Zero Gauss Chamber

Ambient magnetic field shielding

> Measuring point for reproducible and location-independent measuring results used for quality assurance, such as for cross-operational supply chains

> Measurements of residual magnetism on ferromagnetic parts are no longer significantly distorted by the ambient magnetic fields

> Passive shielding, no power consumption and maintenance-free

> Defined measuring point, good access to the measuring room

> Rugged platform design

Swiss Made

Ambient magnetic field shielding

For location-independent reproducible measurement values

Measurements of residual magnetism on ferromagnetic parts in the range <4 A/cm (~ 5 gauss) are typically significantly influenced by the induced earth's magnetic field. Due to the geometry and permeability of the material, induced magnetic fields can be amplified several times over. Depending of the slim, elongated parts in the earth's magnetic field (e.g. 0.4 A/cm), the measurement results may fluctuate by up to 4 A/cm at the same measuring point.

Component measurements inside the zero gauss chamber can be repeated at any location, allowing a global quality assurance between customers and suppliers.

The ambient magnetic field excluded from the chamber due to the high shielding factor enables precise measurements in any orientation. This is particularly relevant for elongated parts and materials with high initial magnetic permeability.
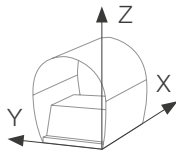

Zero Gauss Chamber

Measurement of residual magnetism of a milling cutter in the zero Gauss chamber. The demagnetized milling cutter has a residual magnetism of 0.1 A/cm.

Measurement of residual magnetism of the same cutter in the earth's magnetic field. The induced fields falsify the measurement result from 0.1 A/cm to about 2.1 A/cm

Technical data*

Type		NGK 17	NGK 21
Dimensions (mm)	W	510	610
	H	580	620
	D	500	600
Dimension of the platform (mm)	W	410	480
	D	280	360
Weight	kg	30	38
Shielding factor min		4.0 (x=2.4 y=10.7 z=16.7)	4.0 (x=2.4 y=12.6 z=17.0)

Delivery includes

> NGK 17

> NGK 21

*All informations are without guarantee