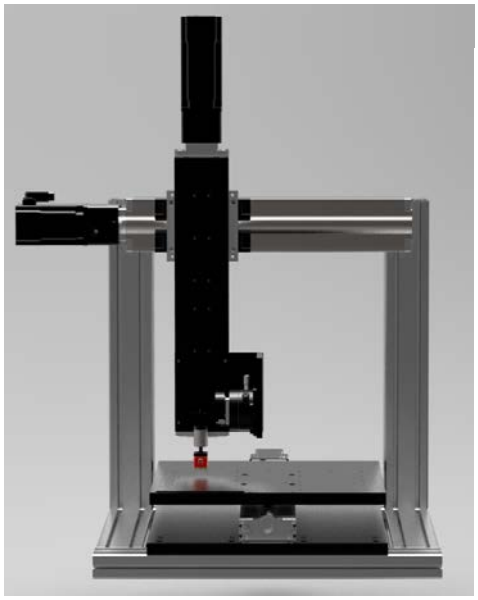
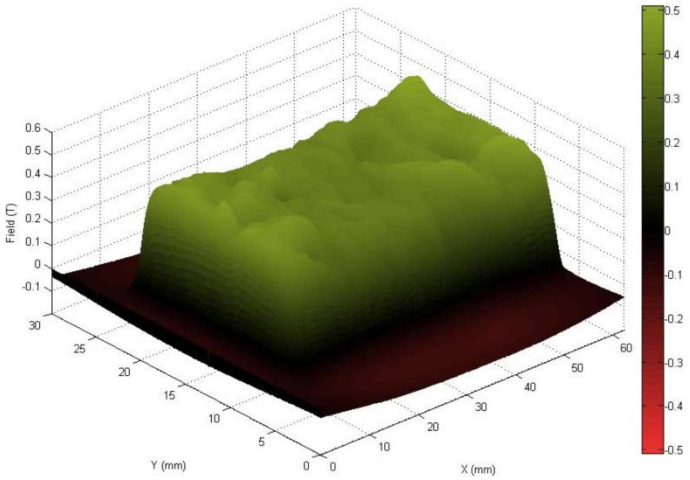
MAGCAM
advanced
magnet
inspection

Magcam Portal Scanner

Magcam's high speed Portal Scanner is a motorized scan stage with an integrated MiniCube1D or MiniCube3D magnetic field camera. It uses an image stitching algorithm to measure large areas at high speed. The Portal Scanner allows measuring large magnets and magnet assemblies. The scan stage is controlled automatically by the MagScope Measurement & Analysis software.





Left: Magcam Portal Scanner with 300mm x 300mm x 250mm scan range. Right: Automatically recorded and stitched magnetic field image of a large magnet with a field of view of 60mm x 30mm.

Benefits:

- **30x faster than single sensor scan systems**
- **More stable measurements than single sensor scanners**
- **Advanced data analysis through Magcam's powerful MagScope software**

Features:

Hardware:

- XY scan range: **300mm x 300mm**
- Z scan range: **250mm**: this is the maximum height of the magnet/assembly under test
- Integrated MiniCube or MiniCube3D magnetic field camera
- Mapping speed: 120mm²/s (full resolution)
- Dimensions (LxDxH): 700mm x 700mm x 1000/1300mm (with Z axis at minimum/maximum position).
- Bi-directional repeatability per axis: +/- 3µm
- Positioning accuracy of X and Y, and Z axes: 24µm
- Integrated calibrated positioning frame for accurately positioning magnets in a reproducible way
- Load capacity: on XY stage: 1500N
- Motor type: synchronous servomotor on all axes
- PLC controller
- Optional motorized rotary axis for additional Rotor Inspector functionality

Software:

- The scan stage is controlled automatically by the MagScope Measurement and Analysis software.
- Automated scanning and image stitching

The stitched large area images can be analyzed in the same way as individual camera images.

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