

Magnet-testing Instrument

AUTOMATIC HYSTERIGRAPH MODEL AMT-4 TEST SYSTEM



Our company has been engaged in magnetic properties test apparatus development for 20 years. There are many excellent technology professors with profound theory, and strong sense of innovation in our company. Our magnetic properties test products, DMT、AMT series, whose hardware and software are unique in the field, receive lots of home customers' compliments and hold a rather great market control rate. When entering into international market, they also win a good reputation. We lay great emphasis on the reliability of quantity and after-sale service, and win universal praise. We heartily appreciate the favor and recommendation of our customers to our products for years and sincerely expect you to become our new customer and new friend

AMT-4 system accords with the standard permanent magnet test system, GB3217-92, used to test the hysteresis loop and demagnetization curve in different temperature of ferrite, AlNiCo, SmCo, NdFeB and quenched material, and gives the magnetic parameter, Br, Hcb, Hcj, (BH)max, Hk and so on, and could meet different requirements on test function, precision, power capability, reliability, efficiency, price, local environment from laboratory to enterprise's production line.

Main character:

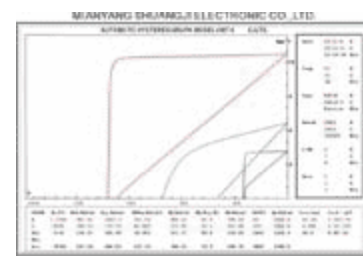
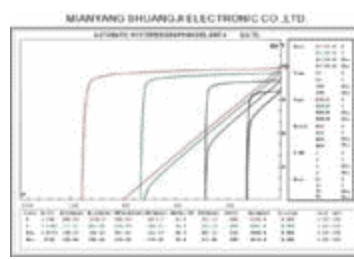
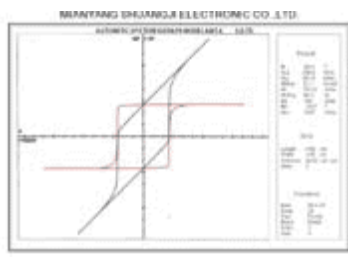
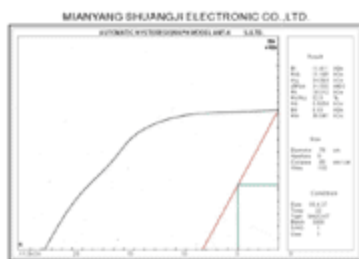
- Double work mode: Adopt the whole computer mode; or the digital transistor also reads 5 parameters directly, automatic drawing of recording instrument under non-computer mode.
- Automatization: Including automatic transmission, drift adjusting, automatic calibration, automatically compensate, zero adjust automatically, zero resetting and so on
- The size range: Suitable for the great sample test from powder material, $\Phi 3$ small stick of the material to $\Phi 260$.
- Various test coils: Allow to adopt prefabricating J coil, B coil, built-in pole coil, and hand mode coil.
- Simple operation: The mode of the whole computer only needs the keyboard, mouse to finish testing. The non-computer mode needs only to press a start-on button and can finish testing the course entirely.
- The speed can be chosen: Can choose test period from 5 seconds to 70 seconds to meet the test requirement in different occasion.
- The practical and friendly: WINDOWS and DOS two test software platforms, reflect practical, reliable, succinct, lucid and lively style fully.
- Perfect inquiry function: there are more than one hundred thousand test curves could be stored in the warehouse. Click kinds of condition buttons to access necessary curve and then finish the assortment, comparison and filing of products and finally type the form and curve out.
- Many optional types of print: use ink-jet printer or laser-jet printer to type and publish many kinds of exquisite color, dark curve graph and form. There are Chinese or English character, system of unit, single picture or multi-picture to be chose.

The quality of AMT-4 disposes is reliable. There are large-scale, medium-scale and small-scale, 7 models in all, of electro-magnets to be chose. Welcome to enquire and ask for data!

Main technical parameters

- Integrator steady degree: Zero adjusting automatically is superior to 0.1~0.2% / of 90 seconds (relate to shelf location)
- B、J channel: repetitiveness is superior to 0.25%, the error is below $\pm 0.5\%$ (full-scale value)
- H channel: repetitiveness is superior to 0.25%, the error is below $\pm 0.5\%$ (full-scale value)
- (BH)max channel: repetitiveness is superior to 0.5%, the error is below 0.5~2% (change with the sample kind)
- The magnetizing power supply: the maximum output power is 100KW, with perfect protection technology and intellectual control

AUTOMATIC HYSTERESISIGERPH MODEL AMT-4



Testing electro-magnet



ELECTROMAGNETS FOR AMT-4

DCT-140 Electromagnet

Input current:0~30A,total weight is about 350KGs,pole head is changeable, Diameter of pole core is $\Phi 140$ mm,equipped with wind cooling system. The parameter of magnetic field it could generate is as follows:

Pole max. diameter (mm)	Magnetic field (T)		
	Distance 10mm	Distance 30mm	Distance 50mm
$\Phi 110$	2.43	1.75	1.35
$\Phi 60$	3.00		

DCT-200 Electromagnet

Input current:0~75A,total weight is about 900KG,pole head is changeable, Diameter of pole core is $\Phi 200$ mm,equipped with wind and water cooling system, The parameter of magnetic field it could generate is as follows:

Pole max. diameter (mm)	Magnetic field (T)			
	Distance 10mm	Distance 25mm	Distance 35mm	Distance 50mm
$\Phi 110$	2.90	2.537	2.33	2.06
$\Phi 220$	2.05	1.75	1.55	1.30

DCT-264 Electromagnet

Input current:0~200A, the weight of electro-magnet is about 2000KG,pole head is changeable, Diameter of pole core is $\Phi 264$ mm,equipped

with wind and water cooling system, The parameter of magnetic field it could generate is as follows:

Pole max. diameter (mm)	Magnetic field (T)			
	Distance 10mm	Distance 25mm	Distance 35mm	Distance 50mm
Φ110	3.25	2.85	2.62	2.35
Φ120	3.186	2.82	2.591	2.31
Φ140	3.00	2.70	2.50	2.25
Φ220	2.60	2.30	2.13	1.91

DCT-264 Electromagnet (power-operated + hand - operated)

Input current:0~200A, the weight of electro-magnet is about 2300KG,pole head is changeable, Diameter of pole core is Φ264mm,equipped with wind and water cooling system, two methods of rise-and-fall, power-operated and hand-operated. The parameter of magnetic field it could generate is as follows:

Pole max. diameter (mm)	Magnetic field (T)				Material
	Distance 10mm	Distance 25mm	Distance 35mm	Distance 50mm	
Φ120	3.59	3.23	3.02	2.75	Pure iron
Φ120	3.50	3.13	2.92	2.65	Pure iron
Φ120	3.38	3.04	2.84	2.60	Pure iron
Φ140	3.30	3.00	2.80	2.55	Pure iron

*The material could be changed to 2V supermendur (1J220) according to customers' special requirement.

DCT-290 Electromagnet

Input current:0~200A, the weight of electro-magnet is about 2500KG,pole head is changeable, Diameter of pole core is Φ290mm,equipped with wind and water cooling system, two methods of rise-and-fall, power-operated and hand-operated. The parameter of magnetic field it could generate is as follows:

Pole max. diameter (mm)	Magnetic field (T)			
	Distance 10mm	Distance 25mm	Distance 35mm	Distance 50mm
Current (A)				
Φ120 (200A)	3.40	3.10	2.9	2.65
Φ140 (200A)	3.168	2.893	2.74	2.563
Φ220 (75A)	2.81	2.55	2.386	2.173

DCD Series



D08 Series



MC Series



AMT140



AMT264



AMT290



Micro-Magnet Technology Co.,Ltd.

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