HEBERLEIN® SWISSJET.

DTY FALSE-TWIST TEXTURING.

HIGH QUALITY, COST EFFECTIVE INTERLACING.

The SwissJet is designed for the effective manufacturing and processing of filament yarns during texturing. The jet is produced using a special carbon fibre material giving extreme durability in operation, long life and very light weight. A range of jet inserts are available for different yarn types.

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.

Product Range

- The S1, S2 and S3 series with the patented ATC (Air Twist Chamber) for yarns up to 240 dtex. Extremely regular interlacing with maximum knot count up to 1,200 m/min yarn speeds

- The S12, S13, S16 and S18 with vortex chamber for fewer but highly stable knots.

Features and Benefits

- **Cost effective**
  attractively priced and it uses very low air consumption
- **Innovative solution for lowest operation cost**
- **Push button mechanism for easy locking and unlocking from housings**
- **The jet plate is locked in its slider without any tools**
- **Modern carbon fibre reinforced housing provides excellent product life**
- **The ceramic surfaces provide gentle yarn treatment**
- **Simple to maintain and clean.**

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Saurer Components, Switzerland
becomes
HEBERLEIN AG

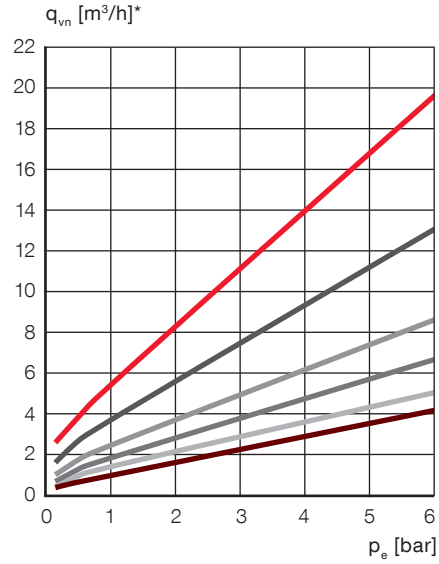
Heberlein® SwissJet

Performance characteristics

Special remarks	Jet insert	Count range [dtex] (den = 0.9 dtex)	Air usage [m³/h][1]
- Regular interlacing - High interlacing density - Reduced air consumption by means of Air Twist Chamber (ATC)	S1		0.562 (p_e+1)
	S2		0.712 (p_e+1)
	S3		0.911 (p_e+1)
Less frequent but long interlacing zones, high stability, flexible application.	S12		0.911 (p_e+1)
	S13		1.189 (p_e+1)
	S16		1.859 (p_e+1)
	S18		2.772 (p_e+1)

[1] Formula applies from 0.8 bar, p_e = pressure [bar].

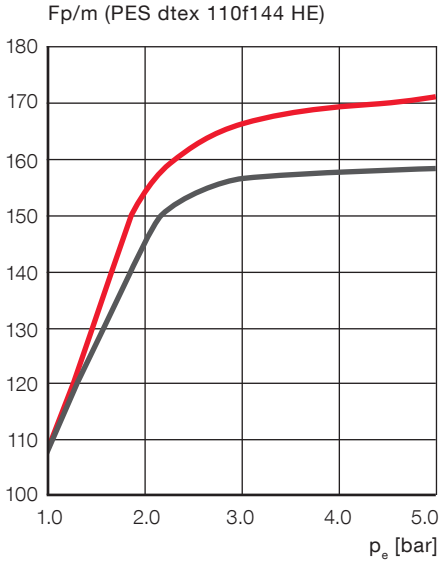
Air consumption



S18
S16
S13
S12, S3
S2
S1

* Under standard conditions according to DIN 1343: Temperature = 0 °C, pressure = 1.01325 bar, relative humidity = 0 % (1 standard cubic metre = 1.293 kg). Losses in the compressed air system have not been considered.

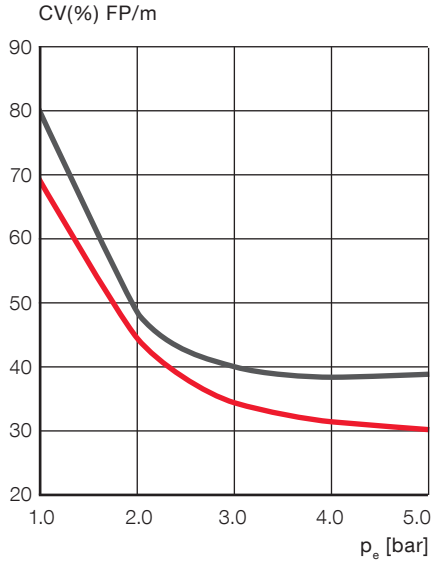
Interlacing density



SwissJet S1
Competitors

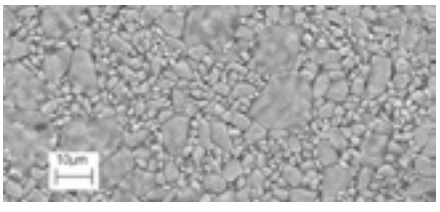
p_e = gauge pressure [bar]
q_{vn} = air consumption [m³/h]*
psi = 14.7 x bar
CFM = 0.588 x m³/h

Coefficient of variation

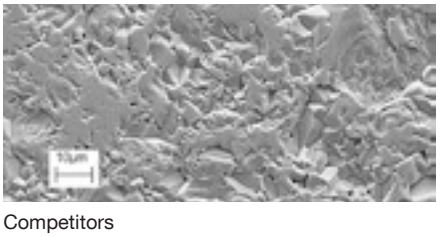


SwissJet
Competitors

Surface quality (yarn channel)



SwissJet



Competitors

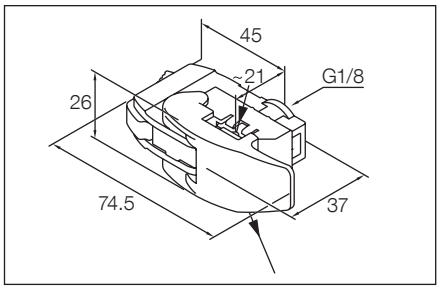
Compressed air requirements

Air pressure (gauge): max. 6 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
  - Dew point + 7 °C

* According to DIN ISO 8573-1

Dimensions and weight



SwissJet: Weight 49 g (without nipple and connector), dimensions in mm