



# YOKE

UCOMAX magnetic particle testing yokes are designed to be fast and reliable. We offer full range of magnetic particle testing yokes like permanent magnets, AC/HWDC and Battery Operated. Our yokes are versatile and durable for industrial environments. All these yokes are portable, light-weight & convenient to use.

## PERMANENT MAGNETIC YOKE FIXED/WIRE TYPE

Permanent Magnetic Yoke Fixed/Wire type are used where power supply is not available or it is difficult to provide. MPI since they are completely portable, these are easy to use, simple & highly economical.

### SALIENT FEATURES

- Rugged Design, requires no electrical supply.
- Ideal in Petrochemical, Offshore, Chemical Industries, etc.
- Suitable for both Dry & Wet applications
- Durable and for long life use.
- These yokes are light weight and Portable.
- Durable and for long life use.

Specification	Value
Lifting Capacity at 100mm pole spacing	Above 18 Kgs
Pole Distance	25 to 250 mm
Field Strength	With poles together 7000 gauss; In center of a 50 mm air gap 400 gauss
Yoke Weight	2.5 Kgs
Battery Operation	Not applicable
Re-magnetisation	Not required



## AC YOKE (UY 230 AC, UY 110 AC)

AC electromagnetic yoke can find surface indications during magnetic particle inspection. The Yoke has adjustable leg from 25 to 250 mm (Center to center) making yoke ideal for different geometries. It is widely used with either dry or wet method, fluorescent or non- fluorescent magnetic powder. With its ease of use for single-handed operation, it is widely used in the testing of welds, automotive components, forging, casting, steel, grey iron castings, for in-plant inspection and repair.

### SALIENT FEATURES

- Lightweight, angled body with grip, greatly reduces fatigue.
- Powerful AC Magnetic Field
- Exceed ASTM E709 & ASTM E1444 lifting Specifications
- Durable rugged construction
- Adjustable leg spacing
- Detachable power cord
- Input Supply 230 VAC, 50/60 Hz
- Input Supply 110 VAC, 50/60 Hz

Specification	Value
Max. Line Current Draw	2.5 Amps
Duty Cycle	50% Duty cycle (2 MIN ON / 2 MIN OFF)
Yoke Weight	2 Kgs
Pole Distance	50 - 280 mm
Cord Length	2 Mtrs
Lifting Capacity at 100 mm pole spacing	4.5 Kgs



## AC/DC Yoke (UY AC/DC)

The magnetic yoke which offers AC and HWDC single phase supply for magnetizing ferromagnetic material. The two outputs (AC or HWDC) are independently adjustable to balance the magnetic field intensity. This electromagnetic yoke can detect surface and subsurface discontinuities. It is widely used with either dry or wet method, fluorescent or non- fluorescent magnetic powder. With its ease of use for single-handed operation, it is widely used in the testing of welds, automotive components, forging, casting, steel, grey iron castings, for in-plant inspection and repair.

### SALIENT FEATURES

- Powerful AC and DC Magnetic Field
- Durable Rugged Construction
- Articulated Adjustable Leg
- Exceed ASTM E709 & ASTM E1444 lifting Specifications
- Built for safe operations with an optimal duty cycle

Specification	Value
Operating Mode	AC/HWDC
Operating Voltage	110-230V
Max Current Drawn	EF-2Y: 1.6 - 2.2 Amps EF-3Y: 3.2 - 4.4 Amps
Duty Cycle	50% at maximum output
Pole Distance	50 - 300 mm
Yoke Weight	4.5kg





## BATTERY OPERATED YOKE

Battery operated yoke is designed to be used where it is difficult to provide AC power supply. Portability for magnetic particle inspection in the field and remote locations is achieved through a battery pack.

### SALIENT FEATURES

- Portable with battery pack
- Effectively useful in remote areas and in yards
- Perfect for subsurface defects & demanding environment
- Exceed the ASTM E709 & ASTM E1444 lifting Specifications

Feature	Specification
Battery Charger AC Voltage	230 V
Frequency	50 Hz
Pole Distance	50 mm to 280 mm
Input Supply	12 V DC
Supply Current (Amps) in air	2.2 Amps
Yoke Weight	4 Kg
Battery Output (DC)	12 V (7A/h)







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