

# SMART-Sandblasting-Equipment by Logiblast

## Quickstart-Guide

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**1. Scope of supply:**

Details to be seen in detached checklist.

**2. Safety instructions:**

Always use working gloves, safety glasses and a dust mask.

Ensure that your sandblasting equipment cannot be put in operation by unauthorized persons.

Do not put your sandblasting equipment in operation without holding the blasting hose in your hand. (Otherwise the blasting hose would move uncontrolled caused by the compressed air. → Danger of injury.)

**Do NOT open the abrasive-filling-cap if the blasting-vessel is under pressure.**

3. Assembly instructions consoles (only SMART-Sandblasting-Cabinets)

<p>Plug in the consoles:</p>	<p>→</p>	<p>→</p>
		 <p>Fix the consoles with enclosed screws.</p>
<p>→</p>	<p>Hang up SMART-Nozzle:</p>	<p>→</p>
		
<p>→</p>	<p>Plug in blasting hose:</p>	
	 <p>SMART-Nozzle shall be empty when plugging the hose into it.</p>	<p>DONE</p>

4. **Assembly instruction for the vacuum cleaner's connection (only SMART-Sandblasting-Cabinets)**

When using a vacuum cleaner (to remove blown up dust of the blasting cabinet = recommended) please remove the sponge filter which is located in the right sidewall of the cabinet. Then plug in the grey pipe elbow appr. 8 mm into the prepared hole (pressfit).

Now connect a usual vacuum vleaner to the grey pipe elbow. Let the vac work at a low power level, so that only small dust particles are vacuumed off. (The good abrasive SHALL REMAIN IN the cabinet resp. in the screendrawer from where it can be reused.)

Please take care that the air-inlet in the rear side of the cabinet is not covered. It is important to ensure air flowing into the cabinet.

5. **Connection foot switch (standard equipment at SMART-Cab-L and -XL)**

- a. Make sure that the valve on the SMART-Nozzle is closed („OFF“).
- b. Now connect the footswitch with the short hose to your compressor (e.g. 1,5 kW):

Note: For a longer compressed air line use a hose with a dimension of at least 9mm. (Otherwise flow losses will avoid a proper blasting process.)

- c. Now connect the footswitch with the longer hosepart with the air inlet of your SMART-Nozzle.
- d. Now turn the valve on your SMART-Nozzle „ON“ and your SMART-Sandblasting-Equipent is ready to work.



**Note:**

To avoid unintentionally operation always put the valve to „OFF“ for longer periods of disuse.

## 6. Startup:

- a. Make sure that the valve on your SMART-Nozzle is turned „OFF“.
- b. Now connect the footswitch (short hose) to your compressor (e.g. 1,5 kW).  
The connector for compressed air is on the rear side of your SMART-Nozzle.  
  
Note: For a longer compressed air line use a hose with a dimension of at least 9mm.  
(Otherwise flow losses will avoid a proper blasting process.)
- c. Make sure that the abrasive-filling-cap is totally closed.
- d. To become familiar with your equipment put it into operation without using abrasive for the first time. Turn the valve „ON“ resp. operate the footswitch.  
Now a consistent airflow comes out of the blasting-nozzle. The manometer now shows the current blasting pressure.  
After stopping the operation it takes a few seconds until all the compressed air is exhausted.
- e. For working with abrasive material now fill up your SMART-Nozzle by using the supplied screenfunnel. (SMART-Nozzle: ca. 0,9 l SMART-Nozzle/L: ca. 1,5l )  
**The biggest useable grain size is 0,35mm !**  
Now fully close the abrasive-filling-cap.
- f. Do now use your protective equipment and align the blasting-hose away from your body.  
Turn valve „ON“ resp. operate the footswitch.  
Now a consistent mixture of compressed air and abrasive material flows out of the nozzle.

### **ATTENTION:**

**Do not underestimate the abrasiveness! Never align the blasting hose towards unprotected bodyareas or towards sensitive surfaces.**

## 7. Troubleshooting:

### a. Condensation/humidity in compressed air:

Humidity, coming with the compressed air, can lead to clumping of the abrasive material in the pressure vessel. This leads to interrupted abrasive flow.

*Measure-1: Waterseparator*

A customary waterseparator (1/4") leads to an improved working situation.  
Please connect it at the air entrance of the SMART-Nozzle.

*Measure-2: Abrasive-heating by a customary fan heater.*

Heating the pressure vessel of your SMART-Nozzle dries resp. avoids any condensation.

Therefore remove the side cover (3 screws) and place a fan heater in front of the blue steelvessel (distance 30 – 40cm). The steelvessel shall be heated up to a temperature between handhot and hot.

Now condensation will no longer effect your blasting process.

### b. What-to-do-if table:

If your SMART-Sandbasting-Equipment does not work properly please go through the following table:

**What-to-do-if ...**

	<b>Malfunction</b>	<b>Possible source of error</b>	<b>Testing methode</b>	<b>Fixing methode</b>	<b>Note</b>
1a	Only compressed air comes out of the blasting-nozzle	Abrasive empty	Shake the blasting equipent during operation. If abrasive is coming again for a few seconds again then abrasive needs to be refilled.	Refill abrasive	No malfunction.
1b	Only compressed air comes out of the blasting-nozzle	Clumping abrasive due to condensation	Backwash: 1. Open abrasive-filling-cap 2. Cover the open vessel with your hand 3. Operate for a very short time (< 1 sec) <b>Attention:</b> A little amount of abrasive will escape ! 4. Close abrasive-filling-cap and continue working.		Clumped abrasive will be spread by a revers airflow.  If backwashing needs to be done more often use a fan heater as described above.
1c	Abrasive only comes during switching on and/or off.	Too big particles went trough the screens	Backwash (ref. 1b)	Empty the SMART-Nozzle (overhead). Maybe the mixing-tee needs to be cleaned (see next page).	Please use the screens!
1d	as 1a,b,c	Mixing-tee blocked	Backwash (ref. 1b)	The mixing-tee needs to be cleaned (see next page).	
2a	Blasting performace decreases	Abrasive worn		Use new abrasive	
2b	Blasting performace decreases	Blastingnozzle worn out.	Blasting pressure lower than expected	replace blastingnozzle	
2c	Blasting performace decreases	Mixing tube worn		replace mixing-tee and mixing-tube (ref. next page)	
3	Neither compressed air nor abrasive comes out of the blasting nozzle although vessel is under pressure	Blasting nozzle blocked	Attention: system is under pressure. DO NOT open the abrasive-filling-cap.	<b>Wait:</b> Pressure exhausts (very) slowly through the blocked nozzle by itself. Afterwards remove and clean the blasting-nozzle.	

**8. Disassemble mixing-tee and mixing-tube (for cleaning or removing)**

- a. Empty SMART-Nozzle (overhead, shaking)
- b. Remove sidecover (3 screws)
- c. Pull out the blue hose from the mixing-tee.  
(Hose can easily be pulled out by pressing the blue ring at the tee.)
- d. Remove bulkhead (or hose clamp at Nozzle-L) and take out the mixing-tube.
- e. Screw out the mixing-tee (at the lower end of the pressure vessel) with an open-end-wrench (14).
- f. Check if the mixing-tee is blocked by using a 2,0mm drill.
- g. Screw in the/a mixing-tee again  
(no thread sealant necessary).
- h. Now check the mixing-tube. The origin wall-thickness is 1,0mm. Especially if corundum-abrasive is used the mixing-tube wears out. If the wall thickness is lower than 0,5mm, replace it.  
(You find spares at [www.logiblastshop.at](http://www.logiblastshop.at)).
- i. Have a look at the blue hoses . (Humidity may cause dust deposits).
- j. Test your SMART-Nozzle without abrasive and check if the tube connections are tight.

Now you can continue your work with your SMART-Nozzle.



Bei weiteren Fragen nehmen Sie gerne auch Kontakt zu uns auf:

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Wir wünschen Ihnen gutes Gelingen und würden uns über Ihr Feedback sehr freuen.

Ihr Logiblast Team