Servicing the control components

Air vents
all types
1. Servicing the control components

Control components are to be installed, repaired and adjusted only by trained service personnel.

1.1 Clean control components

Clean the control cabinet, screen, keyboard and disk drives only if the plug has been removed from the main socket.

Clean plastic parts with a soft, non-fluffy, slightly damp cloth. **Do not use** any caustic or ammonia-containing cleaning agents, or abrasive agents or sprays. On no account are liquids allowed to enter any devices.

The screen can be cleaned with special anti-static cleaning cloths or conventional glass cleaning agents. Here again, sprays are **not be used on any account**. The spray mist could enter the cabinet and damage the screen beyond repair.
1.2 Air vents in control cabinet

For cleaning the aspirated cooling air, the control cabinet possesses an air filter with filter element. This is needed, to clean the fed ambient air from dust and particles when machine is operating. Because of the various situation of the environment when machine operates, this leads to a contamination of the air filter.

Make certain that all air vents in the control cabinet remain unobstructed at all times and the fins bend down. Inadequate venting can cause overheating and damage the control components. **The fins of the filter frame have to show downwards.**

Regularly check the ventilation filter in the control cabinet for contamination. Replace the filter element or clean the filter element by normal fouling if necessary.

At **Machines with protection against carbon** you have to **replace strictly the filter element!**
Air vents in control cabinet

Air vent from 2016

Replace filter element

To open the air vent, pull the bottom frame of the air vent a bit to the front and move it vertical up.

Lift the frame out of the cabinet.

Withdraw the contaminated filter element.

Referring to the cleaning specifications lead through a cleaning or a replacement of the filter element (see 1.4 Cleaning).
Air vents in control cabinet

Inserting filter element
Filter element cross section (compacted side left)

- Insert a new or cleaned filter element with the compacted side inwards into the filter cabinet.

Closing air vent

- Place the frame a bit high and into the filter cabinet until the frame bear on the filter cabinet.
- Press the frame vertical down until the locking is closed.
Air vents in control cabinet

Air vent to 2015

Replace filter element

- Open the air vent with caution at the top right or top left corner.
- Flap the frame to the front.

- Withdraw the contaminated filter element.
- Referred to the cleaning specifications lead through a cleaning or a replacement of the filter element (see 1.4 Cleaning).
Air vents in control cabinet

Inserting filter element
Filter element cross section (compacted side left)

- Insert a new or cleaned filter element with the compacted side inwards into the filter cabinet.

Closing air vent

- Press the frame in the source position to close the air vent.
1.3 Machines with Carbon infrastructure

Machines for the processing of carbon fibres are equipped in the bottom section of the control cabinet with an additional filter element.

1.3.1 Carbon protection machines series J

Replace filter element

- Dismount both clamp screws at the protection frame.
- Remove the protection frame.

- Withdraw the contaminated filter element.
Filter elements out of machines with carbon protection have been strictly disposed and changed to a new filter element.

- Place the new filter element, vertical into the control cabinet.

Filter element carbon protection Series J

- Place the protection frame in the origin position.
- Mount the clamp screws of the protection frame.
1.3.2 Carbon protection machines series L-Z

Replace filter element

- Remove the left or right end cap from the filter cabinet.
- Withdraw the contaminated filter element.

Filter elements out of machines with carbon protection have been strictly disposed and changed to a new filter element.
Filter element carbon protection Series L-Z

- Insert a new filter element, into the filter cabinet.
- Place the end cap in the origin position.
1.4 Cleaning

1.4.1 Cleaning control cabinet and filter frame

Before withdrawal filter element:
Use never compressed air to clean the control cabinet or the control components. This can induce damages and malfunctions.

Remove dust and fluff from the control components, the environment of the control cabinet and the control cabinet itselfs, strictly with a vacuum cleaner.

1.4.2 Cleaning filter element

Filter elements out of machines with carbon protection have been strictly disposed and changed to a new filter element.

Do not wash with a strong jet of water and do not wring out the filter mat. The filter element has to be completely dry, before insert it again.

Cleaning specifications

<table>
<thead>
<tr>
<th>Extent of contamination</th>
<th>Cleaning method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal contamination</td>
<td>Rinse in warm water (app. 40°C) containing a regular mild detergent.</td>
</tr>
<tr>
<td>Dry dust</td>
<td>Clean by knocking, with a vacuum cleaner, or by blowing with compressed air.</td>
</tr>
<tr>
<td>Dust containing grease</td>
<td>Clean in warm water containing a grease solvent.</td>
</tr>
</tbody>
</table>
## 1.5 Spare Parts

<table>
<thead>
<tr>
<th>Material number</th>
<th>Material:</th>
<th>ZSK- Material-number</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-000-9322</td>
<td>AUS-/EINTRITTSFILTER PFA 60000</td>
<td>580 078</td>
<td>old (w/o Filter element)</td>
</tr>
<tr>
<td>Z-000-9321</td>
<td>FILTERMATTE FÜR 580 057</td>
<td>580 075</td>
<td>Filter element for Z-000-9322</td>
</tr>
<tr>
<td>Z-008-0215</td>
<td>AUS-/EINTRITTSFILTER FF20U5</td>
<td>580 098</td>
<td>new (with Filter element)</td>
</tr>
<tr>
<td>Z-008-0495</td>
<td>FILTERMATTE M20FPFK</td>
<td>580099</td>
<td>Filter element for Z-008-0215</td>
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<tr>
<td>Z-008-1057</td>
<td>FILTERMATTE FÜR LÜFTUNGSABDECKUNG Z-MASCHINEN CARBON-SCHUTZ, 106 x 690</td>
<td>396 603 013</td>
<td>Filter element for carbon protection Serie L-Z</td>
</tr>
<tr>
<td>Z-008-1355</td>
<td>FILTERMATTE FÜR LÜFTUNGSABDECKUNG J-MASCHINEN CARBON-SCHUTZ, 80 x 430</td>
<td>396 603 014</td>
<td>Filter element for carbon protection Serie J</td>
</tr>
</tbody>
</table>