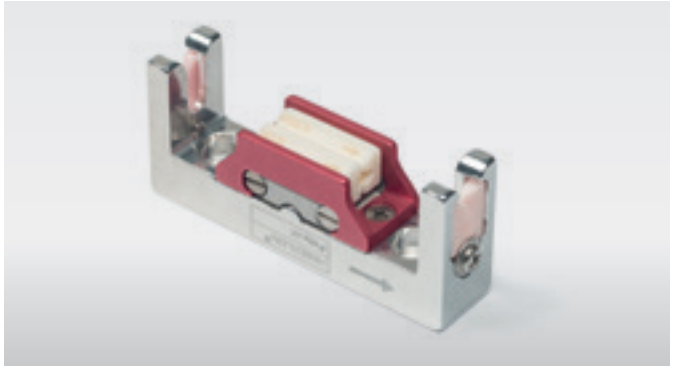
HEBERLEIN® POLYJET-SP-2.

AIR INTERLACING FOR FILAMENT SPINNING.

FLEXIBLE AIR INTERLACING JETS FOR TEXTILE FILAMENT YARNS.

The PolyJet-SP-2 is used in the filament spinning – process. It provides manufacturers with the ability to exchange jets of various sizes and interlacing ability on the same holder allowing a fast reaction to market trends.



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.

Jet program

PolyJet-SP-2 HN

The PolyJet-SP-2 HN is state of the art, highly compact product with minimum thread spacing for the maximum number of threads. Yarn spacing from 4 mm for jet types HN112A to HN141A. Spacing of 6mm/8mm /12mm for all jet types provides a high knot count, uniformity and stability

PolyJet-SP-2 PP

The PolyJet-SP-2 PP is used in gentle interlacing with soft knots and has a yarn spacing of 16mm. It provides a high level of uniformity at a low air pressure, and can be used for delicate yarns such as acetate or viscose.

PolyJet-SP-2 HN TopAir

The additional air streams of the PolyJet-SP-2 HN TopAir induce a large number of uniform & strong interlacing knots. At the same time air consumption is reduced, since each jet is able to process increased yarn titre. Alternatively an optimum performance is achieved at a lower working air pressure. Yarn Protection is maximised due to the generation of a unique air cushion.

Features and Benefits

- **Can be used in all spinning processes during the manufacture of textile multi-filament yarns**
- **Fast and easy threading due to an integral threading aid and is already prepared for machines with automatic threading**
- **Special jet housing protects high grade ceramic plates**
- **Coloured jet holders available for ease of identification**
- **Easy maintenance**
- **Available as single and multithread jets**
- **Inserts available in different geometry styles**

January 2016
Saurer Components, Switzerland
becomes
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Heberlein® PolyJet-SP-2

Technical Data

Type	Yarn Count in the Jet [dtex] [1]	Winding-speed [1] [m/min]	Yarn tension after the jet [cN/dtex]	Air pressure p_e [bar] [2]	Air usage q_{vn} per yarn channel [m³/h]	For number of yarn ends	Threadline spacing [mm]
PolyJet-SP-2 HN							
HN112A/CN15	- 110	~ 6000	0.10 - 0.25	2.0 - 6.0	0.562 (p_e+1)	1 up to 32	4, 6, 16
HN121A/CN15	- 110	~ 6000	0.10 - 0.25	2.0 - 6.0	0.669 (p_e+1)	1 up to 32	4, 6, 16
HN133A/CN14	- 190	~ 6000	0.10 - 0.25	2.0 - 6.0	0.786 (p_e+1)	1 up to 32	4, 6, 16
HN132A/CN14	- 330	~ 5000	0.10 - 0.20	1.5 - 5.0	0.786 (p_e+1)	1 up to 32	4, 6, 16
HN141A/CN14	- 190	~ 6000	0.10 - 0.25	2.0 - 6.0	0.911 (p_e+1)	1 up to 32	4, 6, 16
HN163A/CN26	- 330	~ 6000	0.10 - 0.25	2.0 - 6.0	1.190 (p_e+1)	1 up to 24	6, 8, 16
HN164A/CN28	- 190	> 6000	0.10 - 0.25	2.0 - 6.0	1.190 (p_e+1)	1	6
HN202A/CN27	- 660	~ 6000	0.10 - 0.25	2.0 - 6.0	1.859 (p_e+1)	1 up to 24	6, 8, 16
PolyJet-SP-2 HN TopAir							
HN163A/CO26	- 330	~ 6000	0.10 - 0.25	2.0 - 6.0	1.481 (p_e+1)	1, 2	6, 8
HN164A/CO28	- 190	~ 6000	0.10 - 0.25	2.0 - 6.0	1.481 (p_e+1)	1	6
HN202A/CO27	- 660	~ 6000	0.10 - 0.25	2.0 - 6.0	2.315 (p_e+1)	1, 2	6, 8
PolyJet-SP-2 PP							
PP100	- 110	~ 5000	0.10 - 0.25	1.5 - 4.0	0.753 (p_e+1)	1, 2, 12	6, 16
PP200	- 190	~ 5000	0.10 - 0.25	1.5 - 4.0	1.125 (p_e+1)	1, 2, 12	6, 16
PP400	- 420	~ 5000	0.10 - 0.25	1.5 - 4.0	1.822 (p_e+1)	1, 2, 12	6, 16

[1] Values for guidance: depend on the feeder yarn properties, the machine settings and the thread 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 meter = 1.293 kg, psi = 14.7 x bar, CFM = 0.588 x m³/h).

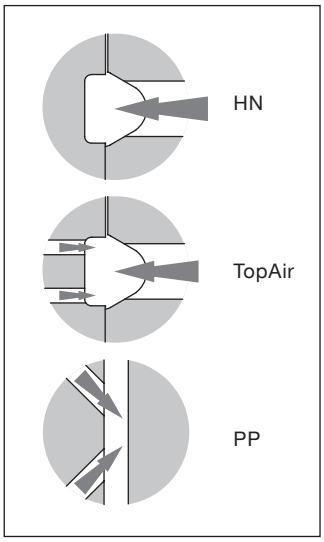
Yarn Characteristics (in the water bath)

PolyJet-SP-2 HN

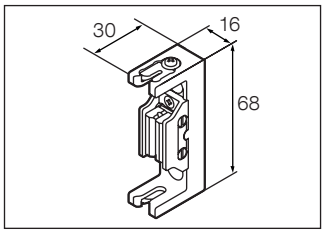
PolyJet-SP-2 HN Top Air

PolyJet-SP-2 PP

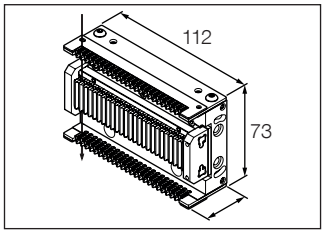
Yarn Channel Geometrics



Dimensions in mm



PolyJet-SP-2, single thread



PolyJet-SP-2, 24-fold, Spacing 4 mm

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