

Air Retractable Magnet Bar

ARM-Bar™

Overview

We designed the Air Retractable Magnet Bar (ARM-Bar™) for sputtering ferromagnetic materials: alloys of iron, cobalt and a few "rare-earth" elements.

With the magnet bar raised and lowered using air bladders, the ARM-Bar™ provides the utilization and up-time benefits of a rotary cathode while allowing safe and easy insertion into the target, adjustment and removal.

In order to penetrate the magnetic material, the ARM-Bar™ uses our strongest magnet bar, the QRM-Bar™.

Typical applications include EMI shielding, nickel sputtering as an adhesion layer for polyimide substrates, and magnetic storage.

Design Features

For 125 mm ID target tubes; In order to penetrate the magnetic material, uses our strongest magnet bar, the QRM

Produces a target surface tangential magnetic field flux of 830 Gauss with a 5-mm thick Ni sprayed tube target

Precisely locates the magnets a set distance from the target ID

Prevents accelerated wear or damage to support components

Provides a water flow pathway that is compatible with the QRM for effective cooling

