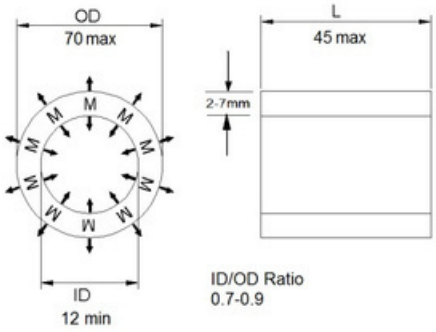
MAGWORKS
Magnetic Machining Experts

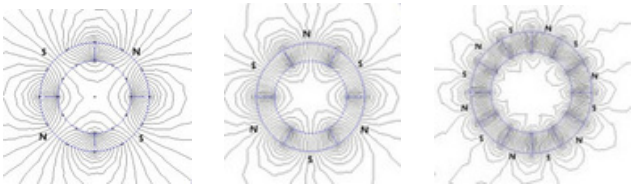
Radially Orientated Sintered NdFeB Rings

Radially Orientated Sintered NdFeB Rings in a single piece is a relatively new development, offering designers a cost effective alternative to using arc segments. A single radial ring is more robust and can reduce assembly time. It can also provide the option of more complex and consistent pole patterns, resulting in better performance.
Each new size requires special tooling for both the mold and magnetizing fixture, so these costs need to be factored in from the start.

Dimensional Range
OD ≤ Ø70mm
ID ≥ Ø12mm
Best ID/Od ratio 0.7-0.9
Wall Thickness 2-7mm
Length ≤ 45mm



Polarity (pole numbers are dependent on size)
Single Pole, 4, 6, 8 and more could be possible



4 pole 6 pole 12 pole

NdFeB Grades Available: N30-N45, N30M-45M, N30H-N42H, N30SH–N40SH, N28UH-N35UH
Coating: Phosphate, Ni, Ni-Cu-Ni, Zn or Epoxy
Typical Tooling Cost £2500 (£1000 mold tool, £1500 magnetizing Fixture)