



Grate Solutions For Specific Applications

TOP: A food production facility with a bag dump station was having problems with their magnetic grates utilized to purify incoming product of ferrous metal. Problems included safety issues with operators bending over to lift magnetic grates out of the bag dump, damage due to dropping grates or setting them too close to steel, operators frustrated with the time involved and tedious nature of manually cleaning Rare Earth Grates and Quality Control issues with inadequate magnet cleaning and documentation of metal contamination levels.

IMI's solution was a safe and innovative EZ-Clean drawer magnet that eliminates the time consuming and tedious process of manually removing collected metal. No more bending down and pulling out heavy magnetic grates. Cleaning is now easily accomplished by pulling the magnetic drawer of grate tubes through stationary outbound wiper seals. Collected metal falls into a catch pan located outside of the product stream for disposal. These magnetic grates can be finished to the customers requirements and retrofitted to existing bag dump stations.

BOTTOM: Customer required a Food Grade Class 1, Rare Earth Magnetic Grate to remove fines from blended Ingredients used in the food industry. The grate magnet is designed to sit inside of an existing hopper with the angles on the four corners supporting the grate as well as to allow the product to slide towards the magnetic tubes eliminating the chance that product gets past the magnet. The diverter in the center helps divert the product towards the tubes and adds strength to the structure.

For More Information On Tubes, Grates and Drawer-In-Housing Separators See Techsheets **TG-03A** and **TG-03B**.

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