

HEBERLEIN® POLYJET-TG-2.

AIR INTERLACING FOR SPIN-DRAWING.

FLEXIBLE AIR INTERLACING JETS FOR TECHNICAL FILAMENT YARNS.

The PolyJet-TG-2 is used in the spin-draw process where technical filament yarns are drawn in-line and provides high quality interlacing and efficiency. It provides manufacturers with the ability to exchange jets of various sizes and interlacing ability on the same holder.

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-TG-2 HN

The PolyJet-TG-2 HN ensures improved fault-free package build and package unwinding processes.

PolyJet-TG-2 HN TopAir

The additional air streams of the PolyJet-TG-2 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.

PolyJet-TG-2 PP

The PolyJet-TG-2 PP provides a high level of uniformity at a low air pressure, generating soft knots.



Features and Benefits

- ▶ Can be used in all spinning processes during the manufacture of technical multi-filament yarns from PET, PA and PP
- ▶ Fast and easy threading, prepared for machines with automatic threading
- ▶ Very compact design, also available as a multithread jet
- ▶ Special jet housing protects high grade ceramic plates
- ▶ Coloured jet holders available for ease of identification in the spinning process
- ▶ Easy maintenance

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Heberlein® PolyJet-TG-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 [m ³ /h]	Threadline spacing [mm]
PolyJet-TG-2 HN						
HN251A/CN33	400 - 800	~ 5000	0.06 - 0.15	1.5 - 8.0	2.905 (p _e +1)	30
HN321A/CN41	550 - 1200	~ 3000	0.06 - 0.15	1.5 - 8.0	4.759 (p _e +1)	30
HN403A/CN52	1000 - 2500	~ 5000	0.06 - 0.15	1.5 - 8.0	7.437 (p _e +1)	30
HN453A/CN63	1800 - 4000	~ 3000	0.06 - 0.15	1.5 - 8.0	9.412 (p _e +1)	30
PolyJet-TG-2 HN TopAir						
HN251A/CO33	400 - 1000	~ 5000	0.06 - 0.15	3.0 - 8.0	3.617 (p _e +1)	30
HN321A/CO41	550 - 1500	~ 5000	0.06 - 0.15	3.0 - 8.0	5.925 (p _e +1)	30
HN403A/CO52	1000 - 3000	~ 6000	0.06 - 0.15	3.0 - 8.0	9.285 (p _e +1)	30
HN453A/CO63	1800 - 4500	~ 6000	0.06 - 0.15	3.0 - 8.0	11.646 (p _e +1)	30
HN452A/CO62	2200 - 5500	~ 6000	0.06 - 0.15	3.0 - 8.0	11.792 (p _e +1)	30
HN520A/CO65	3000 - 6500	~ 5000	0.06 - 0.15	3.0 - 8.0	15.754 (p _e +1)	30
PolyJet-TG-2 PP						
PP1000	- 600	~ 4000	0.06 - 0.15	1.5 - 6.0	2.380 (p _e +1)	30
PP1600	- 900	~ 4000	0.06 - 0.15	1.5 - 6.0	3.718 (p _e +1)	30
PP2400	- 1500	~ 5000	0.06 - 0.15	1.5 - 6.0	5.354 (p _e +1)	30
PP3500	- 2500	~ 5000	0.06 - 0.15	1.5 - 6.0	8.366 (p _e +1)	30
PP5000	- 3500	~ 5000	0.06 - 0.15	1.5 - 6.0	12.726 (p _e +1)	30

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-TG-2 HN



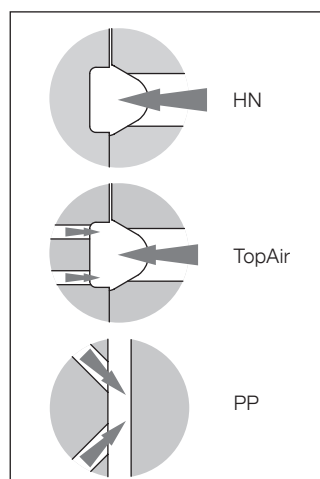
PolyJet-TG-2 HN TopAir



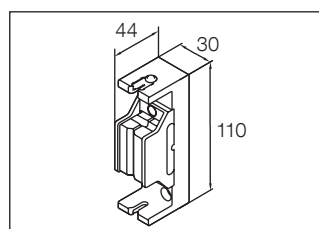
PolyJet-TG-2 PP



Yarn Channel Geometrics



Dimensions in mm



PolyJet-TG-2, single; Weight 260 g

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