

Helmholtz Coils for SAE

The adjustable coils are designed to test the immunity of electronic equipment to magnetic fields, for instance according to European standards (CE), MIL-standards or SAE J551-17. The coils are mounted on caster wheels to enable a quick modification of the distance between them. The Helmholtz configuration is fulfilled when both coils are separated with a distance of 1.5 meters.



SPECIFICATIONS

Coil type	HC300
Coil diameter	300 cm
Frequency range	DC - 90 kHz
Maximum field in the centre	460 A/m (= 575 μ T) for 60 A (Helmholtz configuration)
Coil factor	7.7 ± 0.2 A/m / A (Helmholtz configuration)
Maximum current	30 A (continuous) / 60 A (1 min.)
Temperature elevation	21 °C after 30 min. @ 30 A
Connectors	4 mm banana
Dimensions / open (L x W x H)	324 x 250 x 335 cm (single coil)
Dimensions / closed (L x W x H)	324 x 250 x 179 cm (single coil)
Weight	83 kg (single coil)