

1. WORK IDENTIFICATION AND TASKS

Rotary abrasive tools with metallic, synthetic, or mixed bristles, designed for cleaning, surface preparation, and removal of rust, burrs, and paint. They are used in workshops, factories, metalworking, welding, carpentry, and general maintenance.

A **wire brush is not a toy**; it is a hazardous tool, and improper use may result in legal liability or cause accidents.

2. RISK ASSESSMENT

2.1. Risk Identification

- Projection of metal particles, sparks, paint, or rust during brushing operations.
- Breakage or detachment of bristles at high speed.
- Cuts or burns from direct contact with the brush while in operation.
- Inhalation of dust and fine particles without respiratory protection.
- Excessive noise that may affect hearing without proper protection.

2.2 Risk Assessment

Hazard	Consequence	Probability	Severit	Risk
Projection of debris	Eye injury	High	Medium	High
Loose bristles	Wound or impact injury	Medium	Medium	Medium
Contact with the brush	Cut or burn	Medium	High	High
Dust inhalation	Respiratory irritation or lung damage	High	Medium	High

2.3. Preventive Measures for Identified Risks

- Use safety goggles, gloves, P2 mask, and hearing protection.
- Check that the bristles are securely fastened before each use.
- Do not apply excessive pressure or work at forced angles.
- Use machine guards when operating with rotary tools.
- Do not wear loose clothing or keep long hair unrestrained when using rotary tools.
- Work in well-ventilated areas or with industrial dust extraction systems.
- Do not use in explosive atmospheres or environments with a risk of ignition.
- Always comply with the RPM specifications set by the supplier for the product.

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This manual aims to guide the user in the safe and efficient use of this product.			

- Inspect powered brushes before each use for possible damage and discard the brush if necessary.
- Powered brushes may shed filaments and eject particles and debris, which can cause injury and easily penetrate thin clothing and/or skin. All persons in the work area must wear appropriate personal protective equipment: safety goggles/full face shield, safety gloves, hearing protection, protective clothing, and respiratory protection against dust and fumes.

2.4. Corrective Measures in Case of Accident

- Eye injury: Rinse with water and seek medical attention.
- Bristle projection: Stop the machine and inspect the brush. Replace if damaged.
- Cut: Clean and disinfect the wound. Seek medical advice if the injury is deep.
- Respiratory discomfort: Move to fresh air and seek medical advice if symptoms persist.
- Noise exposure: Stop the activity and consult a specialist if ringing in the ears or hearing loss persists.
- Entanglement: Switch off the machine immediately and attempt to free the trapped clothing or hair. If unable to do so, seek nearby assistance or contact emergency services.
- In case of fire: Attempt to extinguish it. If it becomes uncontrollable, immediately contact emergency services.

2.5. Evaluation of the Effectiveness of Measures

Monitor the use of PPE, the correct fastening of the brush, and the condition of the machine. Supervise safe brushing techniques and conduct regular training sessions.

3. INSTRUCTIONS FOR USE

Safety recommendations for the correct handling of powered brushing tools. **EN 1083-2** specifies the safety requirements applicable to powered brushing tools. The safety speed indicated on the brush, label, or packaging must not be exceeded. In some cases, the recommended operating speed may be significantly lower than the maximum safety speed. The rotational speed of the drive machine must never exceed the maximum safety speed of the brushing tool.

To increase safety when working with powered brushing tools, please also observe the following measures.

3.1. Preparation for Use

- Check that the brush is clean and free from broken or bent bristles.
- Verify the direction of rotation and RPM if mounted on a power tool.
- Securely fasten the brush according to the fixing system.

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- Always use with a guard when operating on rotary machines.
- Always use the PPE described in this manual.
- All operators must read, study, understand, and follow all warnings and operating instructions provided with both the brushing tool and the power tool before use.
- Use only brushing tools that are suitable for the machine.

3.2. Operation

- Switch on the tool and allow it to reach a stable speed.
- Apply the brush with smooth and controlled movements over the surface.
- Avoid staying in the same spot for too long.
- Do not apply excessive lateral pressure.
- Use only in the direction and orientation specified by the manufacturer; do not use laterally.
- Ensure that the powered brush is suitable for the intended application.
- The maximum permitted rotational speed marked **Max RPM**, **n_{max}**, or **MSFS** must never be exceeded.
- Brushing tools must only be used on machines with proper clamping systems.
- The connection threads of the machine and the brush must match.
- When using shaft-mounted brushes, follow the minimum clamping length or the maximum free shaft length indicated.
- Do not clamp on the shaft radius, only on the cylindrical section.
- Brushing tools with metal adapters or plastic bushes must be clamped using the original metal flanges, not the adapters.
- Do not overload the brush with excessive contact pressure.
- Check the brushing tool and machine in case of excessive vibration.
- Tube brushes must only be used inside a pipe or hole when powered.
- Machine guards must remain in place at all times.

3.3. Warnings

- Do not use if the tool is in poor condition (rusted, loose, or damaged).
- Do not force the brushes during use.
- Do not use on flammable materials or in explosive atmospheres.
- Do not use near walkways without proper signage.
- Do not exceed the maximum speed indicated by the manufacturer.
- Do not allow use by minors or untrained personnel.
- Do not use the tool if you are drowsy or under the influence of alcohol or drugs.
- Do not use on materials for which the tool is not designed.
- Do not allow other people to hold the workpiece.
- Do not use without eye protection, gloves, and an appropriate mask, or in low-visibility conditions.
- Do not work on unstable or unbalanced surfaces.

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- Ensure the brush is securely attached to the machine.
- Do not apply excessive pressure to avoid damaging the bristles and/or losing control during brushing.
- Do not use in combination with detergents, descaling agents, or other chemicals that may react with the brush or cause ignition.



4. MAINTENANCE AND STORAGE

4.1. Cleaning

- Remove residues using an auxiliary brush or compressed air. Do not use water or corrosive products.

4.2. Inspection

- Check the condition of the bristles, anchors, and brush base. Replace if there is wear or lack of firmness.

4.3. Storage

- Store on dry shelves, protected from moisture and direct sunlight. Dispose of as metal or mixed waste depending on composition. Take to a recycling center or authorized waste facility.
- Brushing tools must be stored in appropriate containers and suitable rooms, and protected against deformation.
- Brushing tools must be protected from high humidity, condensation, heat, liquids, or vapor that may cause damage to the brush or oxidation of components.

4.4. Disposal

- Worn or damaged brushes must be disposed of properly in accordance with local authority regulations.

5. CONTACT AND SUPPORT

If you have any questions or require further assistance, please do not hesitate to contact our customer service:

- **Email:** comercial@bellota.com
- **Phone:** 0034 943 73 90 00
- **Website:** www.bellota.com



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We appreciate your trust in our products and are committed to ensuring your safety and satisfaction.