

Multi-polarities Magnets Measuring System

MATS-2100RMT Automatic Production Line

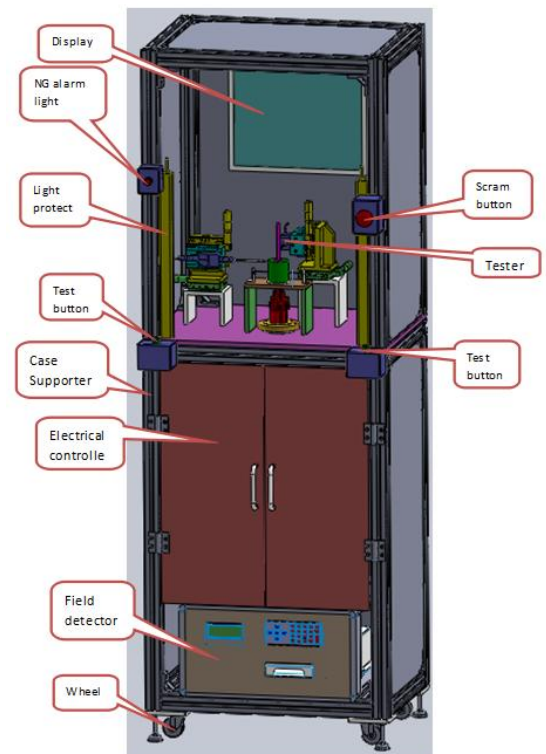
Technical data

MATS-2100RMT

is a semi-automatic device. Put in/off samples manually. Automatically coordinate / rotate / test samples, save time, increase accuracy. Test consists of X-axial probe, Y-transverse probe, platform, rotate fixture, atmosphere control system and field test electric control system.

Operation

- * Put samples into tester.
- * Press two test buttons.
- * Equipment automatically test.
- * Put samples out

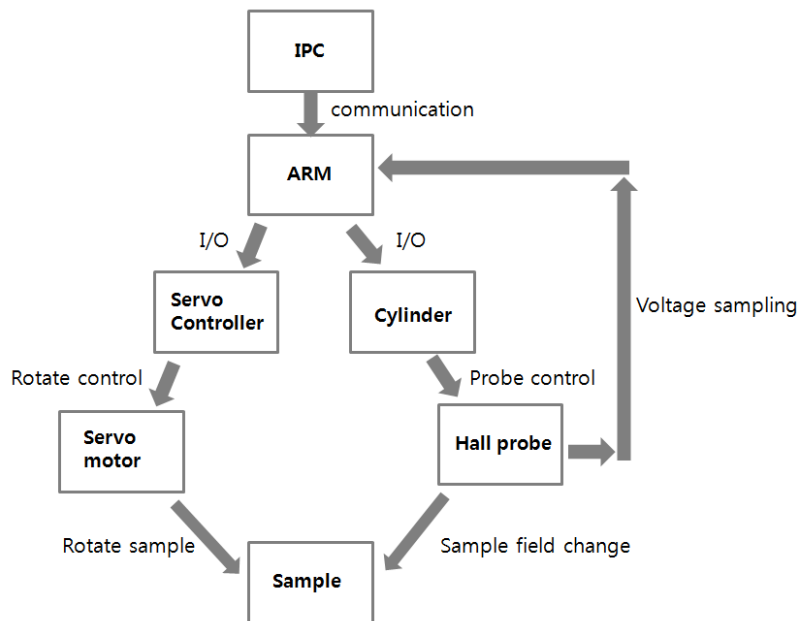


1. Input power : AC 200~240V 50/60Hz 10A
2. System : PC + ARM high-speed processor
3. Safety protection : Light protect & scram button
4. Test mode : Facade & side tested at a same
5. Accuracy : better than 0.5%
6. Test period : $\leq 5S$
7. Test reports : Real-time field wave, maximum / minimum / average field value and wave spectral analysis of each polarity (peak value / angle / area / width / full width at half maximum).

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System structure



Software

(Curve type : test curve, polar coordinates curve and 3D curve)

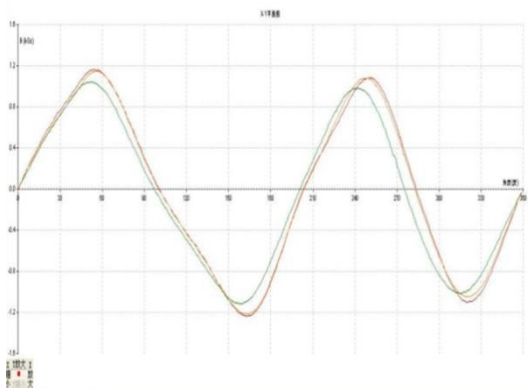


Figure 7-3-1 Test curve

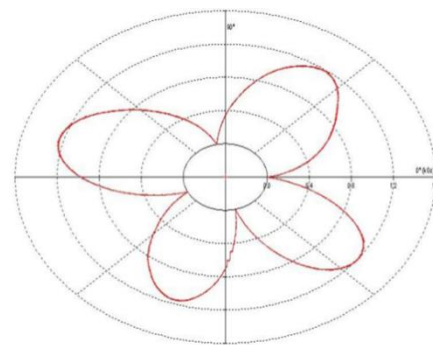


Figure 7-3-2 Polar coordinates curve

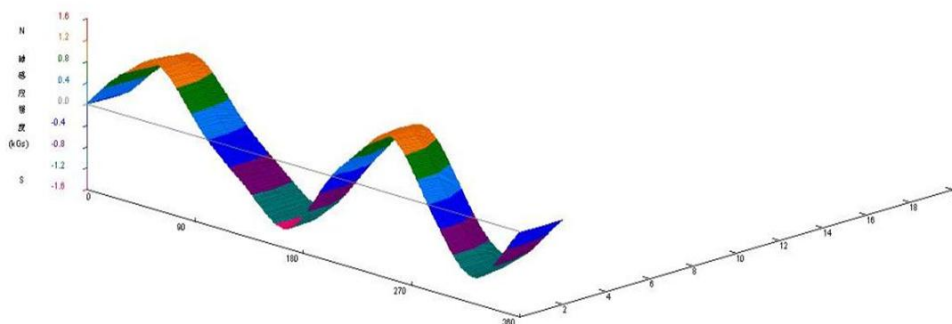


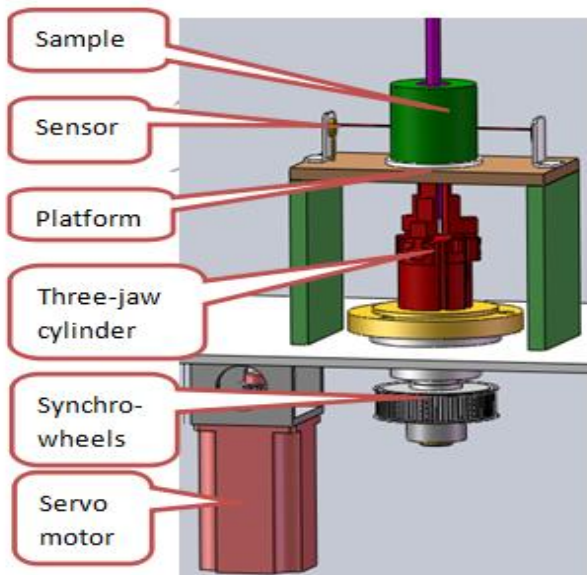
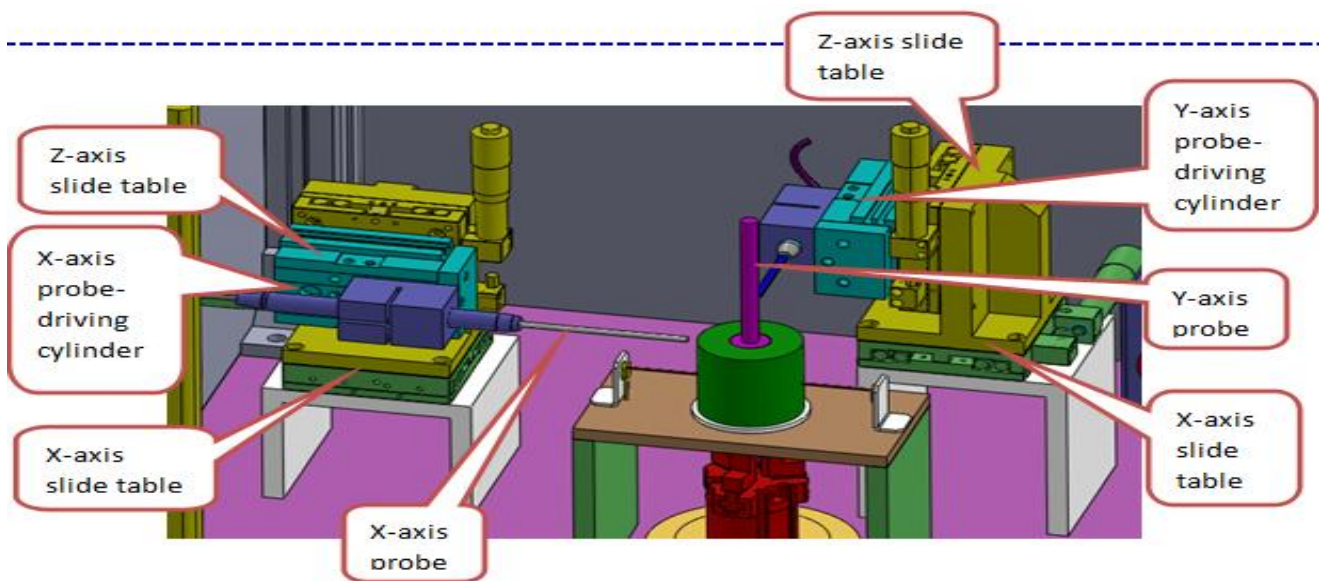
Figure 7-3-3 3D curve

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Tester Introduction

X-axial probe and Y-transverse probe device consists of X/Z-axis slide table, X-axis probe-driving cylinder, X-axis probe, Y/Z-axis slide table, Y-axis probe-driving cylinder, Y-axis probe. Slide table can move up and down, back and forth(route within 25mm temporary). Adjust the probes position according to the sample dimension, scale resolution 0.01mm. X-axis cylinder drive X-probe to test, Y-axis cylinder drive Y-probe to test, then shrink back after test finished.



Rotate fixture consists of a stepper motor, a three-jaw cylinder, a synchro-wheels&belts, a platform and a sensor. Put samples into platform, press test button. The sensor sends signal to the three-jaw cylinder to position the sample, after automatic test, put out the sample. Test finished.

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Tester structure (aerial view)

Tester consists of supporter, computer, X-axis probe, Y-transverse probe, platform, rotate fixtures, atmosphere control system and field test electric control system.

