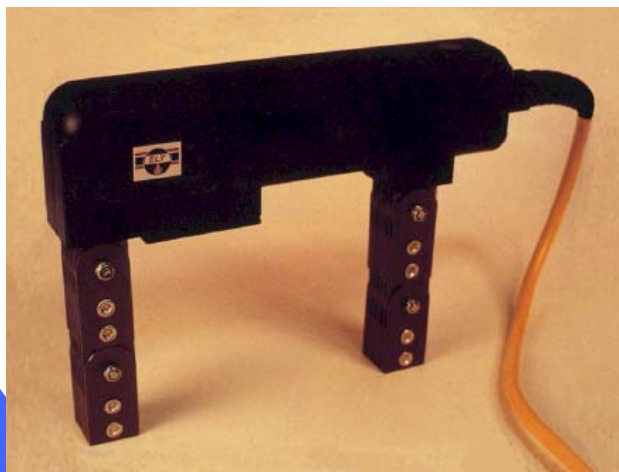


YOKE ELECTROMAGNET

THE ELY H007/8/9 CEY ADJUSTABLE YOKE ELECTROMAGNET

is commonly used for the magnetisation of ferromagnetic materials during magnetic particle inspection. Welds in pipes, pressure vessels, fabrications and individual components such as crankshafts, gears or castings can be easily tested for defects. Operation of the yoke is carried out by selecting the correct voltage unit, placing of the poles on the test area, pressing the energising switch and applying Ferromor dry powder, Supramor visual or Lumor fluorescent particles to the test area whilst the component is being magnetised. (Note application of magnetic particles should cease before power is switched off). Visual inspection should then be carried out under diffused light of at least 500 lux (45 ft cdl) with a minimum of 1200 μ watts per sq. cm for fluorescent inspection. White contrast paint (WCP712/722) may be used on dark substrates to provide better contrast.



Technical information

Specification:

ASME V, BS6072, EN ISO 9943-3:2002

Lifting Power:

Greater than 6 Kg when used with Alternating current, 50/60 Hz.

Supply Voltage: 240 volts 50 Hz,
110 volts 50 Hz
48 volts 50 Hz.

Field Strength:

Greater than 2400A/metre (30 oersteds) between poles 150mm apart on ferromagnetic material of saturation permeability more than 300.

Dimensions

Cable Length : 10 metres (32 ft).
Weight-Yoke : <3.5 Kg (7.7 pounds).
CEY 240V Magnet : Part No H007, (220/240 volts AC).
CEY 110V Magnet : Part No H008, (110 volts AC).
CEY 48V Magnet : Part No H009, (48 volts AC).

Options

For 24 volts use a CEY 48 electromagnet with a step down transformer

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UESSETI 2000® S.r.l.

PERMANENT YOKE MAGNET H005

THE AX ELY H005 ELY MAG 1 PERMANENT YOKE MAGNET

is ideal for the effective magnetisation of components for crack detection, particularly where the use of electromagnetic yokes is impracticable or prohibited for safety reasons. The hinged arms and rotating pole pieces facilitate the local inspection of a diverse range of components such as critical welds in structures of fabrications, castings and automotive components.

The ELY MAG 1 is also supplied with a "keeper bar" which conveniently stores in the handle when not in use.

The magnets used in the ELY MAG 1 are manufactured from Neodymium Iron Boron, which is a recently developed alloy and has been specially selected for the ELY MAG 1. This material offers the highest magnetic energy per unit volume commercially available today and due to its longer 'magnetic life' it is more convenient for the inspector as well as reducing operational costs.



Technical information

Specification:

ASME V, BS6072, EN ISO 9943-3:2002

Lifting Power:

Greater than 18 Kg

Magnetic Material:

Neodymium Iron Boron

Dimensions

Handle Length : 200mm (8 inches).

Height : 177mm (7 inches) handle to leg tip.

Poles : 35mm (1.4 inches).

Weight-Yoke : 3.02 Kg (6.6 pounds).

Weight-With Keeper : 3.34 Kg (7.1 pounds).

Magnet Complete : Part No H005.

Options

The ELY MAG 1 can also be supplied in kit form, consisting of a carrying case, ELY MAG 1, aerosols of black or fluorescent ink, white contrast paint, wire brush and cloth.

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