FACTSHEET

SwissJet.

DTY false-twist texturing

HEBERLEIN®
TECHNOLOGY FOR PROFESSIONALS
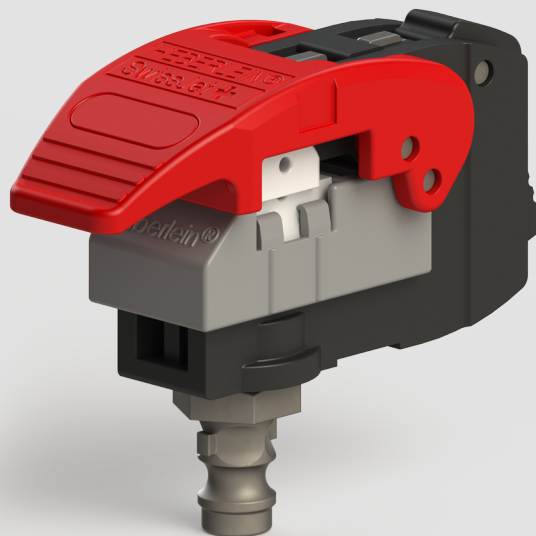
HEBERLEIN® SwissJet.

High-quality, cost-effective interlacing

The SwissJet is designed for the effective interlacing of multifilament yarns during false-twist texturing.
The jet has a housing that is specially reinforced with carbon fibres which give it particularly great strength during operation, a long life, and a very low weight. Various jet inserts are available for the different yarn types.

SwissJet

Air interlacing

In air interlacing, an air blast is used to mechanically join individual yarns to each other. The resulting interlacing knots provide the required yarn compactness. This allows higher processing speeds, resulting in improved package build and a reduced number of filament and yarn breaks during subsequent processes.

Assortment

Series S1, S2, and S3 with the patented ATC (air twist chamber) for yarns of up to 240 dtex. Very regular interlacing with a maximum of interlacing knots up to speeds of 1,200 m/min.

S12, S13, S16, and S18 with vortex chamber for a limited number of interlacing knots while retaining high stability.

Features and Benefits

- All jet inserts with low air consumption
- The innovative solution for low operating costs
- Pushbutton mechanism for easy housing locking and unlocking
- The jet plate is locked in its slider without any tools

- Modern carbon fibre reinforced housing provides a long product service life
- The ceramic surfaces provide gentle yarn treatment
- Easy maintenance and cleaning

HEBERLEIN® SwissJet.

Technical Data

Performance values

Jet insert	Air consumption [1] q_{vn} [m³/h]	Special features
S1	$0.562 (p_e + 1)$	- Regular interlacing
S2	$0.712 (p_e + 1)$	- High interlacing density
S3	$0.911 (p_e + 1)$	- Reduced air consumption due to air twist chamber (ATC)
S12	$0.911 (p_e + 1)$	Less frequent but longer interlacing knots, high stability, flexible application.
S13	$1.189 (p_e + 1)$	
S16	$1.859 (p_e + 1)$	
S18	$2.772 (p_e + 1)$	

1   Under standard conditions according to DIN 1343: temperature = 0 °C, pressure = 1.01325 bar, relative humidity = 0 %,
1 standard cubic metre = 1.293 kg (psi = 14.7 x bar, CFM = 0.588 x m³/h) p_e = overpressure [bar], q_{vn} = air consumption [m³/h]
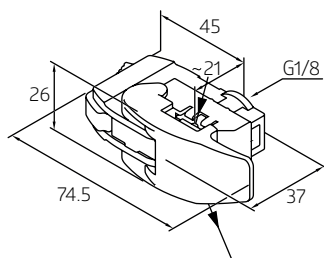
Count range

Jet insert	Count range [1] [dtex] (den = 0.9 dtex)															
S1	■	■	□													
S2		□	■	□												
S3			□	■	□											
S12				■	■	□										
S13				□	■	■	□									
S16						□	■	■	■	■	□					
S18										□	□	■	■	□		
	50	78	110	167	240	330		450	660		800		990	1200		

1   Guide values: depends on the properties of the yarn, the machine settings, and the yarn guides (the = 0.9 x dtex)

■ = Typical applications

□ = Threshold

Dimensions and weight

SwissJet: weight 58 g (without nipple and connector),
dimensions in mm

Compressed air requirements

- Overpressure: 0.5 ... 6.0 bar
- Max. residual oil: 0.1 mg/m^3 (class 2*)
- Max. residual particles: (class 2*)
    - Particle size 1 µm
    - Particle density 1 mg/m^3
- Max. residual water: (class 5*)
    - Residual water: 7,732 g/m^3
    - Pressure dew point + 7 °C

* Quality class according to DIN ISO 8573-1