

OPERATING AND SAFETY INSTRUCTIONS

PER L'UTILIZZO

FOR DIAMOND TOOLS

READ CAREFULLY AND PROVIDE SAFETY INFORMATION TO THE OPERATIONAL STAFF.

These products are produced in compliance with the following norm: EN13236. Before handling or using the product, all the persons involved must know, understand, respect and apply carefully and thoroughly the above-mentioned regulations, the present document, the information written on the product itself or on the packaging, the manual of the machine used and the safety sheets of all materials involved (diamond tool, worked material, cutting lubricants, etc.); instruct your operators on the safe use of the product; make sure operators understand the instructions; do not allow untrained and/or incompetent persons handling and use abrasive products. Users must comply with the laws, decrees and regulations in force in their country and with the instructions for use and safety of the machines on which the products are installed. The following guidelines are not exhaustive: for more information and for safety sheets, please visit the SAFETY section, and/or contact us through the CONTACTS section on our website www.globeabrasives.com. Diamond tools must be handled and used with care. They may produce dangerous events and/or accidents and damages. The use of damaged, tampered, excessively worn products, outside their intended field of application or on unsuitable materials, improper use and incorrect installation may result in accidents, damages, and serious injuries to people. The use of the product may release contaminants into the air that are harmful to health. Check the safety data sheets for the materials involved in the work. Use appropriate collection systems of dust/fumes and wear respiratory protective devices.

RECALLED PRODUCTION BATCHES.

Before using an abrasive product, see the LIST OF RECALLED BATCHES section on our website and, following the instructions, check if the product belongs to a recalled production batch. If this happens, do not use the product, isolate the product and all those contained in the same packaging/production batch and contact our customer service through the CONTACTS section at www.globeabrasives.com.

EXPIRY.

Diamond tools do not expire.

CHECK, TRANSPORT, HANDLING AND STORAGE.

Check the presence of damages in the packaging; refuse deliveries with damaged packaging; handle with care and avoid impacts; do not expose the product to environments with humidity above 65%; do not expose to frost; for a correct product selection please refer to our catalog or our guide in the PRODUCTS section at www.globeabrasives.com.

PRODUCT CONTROL.

Before installing the product, check that the product itself is not cracked or damaged. Do not use damaged products (fig. 7).

MACHINE CONTROL.

Check flanges, shafts, adapters. Verify that the machine is suitable for the job to be carried out and the product is compatible with the machine. Always use only with the safety guard supplied together with the machine (fig. 6). Always orient the open part of the safety guard in the opposite direction to that of the operator and other people and make sure the safety guard itself is well adjusted and locked. Always keep the machines in good state of efficiency. Do not use machines that do not indicate the rotation speed on their plate or not provided with.

EYES, FACE AND BODY PROTECTION.

Wear eye and face protections such as masks, screens and glasses (fig. 2). Wear hats or protections for the head, heavy leather aprons, safety shoes, tight-fitting clothing. The noise produced by abrasive products can exceed 80dBA. Prolonged exposure may cause permanent hearing damage. Use headphones, ear plugs, anti-noise screens (fig. 3). Vibrations produced by diamond tools can cause damages to the human body; provide for frequent breaks and job rotation and use machines and/or gloves equipped with vibration reduction devices. Make a specific noise and vibration risk assessment by taking appropriate precautions and protections. Wear protective gloves that fully cover your wrists (fig. 4). Evaluate the chemical and physical risks, associated with the use of the product and take appropriate preventive measures. Protect the respiratory tract, use masks, masks with specific filters or in the most extreme cases self-contained breathing apparatus; some building materials of quartz and asbestos nature may release dust and cause serious illnesses when working with diamond tools without the appropriate protective measures: use work environment protection systems such as ventilation, filtration and aspiration of dust (fig. 5). Also the staff nearby should be adequately protected.

INSTALLATION INSTRUCTIONS.

Follow the instructions provided with the machine and the product as well as the operating restrictions indicated on its label (fig. 1). Ensure that the maximum rotation speed per minute (RPM) of the machine is always (in any operating condition) less than or equal to that indicated on the product label. To further highlight the peripheral speed of use, the product may be marked by a transversal colored strip encoding the maximum permitted speed; Refer to www.globeabrasives.com (SAFETY section) to identify the speed corresponding to the colors of the strip. Check that sizes and shape of the product are compatible with the machine. Verify that the product is contained within the safety guard of the machine. Do not change the clamping flanges or the safety guard. Do not install more than one disc on the spindle. Before assembling or disassembling a diamond product, unplug the power source (electric current, compressed air, etc.). Do not force the assembly. Do not tighten with too high torques. Install the product, make sure it rotates freely by turning it by hand. Check the presence, correct installation and locking of the safety guards. Connect the power source, start the machine, and make it rotate loosely for at least 30s; during this test, keep the open area of the safety guard oriented in the opposite direction to the operator and never oriented towards other people. In case of anomalies, vibrations or irregular rotation, stop the machine, unplug the power supply, disassemble the product and check its assembly; if the problem persists, discard the product and inform the supplier about the problem. When turning off the machine, let the moving parts stop and unplug the power source; then proceed to disinstall the product. Do not try to stop the machine in different ways.

CLAMPING FLANGES (TAB.1) Make sure the flanges are flat, clean and smooth. Always use suitable flanges. The pairs of flanges must have the same diameter and the same shapes (recesses) to both sides of the grinding wheel; always use only the flanges supplied to the machines.

PRODUCTS MARKING.

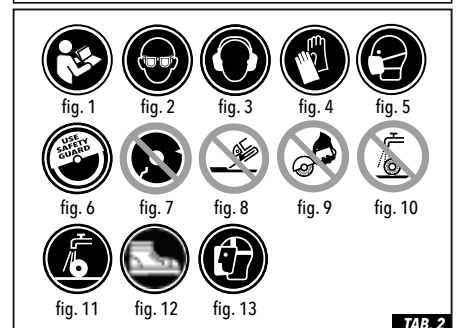
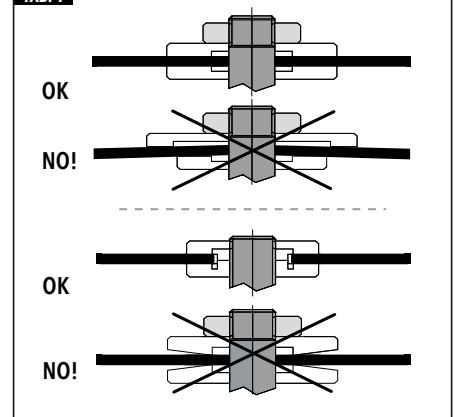
Dimensions (outer diameter and hole diameter); maximum speed (RPM) and maximum peripheral speed (m/s) allowed; direction of rotation; reference standards: EN13236; instructions on the workable material; pictograms TAB.2: from fig. 1 to fig. 7 already illustrated above; (fig. 8) do not use to grind; (fig. 9) do not use on portable machines; (fig. 10) do not use coolant; (fig. 11) use only with coolant; (fig. 12) wear safety shoes; (fig. 13) wear a face shield (ISO 7010).

SPECIFIC INSTRUCTIONS FOR USE AND RESTRICTIONS.

Use the products only and exclusively for use, materials and type of machine for which they are intended; perform the work in a progressive, slow and gentle way; do not apply too much heavy loads; do not grind or cut objects subjected to forces or pressures that could be released as a result of cutting/grinding operations or in fire/explosion hazard areas. Remove all combustible, flammable or explosive materials from the work area; firmly fix the pieces to be worked before starting the operation; always hold portable machines with both hands. Do not use cutting discs to grind and do not apply side loads on them; do not perform curved cuts; to improve the abrading/cutting action of the diamond, it is recommended to perform a short "running-in" of the product on an abrasive material such as brick or disc-reviving brick in order to expose the diamond grains on the product surface. Every time the performances tend to decrease, repeat the "running-in" operation to revive the cutting edge. Allow the product to cool down during use by rotating it idle for a few moments. If the product is blocked in the worked material, stop the machine and try to pull it out without forcing and/or levering on it. Finally, check the integrity and planarity of the product before using it again.

Discard the used products according to the regulations in force.

TAB. 1



TAB. 2