



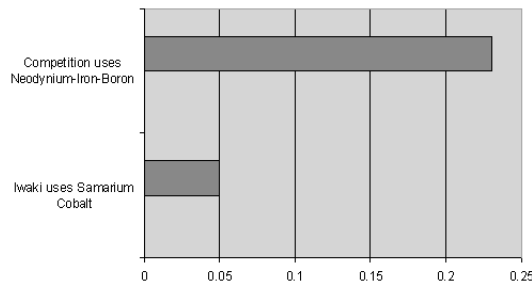
MDM Technical Solutions

Highest Quality - Best Value - Engineered Solution!

MAGNET MATERIALS MAKE THE DIFFERENCE

When reviewing available materials for our MDM inner magnets, Iwaki choose Samarium Cobalt for all of our MDM models. Samarium Cobalt has a lower loss coefficient ($\sim 0.03 - 0.05\%$ loss/ $^{\circ}\text{F}$) vs. Neodymium-Iron-Boron ($\sim 0.16 - 0.23\%$ loss/ $^{\circ}\text{F}$) and better resistance to chemical attack from permeation. While we could have chosen the less expensive option, we chose the BEST option!

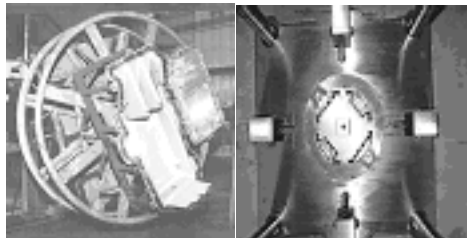
Iwaki has Less Loss Coefficient



Samarium Cobalt has a lower loss coefficient ($\sim 0.03 - 0.05\%$ loss/ $^{\circ}\text{F}$) vs. Neodymium-Iron-Boron ($\sim 0.16 - 0.23\%$ loss/ $^{\circ}\text{F}$)

MOLDING MAKES THE DIFFERENCE

After 50 plus years in the non-metallic magnet drive business we know the best way to produce consistent quality parts with absolute control over part thickness, resin density and surface finish is injection molding. While many manufacturers use the less expensive rotomolding process and produce integrally molded casing liners and metallic covers (requiring spark testing to confirm absence of voids), Iwaki MDM designs incorporate precision controlled injection molded liners ensuring the absolute best in quality, consistency and performance!



Rotomold and Injection Mold Examples

DETAILS MAKE THE DIFFERENCE

All too often the small engineering details are compromised in exchange for lower costs. Not so with the Iwaki MDM series! From oversized bearings with rifled grooves for enhanced lubrication, rounded edges on molded shaft support for minimized entrance losses, and dual anti-rotation flats for positive locking of parts, Iwaki MDM models never loose focus on the design details that collectively make the pumps the best in the world!



Mag Cap End View



Rifled Bearing



Front Casing Liner



Liner Ring