HelioS
OPEN END ROTOR SPINNING MACHINE
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SAVIO NEW OPEN END SOLUTION
MODERN SPINNING TECHNOLOGY

BENEFITS
- Modern Spinning Technology which meet all main requirements.
- High spinning speed thanks to new Savio Spin box.
- Reduced energy consumption.
- Hybrid technology to optimize efficiency and flexibility.

HIGHLIGHTS
- Full automated open-end rotor spinning machine with hybrid technology to optimize efficiency, minimum “non productive” time and to support high flexibility.
- High spinning speed of up to 125,000 rpm with new Savio spin box.
- Take-up speed of up to 250 m/min.
- Electronic package building.
- Independent sides for two lots processing.
- Minimizing energy power.
- Low operation height makes the machine user-friendly for all kind of operations.
- Up-to 520 spinning units to meet customers’ requirements and optimize their investment.
TECHNOLOGY
Modern Spinning Technology

• Natural and manmade fibers and their blends, fiber length up to 60 mm.
• Up to 125,000 rpm.
• Up to 250 m/min take up.
• Up to 5kg package weight.

Yarn count NE 2,4 - 40

New box design
1. Designed for all type of material and to process regenerated fibers and spinning waste.
2. Low suction level for spinning.
3. New fixing of bodies on section to ensure perfect positioning of components for spinning.
4. New break system for fast stop, protecting from overloading bearing system.
5. Active, universal air cleaning insert.
AUTOMATED SOLUTIONS
Independent doffer and piecing trolley

High Speed Automatization
Up to 2 independently working piecing and doffing trolleys

Piecing:
• Piecing within 25 sec.
• Moving along the machine with up-to 45m/min.

Standard piecing by independent trolley:
• Rotor cleaning with self-adjusting scraper.
• Yarn end search & preparation.
• Controlled piecing start.
• Piecer works in travel mode as cleaning blower.

Doffing:
• Doffing within 10 sec.
• Moving along the machine with up-to 60m/min.

Standard doffing by independent trolley:
• When package length is reached.
• Within package length tolerance settable on PC.
• 4 tube storage for each units.

Package removal system per each side with buffer position for each unit:
• Individual buffer position per unit.
• Package unloading batch (left/right side) settable by PC and/or by panel at unloading point.
• Individual buffer position allows a package remove from the conveyor belt without interfering doffer efficiency.
QUALITY OUTPUT
Perfect Yarn, Perfect packages

- Traverse stroke (120-154 mm).
- Winding crossangle (28°-42°) variable.
- Integrated antiribboning system.
- Lateral displacement (±3 mm).
- Electronic Package Build (EPB).
- Large packages of up to diam. 330 mm and 5 kg.
- All parameters centralized set on the PC.
- Package format of cylindrical as well as up to 2°.

EFFICIENCY
Reduced energy cost

- Low suction level for spinning.
- Functional optimized motors for energy saving.
- Optimized airflow thru the whole machine.
- Centre drives with new belt-motor structure.
**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Design</th>
<th>Double sided full automated rotor spinning machine with independent driven machine sides, hybrid technology for doffing and piecing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of spinning units</strong></td>
<td>20 per section, maximum 26 sections with 520 spinning units, minimum 240 spinning units, in steps of 40 units</td>
</tr>
<tr>
<td><strong>Gauge</strong></td>
<td>250 mm</td>
</tr>
<tr>
<td><strong>Automation</strong></td>
<td>Independent working center and interlock (depending on material and count).</td>
</tr>
<tr>
<td><strong>Yarn quality monitoring</strong></td>
<td>Electronic Package Build (EPB), Electronic anti-patterning, variable stroke</td>
</tr>
<tr>
<td><strong>Frequency inverter</strong></td>
<td>Infinitely variable adjustment of delivery speed, winding speed</td>
</tr>
<tr>
<td><strong>Suction system</strong></td>
<td>Automatic leveling of spinning and trash vacuum</td>
</tr>
<tr>
<td><strong>Lever system</strong></td>
<td>Integrated in package for cleaning of the machine</td>
</tr>
<tr>
<td><strong>Torsion stop</strong></td>
<td>Ceramic type</td>
</tr>
<tr>
<td><strong>Overall dimensions</strong></td>
<td>See diagram below</td>
</tr>
</tbody>
</table>

**OVERALL DIMENSIONS**

<table>
<thead>
<tr>
<th>Spindles</th>
<th>Sections</th>
<th>Length m</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>14</td>
<td>39340</td>
</tr>
<tr>
<td>80</td>
<td>16</td>
<td>44741</td>
</tr>
<tr>
<td>120</td>
<td>18</td>
<td>50142</td>
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<td>20</td>
<td>55543</td>
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<tr>
<td>200</td>
<td>22</td>
<td>60944</td>
</tr>
<tr>
<td>240</td>
<td>24</td>
<td>66345</td>
</tr>
<tr>
<td>280</td>
<td>26</td>
<td>71746</td>
</tr>
<tr>
<td>320</td>
<td>28</td>
<td>77147</td>
</tr>
</tbody>
</table>

**TECHNOLOGY DATA**

<table>
<thead>
<tr>
<th>Raw materials</th>
<th>Natural and manmade fibers and their blends, fiber length up to 60 mm. Regenerated fibers and spinning waste possible (further details on request).</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Yarn count range</strong></td>
<td>Ne 2.4 - 60</td>
</tr>
<tr>
<td><strong>Diameter</strong></td>
<td>Ne 2.4 - 3 mm / Ne 0.125 - Ne 0.25 / Ne 0.28 - Ne 0.60</td>
</tr>
<tr>
<td><strong>Winding cross angle</strong></td>
<td>28° - 42°; variable setting</td>
</tr>
</tbody>
</table>

*depending on material and count.
We reserve the right to modify the characteristics of the machines described herein without prior notice. The data given in this brochure are not intended as a guarantee.
Savio machines are equipped with safety devices in compliance with existing regulations.

SAVIO ADVERTISING DPT.
ED. 06/2019 - EN