

**KSTY120 Handheld Magnetic Particle Yoke Flaw Detector**

## I. Brief Description

CDX magnetic-particle detector is a new type magnetic particle fault localization equipment designed and produced by our Company independently after utilizing the advantages of its counterparts at home and abroad. Magnetization by additional magnetic field renders the detector small in size and light in weight. Highly integrated circuit makes one device perform all the functions of several ones.

### Selection of functions:

A type probe: also named horseshoe magnetic yoke probe or fillet weld probe, turning joint angular magnetic head, which is fitted with a working lamp and is especially suitable for fault detection of work pieces with abnormal face and complicated shape. Polar distance: 20-16mm;lifting power: AC $\geq$ 5kg,DC $\geq$ 18kg;weight : 1kg. The equipment made by using this probe is referred to as horseshoe magnetic yoke detector or fillet weld detector. The probe finds wide application as it uses the turning joint.

D type probe: also called electromagnetic yoke probe with various turning joints and great magnetization strength. Polar distance:60-22mm; lifting power: AC $\geq$ 7kg,DC $\geq$ 18kg; weight: 1.6kg.The equipment made by using this probe independently is named electromagnetic yoke detector and the probe is featured by high magnetic inductivity and great magnetization strength.

E type probe: also called cross magnetic yoke probe or rotating-field probe and can conduct omnibearing combination magnetization flaw detection at a time. The running roller and working lamp can increase the fault detection speed. Polar distance: 110mm,lifting power: AC $\geq$ 9kg and weight:2kg. The equipment made by using this probe independently is called rotating-field fault detector, which uses two cross magnetic yokes and AC move-phase technology to produce a synthetic rotating field that varies with time for omnibearing combination magnetization of a work piece at a time. The fault detection is done quickly with high inspection quality.

O type probe: also called ring probe with an internal diameter of 150mm and center field  $\geq$ 180Oe.Weight:3kg.The equipment made by using this probe independently is named ring fault detector. It is designed on the principle of forming a strong magnetic field by energizing a coil and is suitable for sectional fault detection or demagnetization of complicated work pieces including axles, bars, pipes and vanes.

## II. Technical performance

1. Power source: AC 220V  $\pm$ 10% 50HZ 5A
2. Output: AC 36V 10A Probes of A.D.E.O can be selected for fitting.
3. Fault detection speed:  $\geq$ 6 m/ m
4. Temperature rise of probe:  $\leq$ 60 $^{\circ}$ C
5. Operating beat: It is suggested that in continuous long-time operation magnetization time  $\leq$ 3 s and off time $\geq$ 5 s
6. Weight of the detector:  $\sim$ 6.6Kg

# FOCUS IN MATERIAL TEST

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