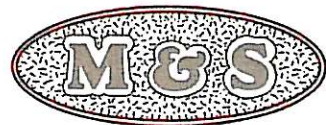
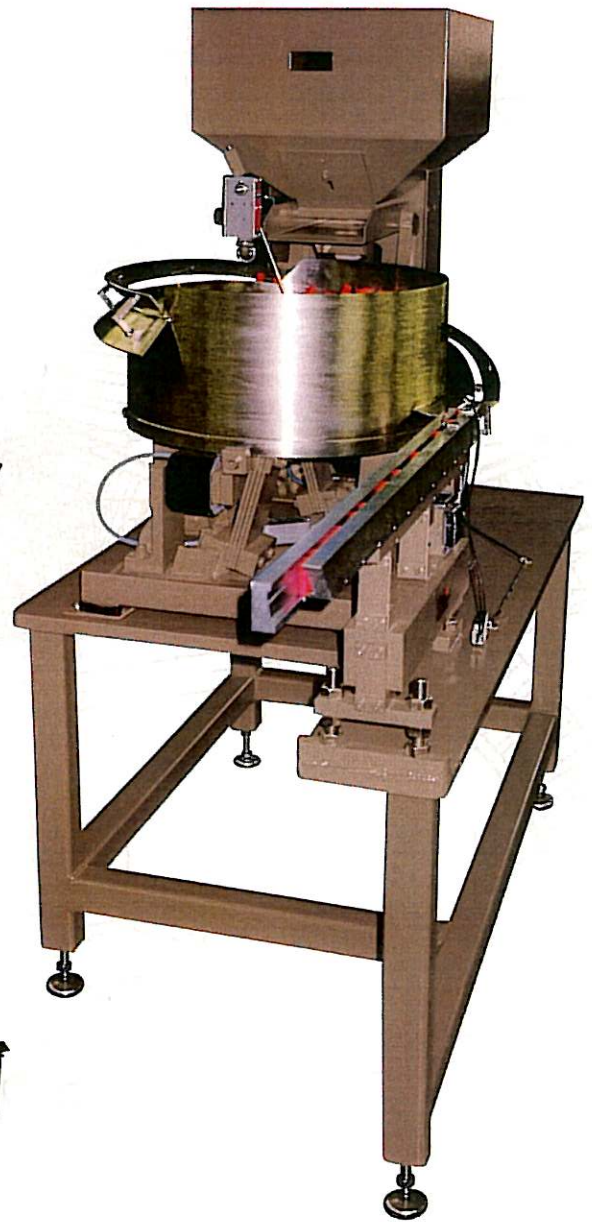
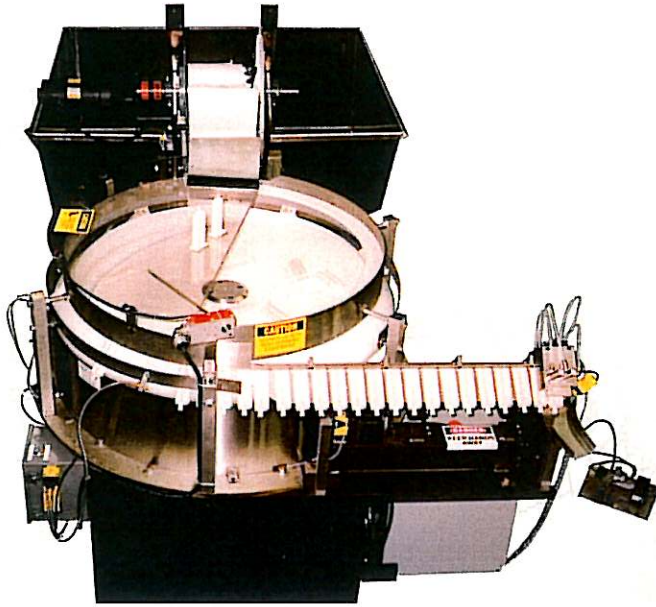
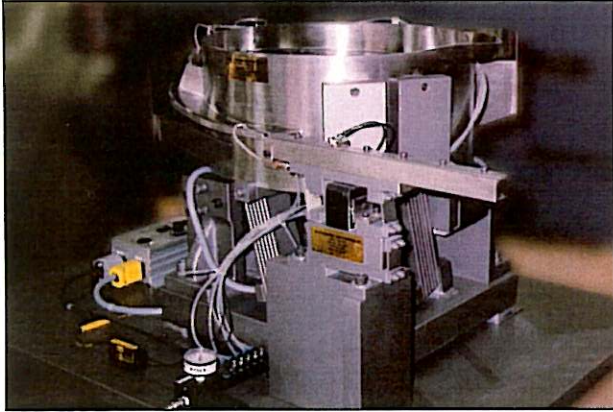


Automated Feeding Systems Built to Fit Your Unique Application



Automated Feeding Systems

M & S Automated Feeding Systems has been selling, installing and servicing automated feeding equipment for customers all over the world since 1989. We have some of the most experienced designers, fabricators and installers of automated feeding equipment in the industry, who understand your high production equipment needs and can assist you with designing and building the best equipment for your applications.

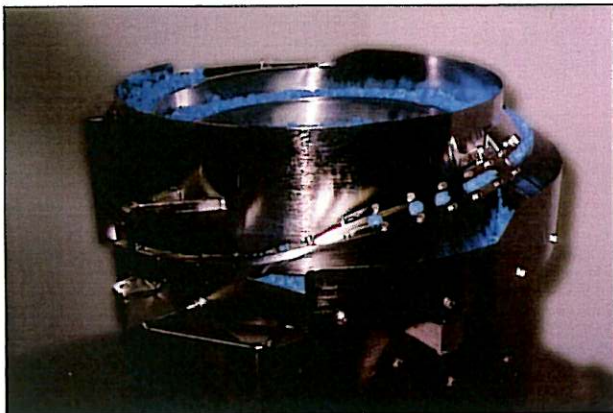


Vibratory Inline Feeder/Track

All of our machines are offered in both pharmaceutical and industrial grade finishes, defined as follows:

Pharmaceutical grade: Stainless steel with all seams welded and ground free of pits and crevices, with a hand polished #4 brush finish.

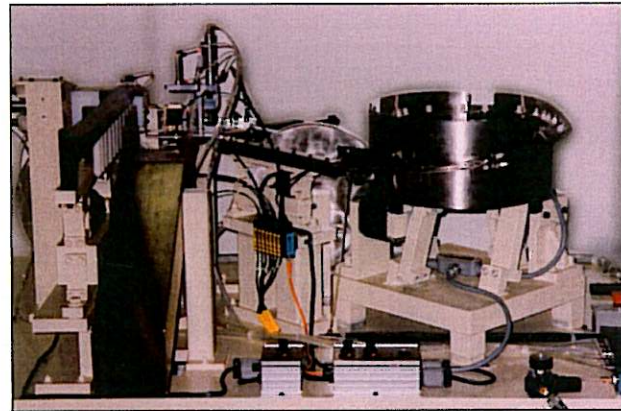
Industrial grade: Stainless steel welded, ground and polished on at least one side; two sides if the application dictates.



Vibratory Feeder Bowl

Our exceptional customer service includes free testing and analysis of your parts and applications for automated feeding including a video tape of the test run. What's more, customers are welcome to visit our facility at any time to view the systems as they are built and tested.

Pictured on front cover, starting from top, clockwise: Centrifugal Feeder Bowl, Vibratory System and Elevating Belt Hopper.



Specialty Machine: Vibratory System

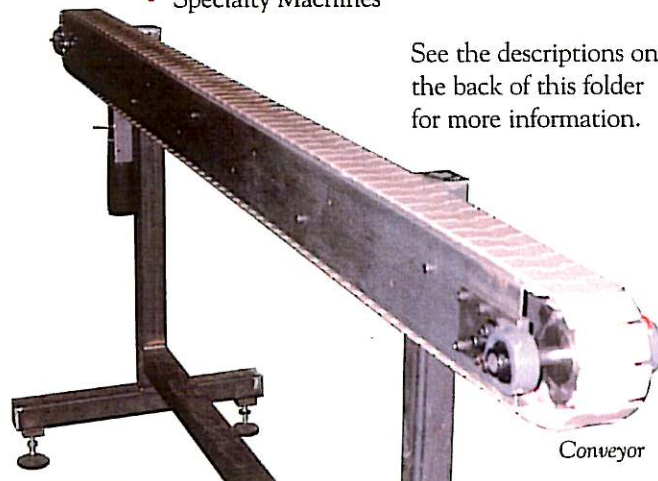
We design and fabricate all of our machines from the ground up specifically for the product handling characteristics required.



Centrifugal Feeder Bowl

M & S Automated is fully equipped to design, fabricate and service a full range of quality feeding equipment and specialized product handling systems including:

- Centrifugal Feeder Bowls
- Vibratory Feeder Bowls
- Vibratory Hoppers/Prefeeders
- Elevating Belt Hoppers/Prefeeders
- Two-stage Elevating Belt Hoppers
- Vibratory Inline Feeders/Tracks
- Conveyors
- Specialty Machines



See the descriptions on the back of this folder for more information.

Conveyor

Feeder Bowls

Takes product from a bulk state to a single lane of oriented parts which are confined at discharge to maintain specified orientation for the host machine to carry out its function.

Centrifugal Feeder Bowl

- 6" diameter to 54" diameter.
- USDA approved centrifugal feeders are preferred by the food and pharmaceutical industries.
- Standard bowls come with two variable speed DC motors for easy adjustment of the rim and center disc speeds, especially helpful when running more than one style of part in each feeder bowl.

Vibratory Feeder Bowl

- 6" diameter to 42" diameter.
- Orients parts to single or multiple lanes.
- Solid stainless steel construction.
- Optional sound enclosures in several different styles to meet OSHA requirements.

Hoppers/Prefeeders

Takes product from a bulk state and provides an automatically metered, controlled feed to a feeder bowl. The hopper provides considerably more capacity than the feeder bowl itself.

Vibratory Hopper/Prefeeder

- Capacity: 1/4 cu. ft. to 9 cu. ft.
- Optional urethane coating for abrasion reduction and noise abatement.
- Variable speed control and bowl level sensor automatically control the level of parts in the feeder bowl for maximum feeder bowl efficiency.

Elevating Belt Hopper/Prefeeder

- Capacity: 5 cu. ft. to 25 cu. ft.
- Lower load height of 48" or less.
- Quieter than vibratory hoppers.
- Large capacity to feed more product or larger product.
- Optional urethane coating for abrasion reduction and noise abatement.
- Variable speed control and a bowl level sensor accurately and automatically control the level of parts in the feeder bowl for maximum feeder bowl efficiency.

Two-Stage Elevating Belt Hopper/Prefeeder

- Same as the Elevating Belt Hopper but comes with two variable speed controls.
- Specially designed to reduce possible damage while maintaining accurate feed.

Vibratory Inline Feeders/Tracks

Takes oriented parts from the discharge of the feeder bowl to the infeed port of the host machine, while maintaining parts orientation.

- 4" length to 96" length.
- Single or multiple lane tracks.
- Provides accumulation and back pressure on the parts for a more positive load of the parts into the host machine.
- Stainless steel, plated CRS, anodized aluminum or plastic.
- High level sensors in the tracks automatically control the output of the oriented parts to maintain the correct level.
- Standard track includes a single variable speed control.
- Custom track self monitors vibration amplitude and automatically adjusts for changes in load conditions, voltage fluctuations, etc. to provide a very stable, consistent output.

Conveyors

Takes oriented parts from the discharge of the feeder bowl to the infeed port of the host machine, while maintaining parts orientation.

- 1" W x 12" L to 24" W x unlimited length.
- Single or multiple lane conveyors.
- Provides accumulation and back pressure on the parts for a more positive load of the parts into the host machine.
- High level sensors on the conveyor automatically control the output of the oriented parts to maintain the correct level.
- Standard conveyor uses an endless loop finger spliced belt including a single variable speed control.
- Custom conveyor uses a table top chain style with many different styles and widths of chain available.
- Optional pneumatic clutch/brakes.

Specialty Machines

M & S designs and fabricates small turnkey mechanisms and machines for simple assembly, packaging, sorting and more for a myriad of parts and applications.

We offer top of the line turnkey vision systems for inspection and sorting applications, in conjunction with our feeder bowls.

We also design and fabricate pick & place and metering mechanisms to interface with the customer's machine infeed and packaging machines.



Automated Feeding Systems