First ever EHEDG certified Tank Cleaning Machine

**Alfa Laval TJ SaniJet 25 Rotary Jet Head**

**Application**
The Toftejorg SaniJet 25 rotary jet head provides 3D indexed impact cleaning over a defined time period. It is automatic and represents a guaranteed means of achieving quality assurance in tank cleaning. Used in food and dairy processes, pharmaceutical and biotechnology industries, the device is suitable for processing, mixing and storage tanks/vessels between 15 and 150 m³. The design is particularly suitable for ultra-hygienic industries that follow European Hygienic Engineering & Design Group Guidelines.

**Working principle**
The flow of the cleaning fluid makes the nozzles perform a geared rotation around the vertical and horizontal axes. In the first cycle, the nozzles lay out a coarse pattern on the tank surface. The subsequent cycles gradually make the pattern more dense, until a full pattern is reached after 8 cycles.

**TECHNICAL DATA**

- **Lubricant:** Self-lubricating with the cleaning fluid
- **Standard Surface finish:** Ra 0.8µm exterior / Ra 0.8µm internal
- **Max throw length:** 12.5 - 17 m

**Pressure**
- **Working pressure:** 3 - 8 bar
- **Recommended pressure:** 5 - 6.5 bar

**Cleaning Pattern**

The above drawings show the cleaning pattern achieved on a cylindrical horizontal vessel. The difference between the first cycle and the full pattern represents the number of additional cycles available to increase the density of the cleaning.

**Certificates**
- 2.2 material certificate, Q-doc, Q-doc incl. FAT & SAT, ATEX and EHEDG.

**PHYSICAL DATA**

- **Materials:**
  - 316L (UNS S31603), Duplex steel (UNS N31803), Duplex steel (UNS S21800), PEEK*, PFA* and EPDM*
  - * FDA compliance 21CFR§177

- **Welding connection:**
  - 1” ISO, 1” ANSI/Sch40, 1½” BPE US/SWG, 1½” Dairy, 1½” ANSI/Sch40 or NW40.

- **Temperature**
  - Max. working temperature: 95°C
  - Max. ambient temperature: 140°C

- **Weight:** 6.3 kg

- **Options**
  - Electronic rotation sensor to verify 3D coverage.
  - Declaration of Conformity with ATEX approved, Category 1 for installation in zone 0/20.

**Caution**
Avoid hard and abrasive particles in the cleaning liquid, as this will cause increased wear and/or damage of internal mechanisms. It is recommended to install a filter in the supply line.
Standard Design
The choice of nozzle diameters can optimize jet impact length and flow rate at the desired pressure. To maintain the hygienic state of the machine, a welding adaptor matching a specific pipe size comes with the machine together with the necessary gaskets. The Toftejorg SanJet 25 is designed, tested, and approved according to EHEDG guidelines on design (guideline 8), cleanability (guideline 2) and in-line steam sterilisability (guideline 5). As standard documentation, it is supplied with a “Declaration of Conformity” for material specifications and surface roughness according to EN 10204 type 2.1 and 2.2.

Qualification Documentation (Q-doc)
Designed for the BioPharm and Personal Care industry for qualification of hygienic Tank Cleaning Machines. Developed in accordance to the ISPE V-model and GDP, Good Documentation Practice, and includes: RS (Requirement Specification); DS (Design Specification incl. Traceability Matrix); FAT (Factory Acceptance Test incl. IQ & OQ); 3.1 and USP Class VI Certificates; FDA Declaration of Conformity; TSE Declaration; QC Declaration of Conformity; SAT (Site Acceptance Test Protocol incl. IQ & OQ) for End User Execution.

### Flow Rate Nozzles mm Impact Throw Length

<table>
<thead>
<tr>
<th>Nozzle sizes</th>
<th>Flow rate l/min</th>
<th>Impact Throw Length m</th>
<th>Throw length m</th>
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<tbody>
<tr>
<td>5</td>
<td>15</td>
<td>5</td>
<td>0.5</td>
</tr>
<tr>
<td>6</td>
<td>10</td>
<td>10</td>
<td>1.0</td>
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<tr>
<td>7</td>
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<td>15</td>
<td>1.5</td>
</tr>
<tr>
<td>8</td>
<td>10</td>
<td>20</td>
<td>2.0</td>
</tr>
</tbody>
</table>

### Inlet pressure
- A: Wetting
- B: Impact cleaning

### Dimensions (mm)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
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<tbody>
<tr>
<td>110 max</td>
<td>228.5</td>
<td>80</td>
<td>740</td>
<td>ø110</td>
<td>max. 20</td>
<td>ø150</td>
<td>ø195</td>
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How to contact Alfa Laval
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