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MPI-M510-series PORTABLE AC MAGNETIC POWDER FLAW DETECTOR (PROFESSIONAL TYPE)

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1.General description

MPI-M510 portable AC magnetic powder flaw detector(professional type), is used for detecting on the surface or near surface crack of the ferromagnetic materials. The instrument is suitable for electric power, petroleum, chemical, machinery and other industries of various types of steel structures, boilers, pressure vessels, pressure piping surface of ferromagnetic material and all kinds of welded structures and magnetic particle testing near surface defects.

It can apply to magnetic substance product(iron, alloy steel, pipe steel, coupling , spring ,crankshaft ,connecting rod ,valve sucker rod and pipeline etc.) and very economical testing method that can defect easily product's surface and near-surface defects.

Conformity to standards JB/T 7411-2012 ASTM E709-08 ASTM E1444 EN 10228-1:1999 ISO 9934.

2.Product introduction

- 1.Light weight ergonomic design reduces operator muscle fatigue.
- 2.Magnetic pole feet of the movable joints can make good contact with any shape of parts.

3.Features

- 1.AC power
- 2.100% portable for field inspections
- 3.Solid state controls located in the yoke's housing for maximum safety and reliability.

4.Specification

Code	MPI-M510-P	MPI-M510-K	MPI-M510-B
Amps	AC 2.5A		
Sensitivity	15/100 engraved groove clearly displayed on A1 standard sensitivity test piece		
Duty cycle	>50% maximum excitation time 30 seconds		
Lifting Power	≥4.5kg(44N)		
Magnetic pole spacing	50-195mm		
Power supply	AC220V, 50/60Hz		
Power cord	European type	British type	Brazilian type
Operation temperature	-10-40°C		
Dimension(L×W×H)	220×42×175mm		
Weight	2.3kg		

5.Operating instructions

AC Testing

- 1.The yoke probe directly plugged in AC 220V power supply, then place the probe on the work piece , the work piece is detected on magnetic or magnetic suspension spray , jog switch can communicate inspection probe .
- 2.Plug the power input into the socket that with a ground wire and make sure good contact with the ground. then place the probe on the work piece which is sprayed with magnetic powder or magnetic suspension spray ,and turn on the switch of the yoke for about 2-3second, then observe the work piece.

6.Maintenance and matters needing attention

1.Maintenance

Before using , you'd better add some lubricant to the yoke articulating. If the magnetic powder or magnetic suspension spray you use is water based,then you should add some lubricant to the joint legs of the yoke.

2.The Magnetization Time

According to the work of two to three seconds each, rest 1 to 2 seconds of work beats working . Inrush current generated when the power is conducive to moving and defective magnetic powder for suspension display.