# HEBERLEIN® WARPJET-KV.

## AIR INTERLACING.

TIME SAVING THREADING, ENERGY EFFICIENT CUSTOM INTERLACING SOLUTIONS.

**The WarpJet is used for efficient interlacing in the warping process, combining individual threads into a compact multi-threadline arrangement combining fast and simple threading from the topside, easy cleaning and reducing idle machine time.**

### Air interlacing

Individual filaments are intermingled using a stream of compressed air. The resulting interlacing knots provide the required yarn compaction. This in turn leads to higher processing speeds, to an improved package build and reduced occurrence of broken filaments and yarn breaks in the downstream processes.


### Features and Benefits

- **High processing speeds**
- **Reduction of broken filaments, yarn breaks preventing machine stops in the downstream process**
- **Suitable for multifilament yarns of polyester and polyamide in the fine to medium yarn count ranges**
- **Provides high uniformity and interlacing performance**
- **Up to 50% lower air consumption**
- **Slider valves mean that compressed air supply to both sides can be regulated**
- **Increased productivity and reduced waste**
- **The yarn guides are fully enclosed for increased protection**
- **Modular design enables up to 64 threads to be interlaced in a single unit**
- **Jet inserts can be exchanged easily so that the unit does not have to be removed**
- **Easy to clean in an ultrasonic cleaning bath**
- **Efficient and easy threading from the topside**

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becomes
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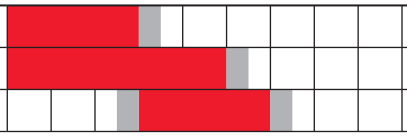
# Heberlein® WarpJet-KV

## Technical Data

| Type | | Air pressure $p_e$ | Speed [1] m/min | Air channel [mm] | Air usage $q_{vn}$ per yarn channel [m³/h] | Max. number of yarn ends | Thread-line spacing [mm] |
|---|---|---|---|---|---|---|---|
| Series PJ | Highest interlacing performance | | | | | | |
| HP090A/WP01 |  | 0.6 - 3.0 bar | ~ 800 | 0.9 | $q_{vn} = 0.376 (p_e+1)$ | 64 | 4 |
| HP113A/WP10 |  | 0.6 - 3.0 bar | ~ 800 | 1.1 | $q_{vn} = 0.562 (p_e+1)$ | 64 | 4 |
| HP134A/WP20 |  | 0.6 - 3.0 bar | ~ 800 | 1.3 | $q_{vn} = 0.786 (p_e+1)$ | 64 | 4 |
| Series FJ | Average interlacing performance | | | | | | |
| W11.0 |  | 0.6 - 3.0 bar | ~ 800 | 1.1 | $q_{vn} = 0.562 (p_e+1)$ | 64 | 4 |
| W13.0 |  | 0.6 - 3.0 bar | ~ 800 | 1.3 | $q_{vn} = 0.786 (p_e+1)$ | 64 | 4 |
| |  | | | | | | |



[1] Values for guidance: Depending on the feeder yarn properties, the machine settings and the thread guides (den = 0.9 x dtex)

[2] According to standard DIN 1343: Temperature = 0 °C; Pressure = 1.01325 bar; Relative Humidity = 0 %
(1 cubic meter = 1.293 kg; psi = 14.7 x bar; CFM = 0.588 x m³/h).
Ask if the plant is more than 1 000 m above sea level.

## Compressed air requirements

- 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
  - Dew point + 7 °C

* According to DIN ISO 8573-1