

Sandblaster ProBlaster 17 / 3-4



Designation	Sandblasting machine
Type	Problaster 17 / 3-4
Item number	152452
Year of construction	
Total height [mm]	1124 mm
Total width [mm]	620 mm
Total depth [mm]	1235 mm
Hose length [mm]	3000 mm
Weight [kg]	Approx. 110 kg

Figure 1 - General view of the ProBlaster 17 / 3-4 sandblaster

Table of contents

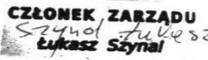
1	Contact	2
2	Declaration of Conformity	2
3	Explanation of the symbols and warnings	2
3.1	Warnings on the sandblasting unit	2
3.2	Symbols in the operating instructions	2
4	Regulations for the use of the sandblasting unit	3
4.1	Application range of the sandblasting unit	3
4.2	Improper use	3
4.3	Safety regulations	3
4.4	Type plate	4
4.5	Technical and structural data	4
4.6	Supply and demand	4
4.7	emissions.....	4
5	Transportation and assembly	4
5.1	Scope of delivery	5
5.2	Transportation and storage.....	5
5.3	Removing the transport packaging	5
5.4	Assembly	5
6	Operating instructions for the sandblasting unit	5
6.1	Preparing the sandblasting unit	6
6.2	Sandblasting with the sandblasting machine	9
6.3	Possible faults (troubleshooting).....	10
7	Maintenance and inspection	10
7.1	Maintenance work to be carried out monthly	10
7.2	Annual inspection of the sandblasting unit.....	11
8	Parts list and drawings	12

1 Contact us

Please direct your questions or orders for individual parts to WEHA-Ludwig Werwein GmbH or directly to the manufacturer by telephone, in writing or by e-mail:

<p>In Germany</p> <p>WEHA-Ludwig Werwein GmbH</p> <p>Wikingerstr. 15 86343 Königsbrunn/ Augsburg</p> <p>Phone: +49 (0) 8231 / 60 07-0 www.weha.com E-mail: info@weha.com</p>	<p>In Austria</p> <p>WEHA stone working machines nervertriebsgesellschaft m. b. H.</p> <p>Lange Gasse 17 AT - 1080 Vienna</p> <p>Phone: +43 (0) 1 / 40 39 340 www.weha-wien.at E-mail: office@weha-wien.at</p>	<p>Please also visit our website:</p> <p>www.weha.com</p>
--	--	--

2 Declaration of conformity

EC Declaration of Conformity			
Manufactu	Weha Sp. z o. o. ul. Wiejska 2 PL 59 400 Jawor	Machine type:	Sandblaster Problaster 17 / 3-4 Application: For surface sandblasting of stone slabs made of marble, granite, sandstone and
	Phone +48 76 / 87 03 70 0 Fax +48 76 / 87 03 04 6	Machine number:	
Signatory:	 		
We hereby certify that the above-mentioned machine complies with the above-mentioned guidelines.			

3 Explanation of the symbols and Warnings

The following explanations of symbols that may be present on the appliance or the machine or operating instructions are intended to provide you with information about their meaning.

3.1 Warnings on the sandblasting machine

The following warning signs may be attached to the appliance or machine:



This warning sign affixed to the machine or the appliance indicates to the operator that operating instructions are available and obliges him to read them before installing or commissioning the machine.



This warning sign on the appliance or on the machine alerts the operator to the presence of electrical voltage at a level sufficient to give the operator an electric shock if the danger point is touched or approached. Health or life is at risk at this danger point.



This warning sign obliges the operator of the machine to always wear hearing protection and safety goggles.

3.2 Symbols in the operating instructions

The following symbols may appear in the operating instructions and are defined as follows:



An exclamation mark appearing on the pages of these operating instructions, framed by an equilateral triangle, indicates an important note that the operator should read or follow particularly carefully.



Reference to the obligation to separate waste in order to be able to return materials to the recycling cycle. In this way, materials can be returned to the manufacturing process through recycling processes, resources can be saved and the environment can be relieved.



Marking of switches, objects, etc. in the illustrations in these operating instructions.

4 Regulations for the use of the sandblasting unit

Please pay close attention to the information on the use of the machine or appliance.



Caution - risk of injury!
Improper use leads to personal injury!



The appliance or machine is specially designed for one or more areas of application. The following chapters are intended to familiarize you with these possible applications and highlight the dangers involved in handling the work equipment.

4.1 Application area of the sandblasting unit

You have purchased a quality product from WEHA-Ludwig Werwein GmbH.

The sandblasting machine is a tool that enables you to sandblast stone surfaces and is designed to make your work easier.

The following features are particularly noteworthy:

- Simple, depth-accurate and precise sandblasting of stone slabs
- Stable overall construction

4.2 Improper use

The sandblasting machine is used exclusively for sandblasting stone surfaces made of marble, granite, sandstone and concrete block.

Only use the sandblasting unit for its intended purpose and do not use any agents that could damage the metal or individual assemblies!

- The sandblasting unit is complete and specially designed for the areas of application.
- Only use approved abrasives, such as corundum grain size 40.
- Do not modify the sandblasting head holder and do not attach any extensions.

4.3 Safety regulations

- **Read these operating instructions thoroughly before using the sandblasting unit!**
- **Keep the operating instructions in a safe place near the sandblasting unit for future reference!**
- **Unauthorized modifications or the installation of additional equipment will void any liability claims by the dealer or manufacturer!**
- **Remove all objects from the work area that represent a potential source of danger!**
- **The sandblasting machine may only be operated by authorized persons. Every operator must have read and understood this documentation.**
- **Check the load-bearing parts and weld seams for damage before each use! If any defects are found, stop using the sandblasting unit and take suitable measures to prevent third parties from using it.**
- **Make sure that the surface on which you set up or store the sandblasting unit has sufficient load-bearing capacity!**
- **Ensure that the surface in the work area offers sufficient grip and slip resistance!**
- **When sandblasting, the sandblasting head must always be aimed at the stone surface to be blasted and must not be lifted off the stone surface to be blasted!**
- **When connecting the sandblasting unit to the power supply, the regulations of the VDE and the local power supply company must be observed and complied with!**
- **Make sure that the temperature in the room where the sandblasting unit is located is between +5°C and +35°C!**
- **Do not modify the sandblasting head holder and do not attach any extensions.**
- **Make sure that the sandblasting unit is not exposed to excessive dust!**
- **Standing under suspended loads is prohibited!**
- **Always wear appropriate protective clothing when handling the sandblasting machine in accordance with the accident prevention regulations!**
- **These include, among others:**
 - **Work gloves in accordance with the accident prevention regulations!**
 - **Footwear in accordance with the accident prevention regulations!**
 - **Hearing protection and safety goggles in accordance with the accident prevention regulations!**
- **Only use workpiece materials suitable for the properties of the appliance, such as stone slabs without cracks ("undamaged" stone slabs)!**
- **Ensure that nobody is in the vicinity of the appliance when it is in use to prevent any danger to third parties!**

- Check that all parts are correctly fitted!
- If the appliance is damaged or malfunctions, contact the dealer or manufacturer immediately!
- Protect the appliance or machine from the effects of the weather, such as rainwater, sunlight, moisture, etc.!
- If this appliance or the machine is no longer used due to irreparable damage or for other reasons, ensure that it is taken out of service by making the appliance or the machine unfit for use and ensuring that there is no danger to third parties!
- Ensure that the different materials can be recycled by separating them during disposal!



4.4 Type plate

The type plate provides information about the origin, identity and year of manufacture and, if necessary, the maximum load capacity.

On delivery, please compare the rating plate with the information on the first page of the operating instructions. If the data differs, please contact the dealer or manufacturer immediately.

weha		TYPENSCHILD	
Bezeichnung	ProBlaster 17/3-4		
Seriennummer			
Baujahr	2023	Luftbedarf (l/min)	500
Düsen Ø	3-4	empfohlener Betriebsdruck (bar)	3,5

4.5 Technical and structural Data

Subject to errors and technical changes, even without prior notice!

Total height [mm]	Approx. 1124 mm	Tare weight [kg]	Approx. 110 kg
Total width [mm]	Approx. 620 mm	Hose length [mm]	3000 mm
Total length [mm]	Approx. 1235 mm		

4.6 Supply and requirements

Electrical supply	230V / 2 x 1,100 W / 50/60Hz
Compressed air supply	Filtered with refrigeration dryer with a pressure of at least 2.0 bar to a maximum of 3.5 bar

4.7 emissions

Gas, dust, vapor and smoke	None, when operated according to regulations
Oils and fats	None, when operated according to regulations

5 Transportation and Assembly

Please read the information in the Installation chapter carefully and follow the instructions. Any damage caused by non-compliance is excluded from the manufacturer's liability.

Check the delivered goods for any damage to the transport packaging. Damage caused during transportation must be reported to the carrier and WEHA immediately!



Any defects caused by incorrect transportation, incorrect installation and operation are excluded from the warranty by the dealer or manufacturer!



Make sure that the protective coating of the metal parts is not damaged by sharp-edged objects!

Always observe the safety instructions in chapter 4.3!

5.1 Scope of delivery

Before installation, be sure to check the scope of delivery to ensure that all the required parts are included. Contact the dealer or manufacturer immediately if the scope of delivery is not complete.

The scope of delivery includes:

- 1 x complete sandblasting unit
- 1 x operating and user manual

5.2 Transportation and Storage

- The machine is assembled for transportation and secured on a pallet. You can lift the pallet with a forklift.



Staying under a suspended load is prohibited!



- For transportation by forklift truck, the forks of the forklift truck must be driven into the pallet. Ensure that your lifting vehicle has sufficient lifting capacity.
- Now carefully lift the sandblasting unit on the pallet.
- Now drive to the desired parking space. When parking, make sure that the floor has sufficient load-bearing capacity and is level.
- After unpacking, the machine can be lifted from the pallet and pushed to the place of use. Ensure that the front parking brake on the castor is released.
- The sandblasting unit can be stored outside a hall for short periods (maximum 2 months). The ambient temperature during storage must be between +5°C and +35°C. Additional protection against the effects of the weather (e.g. rain, sun, etc.) must be provided.

5.3 Removing the transport packaging

The sandblasting machine is normally delivered to you packaged with a pallet and metal box.

- **Before you start unpacking, check the enclosed delivery bill with the delivered items!**
- **The customer is responsible for removing the transport packaging!**

Remove the transport packaging:

- Remove the adhesive strips or strapping and carefully unpack the contents!
- Be careful when unpacking the Problaster 17 / 3-4 sandblaster so as not to damage it!
- Hitting the components of the Problaster 17 / 3-4 sandblaster on sharp edges can damage the surface protection and other components!
- Dispose of packaging waste in accordance with local regulations and return it to the recycling system!

5.4 Assembly

The sandblasting unit is supplied fully assembled. It is not necessary to assemble the individual parts.

6 Operating instructions for the sandblasting machine

This chapter is intended to familiarize you with the use of the equipment. Follow the operating instructions carefully in order to make optimum use of the sandblasting machine!

Make sure that the protective coating of the metal parts is not damaged by sharp-edged objects!



Any defects caused by incorrect transportation, incorrect installation and operation are excluded from the warranty by the dealer or manufacturer!



Always observe the safety instructions in chapter 4.3!

Ensure that the room temperature in the area of the sandblasting unit is between +5°C and +35°C.



The sandblasting unit may only be put into operation when the safety regulations in accordance with the applicable EC machinery directives have been fulfilled!

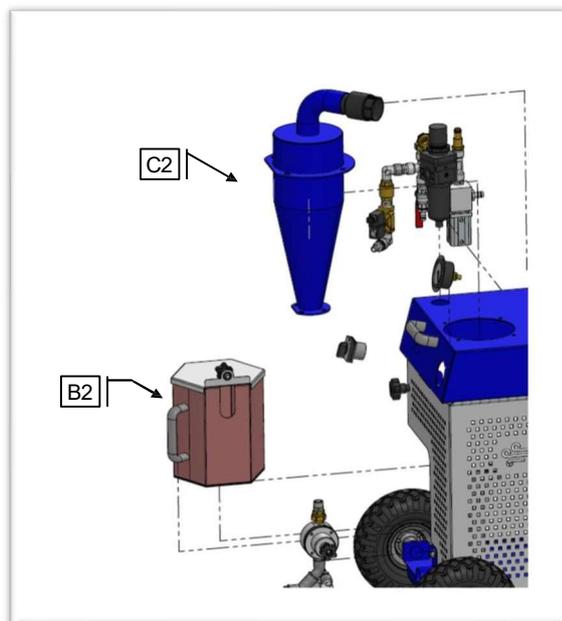


6.1 Preparation of the sandblasting machine

Figure 6.1 - Preparing the sandblasting unit



- Use the handles [B1] to push the sandblasting unit to the desired operating location.
- In the next step, connect the floor standing appliance to the power supply (230 volts).
- Main switch [C1] in position 1 - the floor standing appliance is switched on.
- Vacuum cleaner switch [C2]. Position 1, vacuum cleaner 1 is switched on. Position 2 - Vacuum cleaner 1 and vacuum cleaner 2 are switched on.
- Blasting head / microswitch [D1]: Starts the blasting process. The vacuum cleaner switches on automatically as soon as the switch is pressed. After sandblasting is complete, the vacuum cleaner continues to run for a few seconds. Take care not to lift the blasting head from the workpiece too soon.



Figures 6.2 - Cyclone separator & corundum container of the sandblasting unit

- Your sandblasting unit is equipped with a cyclone separator [C2].
- Your sandblasting unit has a container [B2] for corundum / stone residues after sandblasting. The container can be easily removed and the residual particles disposed of.



- Emptying the container for corundum/stone residue: Unscrew the lid [C3] of the container.
- To do this, loosen the screw [B3]
- Now carefully remove the lid [C3] of the container upwards and set aside.
- The container [B2] can now be removed

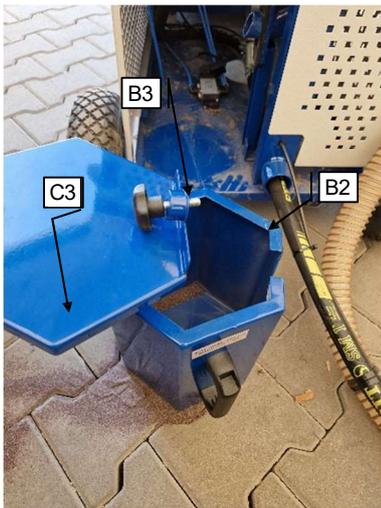


Figure 6.3 - Container lid

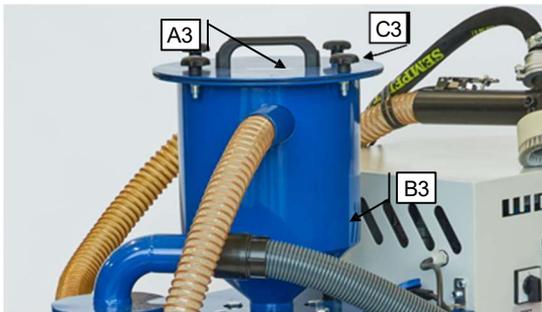


Figure 6.4 - Storage container lid

- Filling with blasting corundum
- Unscrew the lid [A3] of the storage container [B3].
- To do this, loosen the screws [C3]
- Now carefully remove the lid [A3] of the storage container upwards and set aside.



- In the next step, fill the blasting abrasive into the top of the storage container. Only use approved blasting abrasive, such as corundum K-40.
- You will need 10 kg of blasting corundum for the initial filling. Take care not to overfill the appliance, as otherwise no pressure can be built up in the pressure pot.
- Once the abrasive has been filled in, the lid must be replaced on the storage container. Make sure that the sealing lip is completely inside the storage container!



- Now connect the compressed air supply to the compressed air connection [A5]. Make sure that the inlet pressure does not exceed 8.0 bar. Please note that the compressed air must be dry, otherwise blockages may occur. We always recommend operation with an upstream refrigerant dryer.
- Now set an operating pressure between 2.0 bar and 3.5 bar on the compressed air regulator [B5]. The recommended operating pressure is 3.5 bar
- The main tap [A6] must always be open.



The inlet pressure must not exceed 8.0 bar. The operating pressure must not exceed 4 bar!

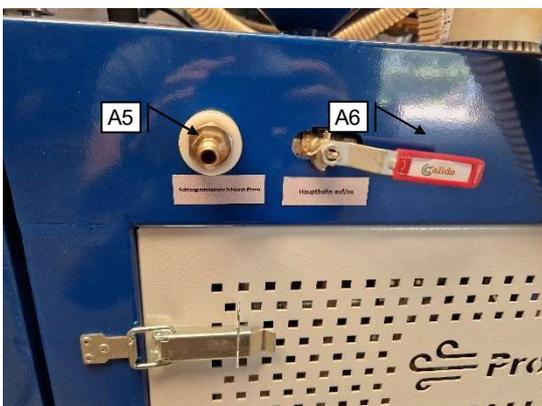


Figure 6.5 - Compressed air connection for sandblasting unit

6.2 Sandblasting with the sandblasting machine

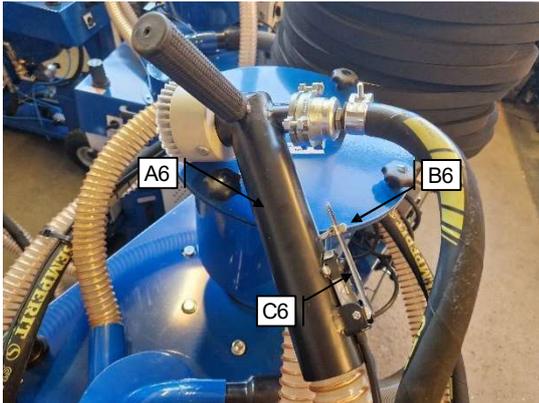


Figure 6.6 - Sandblasting head

- Once the preparations have been completed, sandblasting can begin.
- To do this, place the sandblasting head [A6] at the start of the surface masked for sandblasting.
- In the next step, activate the sandblasting unit by pressing the switch [B6] downwards.



Caution: Risk of injury! The sandblasting head must not be lifted off the surface to be blasted, as the accelerated blasting medium can cause injuries.

- Please note that the switch [B6] is equipped with a safety bar [C6]. This safety bar [C6] must first be folded away so that the button [B6] can then be pressed down.

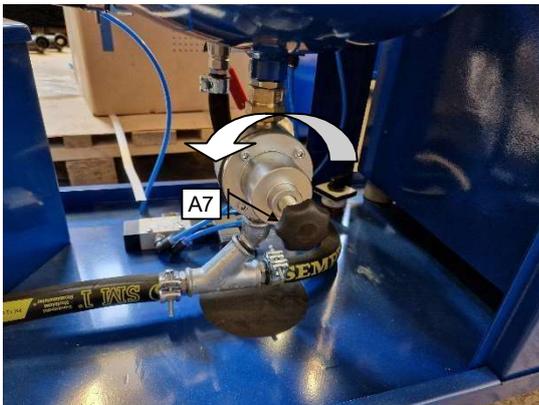


Figure 6.7 - Valve for blast media addition

- After a few seconds, the sandblasting unit feeds blasting sand to the sandblasting head and the vacuum cleaner is automatically switched on at the same time. If no blasting sand is delivered, the valve [A7] must be opened to add the blasting material.
- To open, turn the valve [A7] in the direction of the arrow. Open the valve slowly (half a turn per attempt).
- Please note that the valve may only be closed / opened during the blasting process, otherwise damage may occur.



Risk of damage to the valve due to blasting agent when closing! ONLY open or close the blast media valve when sandblasting!

- The abrasive in the pressure container is sufficient for approx. 5 minutes of sandblasting without interruption (depending on the amount of abrasive added).
- After this interval, the blasting process must be interrupted so that fresh abrasive can be added from the storage container.
- The abrasive must be refilled according to consumption and type of use, as described in the previous chapter.

6.3 Possible faults (Troubleshooting)

Malfunction	Possible cause	Possible remedy
Irregular / no abrasive flow from the nozzle	Moisture in the pressure vessel	Check the nozzle / hoses / dosing valve for blockages. Clean these, only use the appliance with refrigeration dryer.
Too much abrasive flow from the nozzle / "Stuttering" of the corundum from the nozzle	Dosing valve is set to too large a quantity of blasting agent	Reset the quantity of blasting agent using the hand wheel (A7) of the dosing valve
No pressure in the pressure vessel	Sealing bell does not close. Compressor delivery volume too low Quick release valve defective	Check the sealing bell Check the air supply to the compressor Check the hose diameter of the air supply Replace the quick-release valve.
Sandblasting unit is not depressurized	Solenoid valve dirty	Check the solenoid valve Clean the solenoid valve Replace the solenoid valve
Pressure washer does not switch on	Switch on hand lever is defective / control cable is defective	Replace the switch or the control cable

7 Maintenance and Inspection

The sandblasting unit requires regular maintenance. The sandblasting unit must be inspected once a year.

- Maintenance and inspection work may only be carried out when the sandblasting machine is disconnected from the power and compressed air supply.
- **Observe the safety instructions in chapter 4.3!**
- The maintenance, care and servicing of the sandblasting unit is a prerequisite for trouble-free and safe operation!



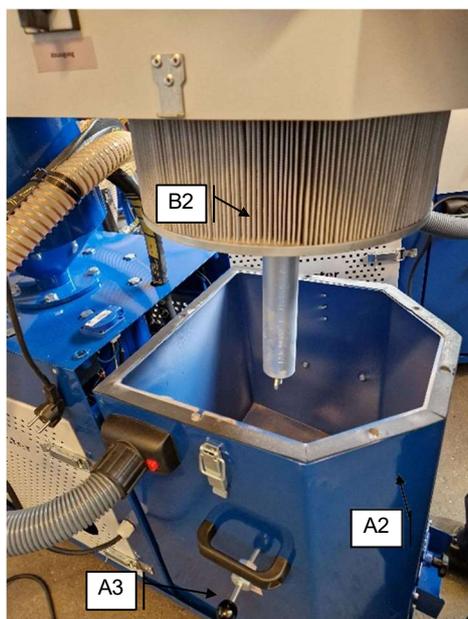
The activities that the operator of the sandblasting machine must have carried out by a person with the appropriate expertise are listed below.

The dealer or manufacturer accepts no liability for damage resulting from non-compliance with these instructions.



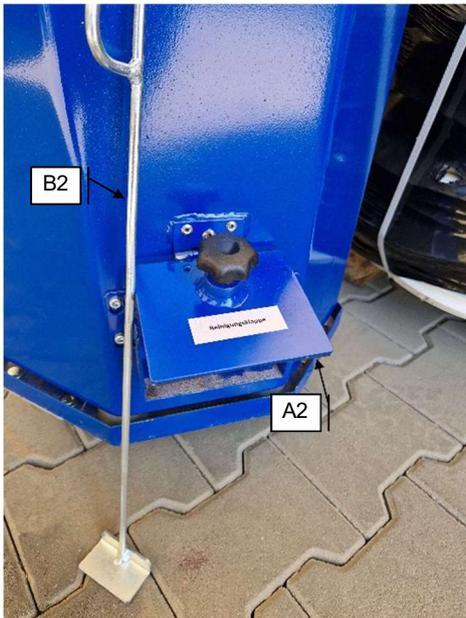
7.1 Maintenance work to be carried out regularly

The following points relating to the sandblasting machine are of particular importance for the operational safety of this machine. Conscientious implementation guarantees flawless and trouble-free operation.



- First check that the sandblasting unit is disconnected from the power and compressed air supply.
- Now clean the dust filter of the sandblaster
- To do this, pull the lever [A3] several times and let it knock against the filter [B2].
- The residual dust falls into the dust container [A2] and can be removed from there.

Figure 7.1 - Cleaning the vacuum cleaner filter



- To do this, open the flap [A2] and remove it with the scraper [B2] supplied.

Figure 7.2 - Corundum removal

7.2 Annual inspection of the sandblasting machine

The inspection work listed below can only be carried out by qualified personnel with the appropriate expertise and must be performed once a year.

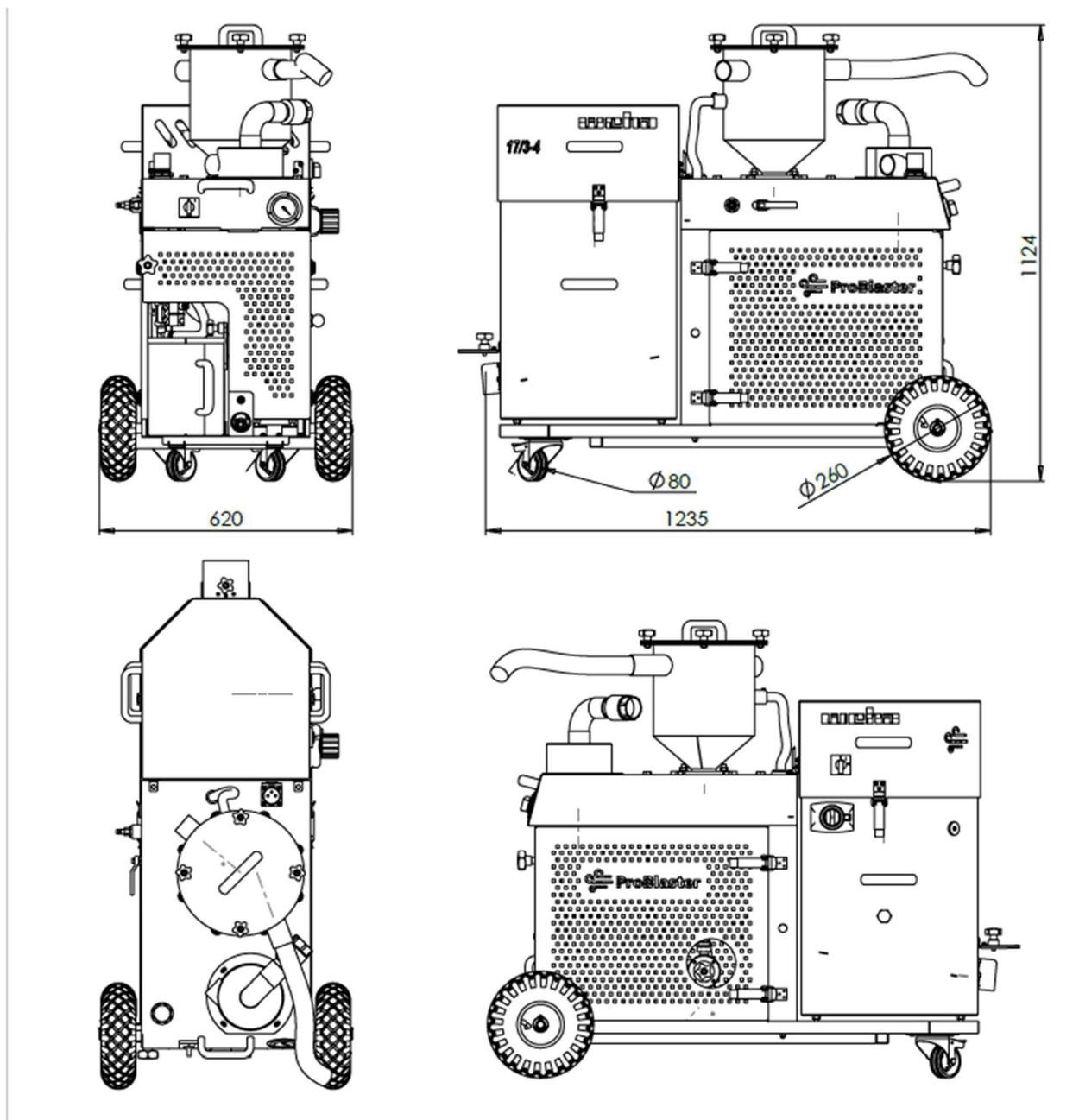


Attention danger!
Before starting maintenance and inspection work, the sandblasting unit must be switched off and a corresponding notice must be attached to ensure that the sandblasting unit is not switched on again unintentionally!

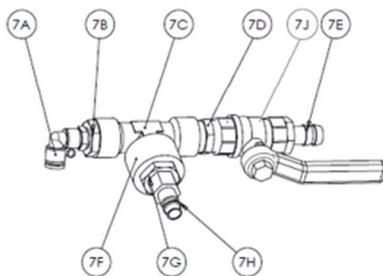
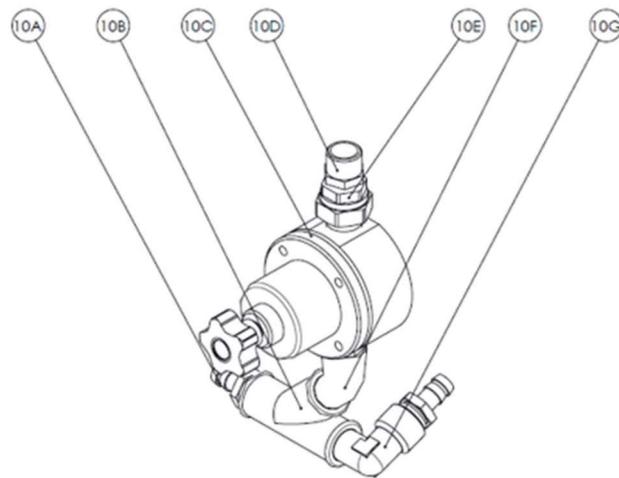
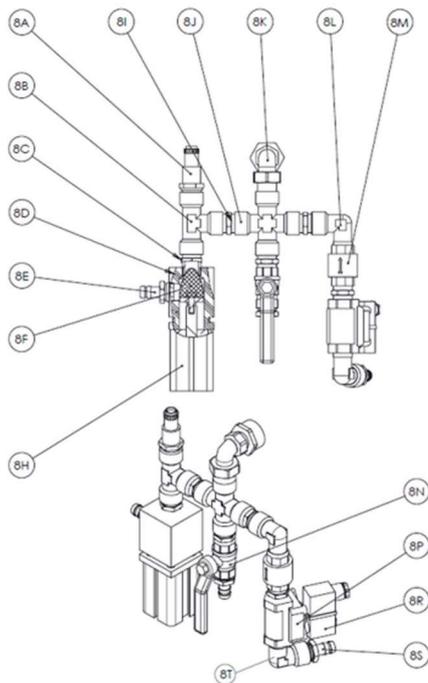


- Check all cables and hoses for damage and have them replaced if damaged.
- Check all screw connections for tightness and readjust if necessary.

8 Parts list and drawings



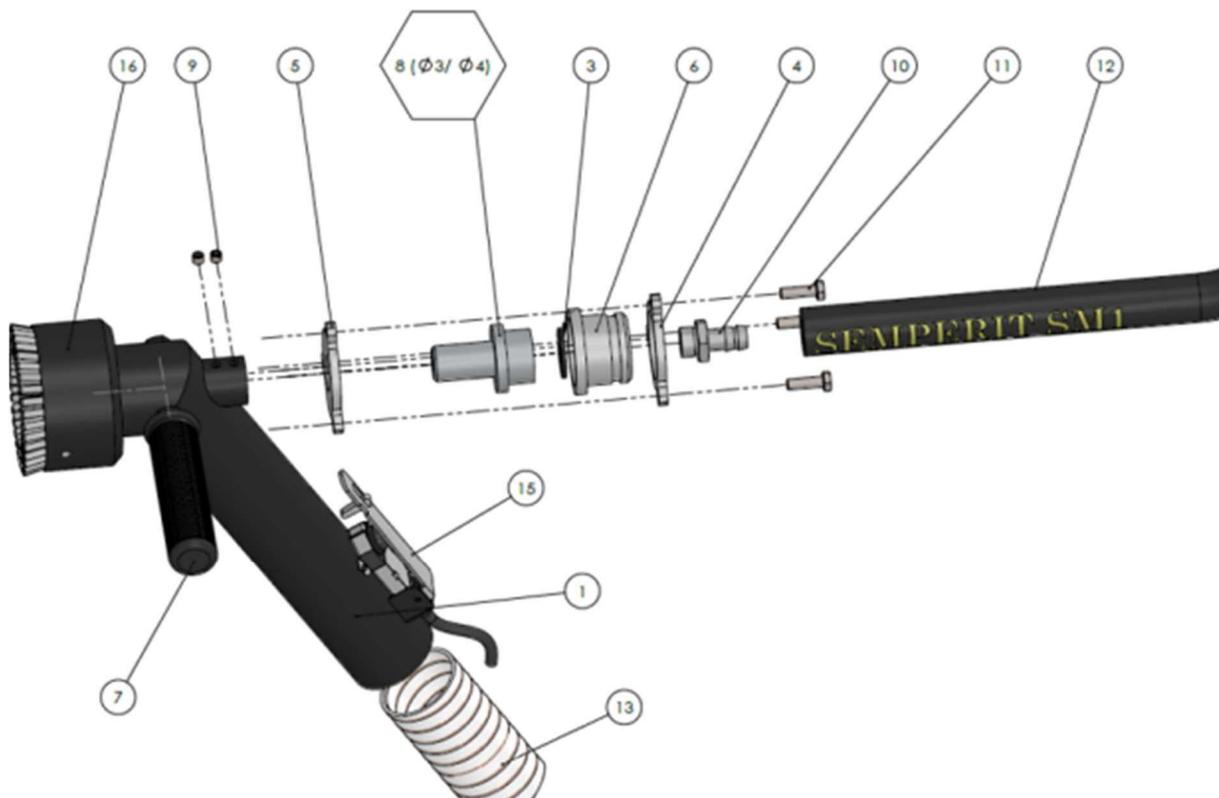
	Art#	Designation
1a	152814	ET#1a O-ring for pressure blaster ProBlaster 17
1b	152815	ET#1b Seal for pressure vessel for ProBlaster 17 pressure blaster
1c	152816	ET#1c Sealing bell Ø63mm for pressure blaster ProBlaster 17
3	152817	ET#3 Wheel Ø260mm for pressure blaster ProBlaster 17
4	152819	ET#4 Residual dust container for ProBlaster 17 pressure blaster
5a	152820	ET#5a Vacuum cleaner motor for ProBlaster 17 pressure blaster
5b	152821	ET#5b Vacuum cleaner filter for pressure blaster ProBlaster 17
5c	152822	ET#5c Rotary switch for vacuum cleaner to pressure blaster ProBlaster 17
6	152823	ET#6 Swivel castor Ø80mm for pressure blaster ProBlaster 17
7	152824	ET#7 Air supply assembly complete for ProBlaster 17 pressure blaster
8	152825	ET#8 Sand feed assembly complete for ProBlaster 17 pressure blaster
9	152826	ET#9 Solenoid valve for ProBlaster 17 pressure blaster
10	152827	ET#10 Dosing valve assembly complete for pressure blaster ProBlaster 17
11	152828	ET#11 Main switch (rotary switch) for ProBlaster 17 pressure blaster
12	152829	ET#12 Pressure gauge for ProBlaster 17 pressure blaster
13	152830	ET#13 Pressure regulator for pressure blaster ProBlaster 17
14	152831	ET#14 Vacuum cleaner connection for ProBlaster 17 pressure blaster



	Designation
7a	only available as a complete assembly see above ET#7 #152824
7b	only available as a complete assembly see above ET#7 #152824
7c	only available as a complete assembly see above ET#7 #152824
7d	only available as a complete assembly see above ET#7 #152824
7e	only available as a complete assembly see above ET#7 #152824
7f	only available as a complete assembly see above ET#7 #152824
7g	only available as a complete assembly see above ET#7 #152824
7h	only available as a complete assembly see above ET#7 #152824
7j	only available as a complete assembly see above ET#7 #152824

	Art#	Designation
8a	152832	ET#8a Pressure relief valve 1/2" for pressure blaster ProBlaster 17
8b	152834	ET#8b T piece 1/2" for pressure blaster ProBlaster 17
8c	152835	ET#8c Connection nipple 1/2" to pressure blaster ProBlaster 17
8d	152836	ET#8d Cylinder piece for ProBlaster 17 pressure blaster
8e	152837	ET#8e Plug 1/2" for pressure blaster ProBlaster 17
8f	152838	ET#8f Actuator plug for pressure blaster ProBlaster 17
8h	152839	ET#8h Cone 32 x 25mm for pressure blaster ProBlaster 17
8i	152840	ET#8i Nipple 1/2" for pressure blaster ProBlaster 17
8j	152841	ET#8j Connection 1/2" to pressure blaster ProBlaster 17
8k	152842	ET#8k Screw connection 1/2" / M5 for pressure blaster ProBlaster 17
8l	152843	ET#8l Corner fitting 1/2" for ProBlaster 17 pressure washer
8m	152844	ET#8m Non-return valve for ProBlaster 17 pressure blaster
8n	152845	ET#8n Ball valve 1/2" for pressure blaster ProBlaster 17
8p	152846	ET#8p Solenoid valve for pressure blaster ProBlaster 17
8r	152847	ET#8r Plug + coil for solenoid valve for ProBlaster 17 pressure blaster
8s	152848	ET#8s Hose connection 1/2" / LW14 for pressure blaster ProBlaster 17
8t	152849	ET#8t Corner fitting 1/2" for ProBlaster 17 pressure washer

	Art#	Designation
10a	152850	ET#10a Hose connection 1/2" / LW14 for pressure blaster ProBlaster 17
10b	152851	ET#10b Connecting piece 3 x 1/2" for pressure blaster ProBlaster 17
10c	152852	ET#10c Dosing valve 1/2" for pressure blaster ProBlaster 17
10d	152853	ET#10d Screw connection 1/2" / M5 for pressure blaster ProBlaster 17
10e	152854	ET#10e Connection nipple 1/2" to pressure blaster ProBlaster 17
10f	152855	ET#10f Corner fitting 1/2" for ProBlaster 17 pressure washer
10g	152856	ET#10g Corner fitting 1/2" for ProBlaster 17 pressure washer



	Art#	Designation
1	152857	ET#1 Blasting head housing without contents for pressure blaster ProBlaster 15 / 17
3	152858	ET3# Seal for blasting head for pressure blaster Problaster 15 / 17
4	152859	ET#4 Clamping flange for blasting head for pressure blaster Problaster 15 / 17
5	152860	ET#5 Clamping flange for blasting head for pressure blaster Problaster 15 / 17
6	152861	ET#6 Nozzle holder for blasting head for pressure blaster Problaster 15 / 17
7	152862	ET#7 Handle for blasting head for pressure blaster Problaster 15 / 17
8	152660	ET#8 Nozzle 3mm for sandblasting machines
8a	106380	ET#8a Nozzle 4mm for sandblasting machines
9	152863	ET#9 Screw M6x6 (2 pieces) for blasting head for pressure blaster Problaster 15 / 17
10	152864	ET#10 Connecting piece 3/8" with grommet for blasting head to pressure blaster Problaster 15 / 17
11	152865	ET# 11 Allen screw M6x20 for blasting head for pressure blaster Problaster 15 / 17
12	152866	ET# 12 Blasting hose length 3600mm for pressure blaster Problaster 15 / 17
13	152867	ET# 13 Suction hose for blasting head for pressure blaster Problaster 15 / 17
15	152868	ET#15 Micro switch incl. cable for blasting head for pressure blaster Problaster 15 / 17
16	104320	ET#16 Internal brush seal Ø 51.5 mm for sandblasting machines

COMMISSIONING

Place the blasting head on the workpiece.

When the pressure switch is actuated, the blasting medium and air are supplied. Ensure that the blasting head with its brush seal is in clean contact with the workpiece so that the blasting medium is properly extracted. To switch off the system, release the pressure switch on the blasting head. The blasting head is equipped with a safety switch to prevent it from being switched on accidentally.

Compressed air and abrasive are switched off. The blasting head must be held on the workpiece for approx. 10 seconds until the residual air has completely escaped. Take care not to lift the blasting head before this.

There is a handwheel at the bottom of the sand container (Fig. 6.7) with which the abrasive supply can be adjusted. The optimum setting is shown in the diagram. The appliance is factory-set for corundum grain size 40.

