

For Your Safety

The joysticks and the COMPACT controller units comply with the current safety rules, and in particular:

- 98/37/EC Machine Directive
- 2006/95/EC Low Voltage Directive
- 2004/108/EC EMC Directive
- CEI EN 60204-32 Lifting Machinery Safety Regulations
- CEI EN 60947-1 Low-voltage switchgear and controlgear
- CEI EN 60947-5-1 Control circuits devices and switching elements

Guaranteed Quality Product

The joysticks and the COMPACT controller units are guaranteed by our CE Certificate of Conformity, available on request, in which it is declared that such product was created by RAVIOLI in accordance to defined and recognised Safety Regulations, and in compliance with the Quality Standards stated in our UNI EN ISO 9001-2000 Quality System Certificate.

Installation and maintenance instructions

Installation of the GMC controller units and MW joysticks must be carried out by qualified personnel in compliance with current safety standards. Electrical current must be removed from the equipment before carrying out cabling. Cabling must be effected in compliance with the electrical diagram for the controlled machine. After installation has been completed, all commands must be checked to ensure that they are operating properly. Avoid prolonged use with oils and acids, as this may cause damage to the products.

Cabling of GMC controller unit

For cabling proceed as follows:

- remove the bottom (A) by loosening the screws (B)
- insert the cable ($\varnothing 15 \div 25$ mm) in the PG29 cable entry (C) provided in the case
- tighten cable and cable entry into cover hole
- carry out cabling inside
- close the case, by tightening the screws (B)

Installation and cabling of Joysticks

For installation and cabling proceed as follows:

- make holes in compliance with mounting plan (see page 3)
- loose and remove screws (D)
- remove plate (E)
- remove the rubber cover (F) and insert the joysticks into the hole $\varnothing 70$ mm
- replace plate (E) at bottom of rubber cover (F)
- replace and tighten screws (D)
- carry out cabling in accordance with diagram

MAINTENANCE

A program of periodic maintenance is strongly advised to ensure perfect working order of the controller unit and the joysticks. All operations must be carried out by authorised personnel and original spare parts must be used. Any part showing defects or alterations should be replaced immediately, even outside the maintenance program, in order to ensure maximum safety of operation at all times. In particular it is necessary to:

- Clean the equipment periodically, using non aggressive products and compressed air for the external parts, and compressed air only for the internal parts
- Check cabling and that all screws and the contact clamps are adequately tightened
- Check that all gaskets, rubber parts and external parts are in good working order
- Check correct working of the equipment by carrying out a series of test operations

Any alteration of the parts of the product will make manufacturer's guarantee decline.

RAVIOLI declines any liability for damages deriving from incorrect installation or improper use of the product.