

HEBERLEIN® POLYJET-2 HP.

AIR INTERLACING FOR FILAMENT SPINNING.

HIGH PERFORMANCE INTERLACING FOR TEXTILE FILAMENT YARNS.

Compared to the standard, the PolyJet-2 HP enables air interlacing with reduced air consumption and a higher number of knots per meter. The insert is designed for the processing of all textile multi-filament yarns.

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

- ▶ Significant air savings over the current standard
- ▶ Specially suitable for microfilament, fine yarns as well as normal or coarse yarns
- ▶ Higher number of knots per metre in comparison to the current standard
- ▶ Retrofit for existing housings
- ▶ For highest performance
- ▶ Fast and easy threading
- ▶ Special jet housing protects high grade ceramic plates
- ▶ Easy maintenance

Heberlein® PolyJet-2 HP

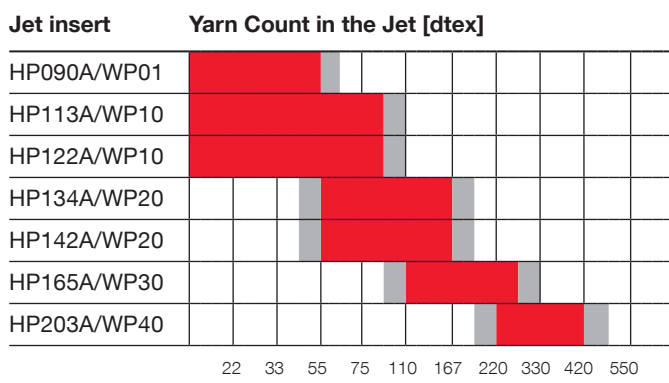
Technical data

Jet insert	Air channel [mm]	Winding Speed [m/min]	Air consumption [m³/h] ¹	Yarn tension after the jet [cN/dtex]	Yarn Count in the Jet [dtex]	Air pressure p _e [bar] ²
HP090A/WP01	ø 0.9	- 6000	q _v = 0.376 x (p _e +1)	0.10 - 0.25	- 55	3 - 6
HP113A/WP10	ø 1.1	- 6000	q _{vn} = 0.562 x (p _e +1)	0.10 - 0.25	- 95	3 - 6
HP122A/WP10	ø 1.2	- 6000	q _{vn} = 0.669 x (p _e +1)	0.10 - 0.25	- 95	2 - 6
HP134A/WP20	ø 1.3	- 6000	q _{vn} = 0.786 x (p _e +1)	0.10 - 0.25	55 - 167	3 - 6
HP142A/WP20	ø 1.4	- 6000	q _{vn} = 0.911 x (p _e +1)	0.10 - 0.25	55 - 167	2 - 6
HP165A/WP30	ø 1.6	- 6000	q _{vn} = 1.190 x (p _e +1)	0.10 - 0.25	110 - 300	3 - 6
HP203A/WP40	ø 2.0	- 6000	q _{vn} = 1.859 x (p _e +1)	0.10 - 0.25	220 - 420	3 - 6

¹ Formula for calculation (valid from 0.8 bar gauge pressure); p_e = gauge pressure [bar]; q_{vn} = air consumption [m³/h]

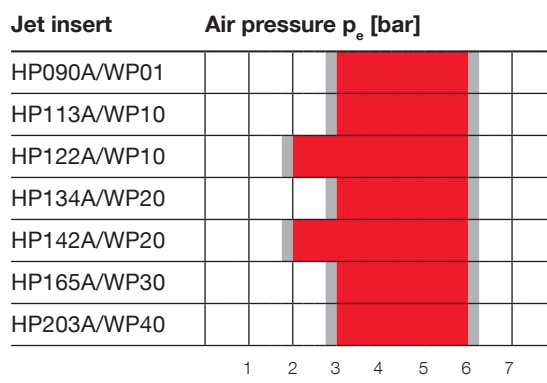
² den = 0.9 dtex

Yarn count



■ Typical range ■ Limits of application

Pressure range



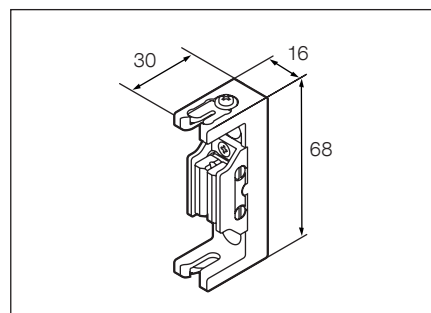
■ Typical range ■ Limits of application

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

Dimensions in mm



MonoJet, single thread