



- Semi-automatic stator tester with open-close split-coil for fast magnetic measurements
- The split-coil comprises electrical circuits of the primary and secondary windings connected using copper pins and sockets
- The split-coil pins are configured in various combinations of primary/secondary turns for optimized measurements within broad frequency range
- Integrated air-flux compensation allows testing of wide range of stator sizes
- Measurements are performed in accordance with international standard IEC 60404-6
- Results include absolute magnetic properties such as specific power loss, polarization, magnetic field strength, permeability, etc.
- Passive gas springs enable easy lifting of split-coil and safety door
- Caster wheels provide full mobility
- Compatible with MPG200 measurement unit

## **Measurement results**

Polarization J [T] Magnetic Field Strength H [A/m] Specific Power Loss Ps (W/kg) Coercivity Hc [A/m] Remanence Jr [T] Relative permeability µr JH loops JH magnetization curves

# **Stator Tester BST-SA**

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## **Operating principle**

The BST-SA tester allows fast, reliable and absolute magnetic measurements of stator cores. The rapid measurement set-up involves three simple steps including positioning of the stator core on retractable tray, sliding the tray with stator into measurement position and closing the split-coil integrated with safety door.

The measurement procedure is controlled with the MPG software defining magnetization parameters, testing sequence and signal inputs from different electrical circuits of the split-coil.

The measurement results include absolute magnetic properties such as specific power loss, polarization, magnetic field strength and permeability that can be used for characterisation of stators after different manufacturing processes, such as cutting, stacking, winding and housing.

## **Technical Data**

### Dimensions of stators that can be tested with BST-SA

Minimum ID of measured stator	95mm
Maximum OD of measured stator	300mm
Maximum height of measured stator	280mm
Maximum weight of measured stator	40kg
Magnetization options	Sinusoidal polarization
	Arbitrary polarization waveforms (free curves)
	Higher harmonic

#### **Measurement ranges**

Magnetic field strength H	up to 5.000 A/m (depending on stator size)
Magnetic polarization J	up to 2.3T (depending on stator size and permeability)
Frequency range	AC 3Hz – 20kHz
Maximum current (AC)	52A
Maximum voltage	100V

#### Dimensions

870mm x 800mm x 1830mm (length x width x height) with closed door and tray in		
1200mm x 800mm x 2230mm (length x width x height) with open door and tray out		
Weight	180kg	



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