

**DESCRIPTION:**

Permanent magnet with flexible cable WM-5C allows magnetoscopic control everywhere. Used in laboratory, workshop, as well as on site, the WM-5C is quite suitable for inspections in hard areas to reach or at risk of fire and / or explosion ( petrochemical ) precisely where the use of VCRs type solenoid arm articulated is prohibited.

The magnetic poles of the two WM-5C are linked by a metal cable to make them interrelating for easy inspection of a wide variety of parts. WM-5C allows, in some cases, can replace a permanent magnet in the shape of a horseshoe to carry out checks in areas even more difficult to access.

It is not bulky but it is light, powerful and generates a direct magnetic field. The WM-5C is used to localize the surface-breaking and subcutaneous defects such as: cracks, micro-baits due to tiredness and corrosion (like cracks near rivets' holes), tension constraints... in mechanical organs or on structural elements.

**CHARACTERISTICS:**

- Diameter of the poles: 35 mm
- Height of the poles: 210 mm
- Length of cable: 580 mm
- Weight: 0,770 kg
- Pullout force > 22 daN (18 kg)

**CONFORMITY TO SPECIFICATIONS:**

Though norms AFNOR NF EN ISO 9934-1 & 9934-3 do not apply to permanent magnetization, the WM-5C is conform to the following:

ASTM E709-95  
 ASTM E1444-01  
 ASME Section V, Article 7 ; T-762 ; I-753  
 NAVSEA 271-97  
 MIL-STD-1949A (not applied anymore)  
 MIL-STD-6868 (not applied anymore)

**MAINTENANCE:**

After use, the poles must be cleaned by using paper or a cloth. Put it in an area where it will not suffer from humidity like a suitcase. The use of a metallic plate between the poles is recommended to close the magnetic circuit. It will reduce the mutual demagnetization of the poles which can occur later.



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## OPERATIVE TECHNIQUE:

The surfaces to be checked must be clean and scraping of the piece is sometimes necessary. The poles must be positioned on the piece to be checked so as to ensure good contact allowing optimal magnetization which can be checked using CASTROL type 1 indicator. All magnetic products can be used as an alternative (refer to the corresponding technical information for their methods of use):

SUPRAMOR 4 black magnetic liquor, in conjunction with FONDS BLANCS 712 (classic) or 722 (peelable), contrasting white paints.

LUMOR J fluorescent magnetic liquor under ultraviolet radiation (UV-A).

FERROMOR dry powders with examination in white light or under ultraviolet radiation (UV-A) depending on the powder used.

The pole spacing is adjustable and this can be increased and / or reduced. It is recommended to space the poles at least about 15 cm.

**Operation 1.** Apply, if necessary, FOND BLANC 712 or 722 and leave to dry.

**Operation 2.** Place the poles of the magnet on the surface to be checked perpendicular to the suspected defect. Then apply the black SUPRAMOR 4 liquor, the fluorescent LUMOR J liquor or the FERROMOR magnetic powder to the area to be checked.

**Operation 3.** Rotate the permanent magnet 90 ° from its preceding position on the surface and reapply the liquor or magnetic powder to the area to be checked.



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