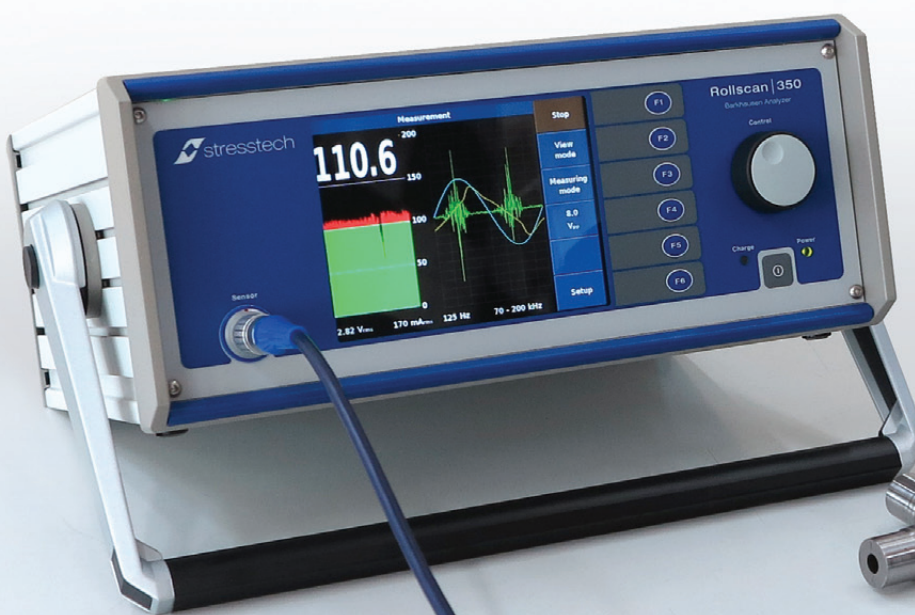


Rollscan 350

Digital Barkhausen Noise Analyzer

Power and efficiency
for improving product quality



Rollscan 350 saves on material and

Rollscan 350 is a digital Barkhausen noise analyzer. It is designed for surface quality control and testing of near-surface defects such as grinding burns, heat treatment defects, as well as changes in stress and microstructure in a wide variety of ferritic steel and other ferromagnetic materials.

Inspection with Rollscan is fast and can easily match the production rates of most manufacturing lines, enabling process control in real-time. As a result, significant quality improvements and savings on material and labor expenses have been realized by companies using the Rollscan system.

A large selection of sensor types makes Rollscan systems flexible. Piston pins, gears, bearing rings and rollers, camshafts and crankshafts, and landing gears are just some of the parts that can be successfully tested with Rollscan 350.

Fast and versatile

- Applicable for ferritic steels, iron, nickel, and cobalt
- Fast response by digital signal processor
- Wide range of adjustable measurement parameters
- Bursts and magnetizing voltage and current curves are visible for the user
- A sensor with pre-amplifier
- Uses the same sensors than Rollscan 250 and Rollscan 300
- Rollscan 350 system includes main instrument, sensor and software
- Data acquisition software ViewScan is optional
- Uses no consumables



labor expenses



Main features

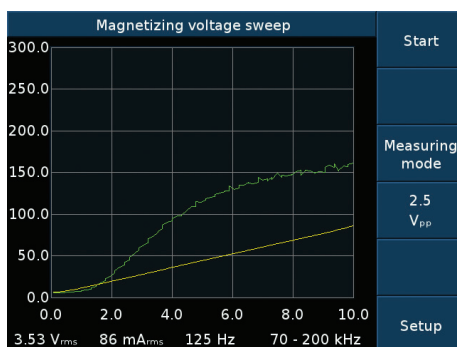
- Values of parameters, voltage and current changeable with a control knob
- User-friendly parameter set up windows
- Automatic magnetizing voltage and frequency sweeps to find optimum measurement parameters
- Sine and triangle magnetizing wave forms
- Magnetizing frequency
 - sine wave 1–1000 Hz
 - triangle wave 1–150 Hz
- Magnetizing voltage peak to peak
 - 0–16 V_{pp}
- Demagnetizing
- Analyzing filter ranges, kHz
 - 10–70
 - 70–200
 - 200–450
- Embedded computer running Linux operating system
- User-friendly interface in several languages
- User password
- Ethernet and USB connections
- Real time calculations

Technical specifications

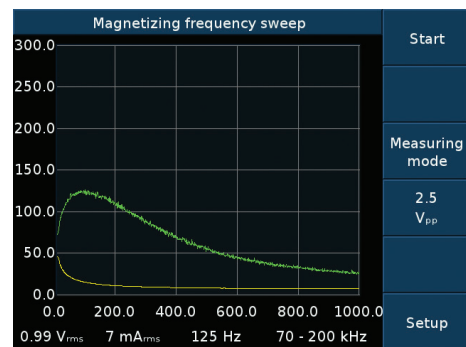
- AC power source/voltage 90–240 V AC, 47–63 Hz single phase
- Maximum inrush current (at cold start)
 - 14 A at 100 V AC, 28 A at 200 V AC
- Normal power consumption max. 100 VA
- 1 channel
- Enclosure protection IP20
- Operating humidity 10–90 %, non-condensing
- Storage humidity 10–90 %, non-condensing
- Operating temperature 0–40 °C
- Operating altitude up to 3000 meters
- Weight 6.8 kg
- Dimension W x H x D mm
 - 364 x 156 x 326 without handle
 - 420 x 156 x 380 with handle



Clear and user-friendly interface makes setting up the measurement parameters and following the measurement easy and fast.



Magnetizing voltage sweep show saturizing of the Barkhausen Noise signal helping to optimize the magnetizing for measurement.



Magnetizing frequency sweep shows the frequency, with which the Barkhausen Noise signal is highest and thus the resolution of Barkhausen Noise best for finding defects.