

Magnetic field systems with extended uniformity area

This type of magnetic systems is developed for NMR applications, but can also be used for other tasks requiring the highly homogeneous magnetic field in the significant working volume.

The main magnetic system, built on the principle of dipole Halbach-structure, is complemented by the additional corrective system of magnetic elements, that allows to bring the homogeneity of the magnetic field to the level of 10^{-4} in the desired working volume.

Examples of magnetic systems:

Overall dimensions	Ø190×400 mm	Ø300×500 mm
Mass	~ 20 kg	~ 150 kg
Operating region size	Ø50×100 mm	Ø100×100 mm
Magnetic flux density in operating region	0.05 T	0.16 T



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