

MATrSM- Up to 10 Tesla Setting Magnets

Volume Production

The Magnetic Solutions MATrSM offers a range of flexible setting magnet tools for process development and production. The tool is provided in three standard platforms with magnetic fields up to 10 Tesla (MATr10000-SM), 5 Tesla (MATr5000-SM) and 3 Tesla (MATr3000-SM).

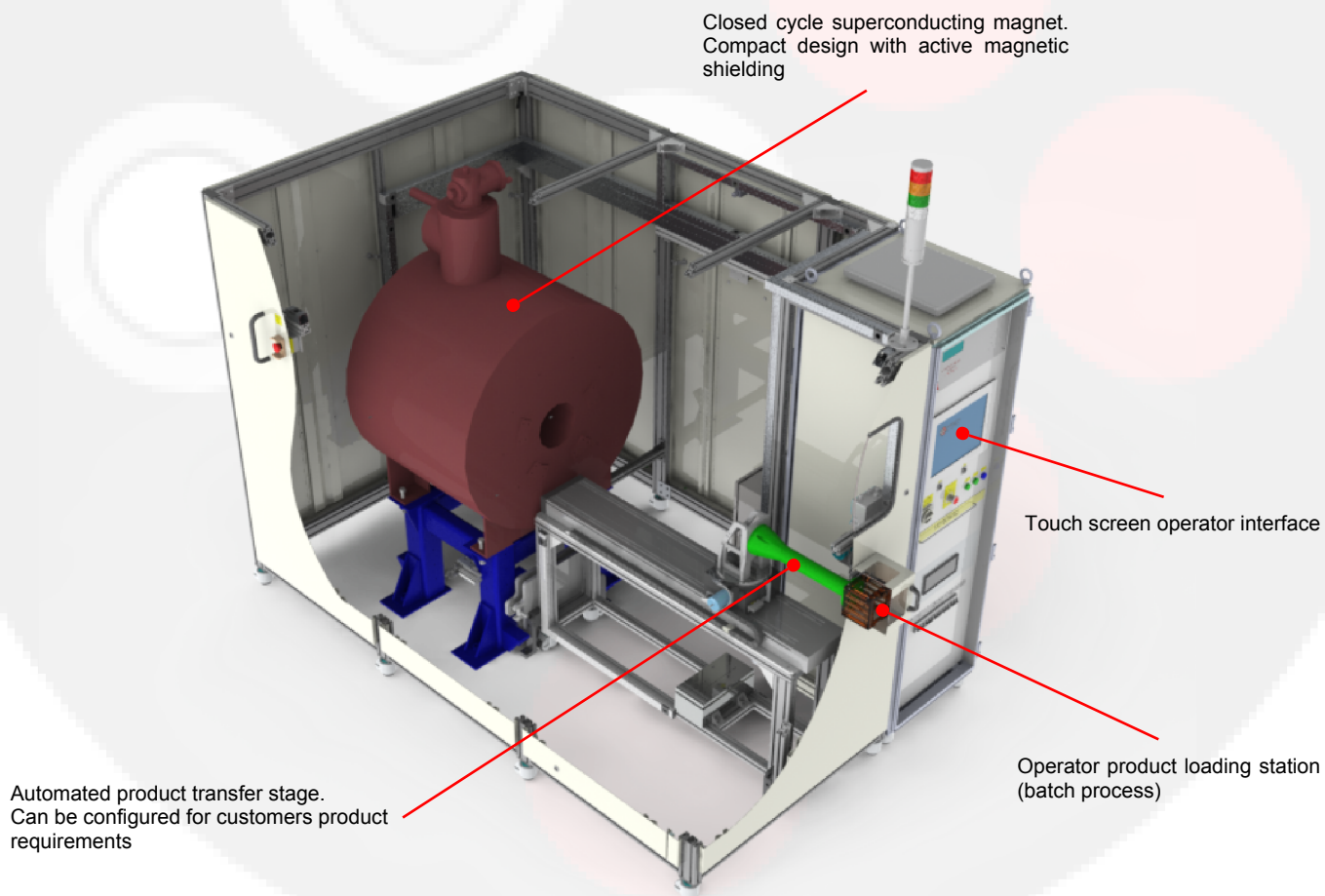
A closed cycle superconducting magnet provides a fully variable magnetic field in a compact package. Active magnetic shielding is used to minimize the mass and stray magnetic field footprint of the tool. It is suitable for installation of multiple units in close proximity for volume production or for installation in laboratory environments.

The tool can be supplied in a wide range of configurations suitable for different sample types (wafers, row bars, HGA, media platters). Product can be handled either as a batch process or via continuous feed. A range of options are provided that allow the customer to match their process needs and budget with the tool configuration.

The tool is equipped with SEMI standard software that incorporates a touch screen operator interface, product bar code reader, data and event log recording, recipe management and multi level security access.

Tool Layout (Batch Configuration)

Enclosure cut away for clarity of presentation



Specification Summary

Product configuration options: Wafers
 Row bars
 HGA
 Media

Product orientation: Selectable subject to customers process requirements

Magnetic field range: Up to 10.0 Tesla variable - MATr10000-SM
 Up to 5.0 Tesla variable - MATr5000-SM
 Up to 3.0 Tesla variable - MATr3000-SM

Magnet type: Closed loop superconducting magnet
 Magnetic homogeneity: +/- 2 %
 Magnetic uniformity: +/- 1 degree
 Magnetic set-point accuracy < 5 mTesla
 Stray field: < 0.5 mTesla at 1 m from tool

Product loading:: Automated or manual loading
 Option for continuous feed sample handling

Options for ; *Lot bar code reader*
 OCR reader

Certifications: SEMI S2 /S8
 CE
 Seismic zone 4

Connectivity: SECS/GEM capable

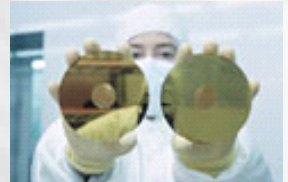
Installation configuration: Bay/Chase or ballroom to class 10

Performance metrics: > 2,000 hrs
 > 97%
 > MTBF
 > Uptime

Installation Worldwide by Magnetic Solutions Ltd

Warranty 2 year warranty provided

Lead-time 18-32 weeks subject to tool configuration and PO timing



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