

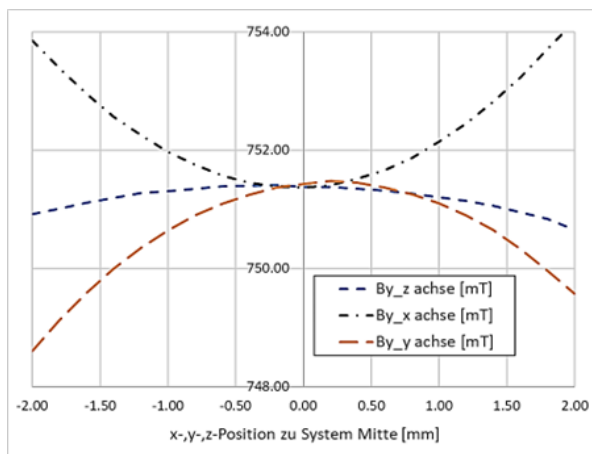
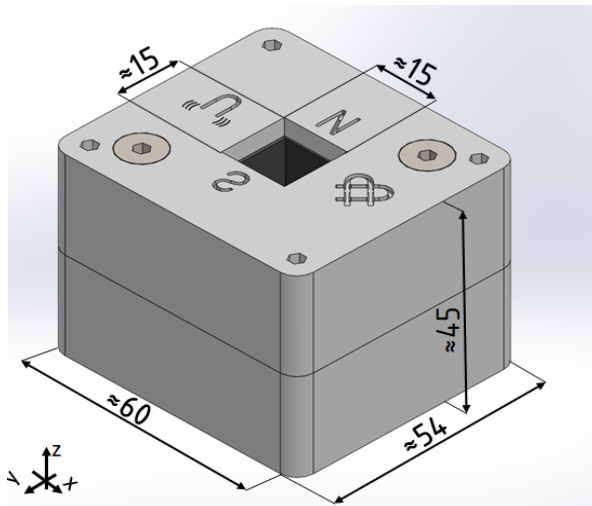
Magnet Technology Compact

Current Applications and Technologies with Permanent Magnets

02/2024

Field system for magnetising

Magnetfabrik Bonn presents a cost-effective field system that provides a field strength of more than 700 mT in the inner chamber of a compact installation space. Thanks to the robust design of the PA12 housing, the system can be used at temperatures of up to 80 °C.



We'd be happy to work with you
to develop your perfect
magnet solution.

Reaching our goals together!
Set us your challenge!

System specification

| Dimensions | l [mm] | x b [mm] | x h [mm] |
|--------------------------|-----------------------|----------|----------|
| Outer | 60 | x 54 | x 45 |
| Inner | 15 | x 15 | x 15 |
| Magnet material: | NdFeB (REFeB 320/111) | | |
| Housing material: | PA12 | | |
| Magnetic field (centre): | 750 mT \pm 5 % @RT | | |
| Order number: | 13.6.001 | | |

Areas of application

The field system is suitable for:

- Magnetising permanent magnets made from hard ferrite or AlNiCo
- Calibrating measurement devices
- As a lab system for the characterisation of materials in the magnetic field
- For magnetic cooling on the basis of magnetocaloric materials (projects for coolant-free refrigeration); for other physical effects and much more

Field homogeneity

In the centre over an area of ± 2 mm, the deviation is $\approx 0.5\%$ for the x and y directions and just $\approx 0.1\%$ in the axial z direction. This means that with a factory certificate of the central field strength, the system is also particularly suitable for the calibration of measurement devices.