

# Ferrell-Ross Industrial Mill Magnet Assy.



Magnetic protection is imperative in ensuring quality products and protecting processing equipment. Metal contamination can occur throughout any stage of the manufacturing process. Suppliers can deliver raw product with metal contamination; process machinery can lose nuts and bolts or generate fines and human error can introduce tools or other items into the system. By properly placing magnetic separation at strategic locations, you can greatly reduce the risk and liability of metal contamination in your final product. This will also reduce costly downtime and repairs.

Ferrell-Ross offers magnet assemblies as an option on all its industrial roller mills. This magnet is designed to capture ferrous tramp metal contaminants from the product stream before passing through the rolls. This assembly then allows easy cleaning of the magnets simply by opening the feeder door.

Magnet assemblies are available as a factory-installed option when ordering a new mill. Retrofit kits are also available to add assemblies to existing machines.

## Features:

- Easy to Clean Outside of the Product Flow
- Permanent Magnets Last Forever
- Will Not Shut Down During Power Loss
- Stainless Steel, All-Welded, Rugged Constructed Assembly
- Adjustable Positioning to Product Stream
- High Capture and Hold Magnetic Surfaces
- Pre-Engineered for Fast Field Installation
- Feeder Door with Aspiration Ports
- OSHA Style Operator Guarding
- Little or No Maintenance, Except for Periodic Cleaning





Three evaluation methods are used in our design laboratory to maximize the potential for these magnet assemblies to do their job, that is, CAPTURE tramp iron and hold it for removal in an easy clean-off process by machine operator staff.

At Ferrell-Ross, we test for magnet holding power, magnet reach, and finally, a dynamic test for ACTUAL CAPTURE of tramp-iron/steel objects. This dynamic test is the truth-teller, and its results determine which of several designs and magnet technologies will be used. The magnets used in the Industrial Mill application are made of samarium cobalt, a rare-earth magnet material. They are extremely strong that are tolerant to vibration and high temperatures.

Samarium cobalt rare-earth magnets are on average six times stronger in magnetic power than a standard ferrite ceramic magnet. This provides strength, dependability, and longevity.

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