

MGA HCR 50-25

Helmholtz coil for DC current

DC magnetic field

- With one axis and 56 turns
- Inductivity 5,4 mH

**With two identical coils
connected in series.**



Overview

A Helmholtz coil consists of two identical wound coils, which are electrically connected in series and placed symmetrically along a common axis. The special feature is the large homogeneity of the magnetic field in the middle between the two coils.

Helmholtz coil arrangements of greater complexity can produce interference fields in different spatial axes.

If the geometry is fixed, the magnitude of the magnetic field is directly proportional to the number of windings and the applied current.

Technical data

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Number of axes	1
Outer diameter	50 cm
Inner diameter	44 cm
Distance between coils	25 cm
Number of turns	56

Coil factor (typical)	151 m ⁻¹
DC resistance (typical)	0,33 Ω
Inductance (typical)	5,4 mH
Rated current	32 A
Weight	appr. 40 kg

All information regarding appearance and technical data correspond to the current state of development at the time of release of this data sheet. We reserve the right to make technical changes. 182105

