

Adjustable magnetic system with the possibility of the field vector rotation

The magnetic system of this field source is also built on the principle of nested cylindrical Halbach-structures. An important feature is the presence of two motors, controlled independently, so it is possible to manage the change not only the magnitude but also the direction of the magnetic field.

Because the device was designed for operation together with an optical microscope, the vertical size of the system near the working region is reduced to 90 mm. Stepper motors, that turn the two magnetic subsystems, are located on the sides of the casing.



Working bore diameter	36 mm
Size of the homogenous field area	Ø20 x 20 mm
Maximal field	1.05 T
System mass	40 kg

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