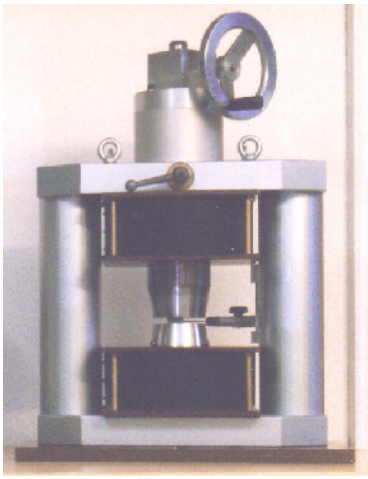
Electromagnets EM1, EM2 und EM3

for generation of constant magnetic field up to 4 Tesla
infinitely variable air gap from 0...110 mm
Pole diameter from 40 ... 150 mm



EM1 **EM2** **EM3**

Application:

Research – Development – Production – Laboratory- Training

Typical Application:
Magnetic Hysteresis-Investigation, Measuring magnetic Susceptibility, Hall-Effect-Investigation, NMR(Nuclear Magnetic Resonance) – Investigation, EPR (Electron Paramagnetic Resonance) – Investigation, biological Investigation and magnetising of Magnet materials.

The essential construction signs of our three standards electromagnets are its excellent homogeneity about a wide magnetic field area, upper-pole locking device, interchangeable pole shoes with different diameters and infinitely variable adjustable air gap. Conformist stream care is available to the electromagnets (also in 4-quadrant execution and with field regulation), EM2 and EM3 also water-cooled available.

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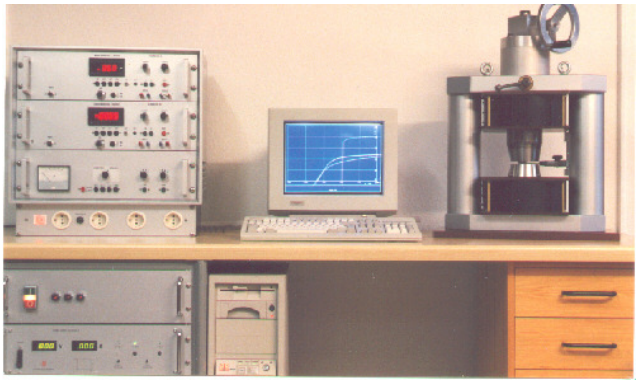
Sample applications:

With our magnet examiner MP2-C the electromagnet EM2 is used to the field production with the admission by demagnetisation curve and hysteresis loop.



Technical data EM1

Pole diameter:	80/92 mm
Pole distance:	0...50 mm
Max. duty rating:	10 %
Input supply voltage:	max. 200 V
Connected load:	max. 1000 W
Dimension:	35 x 24 x 51 cm
Weight:	ca. 45 kg

Technial data EM2

Pole diameter:	80/92 mm
Pole distance:	0...80 mm
Max. duty rating:	10 %
Input supply voltage:	max. 300 V
Connected load:	max. 3000 W
Dimension:	42 x 26 x 67 cm
Weight:	ca. 165 kg

Technical data EM3

Pole diameter:	150 mm
Pole distance:	0..110 mm
Max. duty rating:	100 %
Input supply voltage:	max. 130 V
Connected load:	max. 8500 W
Dimension:	65 x 46 x 90 cm
Weight:	ca. 550 kg*
	with water cooling system

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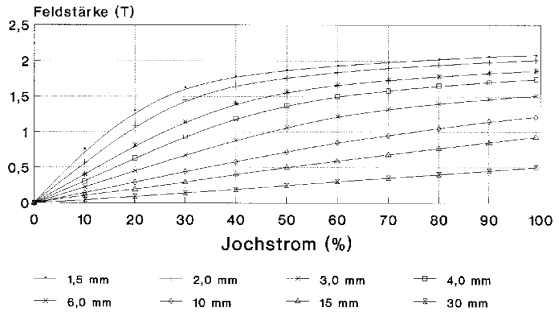
Elektromagnet EM1

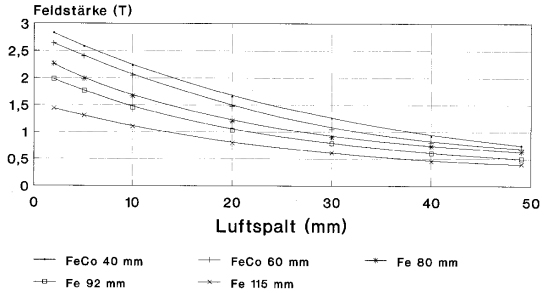
erzielbare Feldstärken *



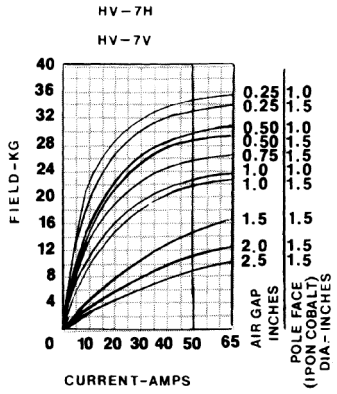
* in Abhängigkeit vom Luftspalt

Elektromagnet EM2

erzielbare Feldstärke *



* in Abhängigkeit vom Luftspalt
Strom: 13 Ampere



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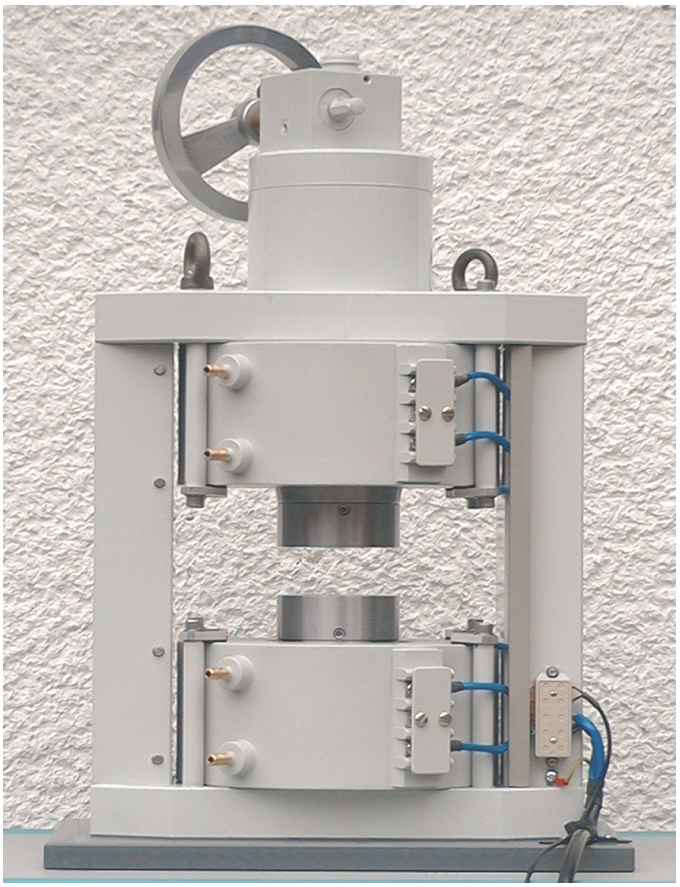

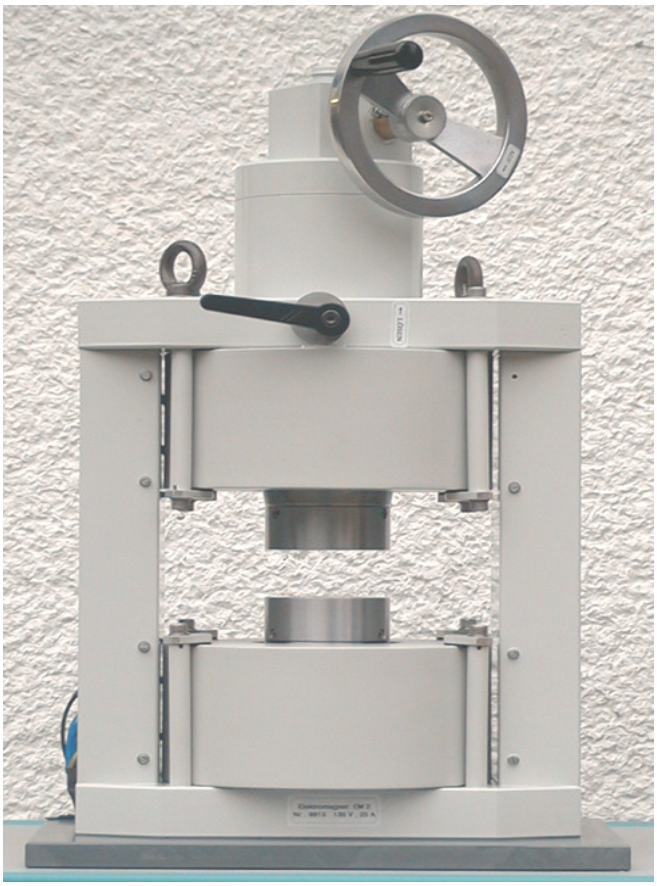

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