

**MATS-2010M**

**Soft Magnetic Material Dynamic Hysteresisgraph System**

Model MATS-2010M



Automatic measurement on dynamic hysteresis loop of soft magnetic (silicon steel) material under 50Hz, 60Hz, 400Hz and 1kHz, accurate measurement on dynamic magnetic characteristic parameters such as amplitude permeability  $\mu_a$ , loss angle  $\delta$ , total losses  $P_s$ , remanence  $B_r$  and coercive force  $H_c$ .

Windows measurement software applied simply. The product conforms to China National Standards GB / T3655 - 92, GB / T13789 - 92 and international standard IEC60404 - 6.

Analog source (bridge), frequency meter, ammeter, voltmeter and wattmeter are replaced through computer control and A/D sampling, entire testing process automatically completed.

General Features

Software Features

Software Screen

Technical Data

Standard Package

**MATS2010 - SMTest**

File Edit View Measure Print Help

Sample Wave

25cm Epstein Frame  
 L: Length of the steel sheet  
 Ee: Eddy efficiency  
 De: Density of the material

Type: (New Type)

L(mm)	Ee	De	W(g)
300	0	7.6	1047

N1: 700 (T)    N2: 700 (T)

Plan: (New Plan)

DC Test    AC Test

Define B     Fixed Freq  
 Define H     Fixed Bm

F: 50 (Hz)     Cluster

Points	Bm1(T)
1	1

Num: CI40-30    R.T: 70 (mF)

Testing    Print    Close

FileName	Number	Freq(Hz)	Ua(k)	D(deg)	Ps(kW/m^3)	Br(T)	B
BY06.dat	CI40-30	50	26.04	47.85	6.638	1.405	
BY05.dat	CI40-30	50	40.93	60.39	2.905	0.9046	
BY04.dat	CI40-30	50	39.97	65.81	3.17	0.9465	
BY03.dat	CI40-30	50	12.52	25.16	7.475	1.507	
BY02.dat	CI40-30	50.08	42.77	41.87	4.715	1.21	

09:36:12 SMTest.ind    BY06.dat    D:\Test\DATA\

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