

TECHNICAL DATA SHEET

BLACK 2.0

Magnetic Particle Testing Yoke

1. DESCRIPTION

The **Callington Black 2.0 Magnetic Particle Testing Yoke** is small, light weight and durable. It is able to withstand the harsh NDT environment with its moulded body, heavy duty connectors and chemical resistant cable. Its designed to fit comfortably in your hand and portable enough to be used anywhere.

2. SPECIAL FEATURES

Comfort fit handle
Light weight
Durable moulded body
Chemical resistant cable
Heavy duty, site serviceable connectors

3. SPECIFICATIONS

The **Black 2.0 Magnetic Particle Testing Yoke** meets or exceed industry specifications including; ASTM E709, ASTM E1444, ASME SECTION V, ISO 9934-3

4. INSTRUCTIONS

Note: These instructions describe the basic process, but they may need to be amended by the user to comply with applicable specifications and/or inspection criteria provided by the contracting agency.

1. Clean the test surface and allow it to dry.
2. Apply **DUBL-CHEK CP-2** for background contrast, if required.
3. Magnetise the area to be inspected using the **Black 2.0 Magnetic Particle Testing Yoke**.
4. Ensure continuous agitation of the suspension.
5. Apply the visible/fluorescent suspension or dry particles to the test part at a distance of approximately 150mm from surface.
6. Allow the excess oil/water to run off or blow the excess particles from the inspection area.
7. Inspect the surface under visible light or ultraviolet light.
8. Collections of particles will reveal discontinuities at the leakage fields.
9. Clean and repeat the process; changing the orientation of the **Black 2.0 Magnetic Particle Testing Yoke** magnetising direction.

5. SERIAL NUMBERS

Serial numbers can be found on the Data Plate located on the side of the yoke. Certificate of Conformance documents are provided with the product or can be downloaded from <http://www.callingtonhaven.com/certificates.php>

TECHNICAL DATA SHEET

6. PROPERTIES

Model:	Black 2.0
Colour:	Black
Label:	Callington logo & Data Plate
Power:	220V 50Hz
Current:	AC 1.0A
Duty Cycle:	<30 sec. on, 30 sec. off
Electromagnetic Strength:	4.5kg at 50-100mm spacing
Weight:	2.5kg
Cable:	3m red chemical resistant cable

7. ORDER CODE

Item Code: BLK2
Product Name: Callington Black 2.0 Magnetic Particle Testing Yoke

Item Code: BLK2WC
Product Name: Callington Black 2.0 Magnetic Particle Testing Yoke with Case

8. RELATED PRODUCTS

<u>CP-1 – Peelable Contrast Paint</u>	<u>CP-2 – Solvent Removable Contrast Paint</u>
<u>BO-1 – Black Oxide No.1 Visible Suspension</u>	<u>GLO-NETIC – GW-1 Fluorescent Suspension</u>
<u>DR-64 – Cleaner/Remover</u>	<u>MPF - Magnetic Particle Fluid</u>
<u>Dusting Powders</u>	<u>Flux Indicator Strips</u>
<u>Penetrameter & Field Indicators</u>	<u>4.5kg Test Bar</u>

9. STORAGE

Keep away from moisture
Keep the storage container closed when not in use.
Recommended Storage: 10°C - 32°C

10. HEALTH & SAFETY

The **Black 2.0 Magnetic Particle Testing Yoke** molded body is spray resistant. Avoid submersion and excess contact with liquids around seals and connections. The switch and connectors are made from durable seals that prevent liquid from entering the body; however, these seals may deteriorate over time and will need replacing. Inspection of the switch and connections prior to use to prevent arcing. Do not leave residue from suspension fluid on the yoke surface. The fluid may cause the moulded body to warp around seams and seals.

When using particles suspended in oil it forms a combustible liquid. Use with adequate ventilation and away from spark, fire or open flames. Avoid prolonged or repeated contact with skin. Do not breathe gas, fumes, vapour or spray. Consult the MSDS for more Safety and Health information.

Get medical attention if irritation develops and persists. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

WARRANTY – All statements, information and data presented herein are believed to be accuracy and reliable but are not to be taken as a guarantee, expressed or implied, for which seller assumes legal responsibility and they are offered solely for your consideration, investigation and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe on any patent.

22 August 2007
