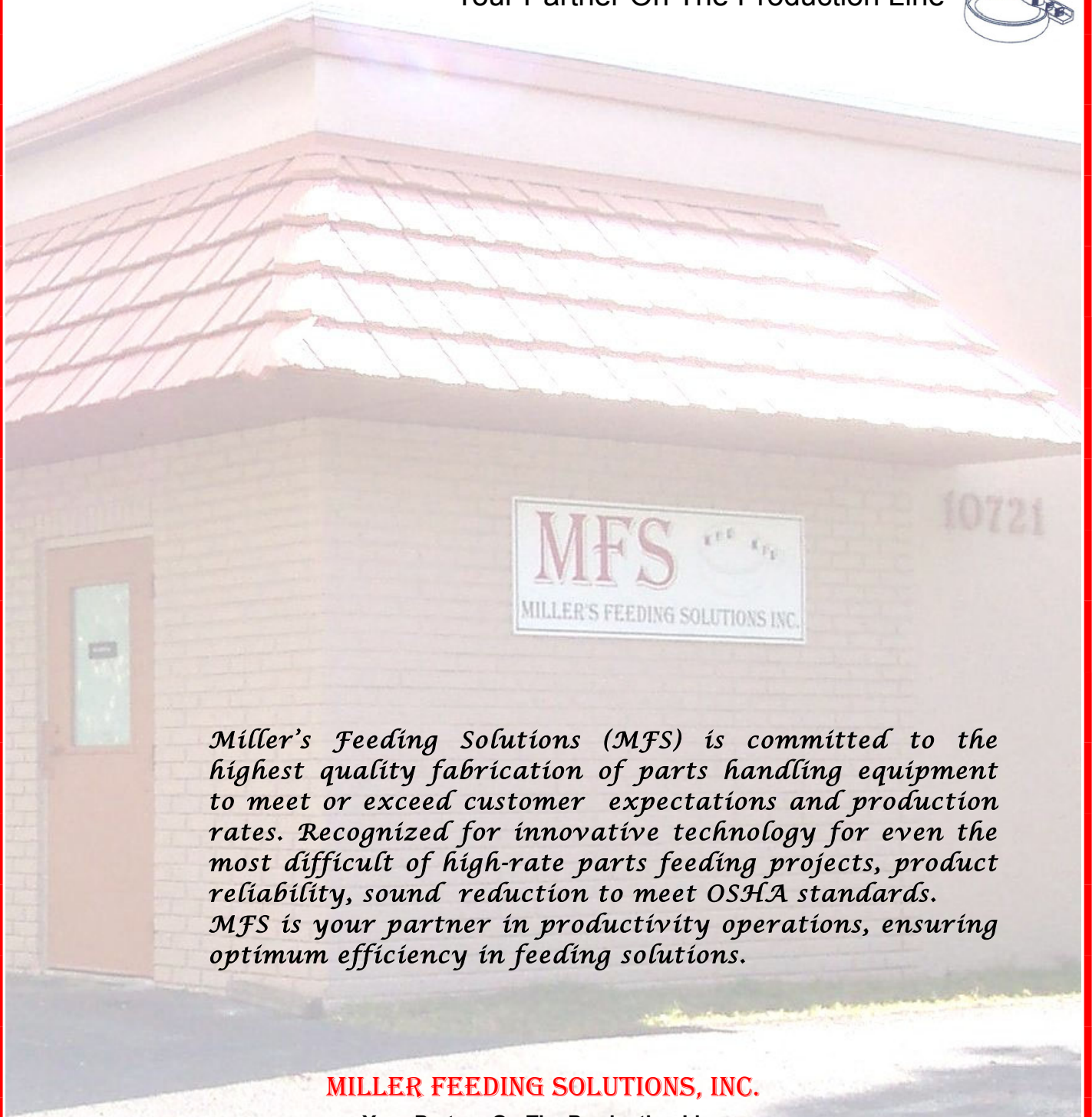
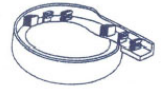


MILLER'S FEEDING SOLUTIONS, INC.

Your Partner On The Production Line



Miller's Feeding Solutions (MFS) is committed to the highest quality fabrication of parts handling equipment to meet or exceed customer expectations and production rates. Recognized for innovative technology for even the most difficult of high-rate parts feeding projects, product reliability, sound reduction to meet OSHA standards. MFS is your partner in productivity operations, ensuring optimum efficiency in feeding solutions.

MILLER FEEDING SOLUTIONS, INC.

Your Partner On The Production Line

MANUFACTURERS OF VIBRATORY FEEDER SYSTEMS AND PARTS HANDLING EQUIPMENT

10721 75th Street North, Largo, Florida 33777-1427

Phone: 727 541 5763 - Fax: 727 541 5548 - E-mail: mfdsouth@aol.com

MFS

Your Partner On The Production Line



Owners, Larry and Jerry Miller have been designing and building vibratory feeding systems and parts handling equipment since 1963. They worked with a major feeding company for over forty years until they founded MFS in 2002. Many MFS customers have been working with the Millers for decades. MFS and their craftsmen are highly valued and trusted for their product knowledge; with more than 200 years combined experience in manufacturing parts feeding systems and related equipment.

MFS offers excellence in engineered solutions for industrial parts handling equipment with manufacturing and medical applications. MFS parts handling equipment includes stainless steel feeder bowls, vibratory or centrifugal feeders, linear parts feeders, vibratory tracking, bulk-parts storage hoppers, heavy duty tables, parts elevators, parts conveyers and escapement mechanisms.

*MFS is proud to offer a one-year in-plant warranty covering all parts and labor. MFS then covers all parts, on base drives and inline drives, manufactured by MFS for **10 years**. This includes all springs, cross arms and coils. Virtually any breakable part on a base drive or inline driver is covered for **10 years**. Our talented staff is always available to answer any of your questions and provide complete and cost-effective quotations. All of our stainless steel feeder bowls are fully polished for a professional appearance, plus they have a much longer life than aluminum castings. MFS can handle even the most difficult problems, providing solutions at a competitive price. Whether it's a new system, a rework of another manufacture or in-plant service, MFS always responds to your call to action.*

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MFS Vibratory feeder bowls are second to none because they offer a smooth, constant feed with no bounce, solidly constructed to transmit vibration without dead spots. All of our stainless steel bowls are of the highest quality.

Features

- Laminated linings for sound reduction
- Fully polished, or sand-blasted stainless steel
- Much longer life than aluminum castings
- Constructed to meet all your exact output requirements
- Option to feed parts in either clockwise or counterclockwise rotation
- Specializing in precision orientation of even the most difficult feeding jobs
- All polyurethane, epoxy or Teflon-coated bowls may be custom colored for optimum aesthetics

Basic Bowl Sizes
from 6" to 42" in diameter



Custom Feeder Bowl Solutions

Our skilled staff of craftsmen are solutions specialists, helping to solve even your most difficult feeding and production problems.

Contact us today for a task-specific consultation

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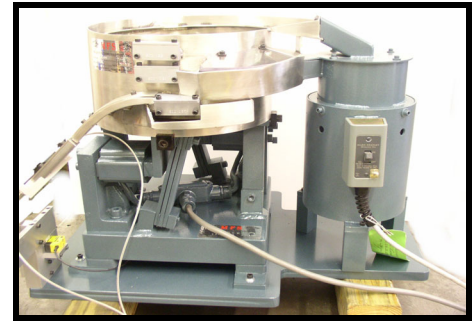
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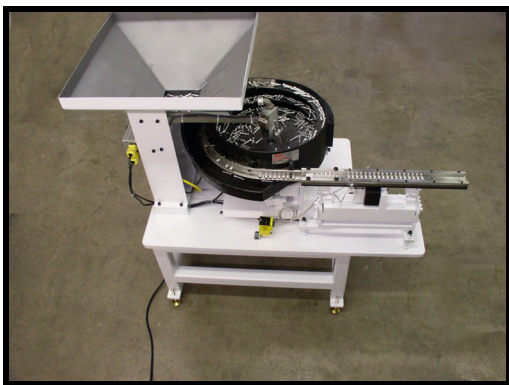


Features

- **Constructed to meet your exact output and space requirements**
- **Option to feed parts in clockwise or counterclockwise rotation**



A feed system with feeder bowl, gravity track and a spring de-tangler



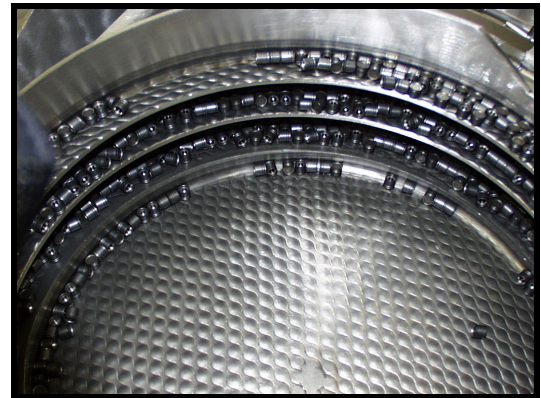
Typical Feeder Bowl with Base, Inline, Supply Hopper and Table

Specializing in precision orientation, high rate and the most difficult feeding jobs

Turnkey operation or custom installation

Stainless Steel Feeder, Base and Inline

- Custom painting, polishing, sand or bead blasted finish
- We also offer urethane, epoxy and Teflon finishes in the color the customer chooses. Urethane or epoxy are ideal finishes where high wear, noise or both are a concern; Teflon is a very good material for parts that do not climb the tracks well - such as foam, rubber or Styrofoam



This feeder bowl has an embossed track and bottom. This type of system works very well when parts are oily or sticky.

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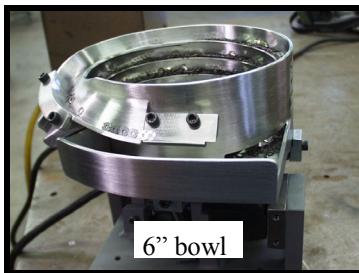
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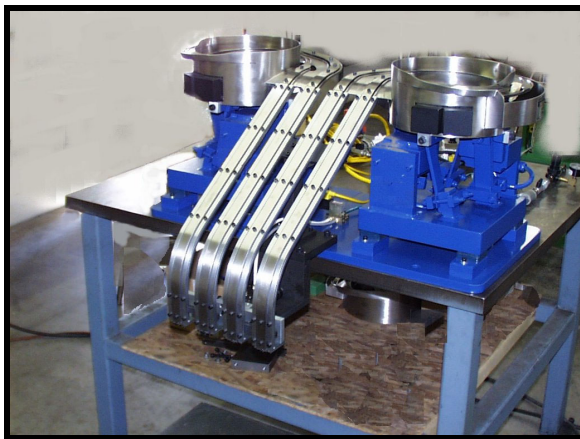


Standard Sizes Small 6" to Giant 42"

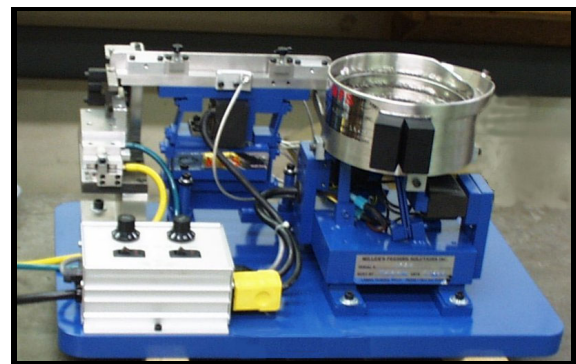
Custom sizes are available at customers request



A system feeding four lines of parts from each bowl for eight lines total, into a thirty degree gravity track with the final output at vertical.



Typical feed system consisting of a six inch feeder bowl, base-plate, a twelve inch track, dual controller and a shuttle



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Complete Feeder System with an Auxiliary Supply Hopper

Features

- Fully integrated turnkey system
- Constructed of heavy-gauge steel
- Custom welded table and base unit with vibration elimination pads
- Controls and sensors
- Adjustable isolation pads
- Fully functional inline track
- Tested to each individual customer feed specifications
- Custom painting



Engineering Excellence

MFS' experienced engineers produce accurate schematic designs to your parts feeding specifications with state-of-the-art CAD systems. MFS can handle even the most difficult parts problems, providing the best possible solutions at a highly competitive price. Whether it's a new system or a rework of another manufacturer, MFS engineers offer the best solutions to every parts handling equipment problem.

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Linear Parts Feeders

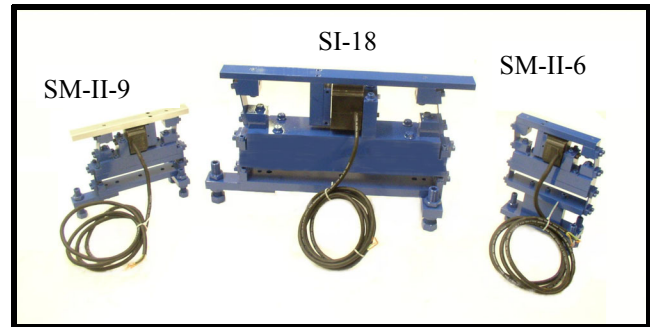
MFS also specializes in linear parts feeders, samples of which are featured on this page. Please phone, fax or e-mail us for custom options and specifications

Models:

MFS-S-I-14 MFS-S-I-18 MFS-S-I-27 MFS-S-I-36

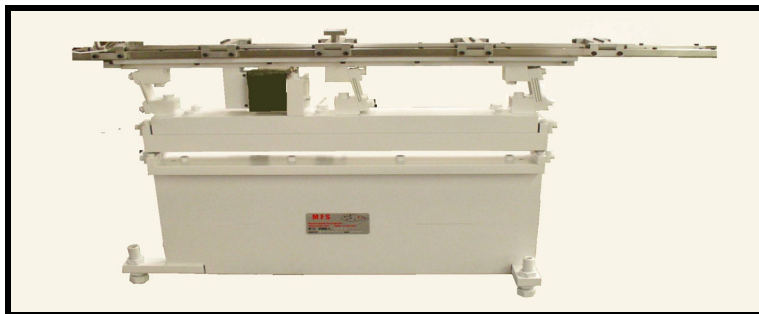
MFS-S-II-6 MFS-S-II-9 MFS-S-II-14

MFS-S-I series are generally for larger parts . The end number specifies the length of the tooling bar. Example a MFS-S-I-36 will have a tooling bar 36" long.



Features

- Fewer welds for ease of operation , less breakdown and ease of repair if a part fails
- Standard lengths from 6" to 36"
- Small footprint for best use of space
- Precision design and workmanship
- Customized to meet our time frame and delivery expectations
- Specializing in precision orientation and even the most difficult feeding jobs
- Constructed to meet your exact output requirements and manufacturing needs
- All inline drivers manufactured by MFS offer the **10 year** warranty on parts and a one year, in plant, warranty on labor



A model SM-I-27 with machined stainless steel track installed.



MFS offers tooled conveyors in virtually any length or width. Contact us for your specific needs

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HEAVY DUTY HOPPER/ELEVATOR

MFS now offers a wide range bulk storage options including the hopper/elevator pictured on this page. This system allows the customer to set their pre-filled hopper inside the elevator. The hopper gate is released allowing the product to feed into the elevator and then into the feeder bowl where they are oriented into the correct position for whatever machining or assembly situation is warranted.



At right and left; two views of the same hopper/elevator with an empty hopper in place.



At right; actual product being fed from the customer's hopper into the elevator



MFS is equipped to supply virtually any kind of auxiliary supply system to fit the customers requirements; contact us for more information.

Standard Floor Elevator

At right; a standard floor elevator feeding into a feed system enclosed in a sound enclosure. The floor level hopper allows easy access and long production runs.

Hopper sizes for the floor elevator run from 2 cubic feet to 10 cubic feet.



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MFS Controllers

MFS STANDARD CONTROLLERS



E050Y (5amp)



MF100Y (10amp)



MF150Y (15amp)

OPTIONAL REO CONTROLLERS



A typical 3 place controller with controls for a hopper, feeder bowl and inline.



MFT 16Y Hopper-Bowl-Inline Control HC6

OTHER OPTIONS

- Staco Controllers
- NEMA 12 Electrical enclosure with solid state controls
- NEMA 12 Electrical enclosure with Staco Vari-Trans

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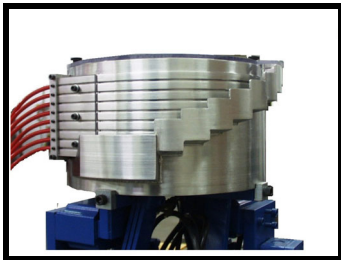
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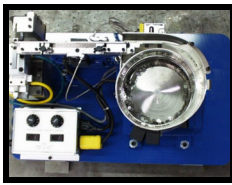


Picture gallery

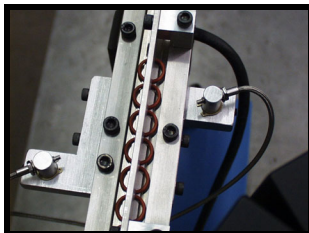
Some jobs, from the past, showing the versatility and quality of MFS



8 lines of parts fed out of an eight inch bowl



Mini-system top view



Typical "high-track" fiber optic sensors

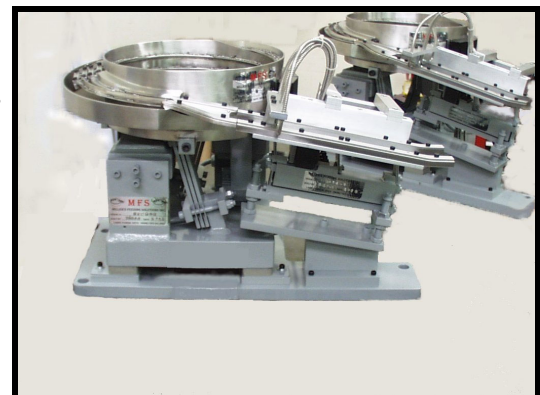


Complete system with a 24" feeder bowl, 36" long inline, table, auxiliary supply hopper, high track shut-off, controllers and a limit switch to control the parts level



Complete system consisting of a feeder bowl, inline, table and Reo controllers

Two systems set side by side . The tracks on these systems were offset/side mounted for machine space considerations



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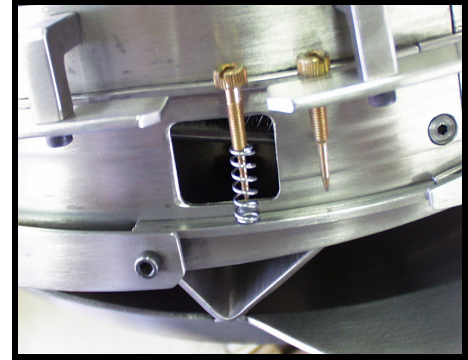
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Assembly Feed Systems

A wide variety of parts can be joined in an assembly bowl system . The most common is a washer assembled on a screw .



An assembly feeder bowl system feeding and assembling springs and screws in the same bowl. This system does the job of two bowls and eliminates the need for a separate assembly station saving space, time and money.

A close-up view of the actual assembly of the screw and spring. Parts that are not joined are returned to their original areas to be re-circulated back to the assembly area. Eventually all parts are joined and discharged from the system.

Parts Sorting Feed Systems



At many manufacturing installations unwanted or out of tolerance parts mixing is a problem. If hypothetically, the parts in the picture to the left are accidentally mixed together and the customer wants to feed only one of the parts, MFS is able to sort and feed whatever the customer desires, then purge the other parts from the system. For example, in this scenario the customer wants to feed the long socket head cap screw, the other parts will be sorted and purged. They may even be separated into different bins if the customer desires. Perhaps the customer then wants to feed the short socket head screw in the same bowl out the same discharge. Usually a simple adjustment is all that is required. Contact us if sorting parts is a benefit to your operation.

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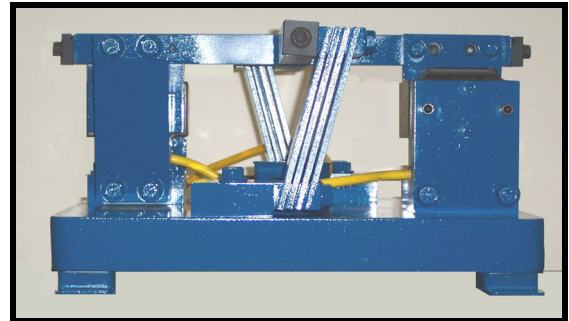
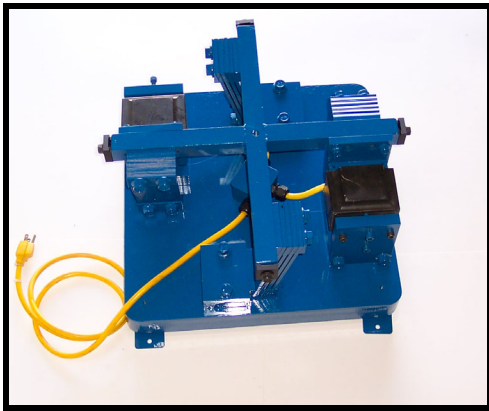
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NEW

MFS base drive units are constructed with bolt-together technology making any part easily replaceable. MFS warrants our units for **10 years** on parts and one year in plant labor on any base or inline driver manufactured by MFS.



Two views of an eighteen inch base unit

Basic “bolt-together” construction is similar, on all base and inline drives, regardless of size. Drive units are completely reversible by unbolting the spring packs, feet and coil mounts. The base plate is then flipped 180 degrees and all bolt on parts reassembled on the base. In this manner old drive units may be reused for a new application for a considerable saving on a new system.

Reversible Base Drives
Assembled Clockwise or Counter-Clockwise

10 YEAR Warranty

Standard Sizes from 6” to 36”

Other sizes available to fit the customers needs

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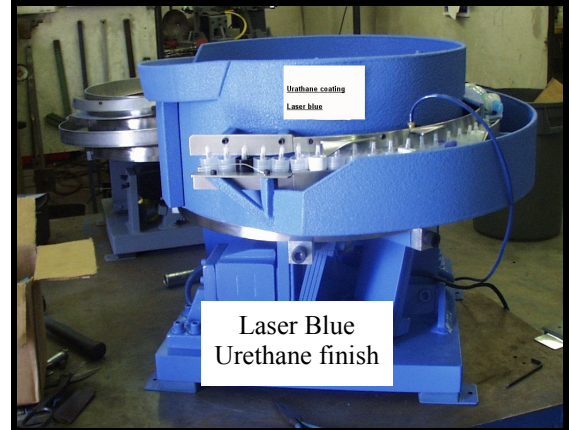
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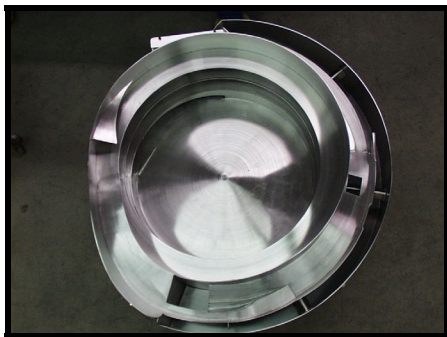
Coated, Polished or Blasted Finishes



Coatings

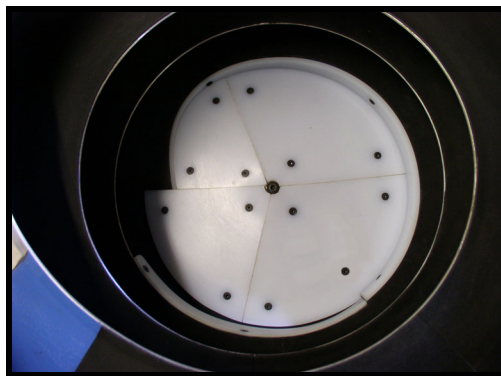
Systems may be coated in virtually any color the customer chooses, MFS offers urethane, epoxy and Teflon coatings. If a customer has other special requirements, let us know, we will do our best to meet your requirements.

Metal finishes



Example of typical polished feeder bowl

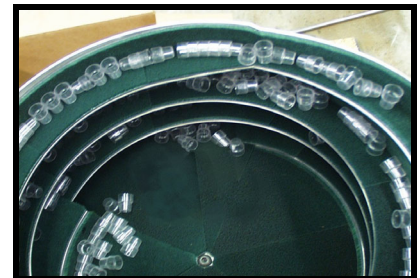
The standard finish for MFS feeder bowls is a highly polished stainless steel. In addition to the polished finish we also offer metal finished in glass bead blasting or a more coarse sand blasting .



The feeder bowl, to the right, has a UHMW and neoprene lining. The UHMW bottom is a very tough material resisting cuts and abrasion. The neoprene lining is both resistant to abrasion and wear plus having the additional benefits of greatly reducing sound and enhanced travel speed.

Other bowl linings

In addition to Urethane, epoxy and Teflon coatings MFS offers lining options including UHMW, Brushlon and Neoprene.



The feeder bowl above is lined with Brushlon. An advantage of Brushlon is sound dampening, faster feed travel and a great reduction in parts marking or scuffing. In certain applications Brushlon is the ideal lining. Contact us for more information.

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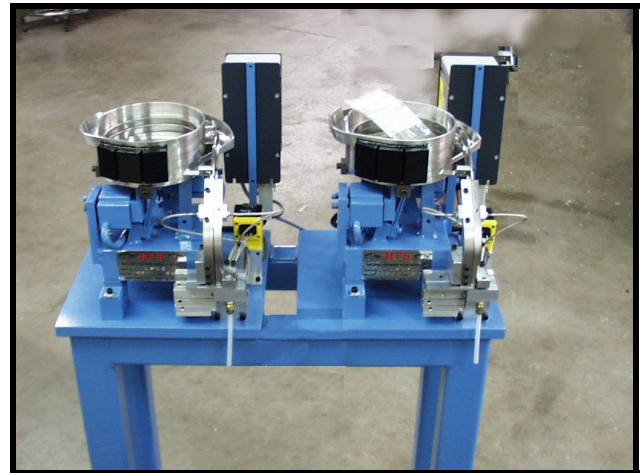
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WHAT ARE CUSTOMERS SAYING?

“The modification of the 5 feeder bowls by MFS was a complete success. The bowls had to be completely reworked in order to consistently supply parts to the machine. MFS not only accomplished this task, they also managed to remove almost all the air assist jets from the bowl. This air assist was a major problem with all of the original bowls and did not provide the part sorting as anticipated...The reworked bowl and inline feed tracks consistently supply parts properly oriented to the escapements. MFS also modified the sleeve feed centrifugal feed bowl... with the help of an air jet. This has virtually eliminated the jams...”

**Michael Kelly, Project Engineer
BD Diagnostic Systems,
Sparks, Md.**



“With extreme gratitude, thank you for your quick turnaround on the dual track bowl feeder as well as the two tracks. Your call to action in a time of dire need was commendable. We are now in the debugging process of the machine and so far, everything is looking good. Once we are finished with the grommet insertion machine, I would like to cordially invite you to visit the plant to see the exciting changes and opportunities for the Wave Radio CD final assembly line.”

**B. Cable Best
BOSE Southeast,
Blythwood,SC**



Typical system consisting of feeder bowl with base, inline, table, controller and a supply hopper and limit switch

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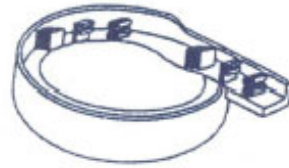
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