

# MAGNETIC PARTICLE ACCESSORIES

## L-10 Coil



**Part Number: 50651**

### FEATURES:

- A portable, 10 inch (25 cm) diameter, general purpose A.C. magnetizing coil for detection of surface cracks in ferromagnetic metals
- Use either dry powder or wet bath magnetic particles
- Accepts parts up to 10 inches (25 cm) overall diameter
- Covered with rugged, tear resistant coating
- Equipped with a foot switch and 10 feet (305 cm) of flexible line cable
- Inspection area up to 9 inches (23 cm) on either side of coil
- Line current 12 Amperes • 2800 Amperes Turns

### APPLICATIONS:

For use on parts with good length to diameter ratio (3:1) or more

Flat bar stock  
Fork Truck Lift

Cam shafts  
Spindles

Pipe Lengths  
Crane Hooks

### OPERATION:

Plug the line cord into any source of 110-115v, 60 Hz., alternating current. Depressing the foot switch energizes the coil. Releasing the foot switch will de-energize the coil. To test the operation of the coil, energize the coil and position a lightly held screwdriver inside the coil close to the inner wall. A very pronounced pull should be felt as the screwdriver is moved in and out of the coil. Make sure the part to be inspected is dry and free of grease, oil and dirt.

Place the part within the coil and close to the inner wall. Long axis of part should be essentially parallel to the coil axis.

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Turn the coil on by depressing the foot switch and apply the magnetic particle powder or bath. If using the dry powder, such as #1 Gray, #2 Yellow, #3A Black, or #8A Red shake the bottle or powder bulb (as a salt shaker) in combination with a slight squeeze to dispense the powder. Sprinkle the powder on the area you want to inspect. Use the handy aerosol cans of 14AM or 14A Aqua-Glo if you want to use a fluorescent bath. Be sure you use a black light in a darkened area to inspect for fluorescent indications.

The coil will draw approximately 12 amps when operating on a 115 volt line, energized and with no metal in its field.

## **How to demag a part using an L-10 Coil**

1. Place part in coil as previously described.
2. Depress footswitch to turn coil on.
3. Slowly draw part out of coil until the part is a minimum of 12" from the coil.
4. Turn off coil by releasing the footswitch.