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

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

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.
**PRODUCT PROPERTIES**

**Electrical Requirements**
- North American PN 628554
- European PN 628555
- Chinese PN 628560

<table>
<thead>
<tr>
<th>Voltage/Plug</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>110-115V, 60 Hz</td>
<td>4.3 A max or 50 Hz 6.3 A max (Type B plug)</td>
</tr>
<tr>
<td>220-230V, 50/60 Hz: 2.6 A max (Type F plug with Type G adapter)</td>
<td></td>
</tr>
<tr>
<td>220-230V, 50/60 Hz: 2.6 A max (Type I plug)</td>
<td></td>
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</tbody>
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**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**

<table>
<thead>
<tr>
<th>Series</th>
<th>Part Number</th>
<th>Model</th>
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<th>Plug</th>
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</thead>
<tbody>
<tr>
<td>Y-2 Yoke</td>
<td>628554</td>
<td>N. America</td>
<td>115V</td>
<td>Type B</td>
<td>Y-2 yoke &amp; carrying case</td>
</tr>
<tr>
<td></td>
<td>628555</td>
<td>Europe</td>
<td>230V</td>
<td>Type F (Type G adapter)</td>
<td>Y-2 yoke &amp; carrying case</td>
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<tr>
<td></td>
<td>628560</td>
<td>China</td>
<td>230V</td>
<td>Type I</td>
<td>Y-2 yoke &amp; carrying case</td>
</tr>
</tbody>
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<tbody>
<tr>
<td>Y-2 Yoke Magnavis Kit*</td>
<td>628556</td>
<td>N. America</td>
<td>115V</td>
<td>Type B</td>
<td>Y-2 yoke, #1 Gray powder, #8A Red powder, yellow paint marker, hand cleaner &amp; carrying case</td>
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<tr>
<td></td>
<td>628557</td>
<td>S. America &amp; S.E. Asia</td>
<td>230V</td>
<td>Type F (Type G adapter)</td>
<td>Y-2 yoke, #1 Gray powder, #8A Red powder, yellow paint marker, hand cleaner &amp; carrying case</td>
</tr>
</tbody>
</table>

*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**

<table>
<thead>
<tr>
<th>NDT Method</th>
<th>Magnetic Particle Testing</th>
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</thead>
<tbody>
<tr>
<td><strong>Recommended Accessories</strong></td>
<td>Yoke Test Weight PN 624115</td>
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<tr>
<td></td>
<td>Yoke LED Light PN 628840</td>
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<tr>
<td><strong>Service Parts</strong></td>
<td>North America Cord PN 628954</td>
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