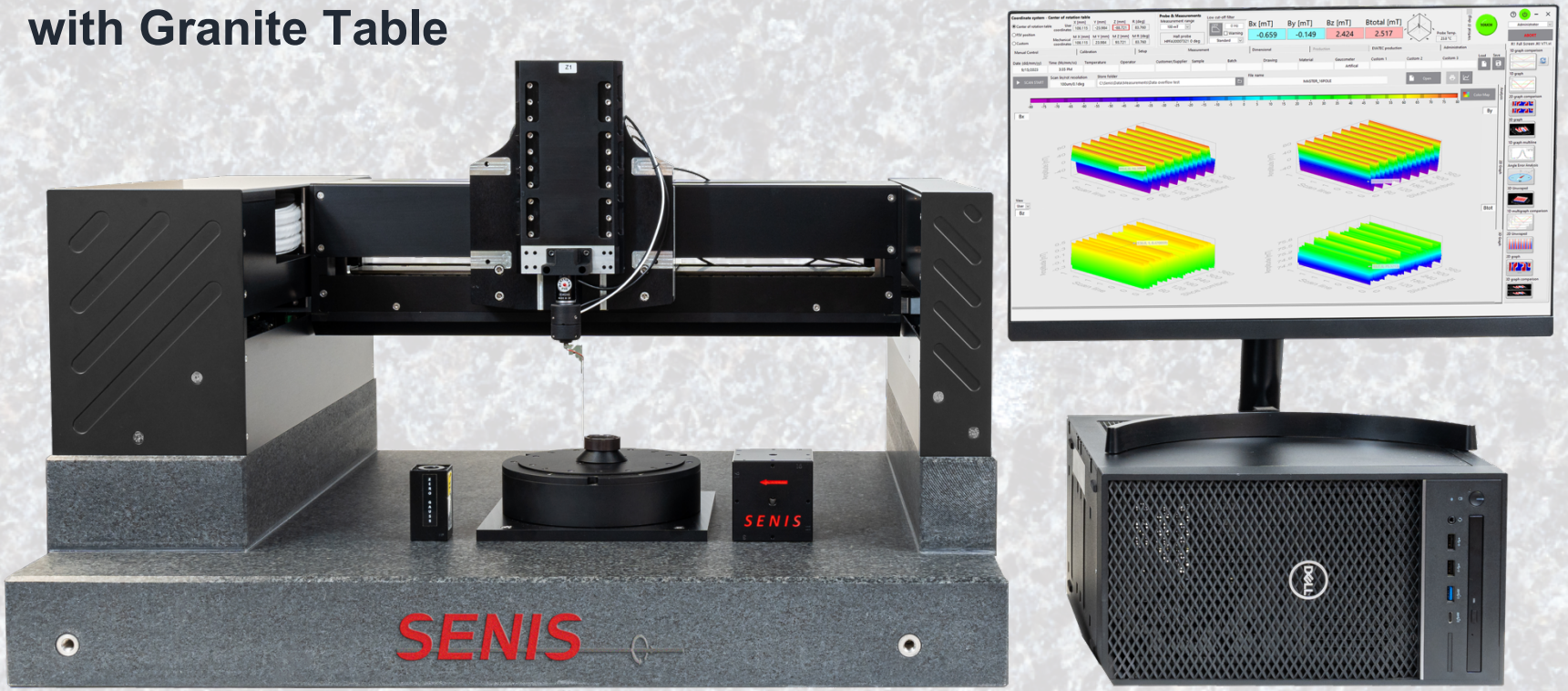
SENIS

magnetic & current measurement

New MMS-1G-RS

SENIS Magnetic Mapping System with Granite Table



PRECISION MAKES THE DIFFERENCE

MMS-1G-RS

SENIS Granite Magnetic Field Mapping System. Absolutely accurate.

DESCRIPTION:

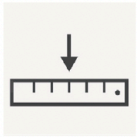
MMS-1G-RS is the most accurate 3D Magnetic Field Mapping System ever made. The combination of new extremely precise Cartesian Moving Platform and unrivaled SENIS exclusive 3D Hall measuring technology pushes the limits of the magnetic field measurements to the next level. MMS-1G-RS allows to accurately and repeatably position the probe as never before, even with very fast probe movements. SENIS mapper software empowers users with full control to program the scanning paths and select from the wide range of available analysis options. MMS-1G-RS allows easy customization that makes it capable of measuring nearly any magnetic system shape and size used in customers applications.

KEY FEATURES:

- Compact build and accurate structure
- High overall accuracy with granite platform
- High probe positioning precision
- High speed of probe movement
- Clean room compatible
- 24/7 operation possibilities
- Easy customization

3-Axis Hall probes

Accurate mapping



Position repeatability

Crack detection

Measurement range

TECHNICAL SPECIFICATION:

Minimal distance of MFSV (Magnetic Field Sensitive Volume) from the magnet	0.3mm
Absolute movement accuracy	< 3 µm
Position repeatability	< 0.5 µm
Position resolution	5 nm
Movement Speed	1 µm/s to 0.5 m/s
Measuring space	Standard 300 x 300 mm Up to 4 m^2
Hall Sensor measuring range	Standard: 100mT Optional: 500mT Optional: 2000mT
Hall sensor resolution	Better than 0.02% for measurement range > 200mT Better than 0.05% for measurement range > 100mT
Hall sensor accuracy	Typical 0.1% of full range (at 23ºC)
System sampling rate	Standard rate (calibrated): 10 kSamples/s per channel 60 kSamples/s, for 3-channels acquisition 200 kSamples/s, for 1-channel acquisition
Magnetic Field Frequency Bandwidth	DC to 25 kHz (-dB point)

MMS-1G-RS is the newest SENIS Magnetic Field Mapping System.
The customization can be easily achieved for both, software, and hardware.
We are looking forward to meeting your measurement challenge.

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