



Operation Manual
Magnetic Yoke
AY-7A

Introduction

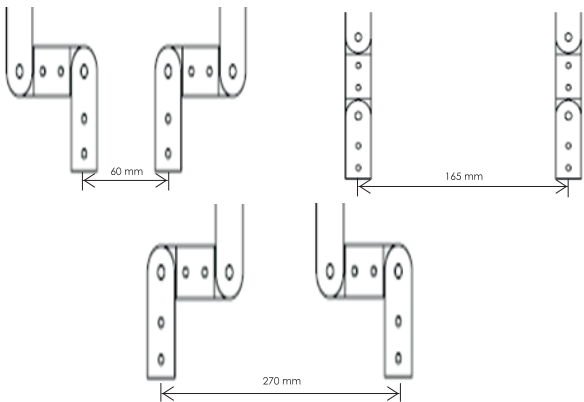
This manual contains necessary information to acquaint the & operation. The purpose of this manual is to furnish the operator with a functional knowledge of the operation & to make him understand the safety precautions which should be applied during & maintenance of the equipment.

General Description

The AY-7A is an AC electromagnetic yoke and the new generation of congenial designed yokes that reducing operator arm and wrist fatigue when testing in tight, confined, and overhead areas. The AY-7A provide powerful AC magnetic field for detection of crack on surface during magnetic particle inspection. Light Weight, accessible grip, triggered on/off switch, an Flexible power cord make it more convenient in field use.

Adjustable Core Legs

The AY-7A provide adjustable core leg from 65 to 260 mm center to center distance. The AY-7A is accessible to any possible geometry. The different geometries are shown below. To adjust the legs, loosen the nuts of the leg & adjust the length & geometrical shape according to your requirements. Make sure the nuts should be tight while using yoke.



Operation

- The AY-7A yoke is available in three variant 220-volt, 260-volt and 110-Volt
- Connect the yoke to the AC power supply
- Adjust the leg span and lift 4.5 kg (10 lb) lifting block to make sure there is ample amount of magnetic field generated in yoke
- Place the Yoke on the workpiece perpendicular to the direction of the cracks

- Trigger the switch and apply the inspection medium (wet or dry). Surface crack indications will form immediately. For enhanced sensitivity, use a fluorescent magnetic ink with a high-intensity black light/UV Lamp
- Repeat as required, moving the Yoke over the part

Safe use of the yoke

Our yokes are manufactured to the highest technical standards. You can ensure safe operation of your yoke by observing general safety and accident prevention regulations, including the advice outlined below.

- Familiarize yourself with the yoke's construction and method of operation. If necessary, contact support@arorandt.com for instruction
- Ensure it is physically undamaged
- Ensure the cable is free from cuts which expose the wiring.
- Wear appropriate personal protective equipment to protect yourself from overexposure to electromagnetic fields
- Do not allow untrained personnel to operate the yoke; improper use of the yoke can be hazardous to health
- Do not operate AY-7A for longer than 5 sec on followed by 5 sec off. If the Yoke becomes too hot to hold in your bare hand, this is a sign that the duty cycle has been exceeded. Stop inspecting & wait for the Yoke to cool before continuing
- Do not attempt to repair or rebuild the yoke unit

IMPORTANT HEALTH SAFETY INFORMATION

DO NOT USE THIS YOKE

- If you have a pacemaker, insulin pump or other implanted device
- If you have any metallic implants
- For more than 8 hours a day

Cleaning and Storage

- Periodically wipe the yoke with dry cloth
- Store unit in a dry room which is as free from dust and humidity

Product Warranty

- The AY-7A Yoke is warranted for a period of 12 months from the date of purchase.
- The warranty is void if the equipment is used in a non-professional manner, resulting in damage or if repairs are carried out without our consent.

Thank you for your business!

WE trust, we have catered as per your expectations...



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