

Y-1

AC Electromagnetic Yoke

The Y-1 is an AC electromagnetic yoke and the new generation of light weight, ergonomically designed yokes that improve job performance and productivity by reducing operator arm and wrist fatigue when testing in tight, confined and overhead areas. Provides a portable means of creating AC magnetic fields for the detection of surface indications during magnetic particle testing.

Lightweight, less than five pounds, and ergonomic with a molded grip and trigger on/off switch, the Y-1 has impact and chemical-resistant construction. Includes a robust strain-relieved ten-foot cord and carrying grommet for convenience in field use.

The Y-1 is also available as a test kit (Y-1 MV Kit), complete with a Y-1 yoke, #1 Gray and #8A Red magnetic powders, a paint marker and hand cleaner towels in a convenient carrying case.

FEATURES

- Ergonomic, light-weight design
- Soft-grip, angled body for better positioning
- Exceeds ASTM lifting specifications
- Steel shields for leg protection
- Durable rugged construction
- Oil and abrasion resistant power cord
- Individual serial number for each yoke

SPECIFICATION COMPLIANCE

- ASME BPVC
- ASTM E709
- ASTM E1444
- ASTM E3024

APPLICATIONS

Defect location: Surface

Ideal for:

- Field testing
- Difficult to reach areas
- Spot inspections
- In-service inspections
- Weld inspection

Defect examples:

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

PRODUCT PROPERTIES

Weight	4.6 lb / 2.1 kg
Leg Span	0–11 in / 0–28 cm
Cord Length	10 ft / 3 m
Duty Cycle	50%, max on time is 90 seconds
Electrical Requirements	115V – 60 Hz: 3.7 A 230V – 50/60 Hz: 2.6 A

USE RECOMMENDATIONS

NDT Method	Magnetic Particle Testing
Recommended Accessories	Yoke Test Weight PN 624115 Yoke Light PN 623745

PART NUMBERS

Y-1, 115V	623502
Y-1, 230V	623503
Y-1 MV Kit, 115V	623529
Y-1 MV Kit, 230V	623530