COTTON SWAB MACHINE

GENERAL DESCRIPTION
The CF1 cotton swab manufacturing machine is the result of years of research and development at Strema. Excellent reliability and production capacity, together with the outstanding quality of the finished product, are the reasons why CF1 is acknowledged world-wide as the leading machine in this field.

CF1 has been designed to meet the most demanding requirements from manufacturers of:
- Cotton swabs for ear care & hygiene (standard, baby, safety, etc.)
- Cotton swabs for cosmetics.
- Swabs for industry.
- Swabs for medical applications.

COTTON SWAB MACHINE

FEATURES:
- Production Capacity
  The production capacity of the CF1 machine ranges from 200 to 2500 pcs/min. The upper limit applies to standard ear-cleaning cotton swabs.
- Materials Stick
  - Types: polyethylene, polypropylene, polystyrene, paper, wood, corn starch
  - Dimensions: length 72 - 160 mm; diameter: 1.8 - 4.0 mm.
- Fiber
  - Types: 100% cotton, cotton-rayon blend or mixture with rayon.
  - Format: sliver from 1.2 to 4.0 g/m.
- Accessories
  - Additional forming plates for the comb-sucker (single or double).
  - Protection cable.
  - Dual-belt transport.

COTTON SWAB PACKAGING
CF1 can be used with all cotton swab packaging machines manufactured by Strema and other suppliers.

Specifications and weights (without turntable):
- Stick: 1330x650x1100 mm; weight: 720 kg.
- In connection box for packaging L905x850x1100 mm; weight: 870 kg.

CONTINUING IMPROVEMENT POLICY
It is Strema’s policy to pursue the continuous improvement of all its products. As a consequence, specifications from time shown above may occur.

SUBSYSTEM STANDARDS OPTIONS

<table>
<thead>
<tr>
<th>subsystem</th>
<th>standard</th>
<th>options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration</td>
<td></td>
<td>• Locking device for the turntable.</td>
</tr>
<tr>
<td></td>
<td>• Upper limit applies to standard ear-cleaning cotton swabs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Epoxy painted body, color gray RAL 7032.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Right version.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Dual-belt transport.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Fan with heating element.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Continuum device against static electricity.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Detection and disposal of swabs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Remote display on phone line.</td>
</tr>
</tbody>
</table>

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>feature</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Polyethylene, polypropylene, polystyrene, paper, wood, corn starch</td>
</tr>
<tr>
<td>Dimension</td>
<td>Length: 72 - 160 mm; Diameter: 1.8 - 4.0 mm</td>
</tr>
<tr>
<td>Fiber</td>
<td>100% cotton, cotton-rayon blend or mixture with rayon</td>
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<tr>
<td>Format</td>
<td>Sliver from 1.2 to 4.0 g/m</td>
</tr>
<tr>
<td>Accessories</td>
<td>Additional forming plates for the comb-sucker (single or double)</td>
</tr>
<tr>
<td>Protection</td>
<td>Cable</td>
</tr>
<tr>
<td>Production</td>
<td>Capacity: 200 to 2500 pcs/min. (upper limit applies to standard ear-cleaning cotton swabs)</td>
</tr>
<tr>
<td>Materials</td>
<td>Stick: polyethylene, polypropylene, polystyrene, paper, wood, corn starch</td>
</tr>
<tr>
<td>Package</td>
<td>Size: L905x850x1100 mm; weight: 870 kg</td>
</tr>
<tr>
<td>Power</td>
<td>380 V, 50 Hz, 3-phase, 3-kw, 1500 rpm</td>
</tr>
<tr>
<td>Control</td>
<td>PLC with automatic control of machine states, speed, and upper limit settings</td>
</tr>
<tr>
<td>Bagging</td>
<td>Machine is supplied with a bagging system</td>
</tr>
<tr>
<td>Packaging</td>
<td>Interface with any packaging machine</td>
</tr>
<tr>
<td>Metrology</td>
<td>Measuring and monitoring of the packaging machine</td>
</tr>
<tr>
<td>Inspection</td>
<td>Visual inspection of the product</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Regular maintenance with display of operating conditions</td>
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<td>Safety</td>
<td>Protection against static electricity</td>
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