



- Coercivity measurement in open magnetic circuit according to international standard IEC 60404-7
- Highly accurate and repeatable results with fluxgate sensors
- High magnetizing field strength up to 200kA/m
- Magnetizing coil with inner diameter of 40mm
- Measurement of samples with various geometries
- CFT-Expert 2.0 software for control and monitoring
- Adjustable time settings for magnetization, dwell and demagnetization
- Forced air cooling with embedded fan
- Temperature monitoring and coil thermal cut-off
- Available as stand-alone unit or extension of BROCKHAUS MPG200 system

## Measuring category

Coercive field strength

Measuring Technology for Soft Magnetic Materials

## Coercimeter CFT 200

# Coercimeter CFT 200

## Operating principle

The coercivity measurements with Coercimeter CFT 200 are performed according to IEC 60404-7 standard. During measurement, the sample is placed on the holder and inserted into solenoid with excitation windings. The waveform of the magnetic field applied to sample is specified by selecting the maximum field strength and the rise, dwell, demag time periods.

The stray magnetic flux from the sample is detected with differential fluxgate sensors. The coercivity is estimated from the demagnetization curve in the second quadrant of hysteresis loop.

## Software CFT-Expert 2.0

- Setting of measurement parameters, such as applied field waveform by specifying the rise, dwell and demag time periods, max applied field strength [in %], demagnetization speed
- Real time display of measured curves and values, such as Applied field waveform, Magnetic field strength  $H$  [A/m], Coercivity [A/m], Second quadrant curve, Applied current [A], Coil temperature [°C]
- Export of measurement data, such as Rise time  $t_r$  [s], Dwell time  $t_{dw}$  [s], Demag time  $t_{de}$  [s], Max. applied field strength  $H_{max}$  [A/m], Coercivity  $H_c$  [A/m], Demagnetization current  $I_{de}$  [A] at coercivity point, Coil temperature [°C] at the end of measurement

## Technical Data

Main construction features	Cuboid housing comprising solenoid and fluxgate sensors surrounded by magnetic shielding Forced air cooling
Magnetisation coil dimensions	Inner diameter ID=40mm, length L=300mm
Max. magnetic field strength	200kA/m
Shape of samples	Any sample shape with max. length of 100mm
Dimensions	H: 316.5mm W: 244mm L: 520mm Weight: 20kg
Power supply	Voltage 100V DC, current 32A DC
Accessory	Universal sample holder for different types of geometry



Coercimeter CFT 200



Sample holder



Front



Rear side

Other measuring systems

**Electrical Steel: C 510**

**Electrical Steel: MPG 100/200 D**

**Inline: EBA**

**Stator Tester BST**

Product divisions

**Measuring Technology for Hard Magnetic Materials**

**Magnetizing Technology**

**Services**