

FOR COMPLETE CONVENIENCE & TRUE INDICATIONS

Automag Handyoke is a light weight electromagnetic yoke for magnetisation in detection of surface and sub-surface flaws in any ferromagnetic material. It is very simple to operate and can be used with dry or wet, fluorescent or non-fluorescent magnetic particles. It is ideally used for in-plant and field work. It is used for weld joints, crank shafts, forgings, casting, turbine blades, rotors etc.



PRINCIPLE

When yoke is energised a magnetic field is created between the legs. The field is nothing but thousands of invisible lines of magnetic force extending across the gap between the legs. As the yoke is applied to the component to be tested, the magnetic circuit is closed and the field enters the part making its passage between the legs above and below the surface. Any defect across this field cuts the magnetic circuit and the leakage field occurs in the gap above the defect. Magnetic particles are attracted by this leakage field and get accumulated indicating the location of the defect.

SALIENT FEATURES

- Low power consumption
  - Strong Intense magnetic field for superior sensitivity
  - Can be used for AC de-magnetisation
  - Zero risk of sparking on the job
  - Choice of AC or pulsed HWDC
- Confirms to the requirements of most of the demanding standards.

SPECIFICATION

Input Supply - AC	230 Volts
Input Current single phase	3 AMPS.
Distance Across Poles	0 to 300 mm Max.
Flux Density - Lines /cm <sup>2</sup> Pole spacing 100 mm	11000
Lifting Capacity with AC	5.5 Kg.
Lifting Capacity with HWDC	22 Kg.
Yoke Weight	3.8 Kg.
Pole Angle	0° to 360°
Pole Type	Articulated
Out put Mode (Unlimited variation)	AC & HWDC Pulsed
Specifications	B.S. 6072 ASTM E-709-80