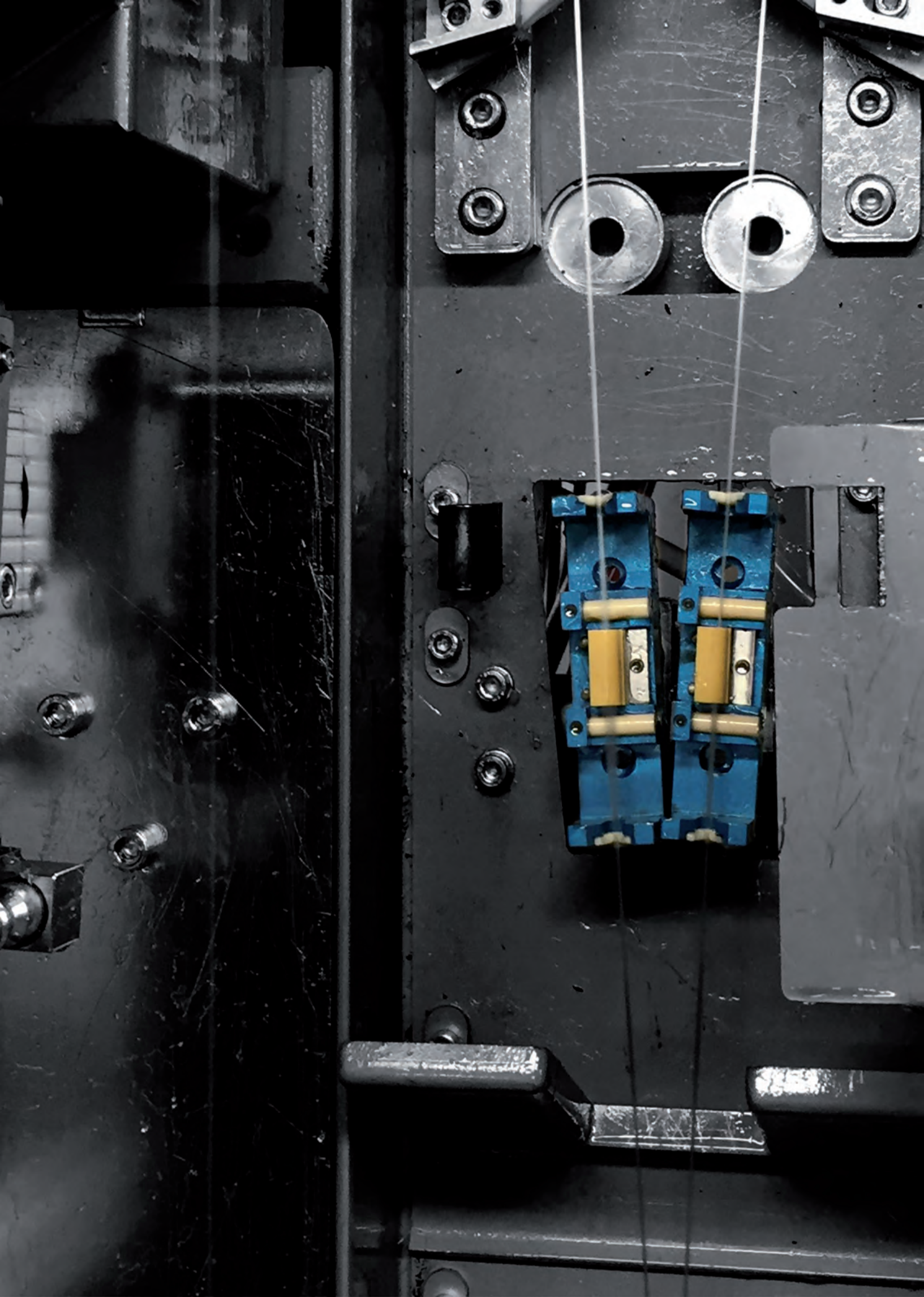




# Interlacing Jets

for BCF applications





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# RPE technologies

## innovative and customized solutions

### **business concept**

RPE provides customers with interlacing jets throughout the entire area of the synthetic fibre industry and has established itself as a reliable partner for both O.E.M.'s (Original Equipment Manufacturer), who use the components in their machines, as well as end users that convert with the machines. Our products are suitable for all kind of chemical fibres and yarns, meeting all requirements of interlacing quality and leading to excellent interlacing performance.

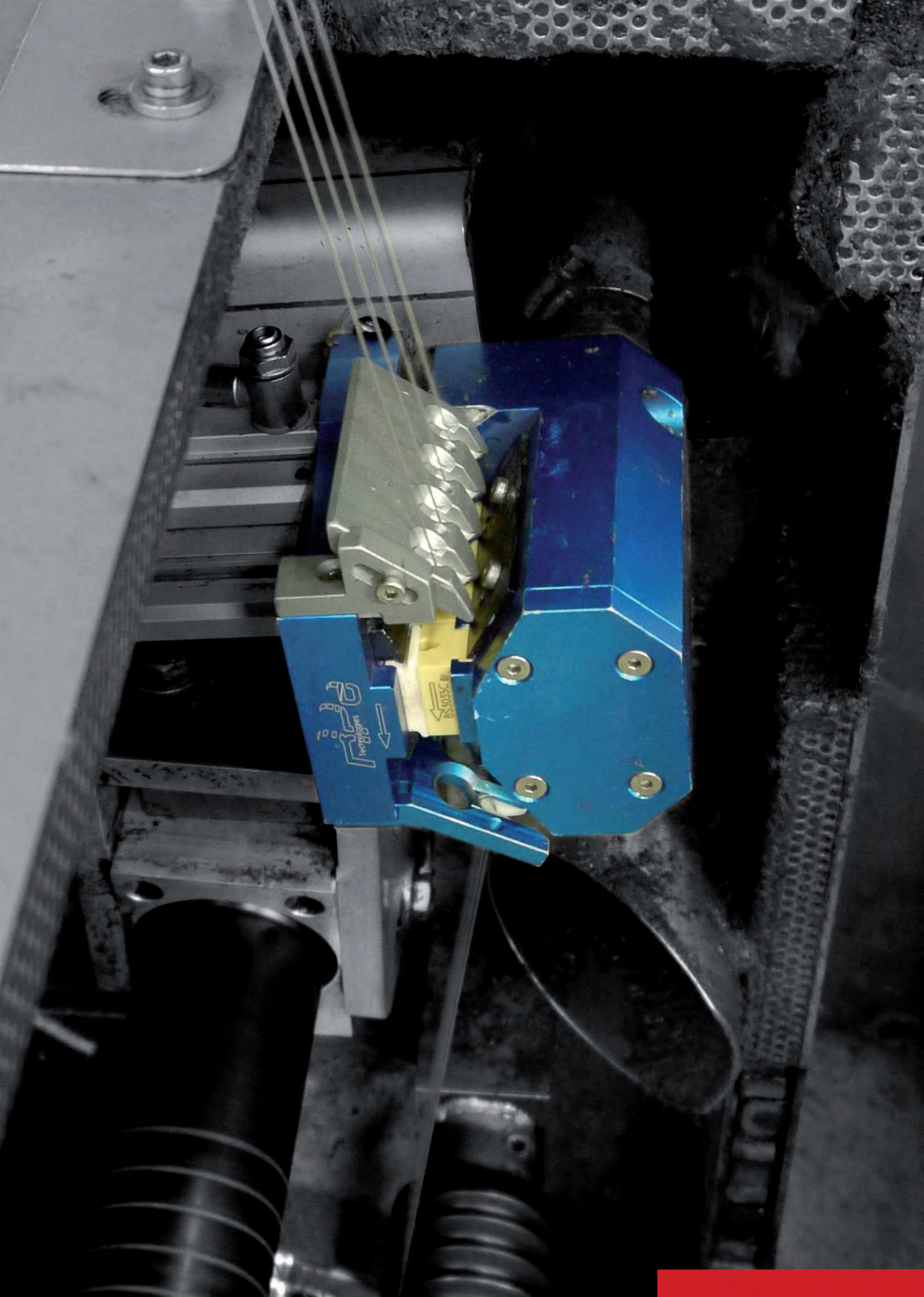
### **philosophy**

What really defines RPE is our aspiration for finding new innovative and intelligent solutions as well as our unconditional consumer orientation.

Exemplarily for our high level of innovation stands the modular structure, that characterizes all our products. The different creative designs allow an easy and quick exchange of the jet inserts in a few steps using standard tools or even no tools at all. This provides several advantages. It enables easy cleaning and maintenance of jet parts, quick changeover of the machine for processes with different titer ranges and leads to longer service life.

Customer satisfaction is one of the main objectives of our company's philosophy and a key to our success. Our consumer orientation is characterized by excellent customer service and after sales support. What really sets us apart is the absolute willingness to fulfil individual preferences and special requirements with customized solutions.

**RPE develops and designs high quality products that are made in Germany. Our customers can trust German quality standards.**



# BCF interlacing jets

RPE offers the whole range of BCF interlacing jets that are used for carpet yarns in BCF spinning processes to meet all requirements of interlacing performance.

The designs are changeable to satisfy customer requirements according to yarn path, machine adaptation and air supply. The jets are available in single or tandem version, with or without integrated air stop.



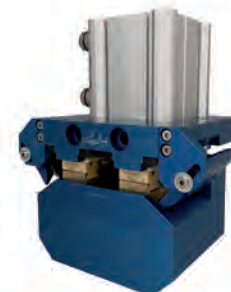
**BCF-05-A-2L**  
2-thread single BCF jet



**BCFT-04-5A-2L**  
2-thread tandem BCF jet



**BCF-4250C-A-3L**  
3-thread single BCF jet



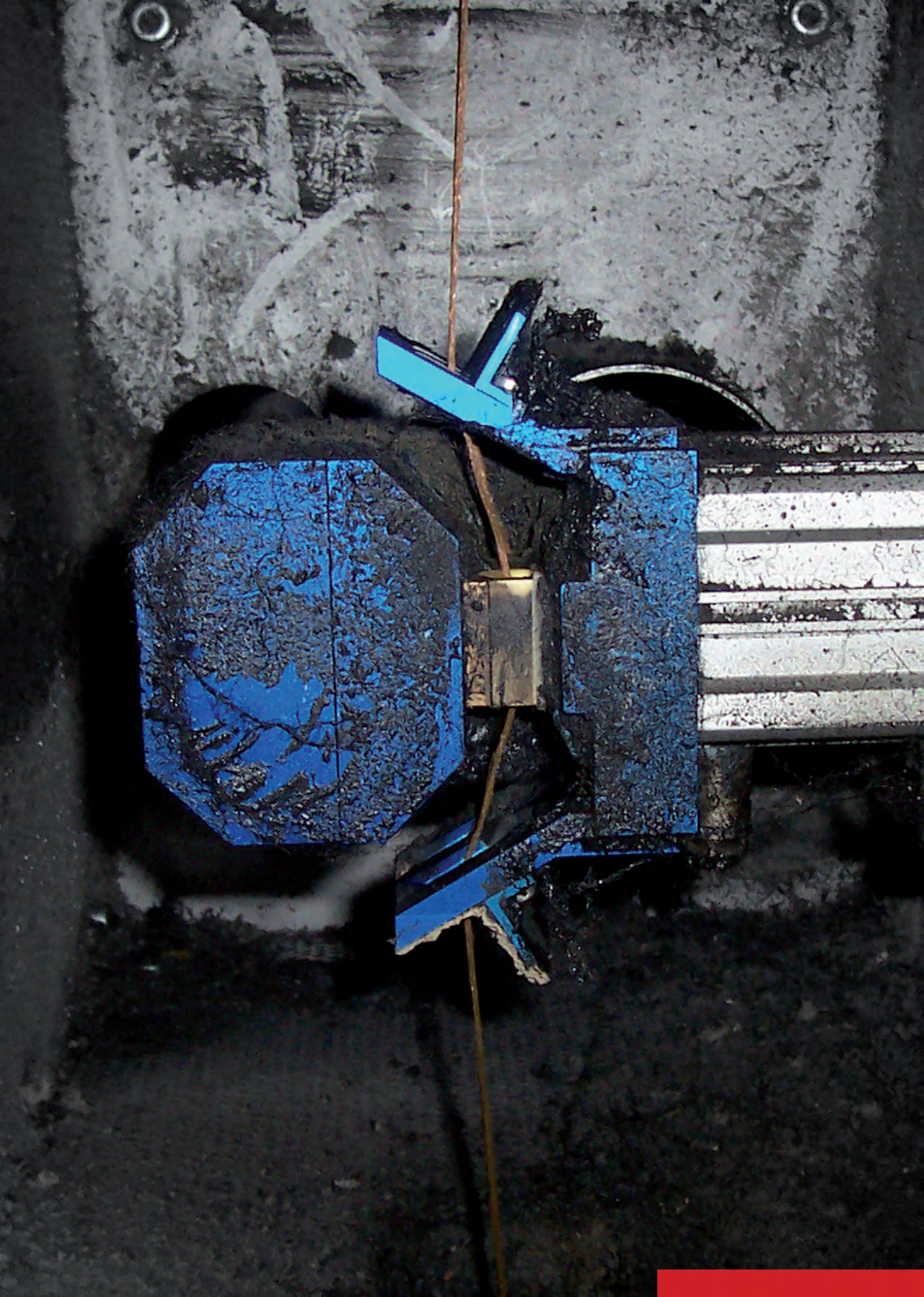
**BCFT-03-A-3L**  
3-thread tandem BCF jet



**BCFT-03-4L**  
4-thread tandem BCF jet, open

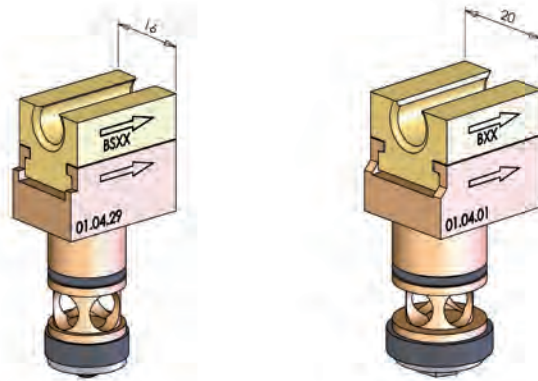


**BCFT-03-4L**  
4-thread tandem BCF jet, closed



# BCF jet inserts

RPE offers the complete range of jet inserts for any requirements on interlacing performance. The jet inserts are characterized by an easy exchange without tools for cleaning, maintenance and lot change.



All the jet inserts are available in 20mm (e.g. BXX) as well as 16mm (e.g. BSXX) yarn end separation. Customized solutions with different yarn end separations according to special requirements are possible any time.



## IN.B(S)XX

The IN.B(S)XX designates the complete jet insert including the air stop. After installation only the ceramic part has to be exchanged.



## B(S)XX

The B(S)XX inserts are designed with the conventional channel geometry and suitable for all standard requirements.



## B(S)XXXXC

The B(S)XXXXC inserts are the so called "intermedia sizes" with the curved channel geometry for high speed applications.



Jet Type (16mm)		Jet Type (20mm)		Titer Range up to (dtex)*	Air Consumption per Jet Insert [Nm <sup>3</sup> /h]
BSXX	BSXXXXC	BXX	BXXXXC		
BS01	-	B01	-	~ 800	2,68 * (p+1,013)
BS02	BS3035C	B02	B3035C	~ 1200	4,05 * (p+1,013)
BS03	BS3542C	B03	B3542C	~ 1800	5,70 * (p+1,013)
BS04	BS4250C	B04	B4250C	~ 2800	8,01 * (p+1,013)
BS05	BS4860C	B05	B4860C	~ 4200	10,72 * (p+1,013)
-	BS5570C	-	B5570C	~ 5800	14,07 * (p+1,013)
-	-	B06/2	-	~ 6500	17,88 * (p+1,013)

\* The dtex ranges as shown are an indication of the possible field of application. Most important for the right choice of insert size is the specific required interlace performance.

p = air pressure in bar

## Blind Inserts



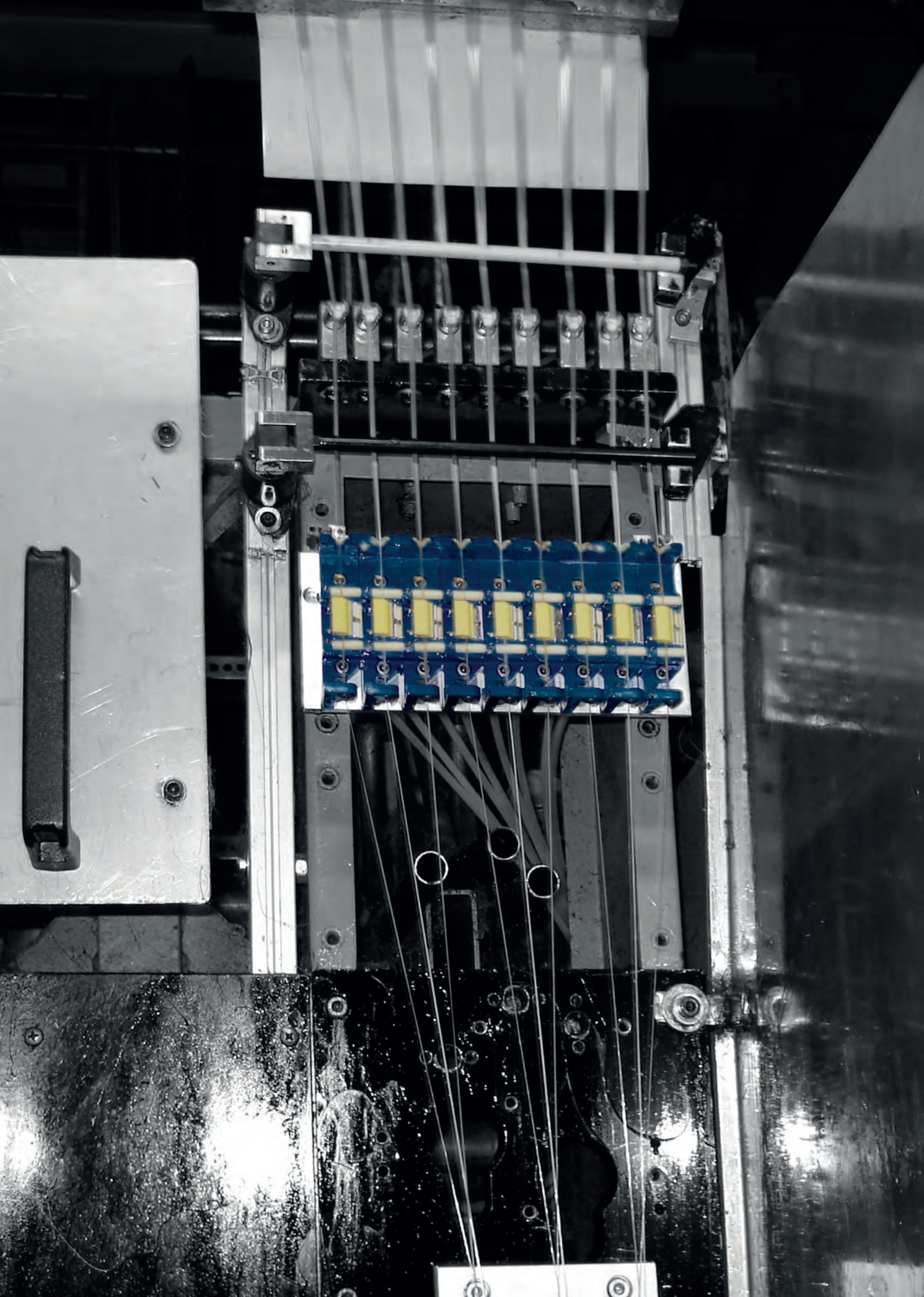
### B(S)00F

The B(S)00F insert is a blind insert with a guiding channel to use a tandem BCF jet as a single jet.



### B(S)00

The B(S)00 is a blind insert to block one thread.



# BCF pre-interlacing and migration jets

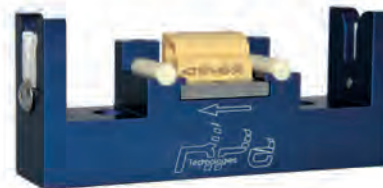
The SPI jets are most suitable for migration and pre-interlacing applications in BCF spinning processes.

RPE offers two types of SPI interlacing jets (A- and B-Version) with different design to guarantee optimal results regarding the specific requirements of individual assembly situations and process flows. In this context our customers are advised by experts that have long experience regarding the choice of SPI versions.

**The design of the SPI jet enables also multi thread jets for all conceivable number of thread lines and yarn end separations.**



**SPI-35-50-1-11-A**  
SPI jet, A-type

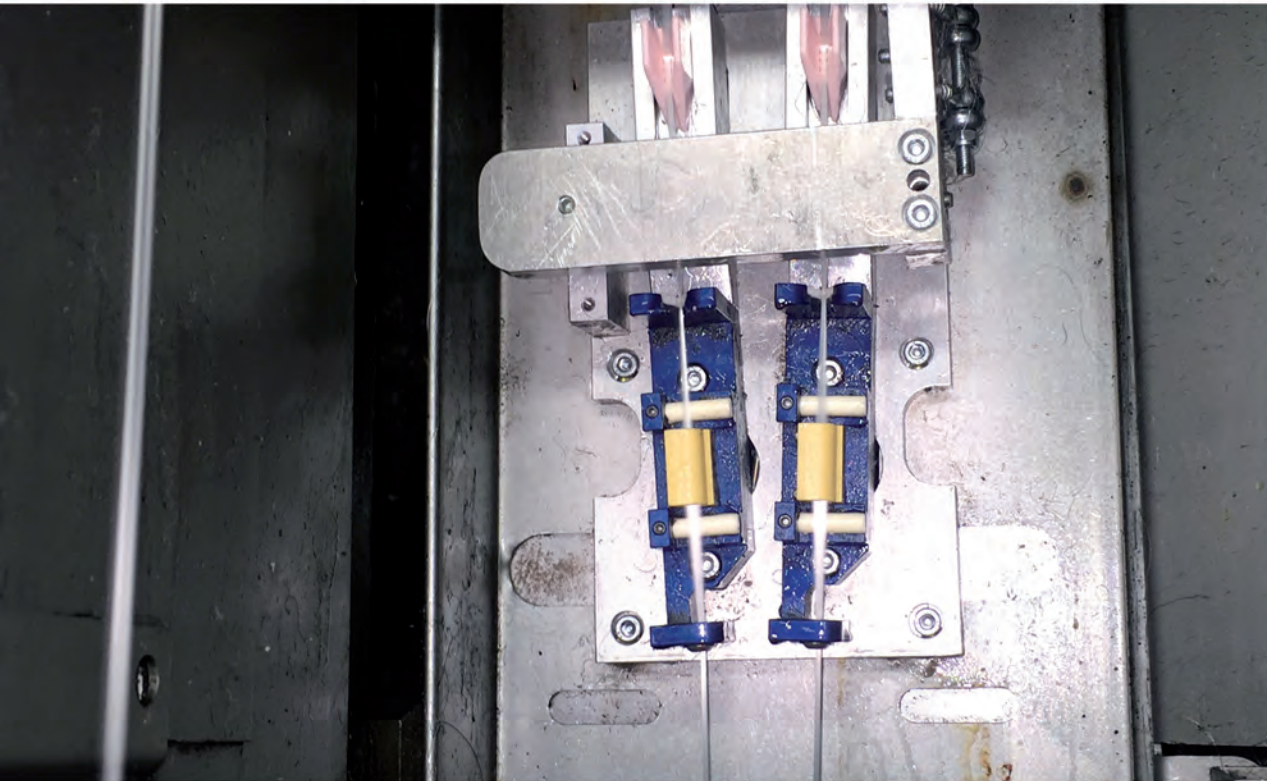


**SPI-40-58-1-11-B**  
SPI jet, B-type

Jet Type	Titer Range [dtex]*	Air Consumption per Jet Insert [Nm <sup>3</sup> /h]
SPI-20-29	200 – 400	1,86 * (p+1)
SPI-23-33	300 – 900	2,46 * (p+1)
SPI-30-42	500 – 1200	4,19 * (p+1)
SPI-35-50	700 – 1800	5,70 * (p+1)
SPI-40-58	1000 – 3200	7,44 * (p+1)

\* The dtex ranges as shown are an indication of the possible field of application. Most important for the right choice of Insert size is the specific required interlace performance.

p = air pressure in bar

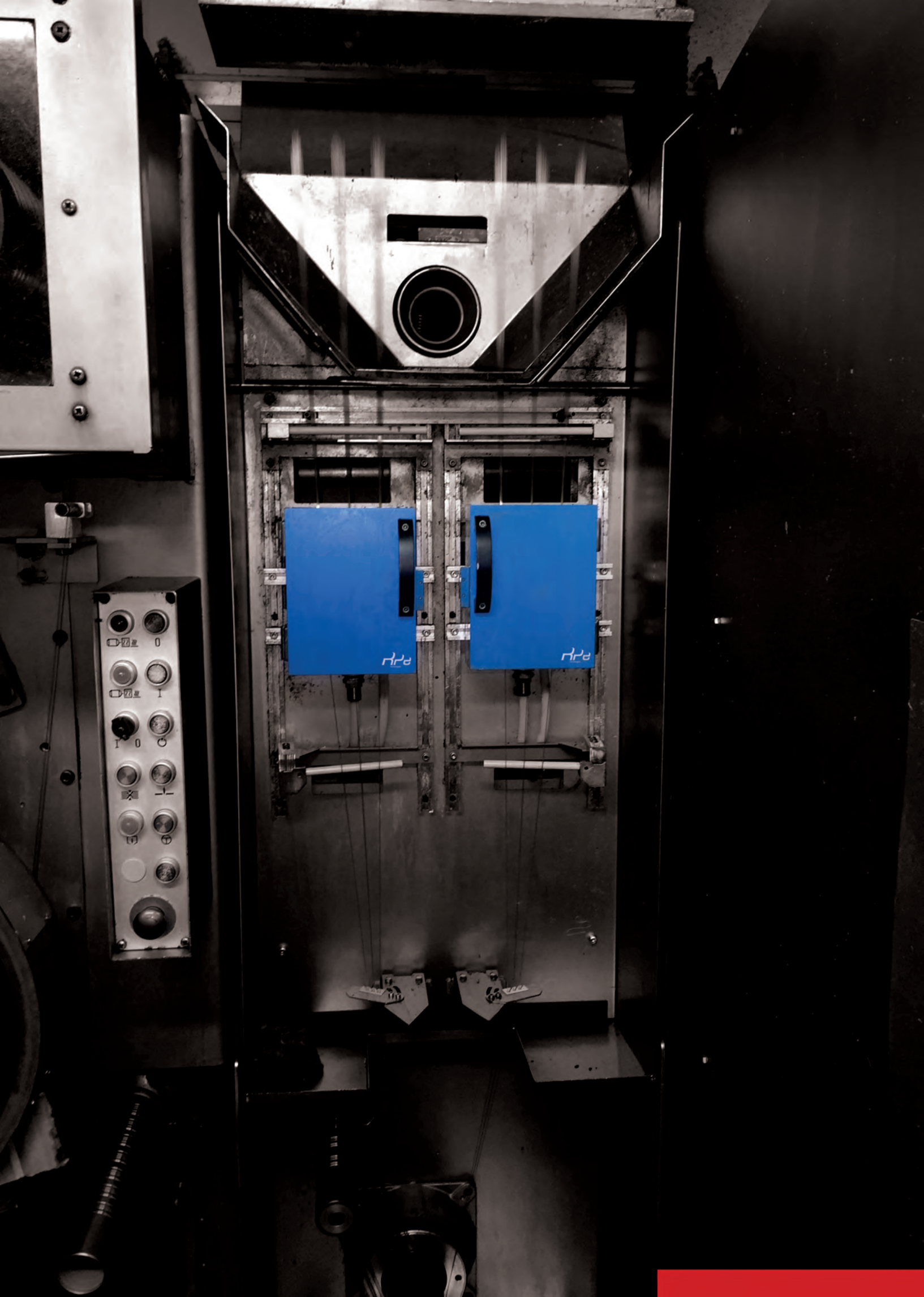


## Oil Intermingling Units

The Oil Intermingling Units include the applicator guides and pre-intermingling jets in one compact unit but separated from each other.

The accurate and fixed yarn path guarantees uniform oil distribution and yarn tension level for each thread.

Sizes of applicator guides and pre-interlacing jets can be used independently from each other according to specific requirements.



Control panel with various knobs and switches:

- Top row: Two knobs, labeled "0" and "1".
- Second row: Two knobs, labeled "0" and "1".
- Third row: A large knob labeled "0", and a smaller knob labeled "0".
- Fourth row: Two knobs, labeled "0" and "0".
- Fifth row: Two knobs, labeled "0" and "0".
- Sixth row: Two knobs, labeled "0" and "0".
- Bottom row: A large knob labeled "0".

Two blue rectangular modules with handles and labels:

- Left module: Labeled "RFD".
- Right module: Labeled "RFD".

Large inverted triangular structure with a circular opening:

- Central circular opening.
- Structural ribs and mounting points.

# Features and Advantages



- excellent interlacing performance, meeting all existing requirements of interlacing quality
- lowest possible air consumption and energy cost for different levels of interlacing requirements
- easy and safe handling for the threading process
- quick exchange of jet inserts for cleaning and maintaining
- uniformity of each thread for highest efficiency in the downstream process





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