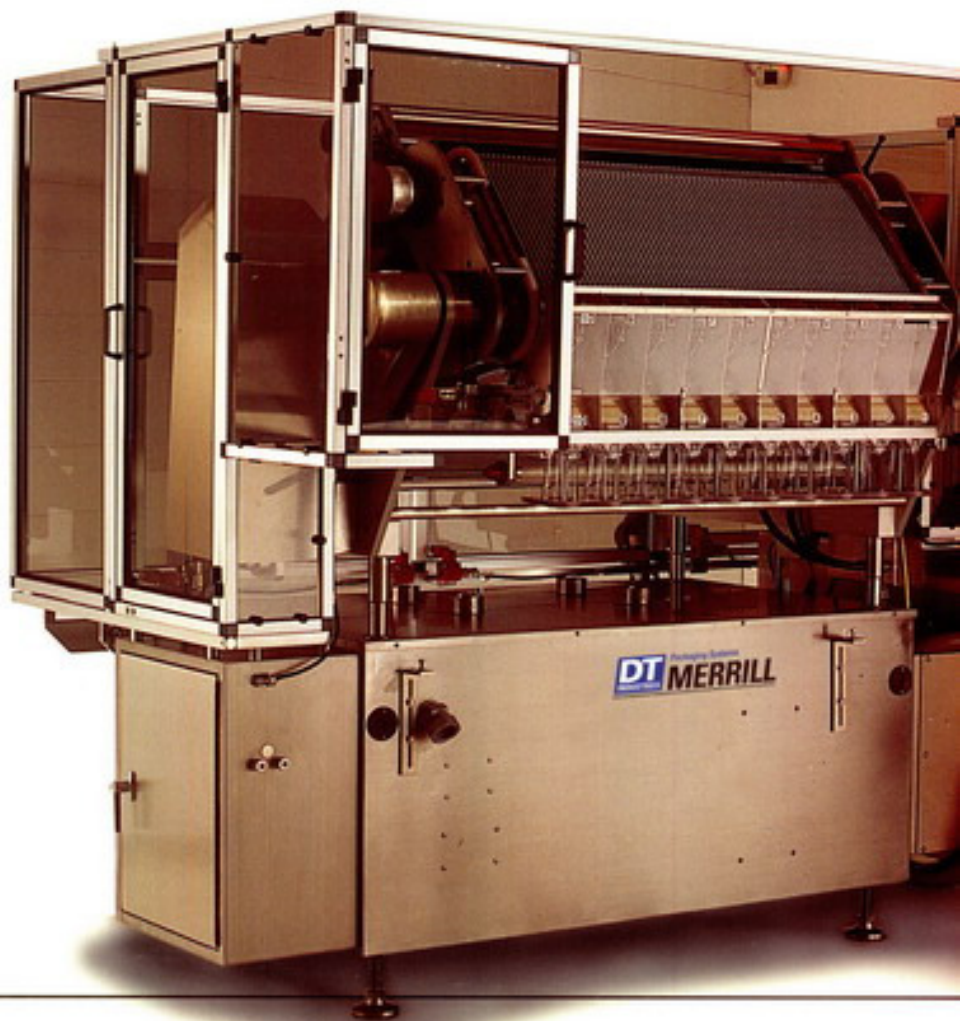

HIGH CAPACITY

Extra large filling area allows maximum filling rate, resulting in high production yield.

High Capacity.
Accurate Count.
Fast Changeover.

Merrill's 39 Series Slat Filler is the one to count on for fast changeover and accuracy. The 39 Series is the effective solution for high speed, large production operations.

ADJUSTABLE SLOPE

Allows the adjusting of the filling area to the optimum setting for each product to increase filling efficiency. Also allows complete access to machine when raised to upper limits for cleaning and inspecting.

GUARDING

Merrill's 39 Series slat filler is guarded to protect against inadvertent access. All guards are interlocked along with the light curtain in operator access areas.

DUAL LANE SANITARY CONVEYOR SYSTEMS

Merrill provides a complete line of conveyor systems to handle various sizes and shapes of bottles to assure an efficient bottle filling operation.

QUICK PRODUCT SET-UP

MAGIC CONTROL provides automatic set-up for products and retains those parameters for the next time the product is run.

BOTTLE HANDLING

Merrill offers two types of bottle handling systems to meet your needs: Timing Screw System (right) features PLC controlled Servo motors for exact bottle position. Electric Timed Grouping utilizes electrically timed air cylinders to control bottle positioning.

REMOVABLE SLAT CARTRIDGE

Reduces changeover time by allowing set up of slat cartridge off the machine while another product is running.
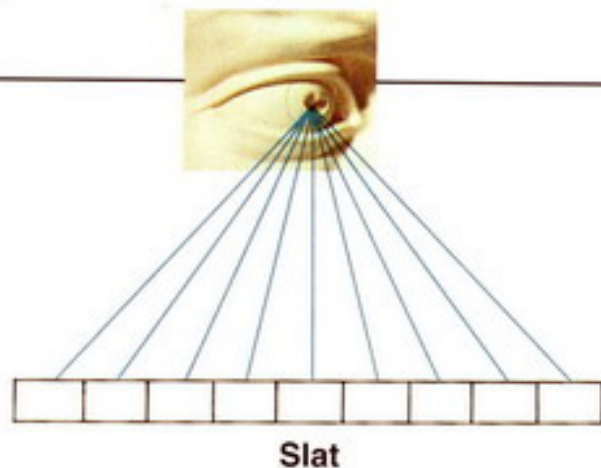
Slat

SLAT SCAN - OPTIONAL ACCURATE COUNT VISION SYSTEM

Merrill Slat Scan System is an empty cavity detection system employing the latest machine vision technology including solid state cameras, structure lighting, and computerized controls to assure a correct product count in each bottle.
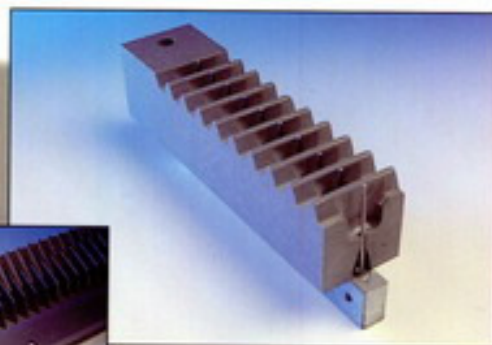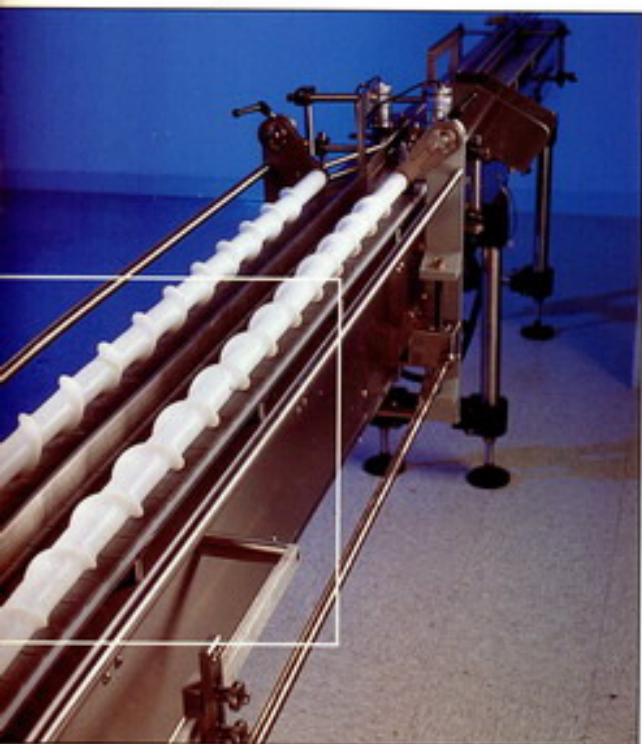
POSITIVE EJECTION SYSTEMS

Merrill offers both blade (left) and pin (above) type product ejection systems to assure the product is ejected from the slat into the bottle for accurate count.

MAXIMUM PRODUCTION RATES*

16 Series Filler	72 Slats	up to 160 bottles per minute
24 Series Filler	40 Slats	up to 200 bottles per minute
39 Series Filler	72 Slats	up to 300 bottles per minute

*Depending on product and bottles, actual product rates will be provided after receipt of samples.

EXAMINE THE FEATURES - CONSIDER THE BENEFITS:

The following is a reference guide to the special features and benefits a Merrill 39 Series offers you:

- **High capacity**
  Large filling area allows maximum filling rate

- **Adjustable slope**
  Improves filling efficiency and allows complete access for cleaning

- **Removable slat cartridge**
  Allows set up of slat cartridge off the machine while running another product

- **Vision inspection system**
  Slat Scan Optical System that assures 100% accurate bottle counts

- **Expert slat design**
  Over 40 years of experience in the design and manufacturing of slats

- **Sanitary conveyor system**
  Complete line of conveyor systems to handle various sizes and shapes of bottles

- **Complete systems**
  Integrated systems from unscrambler through palletizer are available through the DT Industries' Packaging Group

HOPPER SYSTEMS

Merrill offers a variety of easy to clean bulk tablet hopper and hopper elevating options. These hoppers can be as simple as a single stage hopper or as sophisticated as an automatically controlled, dual stage hopper system that will permit non-stop bottle filling.

Specifications

MODELS 72-39 AND 48-39

Filling rate (100-count bottles/minute)		Up to 300
Conveyor (std.)	Length (ft.)	15
	Height adjustable (in.)	33 to 38
	Drive (hp)	½
	(rpm)	Variable speed
Conveyor (special)		To meet individual requirements.
Counter drive	(hp)	½
	(rpm)	Variable speed
Dust collector drive	(hp)	3
	(rpm)	1800
Electric power (volts/cycles/phase)	Incoming service	230-460/60/3
	Control circuits	115/60/1
Air requirements (scfm @ psig)		37 @ 80
Floor space (ft.)		5 x 16
Approx. Weight (lb.)	Without dust collector	1100
	With dust collector	1550
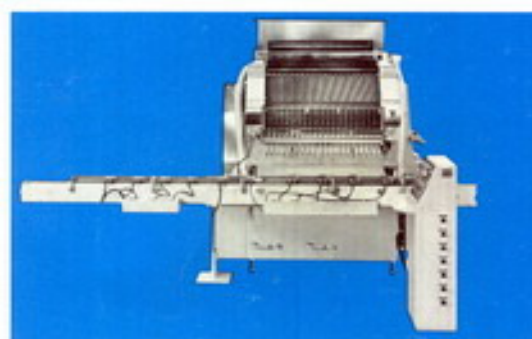
Designed for high production needs. Complete with control panel, foot switch, upper manifold, adjustable conveyor, and adaptable for built-in dust collection system. Packages odd or unusual shapes and soft gelatins as well as conventional tablets and capsules.

MODELS 30-16, 48-16, 56-16 AND 72-16

Filling rate (100-count bottles/minute)		Up to 150
Conveyor (std.) Model 30-16— single channel. Other models— double channel.	Length (ft.)	10
	Height adjustable (in.)	33 to 38
	(hp)	½
	Drive (rpm)	Variable speed
Conveyor (special)		To meet individual requirements.
Counter drive	(hp)	Model 30-16, ⅓ Other models, ½
	(rpm)	Variable speed
Dust collector drive	(hp and rpm)	1½–3600 2–1800
Electric power (volts/cycles/phase)	Incoming service	220-440/60/3
	Control circuits	115/60/1
Air requirements (scfm @ psig)		19 @ 80
Floor space (ft.)		5 x 11
Approx. Weight (lb.)	Without dust collector	875
	With dust collector	1150
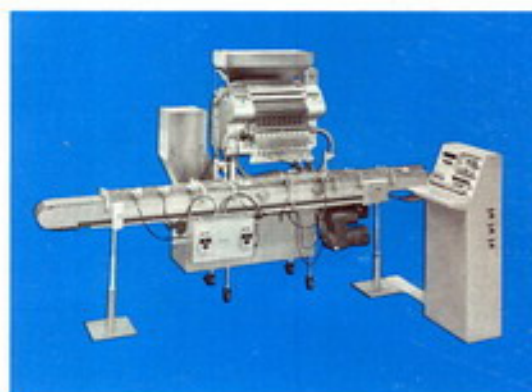
Ideal for medium production needs. Complete with control panel, foot switch, upper manifold, adjustable conveyor, and adaptable for built-in dust collection system. Packages odd or unusual shapes and soft gelatins as well as conventional tablets and capsules.

MODEL 30-10

Filling rate (100-count bottles/minute)		Up to 75
Single-channel conveyor (std.)	Length (ft.)	9
	Height adjustable (in.)	33 to 38
	(hp)	½
	Drive (rpm)	1800
Conveyor (special)		To meet individual requirements.
Counter drive	(hp)	⅓
	(rpm)	Variable speed
Dust collector drive	(hp)	1½
	(rpm)	3600
Electric power (volts/cycles/phase)	Incoming service	220/60/1 or 220-440/60/3
	Control circuits	115/60/1
Air requirements (scfm @ psig)		12 @ 80
Floor space (ft.)		4 x 10
Approx. Weight (lb.)	Without dust collector	500
	With dust collector	650

Single-channel conveyor. Excellent for medium to medium-low production. Complete with control panel, foot switch, upper manifold, adjustable conveyor, and adaptable for built-in dust collection system. Packages odd or unusual shapes and soft gelatins as well as conventional tablets and capsules.