MAGNAFLUX® YOKES AND YOKE KITS

MAGNAGLO® MAGNAFLUX®

Y-6 AC Yoke

Fast, reliable AC yoke for finding surface defects.



Y-7 AC/DC Yoke

Lightest full size AC/DC yoke for finding surface and near-surface defects.



Y-8 Battery Powered Yoke

Convenient shoulder strap battery pack offers the ultimate in portability for field inspections



WWW.MAGNAFLUX.COM

MAGNETIC PARTICLE INSPECTION EQUIPMENT

- Portable lightweight yokes for one-person inspection in tight places
- Adjustable legs enable you to inspect many different surface configurations
- One year warranty





Features & Benefits

Magnaflux Yoke Kits are designed for reliable, one person magnetic particle inspection of ferrous parts when portability is essential. Because the kits are portable and the yokes fit into tight places, they are ideal for in-plant structures and field work.

Magnaflux offers a variety of options, so you can select exactly what you need – a yoke only, or a kit that also includes testing materials and accessories.

Whether you choose a Y-6 AC yoke to locate surface cracks or a Y-7 AC/DC yoke to find surface and near-surface defects or a Y-8 battery powered yoke for portability, you always get unsurpassed Magnaflux quality and reliability.

- > Articulating, double-jointed legs contour easily to any part shape to assure good contact.
- > Pull force (60 lbs DC, 10 lbs AC) complies with specifications.
- > Solid state controls located in housing for maximum safety and reliability.
- > 2-minute ON/OFF duty cycles for fast, efficient inspections (Y-6 and Y-7).
- > 30 second ON/OFF duty cycle Y-8.

Operating Instructions

When yoke is connected to a proper power source and energized, an intense longitudinal magnetic field is created in the area between the yoke legs. Any surface cracks will create flux leakages which will attract magnetic particles that form indications that allow for detection. There are two testing methods:

- MAGNAFLUX Dry Non-Fluorescent Method, used with a yoke, does not require a black light and is more sensitive for finding nearsurface defects on components with rough surfaces, such as castings and forgings.
- MAGNAGLO Wet Fluorescent Method, used with a yoke and an ultraviolet black light, can find very fine surface flaws or slightly near-surface discontinuities (with Y-7 or Y-8 yokes only).

APPLICATION INSTRUCTIONS FOR AEROSOLS & POWDERS



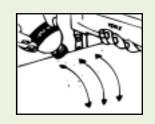
Step 1

 Preclean inspection area. Spray on Cleaner. Wipe off with cloth.



Step 2

 Place Yoke on test piece perpendicular to direction of suspected cracks.
Energize Yoke to form a Magnetic Field.



Step 3

 Apply magnetic powder or prepared bath while Yoke is energized.



STEP 4

 Indications will form immediately.

Technical Specifications



Y-6 AC Yoke

	Yoke: (Specify one)	115v, 50/60 Hz (Part #43530) 230v, 50/60 Hz (Part #43540)
•	Current Draw:	Less than 9 amps @115v Less than 4 amps @230v
•	Demag:	Yes
•	Yoke Weight:	7.3 lbs (3.1 kg)
•	Leg Capacity:	0"-12" (0-30 cm) across poles
•	Cord:	12 ft (365.8 cm) with grounded plug
•	Other:	Carrying case and instructions



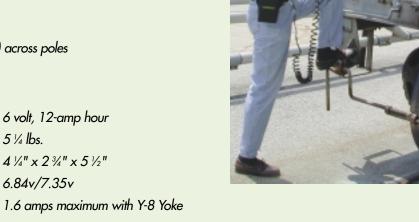
Y-7 AC/ DC Yoke

Yoke: (Specify one)	115v, 50/60 Hz (Part #43550) 230v, 50/60 Hz (Part #43560)
Current Draw:	9 amps @ 115v AC 4 amps @ 115v DC 4 amps @ 230v
Demag:	Yes
Yoke Weight:	7.4 lbs 115v (3.6 kg) 7.2 lbs 220v (3.27 kg)
Leg Capacity:	0"-12" (0-30 cm) across poles
Cord:	12 ft (365.8 cm) with grounded plug
Other:	Carrying case and instructions

Y-8 Battery Powered Yoke

Convenient shoulder strap battery pack offers the ultimate in portability for field inspections.

▶ Yoke:	Y-8 Battery Powered Yoke ONLY* (Part #620145) *Must choose the appropriate voltage for the battery charger.			
Battery Charger:	115v Charger (Part #620142) 230v Charger (Part #620709)			
Current Draw:	4 amps @ 6 volts DC (Yoke Only)			
Current Draw:	0.2 amps @ 115v or 230v (Charger Only)			
Demag:	No			
Yoke Weight:	7¾ lbs.			
Leg Capacity:	0"-12" (0-30 cm) across poles			
Cord:	12 ft., coiled			
BATTERY SPECIFICATIONS				
Rechargeable Batter	y: 6 volt, 12-amp hour			
Battery Weight:	5 ¼ lbs.			



▶ Battery Operating Temperature Range: -40°C to 60°C (-40°F to +140°F)

Battery Dimensions (in.):

Battery Output Current:

Battery Output Voltage Charge:

Y-6, Y-7 AND Y-8 YOKE KITS

Y-6 AC Yoke Kit



Y-7 AC/ DC Yoke Kit



Y-8 Battery Powered Yoke Kit



Product	•	Y-8 Yoke Kit
Part#		611710: 115v, 50/60 Hz, in case
Part#		611710-1: 230v, 50/60 Hz, in case
Kit Weight		24 lbs. (10.9 kg)

Includes yoke, battery, battery pouch, battery charger, (115v, 50/60Hz or 230v, 50/60Hz), powder bulb, and one pound #1 Gray powder.

Your authorized MAGNAFLUX® Distributor

We reserve the right to change specifications without prior notice or obligation. ©2001 MAGNAFLUX



3624 West Lake Avenue Glenview, IL 60025 (847) 657-5300 fax (847) 657-5388 www.magnaflux.com

Faraday Road S. Dorcan Industrial Estate Swindon, SN3 5HE Wiltshire, England 44-1793-524566 fax 44-1793-619498 ITW/Chemical Brazil Ave. Jorge Alfredo Camasmie, 350 Embu 06816-090 Sao Paulo Brazil 55-11-4781-1577 fax 55-11-4781-1019

TW/Signode Ltd. Plot #34-35, Phase 2 IDA, APIIC Pashammyjaram Medak Dist. Andhra, Pradesh PIN 502305 India 91-845546055 fax 91-845546336

Product	•	Y-6 Yoke Kit
Part#		45291: 115v, 50/60 Hz, in case
Part#		45292: 230v, 50/60 Hz, in case
Powders		1 lb. (.45 kg) bottles of #1 Gray, 3A Black, #8A Red
Baths		2 aerosol cans-one #9CM, one #7HF
Paint		1 aerosol can of WCP-2 White Contrast Paint
Cleaner		2 aerosol cans of SKC-S
Other		Also includes powder bulb, magnetic field indicator,
		can gun, carrying case, instructions
Kit Weight		25 lbs. (11.3 kg)

Product	Y-7 Yoke Kit
Part#	43509: 115v, 50/60 Hz, in case
Part#	620741: 230v, 50/60 Hz, in case
Materials	Same powders, baths, paint and cleaner as Y-6 Kit
Other	Same as Y-6 Kit
Kit Weight	25 lbs. (11.3 kg)