

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.

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 |
| | 630445 | Middle East | 115V | None | 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.

SPECIFICATION COMPLIANCE

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

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 628297 Europe Cord PN 628298 China Cord PN 628299 Middle East Cord PN 630447 Switch Replacement Kit PN 629261 |