Y-2 Yoke

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.

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.

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

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

SPECIFICATION COMPLIANCE

- ASME BPVC
- ASTM E709
- ASTM E1444
- ASTM E3024
- ISO 9934-3
- MIL-STD-271

PRODUCT PROPERTIES

Electrical Requirements 628554, 630445 628555, 628560	 110-115V, 60 Hz 4.3 A max or 50 Hz 6.3 A max 220-230V, 50/60 Hz: 2.6 A max
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 / UKCA
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

USE RECOMMENDATIONS

NDT Method: Magnetic Particle Testing

	Description	Part number
Recommended Accessories	Yoke Test Weight	624115
	Yoke LED Light	628840
Service Parts	Cord with Type B Plug	628297
	Cord with Type F Plug	628298
	Cord with Type I Plug	628299
	Cord without Plug	630447
	Switch Replacement Kit	629261
	Leg & Foot Assy (Set of 2)	625994

PART NUMBERS

Series	Part Number	What's Different?			
		Voltage	Electrical Plug	Contents	Ideal Markets
Y-2 Yoke	628554	115V	Type B	Y-2 yoke & carrying case	North America
	628555	230V	Type F with a Type G adapter	Y-2 yoke & carrying case	Europe
	628560	230V	Type I	Y-2 yoke & carrying case	Asia, China, Oceania
	630445	115V	Cord Only, No Plug	Y-2 yoke & carrying case	Europe & Middle East
Y-2 Yoke Magnavis Kit*	628556	115V	Type B	Y-2 yoke, #1 Gray powder, #8A Red powder, yellow paint marker, shop cloth & carrying case	North America
	628557	230V	Type F with a Type G adapter	Y-2 yoke, #1 Gray powder, #8A Red powder, yellow paint marker, shop cloth & carrying case	Southern America & Southeast Asia

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