

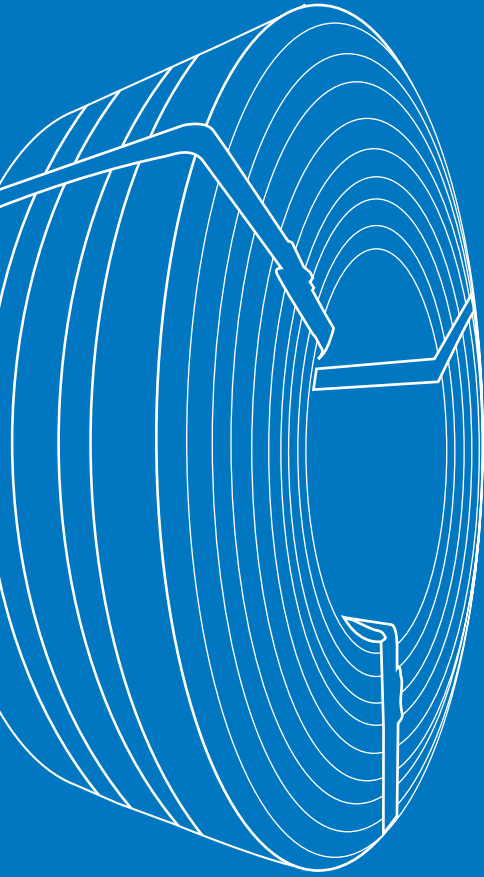
MATERIAL

SENSORS

MEASURING SYSTEMS

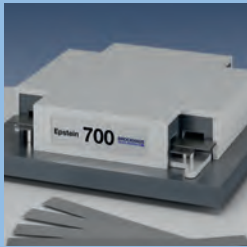
RESULTS

- Grain-oriented and non-grain-oriented electrical steel
- All other soft magnetic materials
- Amorphous material
- Iron powder
- All quality grades / material characteristics (fully- and semifinished)
- All geometries, e.g. sheets, coils, strips, punched parts, ring cores, stators



- Coils

LABORATORY



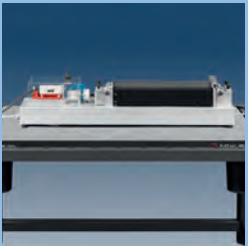
Epstein frame



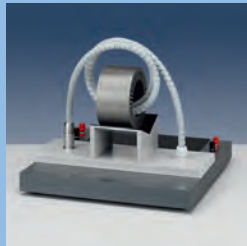
Single-sheet tester



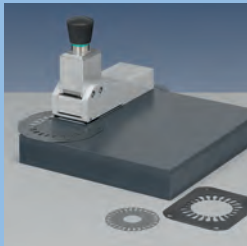
Strip measuring sensor



Magnetostriction tester



Ring sensor BST-M

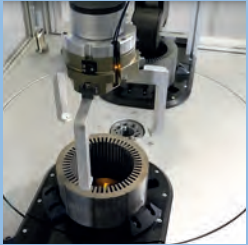


Punched part sensor

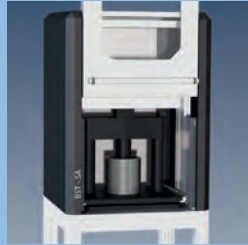


Localized flux sensor LFS

STATOR TESTER



BST-FA

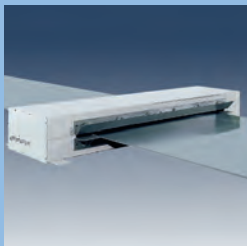


BST-SA

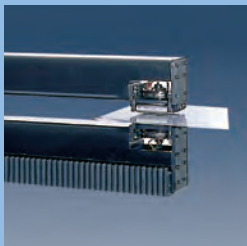


BST-L

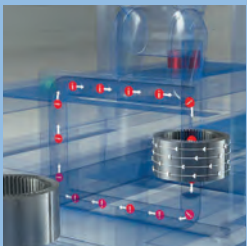
PRODUCTION LINE



EBA inline measuring coil



TGD C-frame



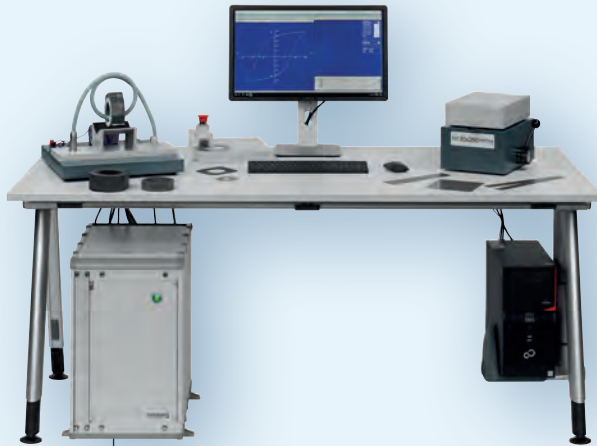
Inline Stator Tester
BST-FA

All systems are operated by comprehensive BROCKHAUS® software applications.

Measuring Unit
MPG 100/200 D



Measuring
Instrument C 510



- Field strength
- Power loss
- Hysteresis loss
- Eddy current loss
- Coercive field strength
- Permeability
- BH-curve
- Remanence
- Magnetic flux
- Polarization up to 2T

Frequencies 12 to 100 Hz
Field strengths up to 10.000 A/m

Frequencies DC, 3 Hz to 20 kHz
Field strengths up to 100.000 A/m
According to IEC 60404-2,-3

BST-L: Power loss of stator back iron and teeth
Relative magnetic properties for evaluating influences
of manufacturing processes

Coercivity
According to IEC 60404-7

Stacking factor
According to IEC 60404-13, ASTM

Surface resistance
According to IEC 60404-11, ASTM A717-01

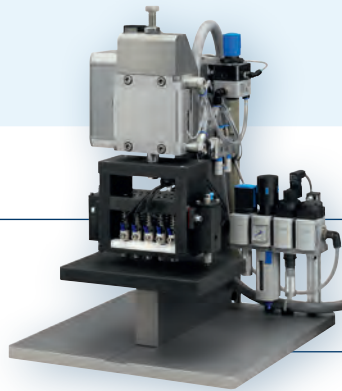
Width of the inserted material
Determination of holes and cracked edges
Detection of surface impurities

Power loss
Polarization
Field strength

Loss values with monitoring
of local variations
Map of loss values



Stacking Factor Tester
SFT 300



Franklin Tester
FT 600

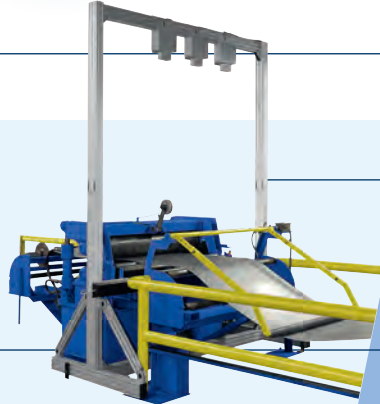


Coercimeter
CFT 200

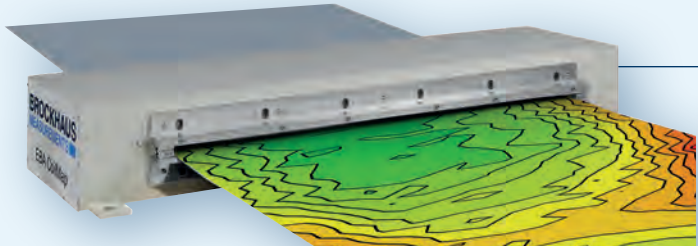
Inline Measuring
Systems EBA/TGD



Hole Detection /
Surface Inspection



EBA Coil Map



BE SURE OF PERFECT RESULTS.

WWW.BROCKHAUS.COM



QUALITY

BROCKHAUS MEASUREMENTS is known all over the world as a market leader – primarily due to the high-quality of its sophisticated technical equipment. The exclusive use of high-quality materials, best trained employees and the use of state-of-the-art machinery guarantee the renowned long-life cycle of our products. Extensive verification processes in the selection of suppliers and material as well as in the production ensure the top quality of all BROCKHAUS products. This is proved by the very large number of installations at extremely satisfied customers around the world. BROCKHAUS products are in accordance with national and international standards (IEC 60404). BROCKHAUS is certified according ISO 9001.

SERVICES



Measuring Laboratory and Calibration Service

Professional measurement and calibration service

- For testing soft and hard magnetic materials according to IEC 60404
- Preparation of reference samples
- Calibration and testing of measuring instruments
- Testing documentation and certification
- On-site service

- Reference samples calibrated in our calibration laboratory accredited acc. to DIN EN ISO/IEC 17025:2018

– Epstein samples acc. to DIN IEC 60404-2:2008-06

– Single sheet samples acc. to DIN IEC 60404-3:2010-04



Automated Measurements

All our products are also available as automated systems. The most impressive fully-automated measuring lines are our Epstein-, Single sheet-, Stacking- and Franklin measuring systems.

Impressive videos of these systems are available at the BROCKHAUS YouTube channel.



R&D

As a market leader we continuously seek to match the future needs of our customers. Hence we dedicate significant resources to research and product development. Due to our innovative culture and work approach we frequently gain access to private-public research programs, as well as cooperations with highly regarded universities and institutes.

Our company's vision states that „we constantly strive for a better understanding of our customers“ and that „this understanding enables us to optimize our performance“. All our research is dedicated to improving the competitive edge of our current and future customers. We are convinced that „through this we will become a partner to our customers“ in times of rapid evolution in the fields of energy efficiency and e-mobility.

BROCKHAUS
STEEL 

BROCKHAUS
ENVIRONMENT 

BROCKHAUS
MEASUREMENTS 