

Y-2 Yoke

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AC Electromagnetic Yoke

The Y-2 is an AC electromagnetic yoke, ergonomically designed to improve productivity and reduce operator arm and wrist fatigue. The yoke generates a strong AC magnetic field for the detection of surface indications during magnetic particle testing.

Lightweight with an ergonomic grip and trigger, the Y-2 is designed for the rugged demands of field inspection. Featuring a field swappable cord and isolated trigger switch; the Y-2 is easily serviceable because a severed cord should not stop a job from getting done.

A super bright LED attachment is available as an optional item to help illuminate the inspection area while simultaneously magnetizing the part. All-in-one Kits are also available, including #8A Red and #1 Gray magnetic powders, a yellow paint marker, and cleaning cloth, for a full inspection kit in one convenient carrying case.



BENEFITS

Increase inspector productivity and reduce physical fatigue

- Less arm strain, wrist fatigue and physical stress help operators get more done due to the lightweight and ergonomic design.
- Easily position the yoke in any direction with lightweight, heavy-duty and powerful electronics components.

FEATURES

- Ergonomic, light-weight design
- IP54 sealed housing resists dust and water
- Field-swappable power cord
- Isolated, replaceable trigger switch
- Steel shields for leg protection
- Exceeds ASTM lifting specifications
- Convenient carrying case supplied with all yoke shipments
- Optional LED yoke light lasts longer and is more intense compared to traditional bulbs

Keep tools in service with a design that's built to last

- Cords and triggers can be easily replaced, so work doesn't stop and tools aren't scrapped due to accidental damage.
- Prevent dust and dangerous water damage with an IP54 o-ring sealed housing.

APPLICATIONS

Defect location: Surface

Ideal for:

- Field Testing
- Difficult to reach areas
- Spot, weld and in-service inspections

Defect examples:

- Seams
- Tears
- Shrink cracks
- Quenching cracks
- Fatigue cracks

PRODUCT PROPERTIES

Electrical Requirements	North American PN 628554 European PN 628555 Chinese PN 628560	110-115V, 60 Hz 4.3 A max or 50 Hz 6.3 A max (Type B plug) 220-230V, 50/60 Hz: 2.6 A max (Type F plug with Type G adapter) 220-230V, 50/60 Hz: 2.6 A max (Type I plug)
Waveform		AC
Tangential Field Strength		> 2kA/m at midpoint between legs / poles
Lifting Force		> 10 lb / 4.5 kg (44 N)
Duty Cycle		50%, max on time is 90 seconds
Ingress Protection (IEC 60259)		IP54
EN/EC		CE / WEEE / RoHS
Weight		4.8 lb / 2.2 kg (Yoke only) 6.2 lb / 2.8 kg (with cord)
Leg / Pole Span		2.5 - 10.5 in / 6.4 - 27 cm
Contact / Pole Size		1.00 x 1.75 in / 25 x 19 mm
Cord Length		12 ft / 3.6 m, detachable

PART NUMBERS

Series	Part Number	What's Different?			
		Model	Voltage	Plug	Contents
Y-2 Yoke	628554	N. America	115V	Type B	Y-2 yoke & carrying case
	628555	Europe	230V	Type F (Type G adapter)	Y-2 yoke & carrying case
	628560	China	230V	Type I	Y-2 yoke & carrying case
Y-2 Yoke Magnavis Kit*	628556	N. America	115V	Type B	Y-2 yoke, #1 Gray powder, #8A Red powder, yellow paint marker, hand cleaner & carrying case
	628557	S. America & S.E. Asia	230V	Type F (Type G adapter)	Y-2 yoke, #1 Gray powder, #8A Red powder, yellow paint marker, hand cleaner & carrying case

*Ships only to North America, South America and Southeast Asia.

USE RECOMMENDATIONS

NDT Method	Magnetic Particle Testing
Recommended Accessories	Yoke Test Weight PN 624115 Yoke LED Light PN 628840
Service Parts	North America Cord PN 628954 Europe Cord PN 628955 China Cord PN 628956

SPECIFICATION COMPLIANCE

- ASME BPVC
- ASTM E709
- ASTM E1444
- ASTM E3024
- ISO 9934
- API 6A
- AWS D1.1

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Yoke Light

Add-on Light for AC Yokes

The Yoke Light is an add-on accessory for AC yokes which provides focused, visible light to the inspection area when the yoke is activated.

The Yoke Light is designed to enhance detection of visible indications in low-light conditions and confined areas. When using visible color-contrast magnetic particles, a minimum of 100 FC / 1,076 lx is typically required. Ambient light may not meet this minimum, so a supplemental light source is needed. The Yoke Light attaches quickly and easily to the yoke to provide illumination to the inspection area between the yoke legs. The Yoke Light is powered by the magnetic field generated by the yoke, so it automatically activates when the yoke is energized and there are no batteries or external power required.



FEATURES

- Fast, easy installation
- No wiring connection or batteries
- Automatically activated when yoke is energized

SPECIFICATIONS COMPLIANCE

- ASME BPVC
- ASTM E709
- ASTM E1444
- ASTM E3024
- ASTM E2297
- ISO 9934
- ISO 3059

PART NUMBERS

Yoke Light for Y-1	623745
Yoke Light for Y-2	628840

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