

GRAVITY FEED APPLICATIONS - MAGNETS INSIDE OF THE PRODUCT STREAM



DRAWER-IN-HOUSINGS FAMILY

Drawer-In-Housing (DIH) ■■

Drawer-In-Housings contain one or more rows of magnetic tubes to capture ferrous metal particles. Magnetic tubes consist of Ceramic or Rare Earth circuits encased in Stainless Steel. Two-row housings have tubes on alternating centers from one row to another, to force a zig-zag or cascading material flow over as many tubes as possible to achieve the best metal separation. Standard Drawer-In-Housings are designed for dry, free flowing product streams. If your product has a tendency to bridge or clog, talk to an IMI sales rep for one of our many solutions for difficult flowing product.

- Designed for ferrous metal separation in dry processing systems
- Separation is achieved with magnetic tubes assembled in a drawer
- Tubes are aligned on alternating centers for multiple row drawer configurations forcing the product flow in a zig-zag pattern while contacting the magnetic tubes
- The cascade effect ensures maximum tramp metal separation by causing product to have repeated and intimate contact with the magnetic tubes
- Tubes should be cleaned regularly to prevent build-up and wash-off of collected metal

SimpleClean™ Manual Drawer-In-Housings ■■

The SimpleClean™ Manual Drawer-In-Housing is an economical solution for applications with low levels of tramp metal contamination. The flanged housing comes with two or more banks of magnetic grate tube assemblies on alternating centers. Each tube is designed with a non-magnetic area located outside of the product stream for substantially easier cleaning/removal of tramp metal than traditional "manual clean" models on the market.

EZ-Clean Drawer-In-Housings ■■

The EZ-Clean design speeds up and simplifies the cleaning process, making frequent cleaning requirements user-friendly. To clean the tubes, the operator pulls two handles on the front of the housing which slides the magnetic drawer out of the product flow. As the drawer is pulled out, the tubes pass through seals which wipe off accumulated metal into a catch pan located under the wiper seal plate for proper disposal.

Self-Cleaning Drawer-In-Housings

IMI's Self-Cleaning Housings are ideal for remote magnet installation locations, applications requiring frequent cleaning and fully automated processing systems. The cleaning process is solenoid activated and can be controlled from a remote location with the flip of a switch. The cleaning cycle is completed in a matter of seconds. The air-actuated stripper seal assembly discharges collected tramp metal into a catch pan as the drawer opens.

Continuous-Cleaning Drawer-In-Housings

IMI's Continuous-Clean Housings are ideal for remote magnet installation locations, applications requiring frequent cleaning and fully automated processing systems. The patented design and cleaning process (U.S. PATENT NO. 8,132,674) is continuous and does not require the product flow to be stopped. The cleaning cycle is completed in a matter of seconds. The air-actuated stripper seal assembly discharges collected tramp metal into a leak-proof enclosure with a discharge chute that ensures clean operation and isolation of possible hazardous materials.



DIH EZ Clean

