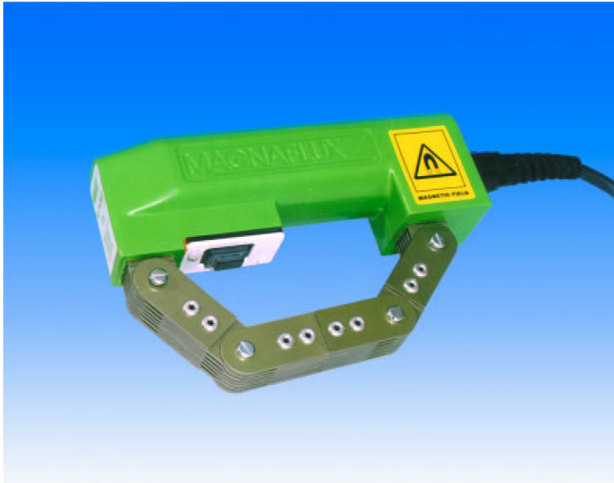


MAGNETIC PARTICLE
INSPECTION EQUIPMENT

Y6 ELECTROMAGNETIC YOKE



Product Description

The Y6 Yoke is a lightweight encapsulated magnetic Yoke used for the detection of surface cracking in any ferro-magnetic material.

The Y6 Yoke combines low cost, light weight and leg adjustability, making it one of the most versatile pieces of magnetic particle equipment available.

The poles are adjustable from 25 – 250 mm making the Yoke ideal for inspecting components of different geometries.

With its ease of use for single-handed operation it is widely used in the testing of welds, automotive components, steel and grey iron castings, and for in-plant inspection and repair.

Product Features

- **Choice of four models**
- **Demagnetising capability**
- **Lightweight**
- **Articulated legs with 25 x 25 mm pole area**
- **Exceeds specific lift weight recommendations**

Specification and Operating Data

AC voltage	50 V	110 V	230 V
Frequency	50 Hz	50 Hz	50 Hz
DC voltage	-	12 V	12 V
Supply current in air			
AC	15 A	3.5 A	2.3 A
DC	-	8.5 A	2.5 A
Method of current control and effect on waveform	Sinusoidal AC mains or DC battery		
Duty cycle at maximum output (ratio of current 'ON' to 'Total' time)	23 %		
Maximum current 'ON' time	30 seconds		
Recommended pole spacing (maximum and minimum pole spacing)	S _{min} 35 mm S _{max} 140 mm		
Cross sectional dimensions of the poles	25 x 25 mm		
Weight lifted at 140 mm pole spacing			
AC	10.5 Kg	10.5 Kg	10.5 Kg
DC	-	32.0 Kg	32.0 Kg
Pole spacing			
35 mm	12 kA/m*		
140 mm	2 kA/m*		
250 mm	1.4 kA/m*		
*AC tangential field strength in kA/m at the central point between the poles on a 500 x 250 x 10 mm steel plate			
Overall dimensions	220 x 155 x 50 mm		
Equipment weight	3.4 Kg		
Specified electrical protection	IP 64		
Units carry the CE mark and conform to the appropriate European Union directives	√	√	√
For reference, the minimum requirements of EN-ISO 9934-3(E) are:			
Duty cycle > 10%	Exceeds		
Current ON time > 5 seconds	Exceeds		
Surface temperature of handle < 40 °C	Complies		
Tangential field strength at S _{max} > 2 kA/m (rms)	Exceeds		
Lifting force > 44 N	Complies		
Part number	F04006	F04005	F04004

Certified Test Weights (available for both AC and DC)

Part number 026T018B

AC test weight (4.5 Kg)

Part number 026T018A

DC test weight (18 Kg)

ITW INDIA PRIVATE LIMITED,

Plot No: 51, 52, 207 & 208, Phase – 2,
IDA, TSIC, Pashamylaram, Medak Dist.-502307,
Telangana State, India

Tel: +91 8455 224710 Fax: +91 8455 224709
Email: magnafluxinfo@magnafluxindia.com
www.in.magnaflux.com

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