

RHR-1T-50

High Magnetic Field Permanent Magnet Assembly

BFLUX TECHNOLOGY



TECHNICAL SPECIFICATION : RHR-1T - 50	
Part Number	RHR-1T-50
Magnetic field at the centre	≥ 1 Tesla (at 20 °C)
Inner diameter	Ø 50 mm (easy fit for a Ø48 mm rod)
Field direction	Transverse
Homogeneous volume	Centred cylinder Ø14 x 14 mm
Homogeneity within this volume	+/- 1%
Magnetic material	Sintered NdFeB
Operating temperature	5-50 deg C
Temperature coefficient	-0.2% / °C
Finish	Epoxy paint
Casing material	Aluminium
Mounting direction	Any
Dimension	
Outer diameter	Ø 172 mm (maximum)
Height	106 mm (maximum)
Weight	~12 kg
Shipping weight	15 kg
Shipping dimension	54 x 32x 25 cm

This compact cylindrical magnet assembly is designed to produce a large radial and uniform dipole field at the centre of the cylinder. It is made of an optimised arrangement of NdFeB magnet pieces. It produces a very high flux in a compact design. The field generated is permanent, and does not require any power supply.



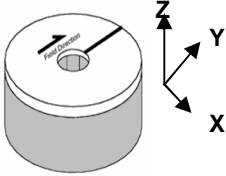
To order, contact us now:

info@bfluxtech.com

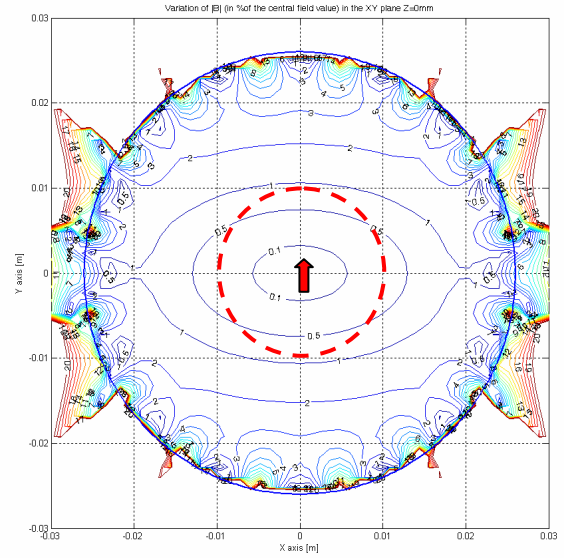
Field profiles

Inside the magnet: XY plane

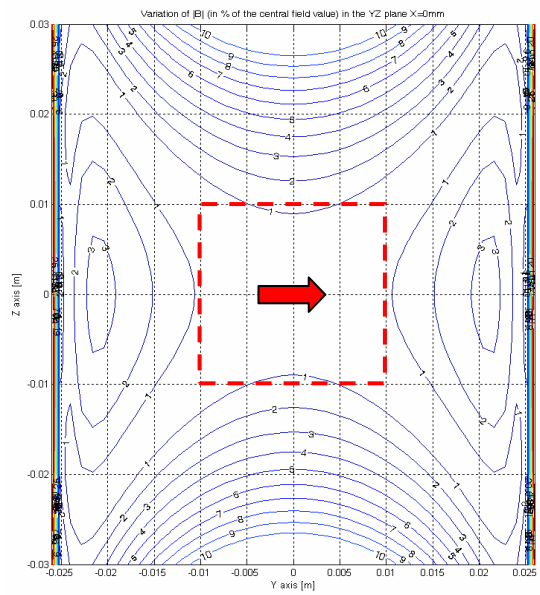
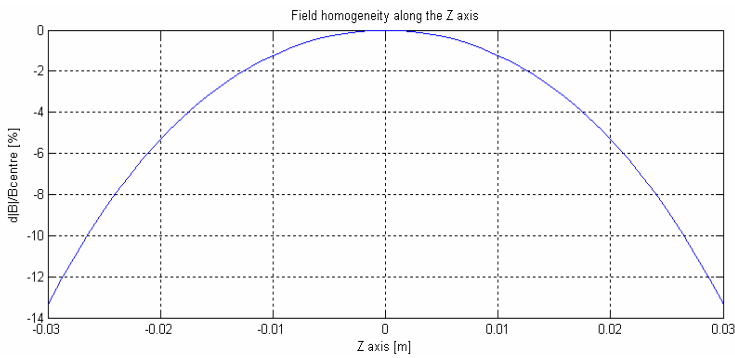
BFLUX TECHNOLOGY



*Not to scale

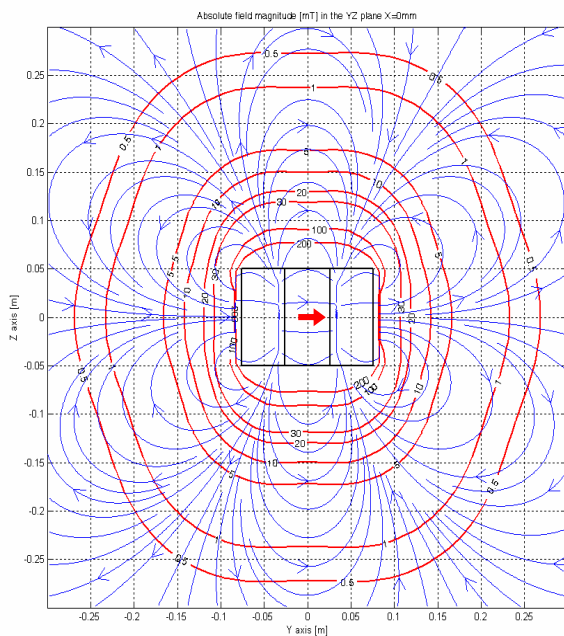


Inside the magnet: YZ plane



Stray field:

YZ plane



XY plane

