printconcept
grafische maschinen

Maintenance check list
PrintConcept sheet-fed cleaning
Corrugate indusry

Maintenance oft he Manifold:

- Brushes have to be cleaned and blown out regularly with compressed air. **Recommendation**: Depending on operation time we recommend once a week.

- If the brushes are contaminated with ink, glue etc. the brushes have to be laid in 100 % alcohol and cleaned.

- Inliner and cuting machines: The manifold has to be retracted (if possible) or taken out of the press by loosening of two screws. After adjustment of the brushes the manifold has to be put in again into the position preset by the brackets (distance depends on the thickness of the corrugated board).

- The manifold always has to be parallel at right angles with the vacuum table.

- Please make sure that the brushes are always pushed out evenly with the help of the template.

For brush adjustment, please use the delivered template (T-piece approx. 55 cm long). The inlet brushes are black, the outlet brushes are white. For special applications both are white.

- The shield guard has to be adjusted that the sheets run without stoppers over the inlet brushes and the shield guard has to be parallel to the inlet brushes.

- We recommend to check the brushes visually or by manual testing every 2-3 weeks. If the brushes are not adjusted respectively changed, the sheet will run on the faceplate which will grind down gradually. The consequence will be that the necessary air curls cannot be produced to catapult the dust particles.

- The change of the brushes depends on material and number of shifts. If this is not followed, the material will not touch along the whole working width and the brushes cannot tighten the vacuum. The consequence will be a loss of vacuum and efficiency of the system.

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Example of a grind down faceplate:

Please always check if all screws are tighten !!

The **wear of the brushes**, this means the time until the next adjustment is necessary, depends on:

- Materials and surfaces
- Sheet speeds
- and amount of shifts
- Setting/intensity of the vacuum through the valve at the inlet of the exhauster. Depending on material (grammage), pollution degree and web width, a reduced vacuum may be sufficient.

- If it is no longer possible to readjust the brushes, it is necessary to change them with another set of brushes. (Please consider delivery times since the refill is done by the manufacturer). The worn out brushes can be returned to PrintConcept and will be refilled with original brushes by the manufacturer.
  If the brushes are not changed or adjusted, the faceplate will wear off.

Spare part numbers can be found in the manual and should be stated in your order.

Remark:

We recommend our customers to order a set of spare brushes in time to avoid machine down times during the change of the brushes.

The brushes are synthetic brushes, which are especially bordered. They support the function of the system and optimize the effect.

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Maintenance of the exhauster:

Grease the lubricator nipple every 6 – 12 months.
In case of manual valve please consider: depending on grammage and material the valve has to be adjusted **(0 = open, C = closed).**

Maintenance of the cyclone:

The filters have to be cleaned (blown out with compressed air) or changed regularly. The period depends on the materiel (paper, cardboard, corrugated board) and number of shifts.
Recommendation: Depending on operation time we recommend once a week.

- Filter generation 1: If the filters are changed the side with the grid has to be face upwards. Also consider the direction of the arrow on the filter.
- Filter cyclone generation II: the inside cartridge filters have to be blown out regularly (once per shift) with the existing airbar. We recommend to change the filter once per year (one shift).
- The dust collector underneath the cyclone has to be emptied regularly (equipped with quick release fastener).
- The cyclone hast o be cleaned every few months.
  Recommendation: 1 x per quarter

Remark:

If the filters are full of dust and are not regularly cleaned, the air cannot leave optimum via the filters and is pressed back into the system. Thus the performance of the system is reduced and the optimum vacuum cannot be achieved.

We recommend to add this works to your list of maintenance work.

General remark:

1. All time data and intervals are recommendations based on findings oft he past.
2. Each installation is different in view of
   - Materials
   - Working widhts
   - Sheet speeds
   - Number of shifts

Each user should adapt the necessary steps in view of maintenance intervals tot he given parameters.

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