FACTSHEET

PolyJet-3 Migra.

Air migration jet for the filament spinning plant
HEBERLEIN® PolyJet-3 Migra.
Air migration jet for optimum preparation of filament yarns

The PolyJet-3 Migra not only ensures uniform distribution from the spinning preparation through to the yarn core, it also increases efficiency in downstream processes. Thanks to the ingenious quick-fastening system, jet packs can be removed with a single 180° turn.

Air Migration
With an air migration jet, individual filaments of a yarn are lightly intermingled using compressed air without creating interlacing knots. At the same time, the compressed air spreads the unevenly distributed spin finish uniformly within the yarn core. Air migration results in optimal yarn cohesion and yarn runnability, which increases machine efficiency during the spinning process.

Features and Benefits

- Savings in spinning preparation
- Optimum migration
- High process reliability
- Low air consumption
- Lateral threading slot
- Special jet housing protects high-grade ceramic plates
HEBERLEIN® PolyJet-3 Migra.

Technical Data

Performance values

<table>
<thead>
<tr>
<th>Type</th>
<th>Count in jet (^1) [dtex]</th>
<th>Winding speed (^1) [m/min]</th>
<th>Air pressure (p_e) [bar]</th>
<th>Air consumption (q_{v,n}) per yarn channel (^2) [m³/h]</th>
<th>For number of threads</th>
<th>Thread line spacing [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>M090/CN01</td>
<td>55</td>
<td>7500</td>
<td>0.5 .. 2.00</td>
<td>0.376 ((p_e+1))</td>
<td>1, 12, 24, 32</td>
<td>4, 16</td>
</tr>
<tr>
<td>M110/CN16</td>
<td>95</td>
<td>7500</td>
<td>0.5 .. 2.00</td>
<td>0.562 ((p_e+1))</td>
<td>1, 12, 24, 32</td>
<td>4, 16</td>
</tr>
<tr>
<td>M130/CN14</td>
<td>190</td>
<td>7500</td>
<td>0.5 .. 2.00</td>
<td>0.786 ((p_e+1))</td>
<td>1, 12, 24, 32</td>
<td>4, 16</td>
</tr>
<tr>
<td>M161/CN26</td>
<td>350</td>
<td>7500</td>
<td>0.5 .. 2.00</td>
<td>1.190 ((p_e+1))</td>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>M200/CN27</td>
<td>800</td>
<td>7500</td>
<td>0.5 .. 2.00</td>
<td>1.859 ((p_e+1))</td>
<td>1</td>
<td>16</td>
</tr>
</tbody>
</table>

1 Guide values: depends on the yarn properties, the machine settings, and the yarn guides (den = 0.9 x dtex)

2 Under standard conditions according to DIN 1343: temperature = 0°C, pressure = 1.01325 bar, relative humidity = 0%, 1 standard cubic metre = 1.293 kg (psi = 14.7 x bar, CFM = 0.588 x m³/h)

Compressed air requirements

- Overpressure: 1.5 .. 2.0 bar
- Max. residual oil: 0.1 mg/m³ (class 2*)
- Max. residual particles: (class 2*)
  - Particle size 1 µm
  - Particle density 1 mg/m³
- Max. residual water: (class 5*)
  - Residual water 7,732 g/m³
  - Pressure dew point + 7 °C

* Quality class according to DIN ISO 8573-1