Machinery

MATS-2010H

Soft Magnetic Material Dynamic Hyteresisgraph 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 Br, coercive force HcB, intrinsic coercive force HcJ 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 |

·Automatic measurement on saturation hysteresis loop and magnetic characteristic parameters of generally permanent-magnet material such as Ferrite, Rubber & Plastic Magnet and AlNiCo, etc.: Js, Br, HcB, HcJ, (BH)max.

·Automatic measurement on demagnetization curve and magnetic characteristic parameters of rare earth permanent-magnet materials such as NdFeB and SmCo, etc. at the second quadrant: Br, HcB, HcJ, Hk(H90) and (BH)max.

·Test sample shapes: circular ring, round cake, square, tile and other irregular shapes.

·Adopt B coil + fluxmeter to measure magnetic induction, zero shift of integrator can be self-corrected through software.

·Adopt J coil + fluxmeter to measure magnetical polarization, remnant coil area of J coil can be automatically compensated through software.

·Magnetic field intensity can be measured with Hall magnetometer, nonlinear error of hall probe can be corrected through software, within 0 ~ 2.4T range, nonlinear error can be controlled within±0.2%.

·Adopt H coil + fluxmeter to measure magnetic field intensity, Hall magnetometer only used to indicate zero point of magnetic field so as to thoroughly eliminate nonlinear error of hall probe.

·Optimal range of field voltage, fluxmeter and magnetometer can be automatically set up.

·Magnetization, testing and demagnetization of general permanent magnetic sample completed at one time, time set up 20 seconds ~ 60 seconds.

·Rare earth permanent magnetic samples need saturation magnetizing before testing, testing time 60 seconds ~ 120 seconds.

·The sample after tested is in demagnetization or magnetizing status, freely selected by users.

·Select heating head and temperature controller to detect magnetic characteristics of Ferrite, AlNiCo and rare earth material under high temperature (maximal 220°C).

·Select shoe jig for direct measurement on magnetic shoe.