

MATS-2010H

Soft Magnetic Material Dynamic Hysteresisgraph System

Model MATS-2010H



Automatic measurement on hysteresis loop and demagnetization curve of permanent-magnet material, accurate measurement on magnetic characteristic parameters such as remanence B_r , coercive force H_cB , intrinsic coercive force H_cJ and maximum magnetic energy product $(BH)_{max}$.

Windows measurement software applied simply. The product conforms to China National Standards GB / T3217 - 92 and international standard IEC404 - 5.

Adopt ATS structure, users can customize different configuration as required: According to the size of measured sample to determine electromagnet size and correspondent test source power; Select different measuring coil and probe according to testing method; Determine whether selecting jig according to sample shape; Determine whether selecting heating system according to test requirement.

General Features

Software Features

Software Screen

Technical Data

Product Family

Standard Equipment

Serial No.	Product Model	MATS-2010H130	MATS-2010H150	MATS-2010H200	MATS-2010H250
1	Electromagnet Model	DCT130	DCT150	DCT200	DCT250
2	Test Power Supply	2kW	3kW	4kW	8kW
3	Fluxmeter Configuration	One NH-210B		Two NH-210B	
4	Magnetometer	NH-210H			
5	Data Acquisition Card	PC6011			
6	Measurement Software	HMTTest partial functions	HMTTest all functions		
7	Computer and Printer	586 compatible machine + HP1020 laser printer			
8	Standard Specimen	One AlNiCo standard sample			
9	Fixed Coil	One B coil	One J coil	J coil + H coil	J coil + H coil
10	Test Specimen Category	AlNiCo Ferrite	AlNiCo Ferrite NdFeB	AlNiCo Ferrite NdFeB SmCo	AlNiCo Ferrite NdFeB SmCo

11	Specimen Size (with round sample as an example)	Diameter 3 ~ 100mm Thickness 3 ~ 50mm $\varnothing < 130 - 1.2H$	General permanent magnetic: $\varnothing 3 \sim 60\text{mm}$ $H3 \sim 50\text{mm}$ Rare earth permanent magnetic: $\varnothing 5 \sim 20\text{mm}$ $H5 \sim 15\text{mm}$	General permanent magnetic: $\varnothing 3 \sim 90\text{mm}$ $H3 \sim 50\text{mm}$ Rare earth permanent magnetic: $\varnothing 5 \sim 30\text{mm}$ $H5 \sim 20\text{mm}$	General permanent magnetic: $\varnothing 3 \sim 120\text{mm}$ $H3 \sim 50\text{mm}$ Rare earth permanent magnetic: $\varnothing 5 \sim 50\text{mm}$ $H5 \sim 30\text{mm}$
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Options

Serial No.	Options Name	Functional Description	Remark
1	B Coil	Direct measurement on sample magnetic induction density, winding unnecessary	Customized, adaptable to the measurement of general permanent-magnet material
2	J Coil	Direct measurement on sample magnetical polarization, winding unnecessary	Customized, adaptable to the measurement of all permanent-magnet materials
3	Common Head	Work with electromagnet to generate uniform magnetic field	DCT130 standard configuration, other models optional
4	Horn Head	Generate larger uniform magnetic field	All models of electromagnet optional
5	Shrinkage Head	Applies to improve maximal magnetic field of electromagnet	DCT130 optional, other models with standard configuration
6	Iron Cobalt Head	Can improve maximal magnetic field for about 0.3T	Only DCT200 and DCT250 optional
7	Heat Head	Applies to measure high temperature property of permanent-magnet material	All models of electromagnet optional
8	TCS-200 Temperature Controller	Applies to control temperature of heat head, control range: 50 ~ 250°C	Optional, can match with various heat heads
9	Tile Jig	Applies to measure magnetic shoe	Optional parts, customize according to magnetic shoe size, to match electromagnet with corresponding size

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