



ATS Flexible Feeding System



Automation
Tooling
Systems

ATS Flexible Feeding System

Description

The latest in high-performance, low-cost feeding technology from ATS, this compact, flexible feeding system can incorporate either an innovative step-stair or rotating-lift mechanism to evenly separate and orient small parts of random position, size, shape and bulk. Its simple, advanced design eliminates the jamming and downtime common with traditional "bowl" feeders.

ATS Flexible Feeding Systems are pre-engineered, standardized systems whose simplicity in design makes them wear resistant for long life and ideal for retooling, so they continue to pay for themselves year-after-year.

Specifications

Step Feeder

Cycle Time:	Approx. 2 sec*
Step Thickness:	6, 9, 12, 18, 25, 35 mm
Step Widths:	150, 200, 250, 300, 400 mm
Mounting:	Table or base
Bin Sizes:	Small (0.37 to 0.87 ft ³) Medium (0.92 to 1.43 ft ³) Large (1.51 to 2.09 ft ³) Extra Capacity (up to 2 ft ³)

Elevating Belt Feeder

Cycle Time:	Approx. 1 sec*
Belt Widths:	50 mm or 100 mm
Belt Lug Sizes:	10, 20, 30 mm
Mounting:	Table or base
Bin Sizes:	Small (0.85 to 1.0 ft ³) Medium (1.25 to 1.45 ft ³) Large (2.33 to 2.54 ft ³) Extra Capacity (up to 4 ft ³)

* Dependent on step thickness and part type

Options

- Pre-feeder
- Multilane capable
- Belt, gravity or air return
- Small / medium / large bins
- Extra hopper capacity
- Purge chute
- Table or base mount

Typical System Components

- Step feeder or elevating belt feeder
- Inline vibratory feeder
- Return conveyor

Features & Benefits

- Low-cost
- Fast
- Quiet
- Flexible
- Simple and reliable
- Small footprint
- Less vibration
- Reusable



Step Feeder

The low-cost step feeder partially orients parts. Its simplified pneumatic design makes it extremely wear resistant, virtually eliminating downtime due to mechanical failure.



Elevating Belt Feeder

The elevating belt hopper feeds part types not well suited for the step feeder. It eliminates the jamming and downtime typically encountered when feeding odd form parts.



Inline Vibratory Feeder

The motor-driven inline vibratory feeder orients misaligned parts or rejects problem parts, prior to assembly operations. Totally customizable and programmable, it can handle a wide variety of part types and can be used in conjunction with a step feeder or elevating belt hopper.

Contact ATS directly for custom or product-specific applications beyond the scope of this document.



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