FACTSHEET

PolyJet-2 Migra.
Air migration jet for the filament spinning plant
The PolyJet-2 Migra is used in spinning processes for the effective migration of spin finish in yarns. The jet concept allows replacement of jets of different sizes and interlacing characteristics in the same holder. This allows a quick response to changing market trends.

### Air Migration

With an air migration jet, individual filaments of a yarn are easily 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.

### Assortment

**PolyJet-SP-2 Migra**

The PolyJet-SP-2 Migra is used for all textile yarns of up to 800 dtex.

**PolyJet-TG-2 Migra**

The PolyJet-TG-2 Migra is used for technical yarns of up to 10,000 dtex and BCF (Bulked Continuous Filament) yarns of up to 16,000 dtex.

### Features and Benefits

- Can be used in all spinning processes during the manufacture of technical multi-filament yarns from PET, PA, and PP
- Increases productivity during the spinning process
- Low air consumption
- Easy threading
- A special jet housing protects the high-grade ceramic plates
- Coloured jet holders for easier identification
- Simple maintenance
- Available as single and multithread jets
- Custom solutions available on request
HEBERLEIN® PolyJet-2 Migra.

Technical Data

Performance values

<table>
<thead>
<tr>
<th>Type</th>
<th>Count in jet [dtex]</th>
<th>Winding speed [m/min]</th>
<th>Air pressure $p_e$</th>
<th>Air consumption $q_{vn}$ per yarn channel</th>
<th>For number of threads</th>
<th>Thread line distance [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flat yarns</td>
<td>BCF yarns</td>
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<td>BCF yarns</td>
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<tr>
<td>M090/CN01</td>
<td>55</td>
<td>7500</td>
<td>0.5 … 2.0</td>
<td>0.376($p_e$+1)</td>
<td>4 … 24</td>
<td>4, 6</td>
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<tr>
<td>M110/CN16</td>
<td>95</td>
<td>7500</td>
<td>0.5 … 2.0</td>
<td>0.562($p_e$+1)</td>
<td>4 … 24</td>
<td>4, 6</td>
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<tr>
<td>M130/CN14</td>
<td>190</td>
<td>7500</td>
<td>0.5 … 2.0</td>
<td>0.786($p_e$+1)</td>
<td>1 … 24</td>
<td>6, 16</td>
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<tr>
<td>M161/CN26</td>
<td>350</td>
<td>7500</td>
<td>0.5 … 2.0</td>
<td>1.190($p_e$+1)</td>
<td>1 … 24</td>
<td>6, 16</td>
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<td>M200/CN27</td>
<td>800</td>
<td>7500</td>
<td>0.5 … 2.0</td>
<td>1.859($p_e$+1)</td>
<td>1 … 24</td>
<td>6, 16</td>
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<tr>
<td>M320/CN52</td>
<td>5500</td>
<td>8500</td>
<td>0.5 … 2.0</td>
<td>4,759($p_e$+1)</td>
<td>1</td>
<td>30</td>
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<tr>
<td>M400/CN62</td>
<td>10000</td>
<td>16000</td>
<td>0.5 … 2.0</td>
<td>7,437($p_e$+1)</td>
<td>1</td>
<td>30</td>
</tr>
</tbody>
</table>

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

3 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 m$^3$/h)

Yarn characteristics (in water bath)

Compressed air requirements

- Overpressure: 0.5 … 2.0 bar
- Max. residual oil: 0.1 mg/m$^3$ (class 2*)
- Max. residual particles: (class 2*)
  - Particle size 1 µm
  - Particle density 1 mg/m$^3$
- Max. residual water: (class 5*)
  - Residual water 7.732 g/m$^3$
  - Pressure dew point + 7 °C

* Quality class according to DIN ISO 8573-1