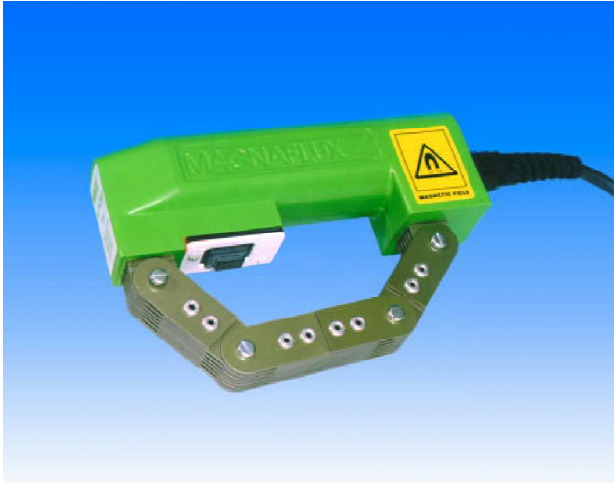


Y6 ELECTROMAGNETIC YOKE

MAGNETIC PARTICLE INSPECTION EQUIPMENT



Product Description

The Y6 Yoke is a lightweight encapsulated magnetic Yoke used for the detection of surface cracking in any ferromagnetic 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**

Magnaflux Yoke Kits

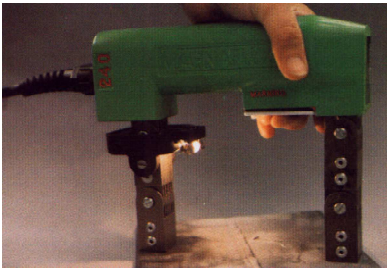
The Magnaflux Yokes – YM5, Y6 and Y7 – are also available in kit format.

Part number: 005K001 Carry case and aerosols - supplied with Magnavis 7HF black magnetic ink, Magnavis WCP-2 white contrast paint, a wire brush and cloth, all contained in a strong attractive carrying case.

Please note: When ordering a Yoke kit it is necessary to stipulate which Magnaflux Yoke is required as part of the kit.

Specification and Operating Data

AC voltage	50 V	110 V	115 V	230 V
Frequency	50 Hz	50 Hz	60 Hz	50 Hz
DC voltage	-	12 V	-	12 V
Supply current in air				
AC	15 A	3.5 A	3.5 A	2.3 A
DC	-	8.5 A	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	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	001Y022	001Y004	-	001Y020



Y6 Yoke Light Source and Leg Assembly

Part number: 002L115

The Y6 Yoke light source and leg assembly, which is activated by the magnetic field, switches on automatically during testing. This set up is ideal for inspection in darker corners.

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)

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