Bristle Blaster® Pneumatic

MONTI

YOUR SURFACE – OUR PASSION

CE

Konformitätserklärung

MONTI

MONTI - Werkzeuge GmbH
Reisertstr. 21
53773 Hennef
Deutschland

erklären in alleiniger Verantwortung, dass das Produkt
Bristle Blaster® Pneumatic

auf das sich diese Erklärung bezieht, mit den folgenden Normen übereinstimmt
DIN EN 792-7
EN ISO 8662-4
DIN 45635-21
ISO 3744

gemäß den Bestimmungen der Richtlinien
Maschinenrichtlinie 2006/42/EG

Weitere Normen
EN 13463-1

MONTI - Werkzeuge GmbH Hennef, 16.02.2017

Volker Jannaschk, Managing Director

Dear customer!

MONTI thanks you for the purchase of one of its products and invites you to read these operating instructions.

All the necessary information for the correct use of the tool purchased is included here. It is therefore recommended to read the instructions completely and to follow the information they contain.

Please keep these operating instructions in good condition. The contents of these operating instructions may be changed without notice and without the implication of any additional obligations so that changes and improvements can be made in copies already sent.

Table of contents

1. RESPONSIBILITY OF THE OWNER AND/OR USER OF THE TOOL

These operating instructions form part of the items supplied for the Bristle Blaster® Pneumatic and must always accompany this tool, also if sold.

The owner and /or user of the Bristle Blaster® Pneumatic must be familiar with the instructions for use before placing the Bristle Blaster® Pneumatic in operation.

The manufacturer is not liable for injuries or damage due to incorrect or improper usage of the Bristle Blaster® Pneumatic.

2. PACKAGING

The packaging material must be disposed of in accordance with local regulations.

3. IMPORTANT SAFETY INFORMATION AND SAFETY INSTRUCTIONS

The statutory health and safety regulations as well as generally recognised safety and occupational health rules, as well as the health and safety regulations for power-driven equipment are to be observed.

Any use beyond these limits is considered incorrect.

The manufacturer is not liable for any resulting damage. The operating instructions form part of the items supplied and are to provided to the new user on the resale of Bristle Blaster® Pneumatic.

To ensure safe operation, it is to be ensured that the Bristle Blaster® Pneumatic is only operated, maintained or repaired by appropriately trained personnel.

Qualified personnel are individuals who, due to their training, experience and instruction as well as their knowledge of applicable standards, stipulations, health and safety regulations, are qualified to undertake the related necessary actions and can identify and avoid possible hazards during this process.

The operating organisation must ensure that personnel tasked with operation, maintenance and servicing have read and understood the operating instructions and follow all points in the instructions:

- To avert hazards for the life and limb of the user and others
- To ensure the reliability of the Bristle Blaster® Pneumatic and
- To prevent downtime and pollution due to incorrect actions.

The responsibilities for the work must be clearly defined and observed so that there are no unclear areas of authority in relation to safety.

The mechanical servicing tasks are to be undertaken at the stipulated intervals and with the stipulated scope.

After maintenance tasks, all safety features removed must be correctly re-fitted.
The safety features and their protective action must be checked by an expert prior to placing the tool in operation.
Removing, disengaging and / or bypassing safety features (covers, trim panels, starting lever, etc.) and/or safety guards can cause injury or damage and are therefore strictly forbidden by the manufacturer!
The manufacturer provides a warranty for the Bristle Blaster® Pneumatic in accordance with its general terms and conditions.

Claims under the warranty will be void if:

- Damage is caused by improper operation,
- Repairs or modifications are made by unauthorised individuals,
- Accessories and spare parts are used that are not suitable for the Bristle Blaster® Pneumatic.

Malfunctions must be reported immediately on detection. The Bristle Blaster® Pneumatic must be marked correspondingly.
Defects are to be repaired without delay to minimise damage and to avoid degrading the safety of the tool. Claims under the warranty will be rendered void if this instruction is not followed.

4. UTILISATION IN ZONE 1 (CATEGORY 2 EQUIPMENT IN ACCORDANCE WITH ATEX 94/9/EC)

The Bristle Blaster® Pneumatic can be used for machining the following metals in zone 1: carbon steel, free-cutting steel, manganese steel, nickel steel, chromium nickel steel, molybdenum steel, chromium steel, chromium vanadium steel, silicon steel and chromium nickel austenitic steel (all rusting or free of rust independent of the degree of rusting), stainless steel, tungsten, copper and aluminium. Usage of the device in zone 0 is not approved.

It is **not allowed** to machine the following materials in zones 1 or 2:

- Magnesium, zinc, lithium, boron, titanium, zirconium, thorium or uranium.

The usage of one and the same belt for different materials is not allowed.

5. WORKING AREA

1. Keep your working place clean. Cluttered working places and workbenches are risks of injury.

2. Never allow children, unauthorised individuals or individuals without safety glasses and other protective equipment to enter the working area.

3. Always operate tool in a well ventilated working area.

5.1 Personal safety

1. Wear suitable protective clothing. **Never** wear loose clothing or jewellery or other items of clothing that could be trapped by moving parts. Wear gloves and shoes with non-slip soles. Protect long hair with a head band or hair net to prevent the trapping of hair by moving parts.

2. Always wear safety glasses, face mask, hearing protection, gloves and suitable protective clothing!

3. Make sure that you have a firm grip on the tool when operating it. Always ensure you are standing firmly and securely.

5.2 Tool usage and duty of care

1. After fitting accessories such as the Adaptor System and Bristle Blaster® Belt, always remove hex socket wrench. Always ensure the hex socket wrench is removed prior to switching on the tool.

2. Prevent unintentional starting of the tool. Never carry the connected tool with your hand on the starter lever. Ensure the starter lever is not actuated on connection to the compressed air pipe.

3. Use care. Handle tool with care. Use your common sense.

4. Never operate this or any other tool when you are tired.

5. Work at a distance to ensure other individuals cannot be injured by objects thrown off. During operation, nobody should stand in front of or beside the user.

6. Maintain tool carefully. Follow the instructions on lubrication and the replacement of accessories. (See section 6, Compressed air supply).

7. When not in use, prior to servicing and on the changing accessories, switch off tool and disconnect from the compressed air supply.

8. Prior to the replacement and inspection of accessories, such as the Adaptor System and Bristle Blaster® Belt, the tool is to be isolated from the compressed air supply. Do not perform any servicing work on the tool as long as it is connected to the compressed air supply.

9. Bristle Blaster® Belt as long as the tool is in operation.

10. Regularly check pneumatic lines and replace if damaged. Keep vertical handle and tool body dry, clean and free of oil and grease. **A soiled housing and/or handle can cause accidents.**

Further information on health and safety at work is available from the following web sites:
http://europe.osha.eu.int (Europe) http://www.osha.gov (USA)

5.3 Special safety instructions

1. Prior to operating the tool, always check for faulty and defective parts or any other conditions that might affect the operativeness. Never use tool if damaged or adjusted incorrectly. Any damaged safety features, starter lever or other faulty parts are to be repaired or replaced by an authorised service engineer, provided there are no other instructions in this manual. Never use tool with faulty starter lever.
2. User screw clamps or a vice to secure the workpieces to be machined. Always use both hands to operate the tool.
3. **Only use tool with genuine accessories such as the Adaptor System and Bristle Blaster® Belt. The Bristle Blaster® Belt is specially designed for use on the Bristle Blaster® Pneumatic and is therefore not to be used in conjunction with other accessories or other machines.**
4. After replacement of the Bristle Blaster® Belt, check Adaptor System for correct assembly.
5. Never operate compressed air tool with an operating pressure of more than 90 psi (6.2 bar) flow pressure at the compressed connection to the tool. This tool is not speed-regulated. The speed will increase with an increase in the air pressure above 90 psi (6.2 bar). The operating pressure for this tool must be regulated within the operating range specified by a reliable automatic compressed air regulator (23 mm compressed air regulator silver, 11 mm compressed air regulator blue), see section 6, Compressed air supply.
6. Check compressed air at regular intervals. To ensure the compressed air is clean and oiled, if necessary integrate a service unit into the compressed air line.
7. When the tool is put down on a work table or on the floor, the sign always must point upwards.
8. If the tool is not in use, disconnect from the compressed air supply and store in a suitable place to prevent unintentional or unauthorised use in the absence of an authorised individual.
9. In use, always hold by the tool body and the vertical handle.
10. Bristle Blaster® Belt in the correct operating direction.
11. The Bristle Blaster® Belt can produce sparks on machining hard surfaces.
12. Never carry the tool holding it at the pneumatic hose. Protect compressed air hose against heat, sharp edges and running over. (If necessary use a hose burst safety valve).
13. If the tool suddenly feels different (level of vibration) or produces a different noise (pitch), the tool should be shut down immediately and the accessories such as the Adaptor System, Bristle Blaster® Belt checked for damage.

6. COMPRESSED AIR SUPPLY

This compressed air tool is designed for a maximum flow pressure of 90 psi (6.2 bar) at the tool. On the usage of the Bristle Blaster® 23 mm Belt, a flow pressure of 90 psi (6.2 bar) at the tool is necessary. On the usage of the Bristle Blaster® 11 mm Belt, a flow pressure of 75 psi (5.2 bar) at the tool is necessary.

Correct air pressure will increase the service life!

The supply of compressed air must be free of water. For this reason a water separator must be used to trap condensate. If the compressed air hose is too long, the tool cannot be supplied with the necessary air pressure.

For correct operation and the long service life of the compressed air motor, the usage of a lubrication device in the compressed air line is expressly recommended.

Attention!
Use correct air pressure regulator!

Bristle Blaster® Belt	Colour of compressed air regulator
23 mm belt	Silver
11 mm belt	Blue

Attention!
On the usage of the compressed air regulator, a flow pressure of 7.5 - 8.5 bar at the tool is necessary!

7. PLACING IN OPERATION

Application:

This tool is used for the removal of corrosion and coatings, and for producing a rough surface profile (anchor profile) using a specially developed Bristle Blaster® Belt.

1. Use suitable sealing material such as Teflon® Band to fasten the connection for the pneumatic hose.

2. On the selection of the Bristle Blaster® Belts, take into account the surface to be machined (angle, 11mm belt/ flat surfaces, 23 mm belt).

3. Interrupt supply of compressed air and then fasten Bristle Blaster® 23 mm or 11 mm Belt correctly to the tool using the related Adaptor System (pay attention to direction of travel) and the related serrated lock washer and screw. See Fig. 1 and Fig. 2

4. Never place an Bristle Blaster® 11 mm Belt in an 23 mm Adaptor System, and never place a Bristle Blaster® 23 mm Belt in a 11 mm Adaptor System.

5. For Bristle Blaster® 11 mm Belt only use 24 mm Accelerator Bar. For Bristle Blaster® 23 mm Belt only use 40 mm Accelerator Bar. For Bristle Blaster® 11 mm Belt only use 24 mm Accelerator Bar. For Bristle Blaster® 23 mm Belt only use 40 mm Accelerator Bar.

6. Start tool by pressing starter lever. Move the safety stop forward and press the starter lever. The starter lever returns to its initial position when released.

7. Hold tool by the tool body and the vertical handle at the same time.

8. To obtain the best performance, it is to be ensured the accelerator bar is guided close to the surface to be machined. If the Accelerator Bar is too far from the surface, the performance will drop significantly. See Fig. 3.

9. Work only with minimum surface pressure. Excessive surface pressure reduces effectiveness.

10. In all circumstances, prevent the entry of water (moist air) into the pneumatic tool.

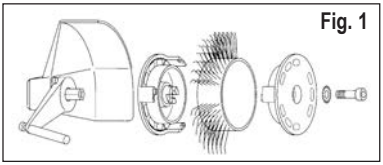


Fig. 1

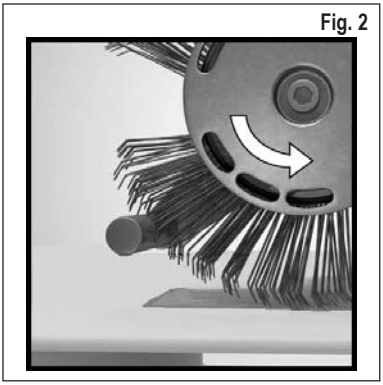


Fig. 2

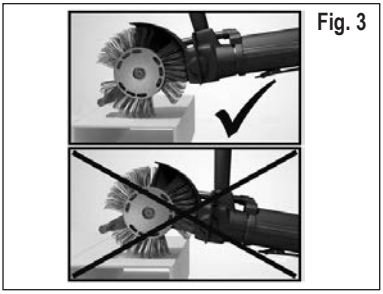


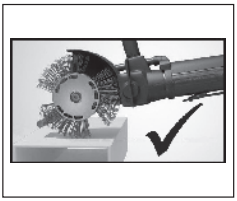
Fig. 3

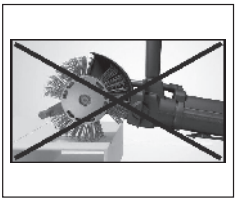
Correct direction of operation

Less pressure = longer service life and higher performance

Observe the correct working position!

Holding machine





Angle machining

If the tool does not work correctly, check the following:

→ Are you using a suitable Bristle Blaster® Belt for the surface to be machined? – Use the most suitable Bristle Blaster® Belt.

→ Are you operating the tool with the correct speed? – Problems with the tool, see section 10, Troubleshooting.

→ Are you using a Bristle Blaster® Belt with the wrong direction of travel? – Fit the Bristle Blaster® Belt such that is runs in the correct direction (see section 7, Placing in operation, Fig. 2).

→ Is the Accelerator Bar showing signs of wear? Check the Accelerator Bar. In case of wear turn by approx. 45° or exchange.

8. TECHNICAL DATA

Technical data: Bristle Blaster® Pneumatic

Air consumption ..... Litre/min. (CFM) Ø 500 (17,5) ± 10 %
Compressed air connection ..... R 1/4"
Necessary hose size ..... 3/8" ID (9,5 mm)
Weight ..... 1,1 kg

Technical data: Air Pressure regulator

Max. inlet pressure ..... 25 bar (362 psi)
Compressed air connection ..... G 1/4"
Weight ..... 25 g

	Flow pressure bar (psi)	Speed revs/min.
No-load (not under load)	6,2 (90)	3.500 ± 5 %
No-load (not under load)	5,2 (75)	3.200 ± 5 %
With 23 mm Belt	6,2 (90)	2.300 ± 5 %
With 11 mm Belt	5,2 (75)	2.300 ± 5 %

Noise figures

The A-weighted noise level of the tool is typically:
Sound pressure level L_{PA}=83.2 dB(A), sound power level L_{WA}=88.51 dB(A).

Wear hearing protection!

Vibration figures

Belt	Width	Motor a_{hw} / m/s²	Handle a_{hw} / m/s²
Bristle Blaster® Belt	11 mm	0,77	0,99
Bristle Blaster® Belt	23 mm	2,03	1,93
Without		0,15	0,17

8.1 Lubrication / servicing

Lubrication

If the tool is new, ensure the compressed air motor is lubricated prior to operation. If a series lubrication device is not used, add a few drops of light oil to the compressed air connection daily. Correct lubrication will ensure longer tool service life.

9. SERVICE INSTRUCTIONS

1. The tool is to be serviced exclusively by qualified staff members or by the dealer who has sold it. Repair or servicing by unqualified personnel may result in injuries and/or damage to the tool.

2. Only original spare parts are to be used for the servicing of the tool. If parts that are not approved are used or maintenance instructions are not followed, the warranty will be rendered void and there may be a risk of injury.

10. TROUBLESHOOTING

Fault	Cause	Solution
Belt does turn or turns slowly	Compressor is not operating	Switch on or check compressor
	Filter or compressed air hose blocked	Clean compressed air line
	Insufficient compressor pressure	Increase compressor pressure
	Inadequate compressor performance	Use more powerful compressor
	Compressed air hose too long	Use compressed air hose of suitable length
	Diameter of compressed air hose too small	Use compressed air hose of suitable size
	Compressed air motor insufficiently lubricated	Add a few drops of oil to the compressed air connection
	Valve or valve sealing ring faulty	Servicing by qualified engineer
Unusal sound	Mechanical parts insufficiently lubricated	Servicing by qualified engineer
	Bristle Blaster® Belt or other machine parts faulty	Fit new Bristle Blaster® Belt / servicing by qualified engineer
	Water entering the machine via the compressed air supply	Servicing by qualified engineer
Heavy vibration of the rotating belt	Adaptor System is not fastened correctly	Re-fit Adaptor System
	Foreign body jammed between spindle and Adaptor System	Remove object and re-fit
	Adaptor System worn	Use new Adaptor System
	Bristle Blaster® Belt faulty	Fit new Bristle Blaster® Belt
Adaptor System comes undone in operation	Screw not tightened or serrated lock washer not used	Use serrated lock washer and tighten screw
	Screw / serrated lock washer worn	Use new screw / serrated lock washer