FACTSHEET
WarpJet-KV.
Interlacing

HEBERLEIN®
TECHNOLOGY FOR PROFESSIONALS

HEBERLEIN® WarpJet-KV.

Time-saving threading, energy-efficient air interlacing solutions

The WarpJet is used for efficient interlacing during warping. The fast and simple threading from above is combined with light cleaning and reduced machine downtimes.

WarpJet-KV

Interlacing

In air interlacing, an air blast is used to mechanically join individual yarns to each other. The resulting interlacing knots provide the required yarn compactness. This allows higher processing speeds, resulting in improved tree structure and a reduced number of filament and yarn breaks during subsequent processes.

Features and Benefits

- **High processing speeds**
- **Fewer filament and yarn breaks mean that the machine does not have to be stopped during downstream processes**
- **Suited to multifilament yarns made of polyester and polyamide**
- **High interlacing performance**
- **High uniformity of position**
- **Up to 20% lower air consumption**
- **Slider valves mean that compressed air supply to both sides can be regulated**

- **The yarn guides are fully enclosed for increased protection**
- **The modular design allows up to 64 yarns to be interlaced in a single unit**
- **The jet packages can be easily replaced**
- **The jet packages can be easily cleaned in an ultrasonic cleaner**
- **Efficient and easy threading from above**

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Technical Data

Performance values

Type	Count range [dtex]									Air pressure p_e [bar]	Speed[1] [m/min]	Air chan-nel [mm]	Air consumption q_{vn} per yarn channel[2] q_{vn} [m³/h]	Max. number of yarns	Thread line dis-tance [mm]
Series PJ	**Highest interlacing performance**														
HP090A/WP01										0.5 … 4.0	… 800	0.9	0.376 (p_e+1)	64	4
HP113A/WP10										0.5 … 4.0	… 800	1.1	0.562 (p_e+1)	64	4
HP134A/WP20										0.5 … 4.0	… 800	1.3	0.786 (p_e+1)	64	4
Series FJ	**Average interlacing performance**														
W11.0										0.5 … 4.0	… 800	1.1	0.562 (p_e+1)	64	4
W13.0										0.5 … 4.0	… 800	1.3	0.786 (p_e+1)	64	4
	22	33	55	78	110	167	220	330	420						

1 Guide values: depends on the properties of the yarn, the machine settings, and the yarn guides (the = 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 metres = 1.293 kg (psi = 14.7 x bar, CFM = 0.588 x m³/h)
p_e = overpressure [bar], q_{vn} = air consumption [m³/h]

■ = Typical applications

■ = Threshold

Compressed air requirements

– Overpressure: 0.5 … 6.0 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

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