

YM5 PERMANENT MAGNETIC YOKE



001Y005

GENERAL DESCRIPTION

The Magnaflux® YM5 Permanent Magnetic Yoke is a portable and convenient means of magnetizing components for crack detection. It is supplied with a keeper bar, which has false indications to easily check magnetization strength. The YM5 consists of hinged arms and rotating pole pieces to allow a wide variety of profiles to be magnetized while the specially shaped pole pieces permit easy removal from the component. It is crafted in Magloy 1 for maximum magnetic field strength.

CORE BENEFITS

- Field strength in center of 50mm air gap, more than 400 gauss
- Weighs 7 lbs.
- Pull test > 40 lbs. Field strength, with pole tips in contact > 7,000 gauss
- Gauss pull test > 40 lbs. lift
- No electrical supply needed
- Portable

INSTRUCTIONS

1. Place the yoke on the work piece perpendicular to the direction of the cracks. Each leg can be moved in two directions at each joint, and the pole pieces rotated.
2. Then adjust the spacing between the legs from about 25 mm to 250mm and contour the feet to produce a good flat contact on parts with irregular shapes.
3. Apply the inspection medium, either wet or dry, and surface crack indications will form immediately. The inspection can proceed rapidly in a series of steps each finding cracks in a 150 mm x 150 mm area.
4. Since magnetic contact exists only between the Yoke and the work piece, arcing on the part itself is impossible. However, damage could occur through inadequate care when presenting the Yoke to the work piece.

SPECIFICATIONS COMPLIANCE

ASTM E709-08 (Section 6.3.1)

ASTM E1444/E1444M-12 (Section 6.2.2)

ASME BPVC (Section V, Article 7: T-755)