

OPERATING AND SAFETY INSTRUCTIONS FOR THE USE OF RESIN-BONDED, RIGID, SEMI-FLEXIBLE AND FLEXIBLE ABRASIVE PRODUCTS. READ CAREFULLY AND SHARE WITH ALL OPERATORS.

For further information on: selection, features, use and safety of abrasive products, please refer to the general catalogue, our website www.globeabrasives.com or contact us. Abrasive wheels can generate dangerous situations and/or create accidents. Read carefully the following information and the labels' indications; operators must be instructed to use abrasive product; operators must comply with the laws and decrees of their country and the safety/operating instructions of the machines on which abrasive wheels are mounted. Do not allow untrained/incompetent operators to use abrasive wheels. Abrasive wheels are relatively fragile: handle and use with care. The use of damaged wheels, the non correct use and the non correct installation can cause accidents, damages and serious injuries to persons. Cutting, grinding and polishing applications can free hazardous contaminants in the air. Use appropriate powder/fumes suction systems and wear protection devices for respiratory tract.

RECALLS ON PRODUCTION BATCHES.

Before using an abrasive product, check the page "recalled batch" on our website and, following the instructions, verify if the product is part of a recalled batch. Should this be the case, do not use the product, isolate it and all the other wheels coming from the same box/batch and contact our customer service.

EXPIRY.

Lifetime of resin-bonded abrasive wheels is **3 years** from production date **if reinforced (BF on label)** or **2 years if without reinforcement (B on the label)**. The expiry date can be shown on the boxes, on the central metal hub, through cuts on the label perimeter or printed on one of the 2 sides of the disc. **Never use expired wheels.** These wheels are manufactured according the following norms:

EN12413 (EU), ANSI B7.1 (USA), AS 1788.1 (AUS).

CHECKING, TRANSPORT, HANDLING AND STORAGE.

Verify packaging damages; refuse damaged packagings; handle with care and avoid shocks; store at temperatures between 10°C (50°F) and 30°C (86°F) and humidity around 45%; do not expose wheels to frost and high humidity conditions, water or chemical products such as solvents. Always use oldest wheels, but make sure they are not expired. For a correct choice, contact us, refer to our catalogue or our web site.

WHEEL INSPECTION.

Before mounting the wheel, make sure it is not cracked or damaged. Do not use wheels if damaged (fig.7) or expired. Carry out a sound check by striking one side of the disc with a non metallic object (screwdriver handle). If the sound is damp and not clear, reject the wheel. Do not use wheels that were exposed to too high/too low temperatures/humidity or that have been artificially or accidentally wet.

MACHINE INSPECTION.

Check flanges, backing pads, support pivots and adapters. Make sure the grinder is suitable for the type of work to be made and that the wheel is adequate for the grinder. Always use with suitable safety guard (fig.6). Always direct the open part of the safety guard to a direction opposite to the operator. Keep machines in an efficient state. Do not use machines that do not indicate the rotation speed on the nameplate or that do not have it.

EYES, FACE AND BODY PROTECTION.

Use eye and face protections as masks, screens and glasses (fig.2). Wear hats or head protection, heavy leather apron, safety shoes, tight fitting clothes. The noise generated by the wheels can exceed 80 dBA. A prolonged exposure can cause permanent damages to hearing. Use ear protection such as earplugs and anti-noise screens (fig.3). The vibrations generated by the wheels can cause damages to the human body. Adopt work turnover and resting breaks. Carry out a specific evaluation of the noise and vibrations risk and adopt suitable protection and precautions. Wear protective gloves that fully cover also wrists (fig.4). Carry out an evaluation of the physical, chemical risks associated with the use of abrasive products and adopt suitable precautions and protective measures. Protect the respiratory tract: use masks with special filters, air respirator systems, protective measures of the working environment such as ventilation systems, filtration and powder/fume suction (fig.5). Nearby personnel must be protected with all the above precautions/measures.

ASSEMBLY INSTRUCTIONS.

Follow the assembly instructions supplied with the machine and the use restrictions shown on the wheel label (fig.1). Make sure the maximum turning speed (RPM) of the machine is always, in any operating condition, lower than or equal to the speed shown on the wheel label. A transversal coloured stripe on the wheel label indicates also its operating peripheral speed according to the following scheme: **TAB. 1:**

None	lower than 50 m/s	Blue	up to 50 m/s
Yellow	up to 63 m/s	Red	up to 80 m/s
Green	up to 100 m/s		

TAB. 1

Check that dimensions and shape of the wheel correspond to those allowed for the machine. Check that the wheel is wholly contained within the safety guard of the grinder. Do not modify the clamping flanges. Before mounting or dismounting an abrasive wheel, disconnect the power supply (electric energy, compressed air, etc.). Do not force wheels during assembly. Avoid clamping with too high tightening torque. Once the wheel is installed, make sure that it rotates freely by turning it by hand.

Check the presence, correct installation and securing of the safety guard. Connect the power supply, start the machine and make it turn for at least 30". During this test, do not keep the open area of the safety guard oriented towards the operator and other personnel. In case anomalies, vibrations, irregular rotation should occur, let the grinder stop naturally, disconnect power supply, remove the wheel and check its assembly. If the problem persists, reject the wheel and inform the supplier of the problem. Some types of wheels can be supplied with mounting blotters that have to be mounted between the flanges and each side of the disc to compensate slight irregularities of surfaces between flanges and wheels.

CLAMPING FLANGES.

Make sure the flanges are flat, clean and smooth. Always use suitable flanges **TAB.2**. Flanges must have the same diameter and the same shape (recesses) towards both faces of the wheel; make exception the raised hub flanges (mod. 1 of **TAB.2**).

Flanges diameter: for cutting and grinding wheels is normally equal to 1/3 of the wheel diameter.

Make exception: reinforced depressed center grinding wheels (Type 27), reinforced conical (Type 28), semi-flexible reinforced (Type 29), reinforced depressed centre cutting wheels (Type 42) and flat (Type 41) up to diameter 230mm, that must have the following flanges diameters:

- 19mm (wheel diameter ≤100mm and bore ≤10mm)
- 32mm (wheel diameter ≤100mm and bore between 10 and 16mm)
- 41mm (wheel diameter between 100 and 230mm, bore 22.23mm).

INDICATIONS SHOWN ON WHEEL LABEL.

Specifications characterizing the wheel: wheel dimension; Type of abrasive (A, Z,C, SG); granulometry of the abrasive (16,...,100) expressed in Mesh.

Hardness: scale of toughness shown with letters from A (very soft) to Z (very hard). Resin binder shown by "B" and reinforcement structure shown by "F" on label.

Maximum allowed turning speed (RPM) and maximum allowed peripheral speed (m/s): the most common peripheral speeds are 50-63-80-100m/s.

Reference norms: EN12413, ANSI B7.1.

Indications on the workable materials: steel, aluminum, cast iron, stainless steel, stone, marble, etc.

Shape types TAB.3: (Type 1) straight grinding wheel; (Type 27)depressed centre grinding wheel; (Type 28) conical grinding wheel; (Type 29) depressed centre semiflexible grinding wheel; (Type 41) flat cutting wheel; (Type 42) depressed centre cutting wheel.

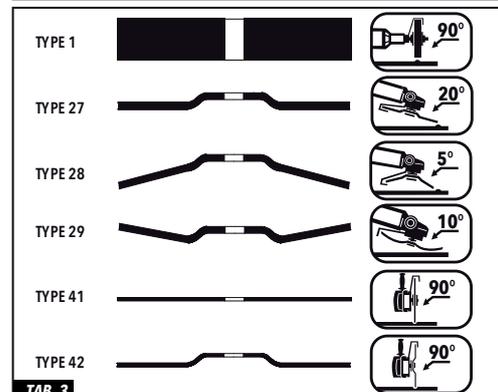
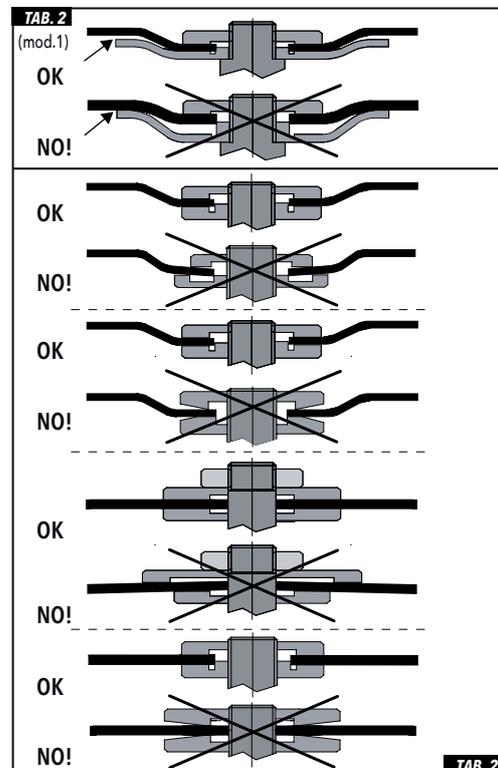
Pictograms TAB.4: from fig.1 to fig.7 explained above; (fig.8) do not use for side grinding; (fig.9) do not use on portable machines (wheels made only for stationary machines); (fig.10) not suitable for wet grinding/cutting; (fig.11) only suitable for wet grinding/cutting; (fig.12) only for totally enclosed machines; (fig.13) only for grinding with angle greater than 10°.

USE INSTRUCTIONS AND RESTRICTIONS.

Use the wheels only and exclusively for uses, materials and type of machine for which they are intended; do not use cutting discs (Ex. Type 41 e 42)

for grinding and not applying lateral loads on them; always keep the grinder with two hands; perform the sanding or cutting progressively, slowly and delicately; do not apply too heavy loads on the wheels; do not make curvilinear cuts; do not use the side of the disc for grinding unless expressly indicated (Es. Type 1); do not cut or grind objects subject to forces or pressures that could be freed as a result of the cutting/deburring action. Remove all combustible, flammable or explosive materials from the work area; firmly fix the workpieces before starting work. Allow the product to cool down during use by making it spin freely for a while. If the product hangs in the processed material, stop the machine and try to pull it out without straining and/or levering it. Check the integrity and flatness of the product before using it again. If a disk breaks during use, stop processing, isolate the disk and the entire lot and notify the distributor or manufacturer.

Dispose of the products according to the National laws in force in your country.



OPERATING AND SAFETY INSTRUCTIONS FOR THE USE OF COATED ABRASIVES (FLAP DISCS, FLAP WHEELS, SANDING DISCS, ABRASIVE SHEETS, ROLLS, BELTS, ETC.) READ CAREFULLY AND SHARE WITH ALL OPERATORS.

For further information on: selection, features, use and safety of abrasive products, please refer to the general catalogue, our website www.globeabrasives.com or contact us. Coated abrasive products can generate dangerous situations and/or create accidents. Read carefully the following instructions and the indications on the labels. Operators must be instructed on the use of abrasive products, comply with the laws and decrees of their country and the safety operating instructions of the grinders on which abrasive products are mounted.

Do not allow untrained or incompetent operators to use abrasive products.

Coated abrasive products are relatively fragile: handle and use them with care. The use of damaged products, the inadequate mounting and use can cause accidents, damages and serious injuries to people. Grinding and polishing applications can free hazardous contaminants in the air; use appropriate powder/fumes suction systems and wear protection devices for respiratory tract.

RECALLS ON PRODUCTION BATCHES.

Before using an abrasive product, check the page "recalled batch" on our website and follow the instructions, verify if the product is part of a recalled batch. Should this be the case, do not use the product, isolate all boxes from the same batch and contact our customer service.

EXPIRY.

Coated abrasive products have no expiry but we suggest they are used within **3 years** from the production date.

CHECKING, TRANSPORT, HANDLING AND STORAGE.

Verify packaging for damages and refuse shipment if it's the case. Handle with care, avoid shocks, store at temperatures between 10°C (50°F) and 30°C (86°F) and humidity around 45%;. Do not expose products to frost, water or chemical products such as solvents. Always use the oldest products first.

For a correct choice, contact us, refer to our catalogue or our web site.

CHECKING THE PRODUCT.

Before mounting, make sure that the product is not cracked or damaged. Do not use damaged products (fig.7).

GRINDER INSPECTION.

Check flanges, backing pads, support pivots and adapters. Make sure the grinder and the product to mount are compatible and suitable for the type of work to be done. Always use with the safety guard supplied with the grinder (fig.6).

Always direct the open part of the safety guard to a direction opposite to the operator. Keep machines in an efficient state. Do not use machines that do not indicate the rotation speed on the nameplate or that do not have it.

EYES, FACE AND BODY PROTECTION.

Use eye and face protection such as mask, screen and glasses (fig.2), hat or head protection, heavy leather apron, safety shoes and tight fitting clothes. The noise generated by coated abrasive products can exceed 80 dBA so a prolonged exposure can cause permanent damages to hearing. Use ear protection such as earplugs and anti-noise screen (fig.3). The vibrations generated by coated abrasive products can cause damages to the human body so make sure you adopt work turnovers and resting breaks.

Carry out a specific evaluation of the noise and vibration risk and adopt suitable protections and precautions. Wear protective gloves that fully cover wrists (fig.4). Carry out an evaluation of the physical and chemical risks associated with the use of abrasive products and adopt suitable precautions and protective measures. Protect the respiratory tract by wearing a mask with specific filters or air respirator systems. Use protective measures of the working environment such as ventilation, filtration and powder/fume suction systems (fig.5). Nearby personnel must be protected with all the above precautions/measures.

ASSEMBLY INSTRUCTIONS.

Follow the assembly instructions supplied with the grinder and the use restrictions shown on the abrasive product label (fig.1). Make sure the maximum turning speed (RPM) of the grinder is always, (in any operating condition), lower than or equal to the speed shown on the abrasive product label. A transversal colored stripe on the label also indicates its operating peripheral speed according to the following scheme **TAB.1**:

Blue	up to 50 m/s
Yellow	up to 63 m/s
Red	up to 80 m/s

TAB. 1

For abrasive belts, make sure the peripheral speed of the driving rolls of the grinder is lower than or equal to the maximum speed allowed for the type of belt.

Make sure that the dimensions and shape of the abrasive product correspond to those allowed for the grinder. Check that the abrasive product is wholly contained within the safety guard of the grinder. Do not modify the clamping flanges. Before mounting or dismantling an abrasive product, disconnect the power supply (electric energy, compressed air, etc.). Do not force during assembly. Avoid clamping with too high tightening torque. Once the abrasive product is installed, make sure that it rotates freely by turning it by hand before starting the grinder. Check the presence, correct installation and securing of the safety guard.

Connect the power supply, start the grinder and make it turn for at least 30" before putting it in contact with the working piece. During this test, do not keep the open area of the safety guard oriented towards the operator and other surrounding personnel. In case anomalies, vibrations, irregular rotation should occur, let the grinder stop naturally, disconnect power supply, remove the abrasive product and check its assembly. If the problem persists, reject the abrasive product and inform the supplier of the problem.

CLAMPING FLANGES.

Make sure the flanges are flat, clean and smooth. Always use suitable flanges **TAB.2**.

INSTRUCTIONS ON PRODUCTS' LABELS.

Specifications characterizing the product: dimensions; type of abrasive (A, Z, C, SG); granulometry of abrasive grit (16,...,100) expressed in Mesh.

Maximum allowed turning speed (RPM) and maximum allowed peripheral speed (m/s): the most common peripheral speeds are 50-63-80m/s.

Reference norm: EN13743

Indications on the workable materials: steel, aluminum, cast iron, stainless steel, stone, marble, etc.

Pictograms TAB.3: from fig.1 to fig.7 explained above; (fig.8) only permitted with backup pad (for sanding discs); (fig.9) do not use on portable grinders; (fig.10) not suitable for wet grinding/polishing; (fig.11) only suitable for wet grinding/polishing.

USE INSTRUCTIONS AND RESTRICTIONS.

Use the coated abrasive products only and exclusively on materials, purposes and grinder types they have been designed for. Grind/polish progressively, slowly and delicately. Do not apply too much pressure and do not grind pieces subject to forces or pressures that could be released due to this operation. Remove all combustible, flammable or explosive materials from the working area. Firmly fix the work pieces before starting to work. Allow the product to cool down during use by making it spin freely for a while.

Flap discs: Use only with safety guard and at a 10° working angle (**TAB.4A**).

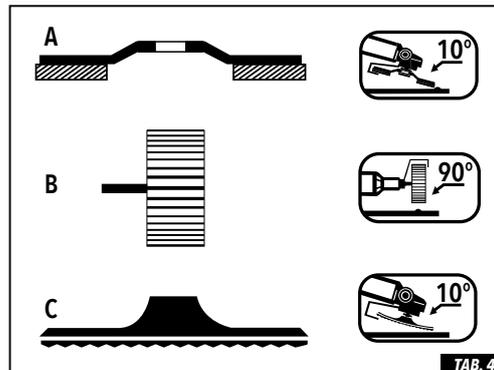
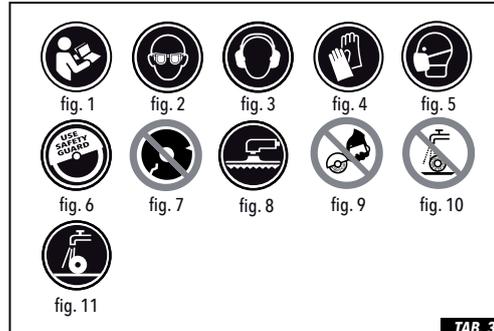
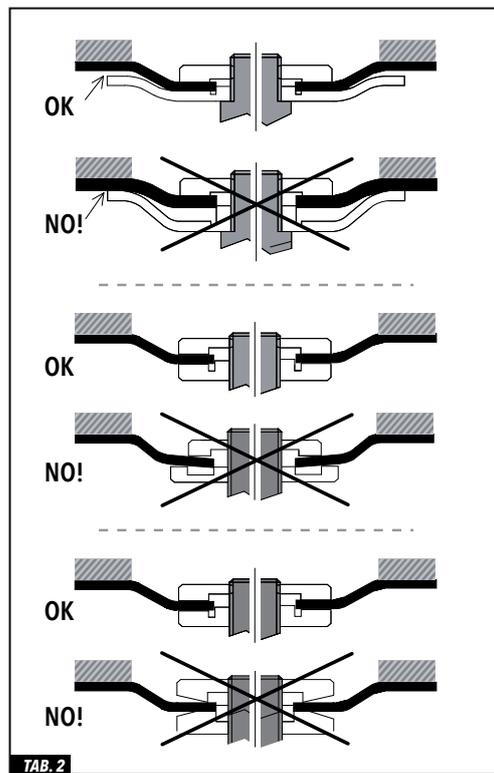
Abrasive belts: use only with safety guard. Do not touch the belt while moving. Store the belts hanged to drums of 50mm of minimum diameter. Do not damage the belt with sharp-edged pieces.

Flap wheels: check that the rotation direction corresponds to the one shown on the product.

Spindle mounted abrasive products: fit the spindle into the mandrel minimizing the protruding part and verify the rotation direction (**TAB.4B**).

Fibre discs: use only with safety guard and suitable backing pad and clamping flange. The disc must protrude the backing pad by at least 2 mm; use at a 10° working angle. (**TAB.4C**).

Dispose of the products according to the National laws in-force in your country.



USE AND SAFETY INSTRUCTIONS 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 uninstructed 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.

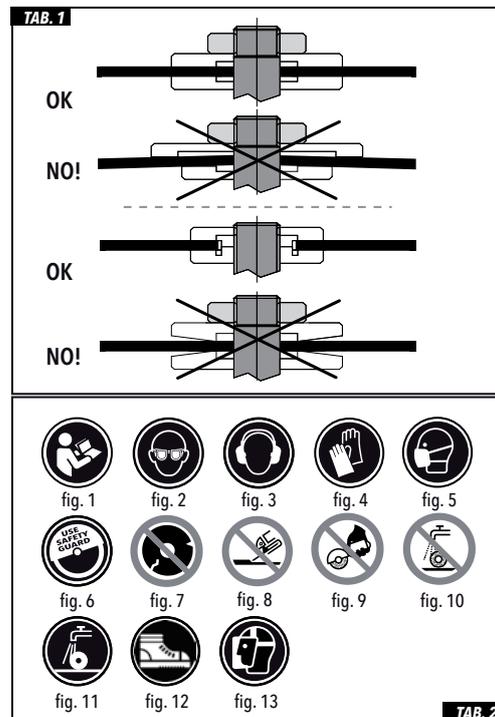
PRODUCTS MARKING.

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.

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.



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OPERATING AND SAFETY INSTRUCTIONS FOR THE USE OF RESIN-BONDED, RIGID, SEMI-FLEXIBLE AND FLEXIBLE ABRASIVE PRODUCTS. READ CAREFULLY AND SHARE WITH ALL OPERATORS.

For further information on: selection, properties, use and safety of abrasive products, please refer to the general catalogue, our website www.globeabrasives.com or contact us. Abrasive wheels can generate dangerous situations and/or create accidents. Read carefully the following information and the labels' indications; operators must be instructed to use abrasive product; operators must comply with the laws and decrees of their country and the safety/operating instructions of the machines on which abrasive wheels are mounted. Do not allow untrained/incompetent operators to use abrasive wheels. Abrasive wheels are relatively fragile: handle and use with care. The use of damaged wheels, the non correct use and the non correct installation can cause accidents, damages and serious injuries to persons. Cutting, grinding and polishing applications can free hazardous contaminants in the air. Use appropriate powder/fumes suction systems and wear protection devices for respiratory tract.

RECALLS ON PRODUCTION BATCHES.

Before mounting an abrasive product, check the page "recalled batch" on our website www.globeabrasives.com/recalls, and, following the instructions, verify if the product is part of a recalled batch. Should this be the case, do not use the product, isolate it and all the other wheels coming from the same box/batch and contact our customer service.

EXPIRY.

No expiry.

CHECKING, TRANSPORT, HANDLING AND STORAGE.

Verify packaging damages; refuse damaged packagings; handle with care and avoid shocks; store at temperatures between 10°C (50°F) and 30°C (86°F) and humidity around 45%; do not expose wheels to frost and high humidity conditions, water or chemical products such as solvents. Always use oldest wheels, but make sure they are not expired. For a correct choice, contact us, consult our catalogue or our web site.

WHEEL INSPECTION.

Before mounting the wheel, make sure it is not cracked or damaged. Do not use wheels if damaged (pic.6) or expired. Carry out a sound check by striking one side of the disc with a non metallic object (screwdriver handle). If the sound is damp and not clear, reject the wheel. Do not use wheels that were exposed to too high/too low temperatures/humidity or that have been artificially or accidentally wet.

MACHINE INSPECTION.

Make sure the grinder is suitable for the type of work to be made and that the wheel is adequate for the grinder. Keep machines in an efficient state. Do not use machines that do not indicate the rotation speed on the nameplate or that do not have it.

EYES, FACE AND BODY PROTECTION.

Use eye and face protections as masks, screens and glasses (pic.2). Wear hats or head protection, heavy leather apron, safety shoes, tight fitting clothes. The noise generated by the wheels can exceed 80 dBA. A prolonged exposure can cause permanent damages to hearing. Use ear protection such as earplugs and anti-noise screens (pic.3). The vibrations generated by the wheels can cause damages to the human body: adopt work turnover and resting breaks. Carry out a specific evaluation of the noise and vibrations risk and adopt suitable protection and precautions. Wear protective gloves that fully cover also wrists (pic.4). Carry out an evaluation of the physical, chemical risks associated with the use of abrasive products and adopt suitable precautions and protective measures. Protect the respiratory tract: use masks with special filters, air respirator systems, protective measures of the working environment such as ventilation systems, filtration and powder/fume suction (pic.5). Nearby personnel must be protected with all the above precautions/measures.

ASSEMBLY INSTRUCTIONS.

Follow the assembly instructions supplied with the machine and the use restrictions shown on the wheel label (pic.1).

Make sure the maximum turning speed (RPM) of the machine is always (in any operating condition) lower than or equal to the speed shown on the wheel label. Check that dimensions and shape of the wheel correspond to those allowed for the machine. Install only one abrasive wheel in spindle. Before mounting or dismounting an abrasive wheel, disconnect the power supply (electric energy, compressed air, etc.). Do not force wheels during assembly. Once the wheel is installed, make sure that it rotates freely by turning it by hand. Check the presence, correct installation and securing of the safety guard. Connect the power supply, start the machine and make it turn for at least 30".

In case anomalies, vibrations, irregular rotation should occur, let the grinder stop naturally, disconnect power supply, remove the wheel and check its assembly. If the problem persists, reject the wheel and inform the supplier of the problem.

INDICATIONS SHOWN ON WHEEL - PACKING LABEL.

Specifications characterizing the wheel: wheel dimension; Type of abrasive (A, Z, C, SG); granulometry of the abrasive (16, ..., 100) expressed in Mesh.

Hardness: scale of toughness shown with letters from A (very soft) to Z (very hard). Resin binder shown by "B" and reinforcement structure shown by "F" on label.

Maximum allowed turning speed (RPM) and maximum allowed peripheral speed (m/s): consult our web site www.globeabrasives.com.

Reference norms: EN12413.

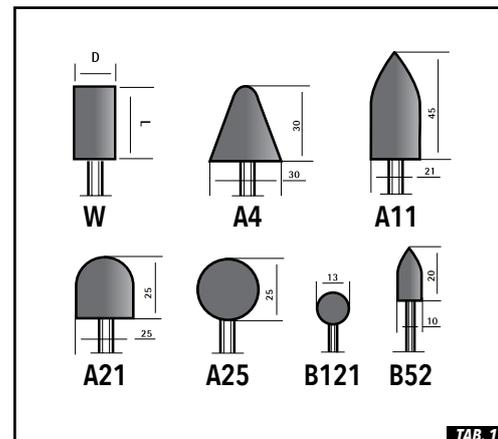
Indications on the workable materials: steel, aluminum, cast iron, stainless steel, stone, marble, etc.

Shape types (TAB.1): W, A4, A11, A21, A25, B121, B52.

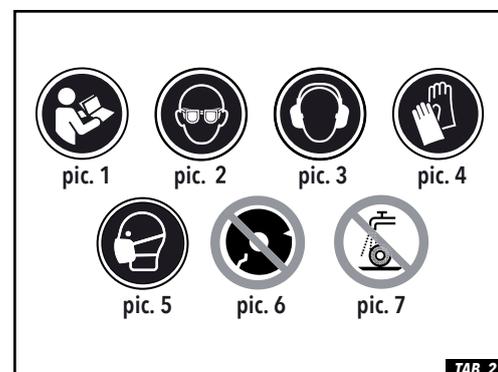
Pictograms (TAB.2): from pic.1 to pic.6 explained above; (pic.7) not suitable for wet grinding/cutting.

USE INSTRUCTIONS AND RESTRICTIONS.

Use the wheels only and exclusively for uses, materials and type of machine for which they are intended; always keep the grinder with two hands; perform grinding progressively, slowly and delicately; do not apply too heavy loads on the wheels; do not make curvilinear cuts; do not cut or grind objects subject to forces or pressures that could be freed as a result of the cutting/deburring action. Remove all combustible, flammable or explosive materials from the work area; firmly fix the workpieces before starting work. Allow the product to cool down during use by making it run empty for a while. If the product hangs in the processed material, stop the machine and try to pull it out without straining and/or levering it. Check the integrity and flatness of the product before using it again. If a disk breaks during use, stop processing, isolate the disk and the entire lot and notify the distributor or manufacturer. Dispose of the products according to the National laws in force in your country.



TAB. 1



TAB. 2

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