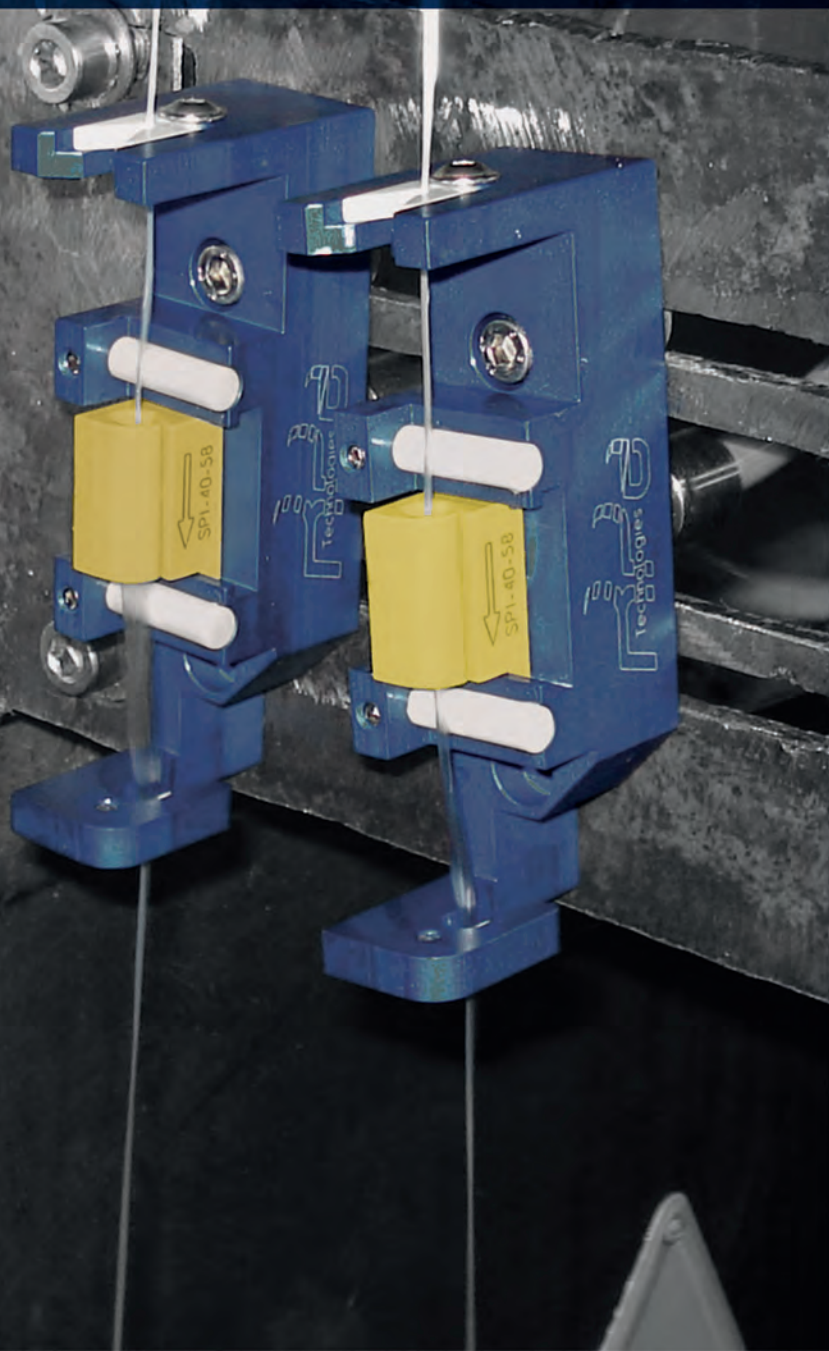
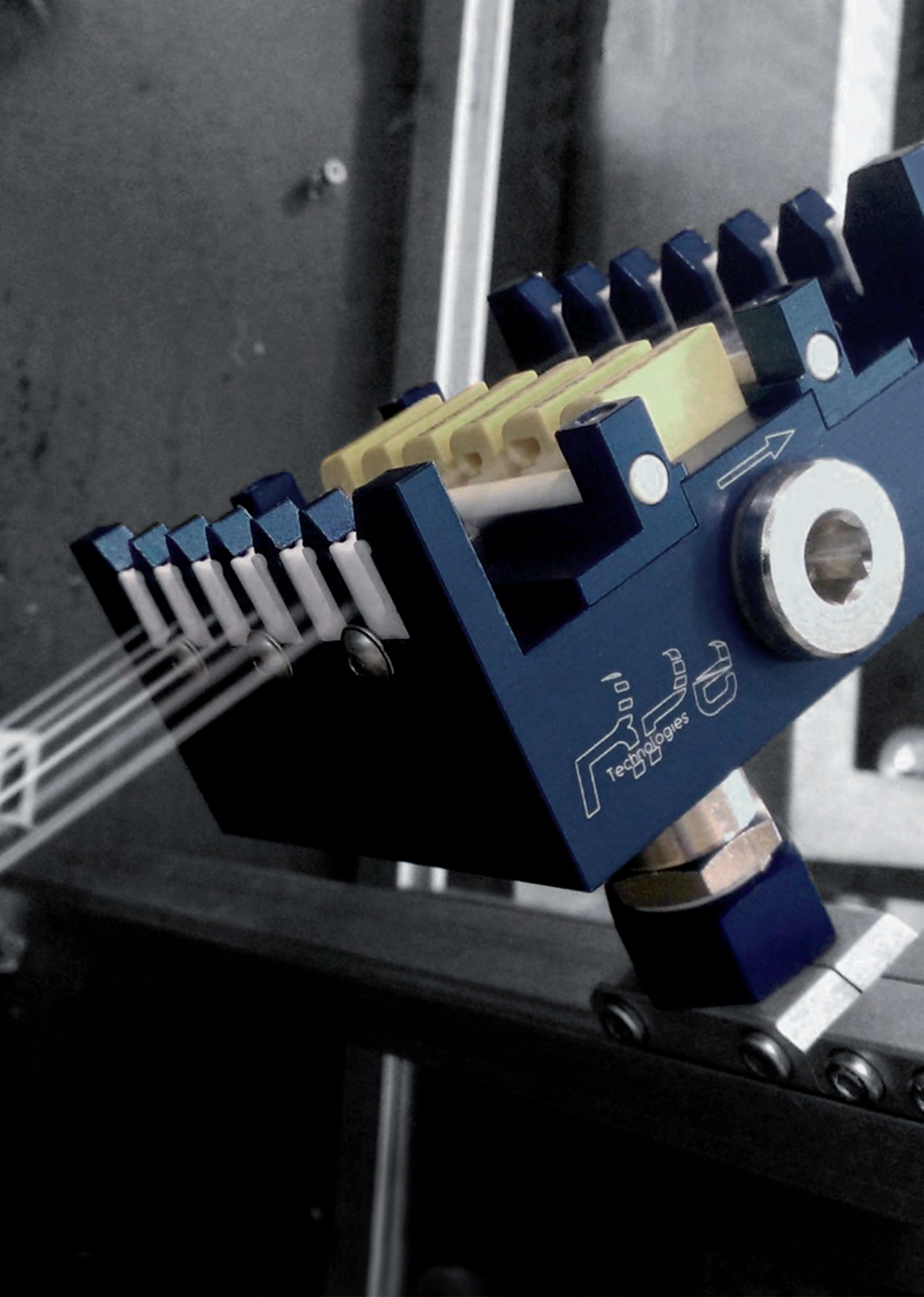


Interlacing Jets

for IDY, FDY and POY
spinning processes





Technologies



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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.

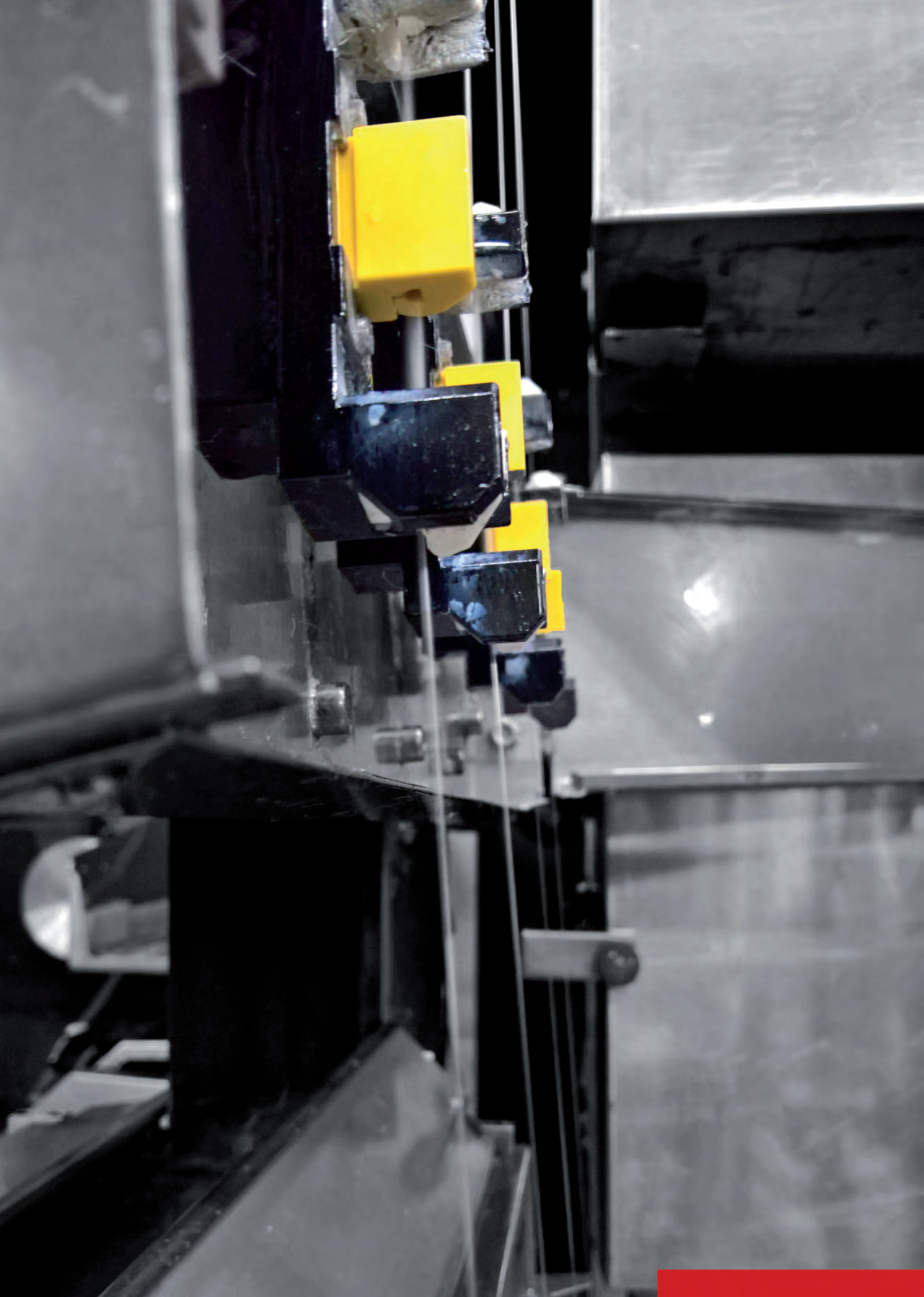
philosophy

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.



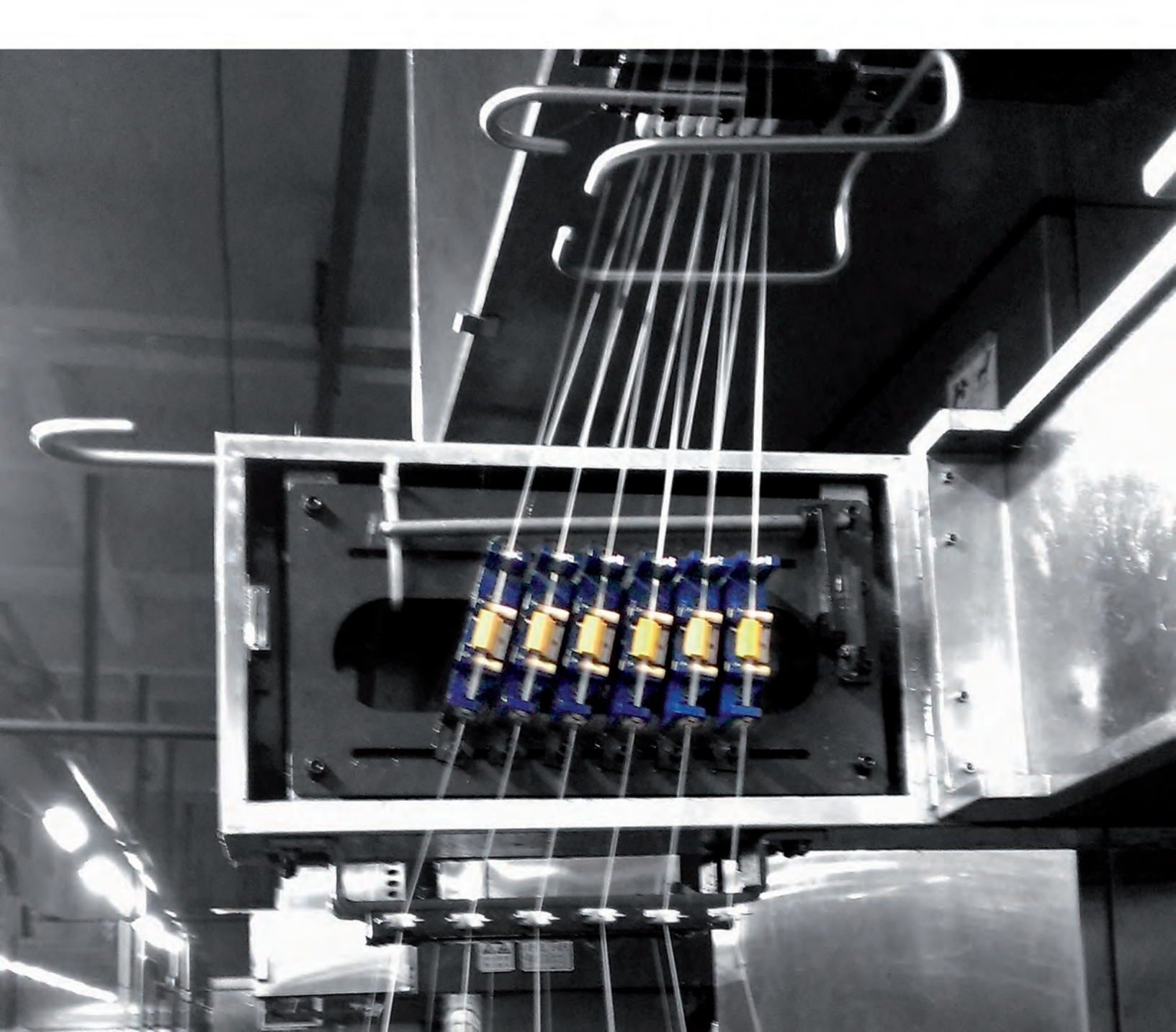
SPI interlacing jets for IDY spinning processes

SPI technology

The SPI jet has been developed for high performance interlacing applications of IDY filament yarns made of polyester, polyamide as well as polypropylene.

The easy quick exchange system of the jet inserts allows a simple and safe maintenance.

The sophisticated geometry and surface character within the interlacing zone guarantee an excellent interlacing performance concerning the high requirement of the composed knot regularity.



SPI jets



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



SPI-40-58-4-11-01
4-thread SPI jet

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

Jet Type	Titer Range [dtex]*	Air Consumption per Jet Insert [Nm ³ /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)
SPI-45-67	1800 – 4800	9,42 * (p+1)
SPI-55-67	2600 – 6000	14,07 * (p+1)
SPI-65-85	> 6000	19,65 * (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

SPS interlacing jets for IDY spinning processes

The SPS jet is made for interlacing applications of all kind of IDY filament yarns in spin-draw processes.

Due to the advanced geometry within the interlacing zone and the unique yarn guiding system, the SPS jet is most suitable for sensitive yarn applications such as SLS-, airbag- as well as seat belt yarns, especially concerning filament deteriorations.

SPS jets, single + tandem



SPS-40-48Y-1-11-02
single SPS jet

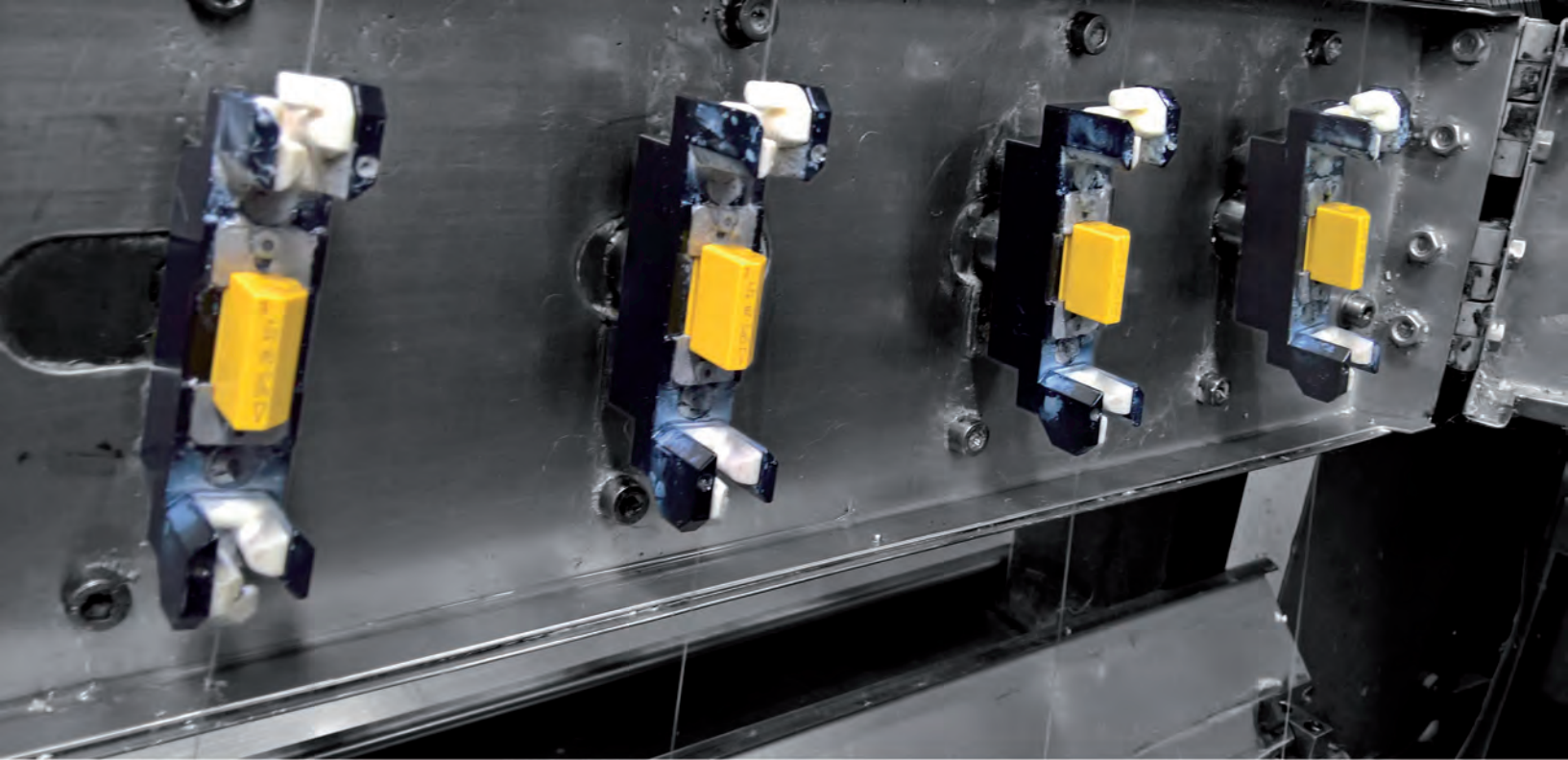


SPST-23-32Y-1-11
tandem SPS jet

Jet Type	Titer Range [dtex] *	Air Consumption per thread, single [Nm ³ /h]	Air Consumption per thread, tandem [Nm ³ /h]
SPS-23-32Y	300 – 800	2,46 * (p+1)	4,92 * (p+1)
SPS-28-32Y	500 – 1200	3,65 * (p+1)	7,30 * (p+1)
SPS-35-48Y	800 – 1800	5,70 * (p+1)	11,40 * (p+1)
SPS-40-48Y	1000 – 3000	7,44 * (p+1)	14,88 * (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



SPS jet, e-type

The SPS e-type is used in IDY spinning processes and suitable for all kind of technical filament yarns to meet standard requirements of interlacing quality.



SPS-E01-1-11-02
SPS jet, e-type

Jet Type	Titer Range [dtex] *	Air Consumption per Jet Insert [Nm ³ /h]
SPS-E01	200 – 900	3,65 * (p+1)
SPS-E02	500 – 1800	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

SPF interlacing jets for FDY spinning processes

SPF technology

The SPF jet has been developed for high performance interlacing applications for all kind of fine synthetic filament yarns.

The design enables the application of single jets, as well as multi thread jets, to all conceivable numbers of thread lines and yarn end separations.

The easy quick exchange system of the jet inserts allows a simple and safe maintenance.

The sophisticated geometry and surface character within the interlacing zone guarantee an excellent interlacing performance concerning the high requirement of the composed knot regularity.

SPF jets, single + twin



SPF-11-14Y-1-12-00
single SPF jet

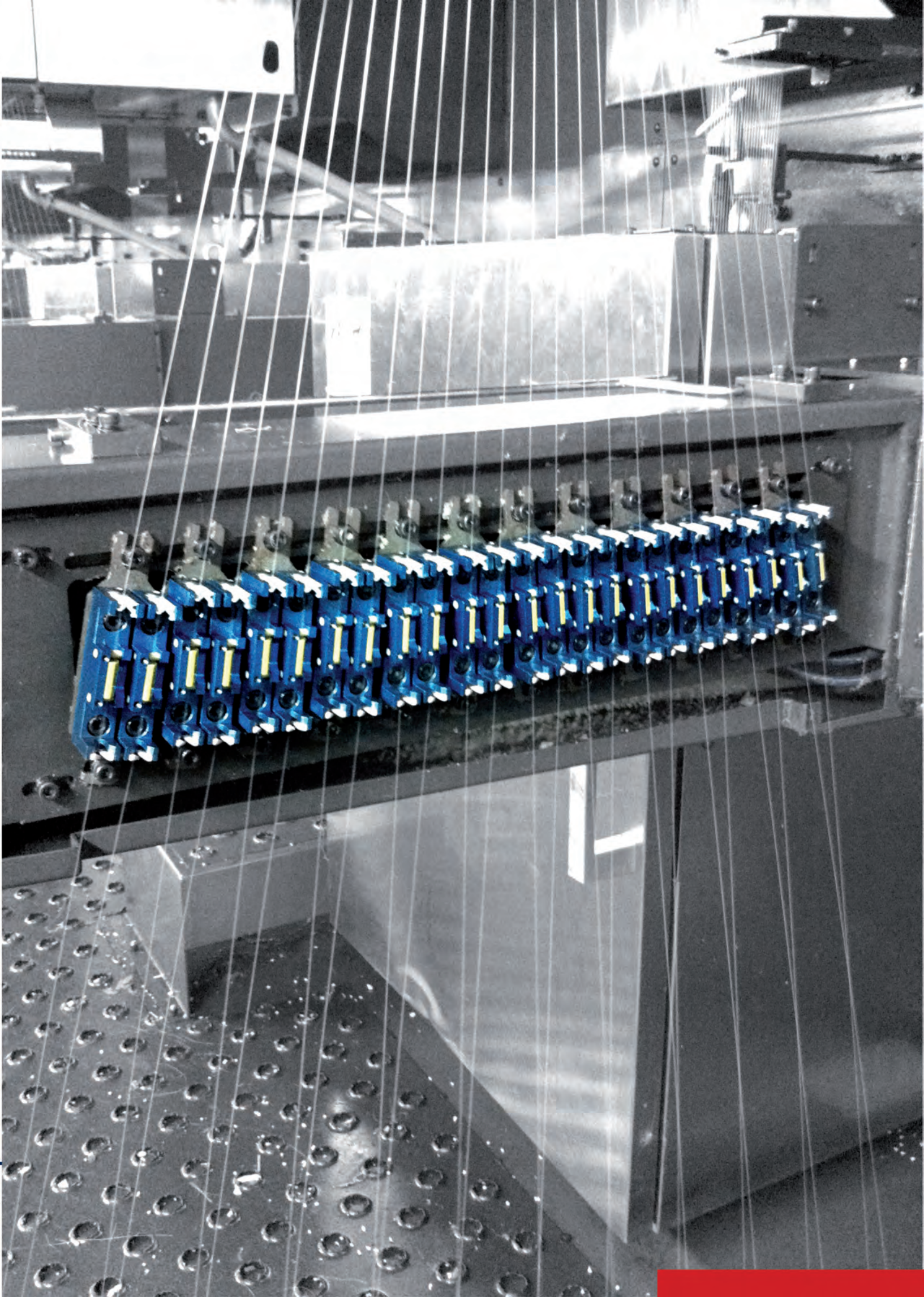


SPF-11-15-2-12-00
twin SPF jet

SPF standard	SPF Y-Type	Titer Range for FDY up to [dtex] *	Titer Range for POY up to [dtex] *	Air Consumption per Jet Insert [Nm ³ /h]
-	SPF-09-14Y	~ 50	~ 150	0,38 * (p+1)
SPF-11-15	SPF-11-14Y	~ 70	~ 290	0,56 * (p+1)
SPF-13-17	SPF-13-17Y	~ 150	~ 450	0,79 * (p+1)
SPF-16-20	SPF-16-21Y	~ 330	~ 600	1,19 * (p+1)
SPF-20-29	-	~ 660	-	1,86 * (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



SPC interlacing jets for POY spinning processes

SPC technology

The SPC jet is constructed for high performance interlacing applications of textile filament yarns in POY spinning processes.

The design of the SPC jets is reduced to the essentials, enabling its use as single as well as multi thread jets for all conceivable numbers of threads and yarn end separations.

The unique yarn guiding system and the sophisticated geometry within the interlacing zone ensure an excellent interlacing performance.

The SPC jets are also used for pre-interlacing as well as migration applications in FDY spinning processes.

SPC jet



SPC-E01-1-11-00
SPC jet

Jet Type	Titer Range for POY up to [dtex]*	Air Consumption per Jet Insert [Nm ³ /h]
SPC-E01	~ 300	0,79 * (p+1)
SPC-E02	~ 600	1,34 * (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



SPO block jets

The SPO block jets are based on the approved and established SPF jet technology.

The design has been made in accordance to the new developments in textile spinning machinery, enabling its use as multi thread jets for all conceivable number of threads and yarn end separations.

The SPO block jets are equipped with a threading device for easy and safe threading. The shape of the jet inserts allows smooth threading without the yarn being pushed into the jet insert channel.

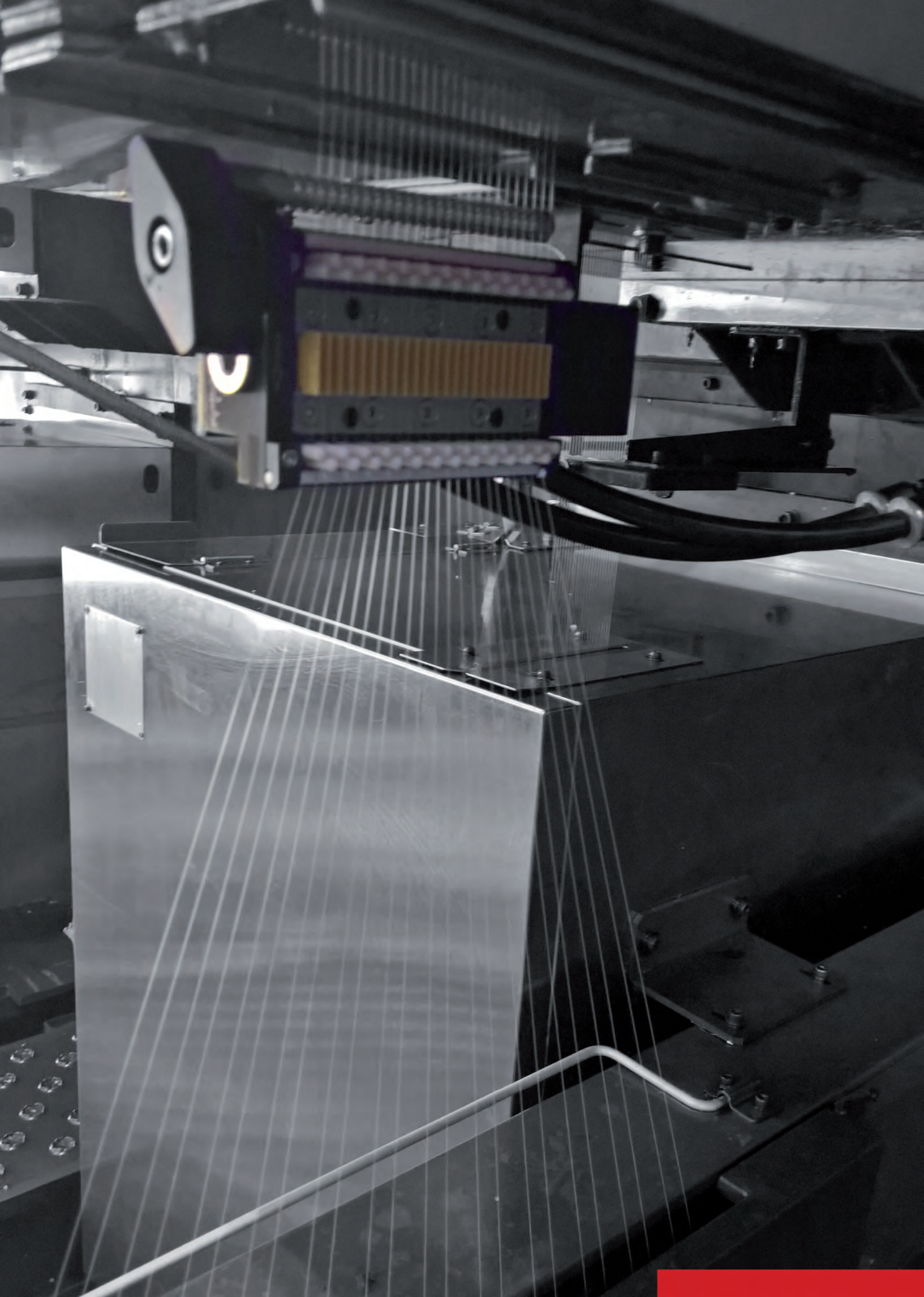
The sophisticated geometry and surface character within the interlacing zone guarantee an excellent interlacing performance concerning the high requirement of the composed knot regularity.

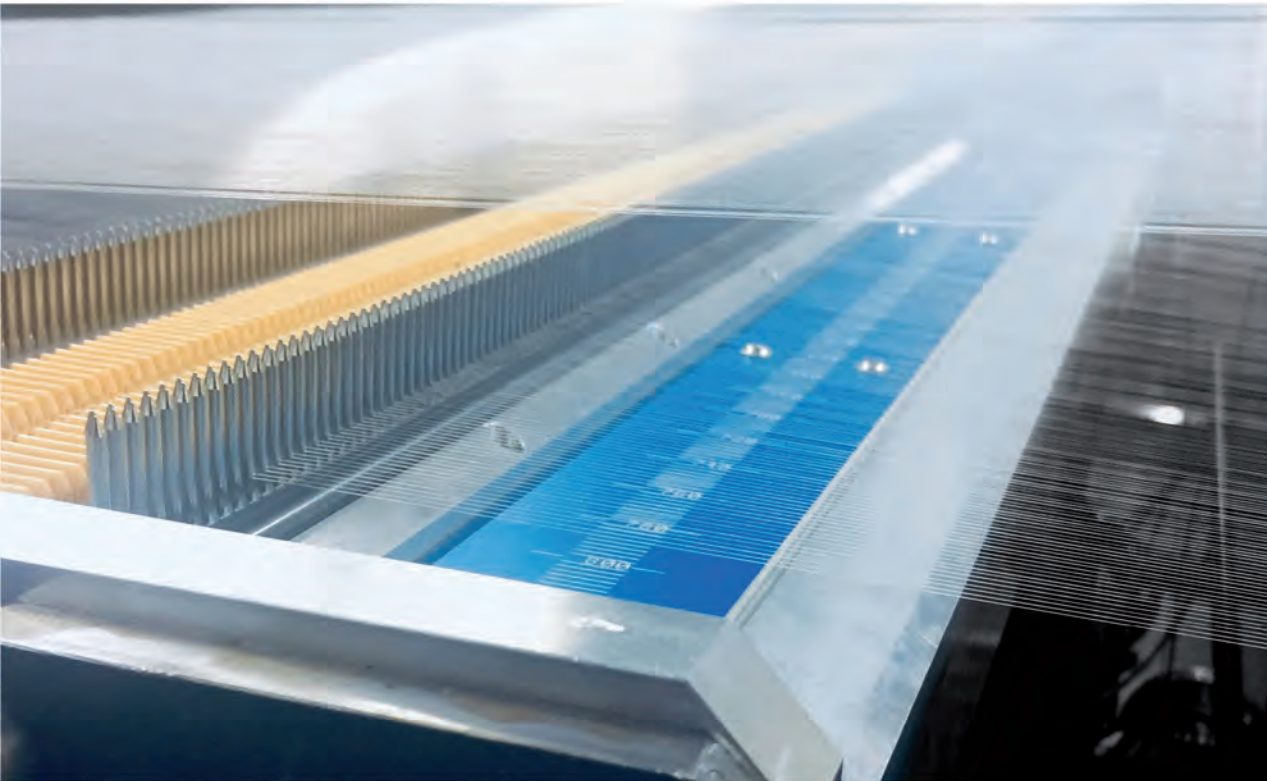


SPO-XX-XX-24-11-01
24-thread SPO jet



SPO-XX-XX-32-11-01
32-thread SPO jet





SPF jet reed system

The SPF jet reed system is made for warping and draw warping machines that process POY polyester and POY polyamide, as well as FDY filament yarns.

The main advantage of the design is the arrangement of the threads on one level, which ensures a consistent interlacing due to the uniform setting of tensions all over the threads.

The SPF interlacing technology ensures the highest requirement in uniformity of each thread for achieving the uppermost efficiency in the downstream process.

Besides excellent interlacing performance, we have attached great importance to safe and easy handling of the threading and cleaning procedures.

A yarn end separation of 1.1 mm can be realized due to the sophisticated arrangement of the jet inserts. Furthermore, the design enables jets of various sizes and interlacing character to be exchanged according to customer requirements.

The new design includes a fully automatic system for closing the individual jet positions, which guarantees quick, safe and very comfortable handling for any operator and ensures lowest possible air consumption and energy cost.



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





RPE TECHNOLOGIES GMBH

Sieboldstraße 7
97688 Bad Kissingen

Phone +49 971 785 72-94
Fax +49 971 699 1728
Mail service@rpetec.de

www.rpetec.de