

Axial Disc Magnets for Magnetic Encoders

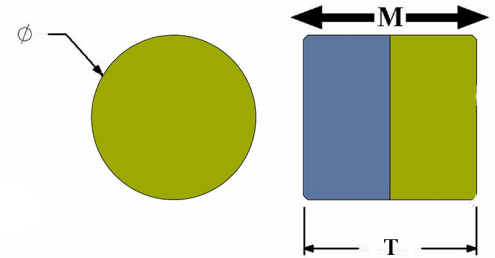
DEXTER BENEFITS AT A GLANCE:

- > AS9100C
- > ISO: 9001:2008
- > Clean Room Class 10,000 (ISO7)
- > Patented Magnetic Technology
- > In-house Fabrication
- > Component-level Traceability
- > Magnet and Sensor Integration

The axial disc magnets from Dexter come in standard sizes and technical specifications.

As with any product from Dexter, you can guarantee superior performance.

Use the technical specifications chart to find the magnet for your requirements.



Part Numbers:	2910042-1	2910043-1	2910044-1	2910045-1
Physical Data				
Diameter (ϕ)	2.0 +/- 0.1mm	4.0 +/- 0.1mm	6.0 +/- 0.1mm	8.0 +/- 0.1mm
Thickness (T)	0.8 +/- 0.05mm	2.5 +/- 0.05mm	2.5 +/- 0.05mm	2.5 +/- 0.05mm
Density	7.6 g / cc	7.6 gram/cc	7.6 gram/cc	7.6 gram/cc
Mass	\approx 0.02 g	\sim 0.24 gram	\sim 0.53 gram	\sim 0.96 gram
Linear Coefficient of Thermal Expansion (CTE)	5.0 to 8.0x10 ⁻⁶ °C ⁻¹	5.0 to 8.0x10 ⁻⁶ °C ⁻¹	5.0 to 8.0x10 ⁻⁶ °C ⁻¹	5.0 to 8.0x10 ⁻⁶ °C ⁻¹

ABOUT DEXTER

Dexter Magnetic Technologies is the global leader in specification, design and fabrication of magnetic products and assemblies. Since its founding in 1951, solutions designed by Dexter have and continue to positively impact our world daily – from life-saving medical devices to intelligent optics.

As the essential magnetic system partner, our teams of engineers and support staff are dedicated to delivering innovative technological solutions and services through a powerful combination of engineering and manufacturing expertise.

Magnetic Characteristics

Material	Neodymium	Neodymium	Neodymium	Neodymium
Energy Grade	35 MGOe	35 MGOe	35 MGOe	35 MGOe
Temp Coefficient of Magnetic Field Strength	-0.15% °C ⁻¹	-0.15% °C ⁻¹	-0.15% °C ⁻¹	-0.15% °C ⁻¹
Max. Operating Temp.	150°C	150°C	150°C	120°C
Coating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating

