Auto Coater-Tablet Film & Sugar Coating

**Application & Process:**

Auto coater is used to coat tablets, pills, candies, granules and sweets with sugar film, organic film and aqueous coating in Pharmaceutical and food industry.

The tablet to be coated make continuous complicated orbital motion the closed rotating Drum under the action of a streamline of Baffles. During the motion coating medium automatically sprays according to the technological process and rational technological parameter through the spray gun of the peristaltic pump.

At the same time hot filtered air supplied under a negative pressure. The hot air penetrates through the tablets core layers and is discharged from the bottom of the layers, so that the coating medium sprayed on the surface of the tablet cores will dry rapidly and evenly, thus forming a solid and smooth surface film on tablet. The whole process is finished under the control of PLC

**Salient Features:**

- Design is cGMP – Current Good Manufacturing Practices compliance.
- All contact parts AISI 316 & non contact parts AISI 304.
- Fully automatic film & sugar coating process by PLC Controls with HMI Touch screen.
- The machine structure made from S.S.304 quality fitted with Closed Drive, Perforated Pan, Washing sink, Inlet air plenum, Exhaust air plenum with Air tight door.
- The perforated pan having specially designed baffles on side slope face and anti slide baffles on diagonal face for mixing.
- Automatic Spraying systems provided with Atomized spray Gun, Adjustable spray gun arms, High precise flow peristaltic pump, solution holding tank with pneumatic stirrer.
- Inlet Air Handler is double scan inside SS 304 and outside powder coated Inlet AHU (air handler unit) with Pre filter-10 Micron, Blower assembly, Heat Exchanger, Final filter-5 Micron and HEPA filter- 0.3 micron.
- Exhaust air system provided with blower with option of Wet Scrubber or Dry filter system.
- Inlet air and Exhaust Air flow controls by AC Frequency drive of blower.
- All doors, safety guards and covers are provided with a suitable food grade seals.
- Inbuilt CIP System for fast and easy cleaning.
- Tablet discharge system provided.

**Optional Features:**

- A.C. frequency Drive for pan.
- Fixed or detachable type buffle.
- Spraying system with peristaltic pump and air automizing nozzle.
- Flame Proof Electrical.
- Polishing Pan.

**Safety Features:**

- Overload pressure release mechanism.
- Emergency stop button.

**Technical Specification:**

<table>
<thead>
<tr>
<th>Model</th>
<th>PAC-30</th>
<th>PAC-36</th>
<th>PAC-42</th>
<th>PAC-48</th>
<th>PAC-60</th>
<th>PAC-66</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pan Diameter – Inch(mm)</td>
<td>30&quot; - 750</td>
<td>36&quot; - 920</td>
<td>42&quot; - 1070</td>
<td>48&quot; - 1220</td>
<td>60&quot; - 1525</td>
<td>66&quot; - 1675</td>
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<tr>
<td>Approx Working Capacity</td>
<td>30</td>
<td>75</td>
<td>100</td>
<td>150</td>
<td>350</td>
<td>500</td>
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<tr>
<td>Pan Mouth Diameter</td>
<td>250</td>
<td>380</td>
<td>100</td>
<td>400</td>
<td>520</td>
<td>520</td>
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<tr>
<td>Pan Speed RPM</td>
<td>5 - 15</td>
<td>2 - 10</td>
<td>2 - 10</td>
<td>2 - 10</td>
<td>2 - 10</td>
<td>2 - 10</td>
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<tr>
<td>Main Drive Motor HP</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td>10</td>
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<tr>
<td>Inlet Air Blower Motor HP</td>
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<td>2</td>
<td>3</td>
<td>5</td>
<td>7.5</td>
<td>10</td>
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<tr>
<td>Inlet air cfm</td>
<td>350</td>
<td>1300</td>
<td>1600</td>
<td>2500</td>
<td>3800</td>
<td>5500</td>
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<tr>
<td>Steam Consp. kg/hr. @ 4 bar</td>
<td>20</td>
<td>60</td>
<td>70</td>
<td>100</td>
<td>140</td>
<td>160</td>
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<tr>
<td>Comp. Air cfm @ 6 bar</td>
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<td>30</td>
<td>30</td>
<td>55</td>
<td>95</td>
<td>110</td>
</tr>
</tbody>
</table>

**Image of Auto Coater:**

![Auto Coater Image](image-url)