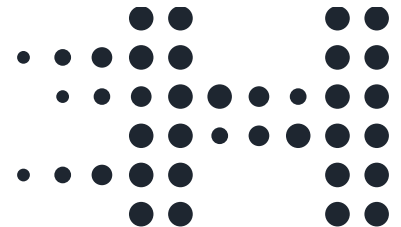


# Welcome

## SWISSMEN SYMPOSIUM

Heberlein AG



Autor Martin Toti  
Datum April, 2016

HEBERLEIN AG, SWITZERLAND



# Agenda

- |   |          |                                      |
|---|----------|--------------------------------------|
| 1 | Agenda 1 | <b>Company overview</b>              |
| 2 | Agenda 2 | <b>Product range</b>                 |
| 3 | Agenda 3 | <b>Heberlein Jets and Components</b> |
| 4 | Agenda 4 | <b>Local contact and consulting</b>  |



# Heberlein AG - Mastering Fibers

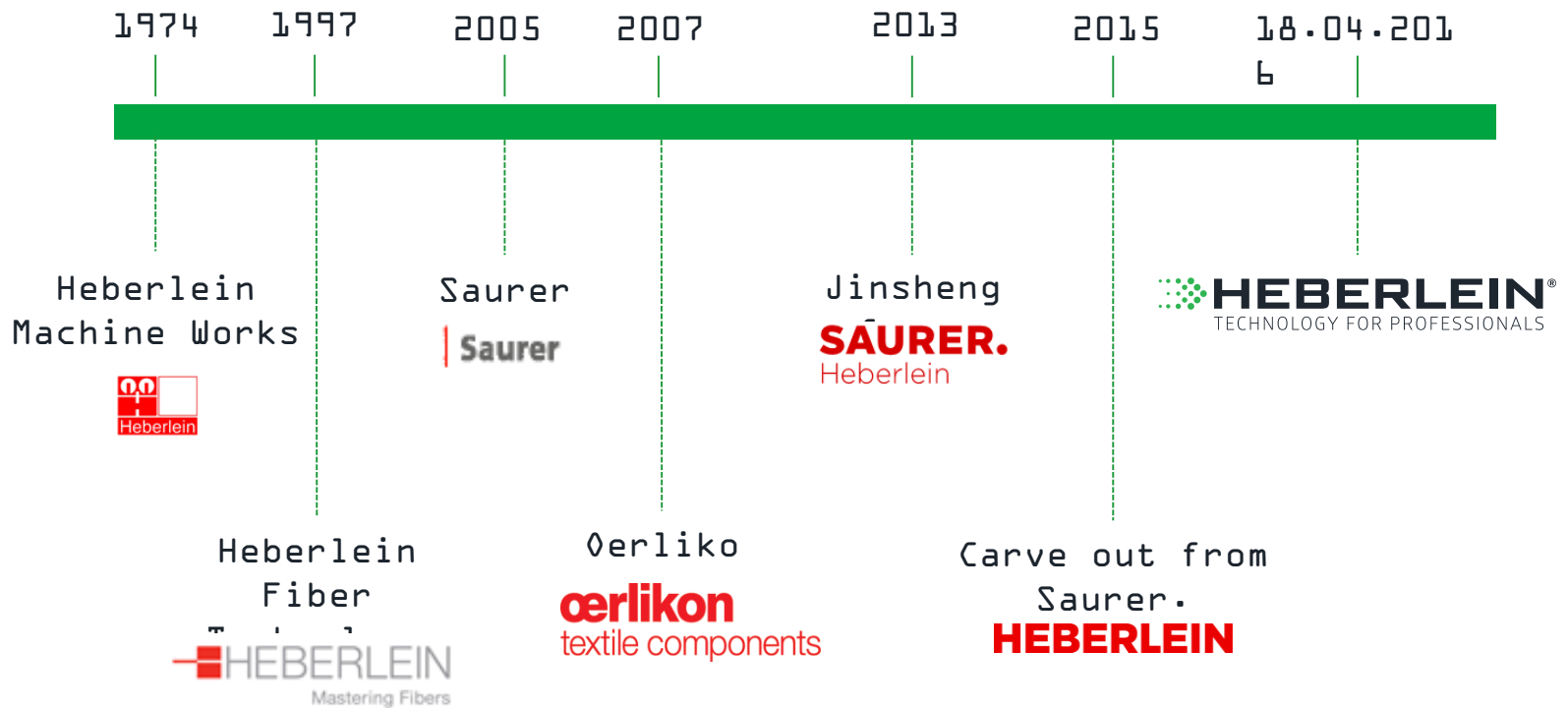
- Wattwil, located in Switzerland.
- Heberlein AG is a company which emerged from the Heberlein yarn dye works, founded in 1835.
- These days Heberlein® air jets stand for market leadership in:
  - migration and interlacing
  - air texturing
 for synthetic continuous filament yarns.





# History of Growth

swiss made. 1835.





# Jinsheng Group

swiss made. 1835.



EMAG  
CNC  
Machine  
Tools

KOEPFER  
Gears

Saurer  
Textile  
Machine  
ry

Heberlein  
AG

LiTai  
Spinning  
Mill

Jinsheng  
Real  
Estate

Jinsheng  
Science

Location: Jintan, Jiangsu Province, P.R. China  
 Establishment: 1999 by Mr Pan Xueping and other shareholders  
 No. of staff: 10'000 employees

[www.jinshenggroup.com](http://www.jinshenggroup.com)



# Heberlein AG

swiss made. 1835.

## EMPLOYEES



90 employees thereof 10 apprentices in the areas business administration, construction, logistics and technicians.

## AGENTS



54 agents in 59 countries

## PRODUCT PORTFOLIO



### Textile

- Air jets: interlacing, migration, ATY
- Air components: aspirating, cutting, splicing

### Non-textile

Ceramics for medical, industrial, textile applications



# Heberlein AG

swiss made. 1835.

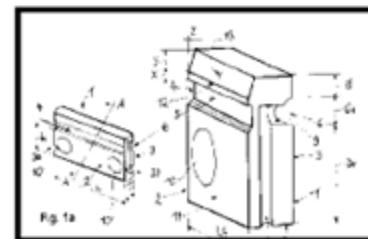
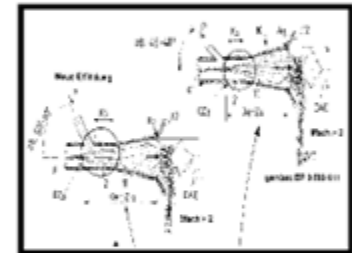
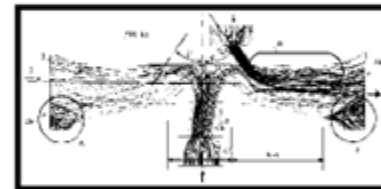
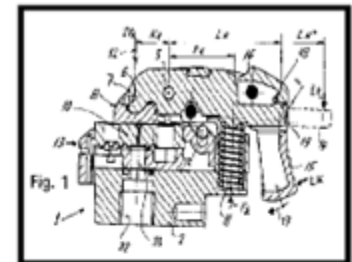
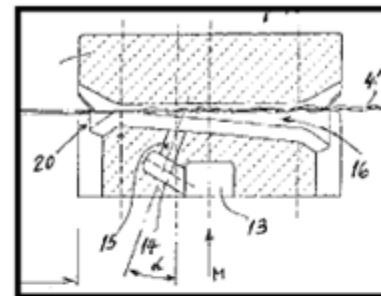
<p><b>PLOT SURFACE</b></p>		<p><b>Area</b></p> <p>11.330 m<sup>2</sup>, 5.616 m<sup>2</sup> are under roof</p>
<p><b>BUILDINGS</b></p>		<p>Infrastructure Administration and engineering, fabrication, logistics and workshops are located in 6 buildings</p>
<p><b>QUALITY MANAGEMENT</b></p>		<p>Certificate of quality Certification according to ISO 9001 and ISO 13485 (for medical products)</p>



# Heberlein AG

We are world wide N° 1 in the AIR JET Techno

- 15 patent families
- 120 active patents

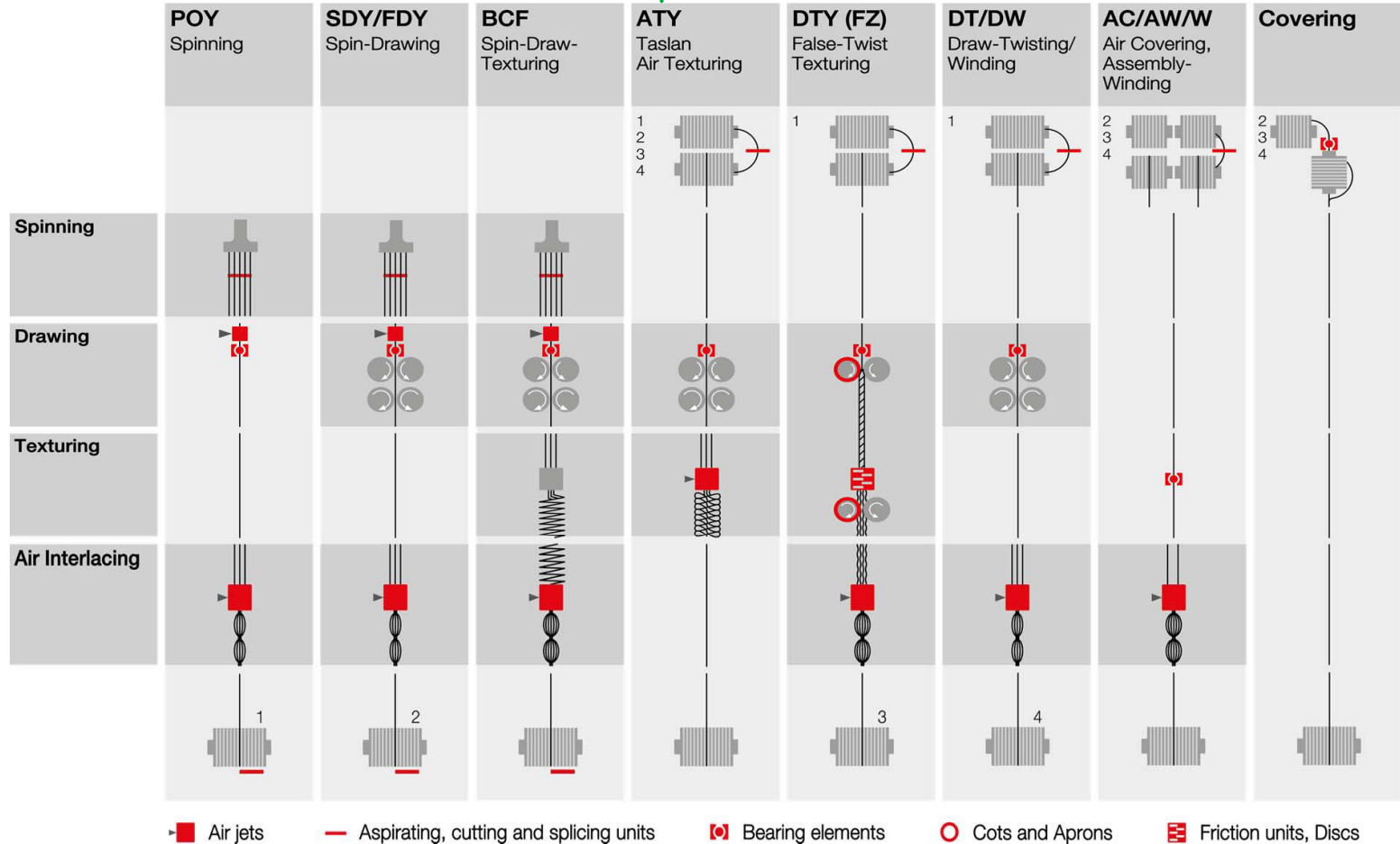






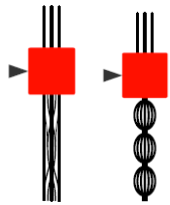
# Heberlein AG

Wherever you produce multifilament yarn, you will find our products!

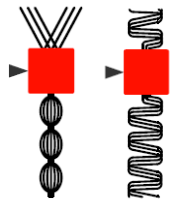
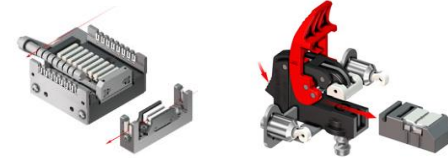




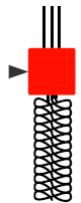
# Heberlein AG - Product Range



Air migration and interlacing jets



Air covering and detorque jets



Air texturing jets



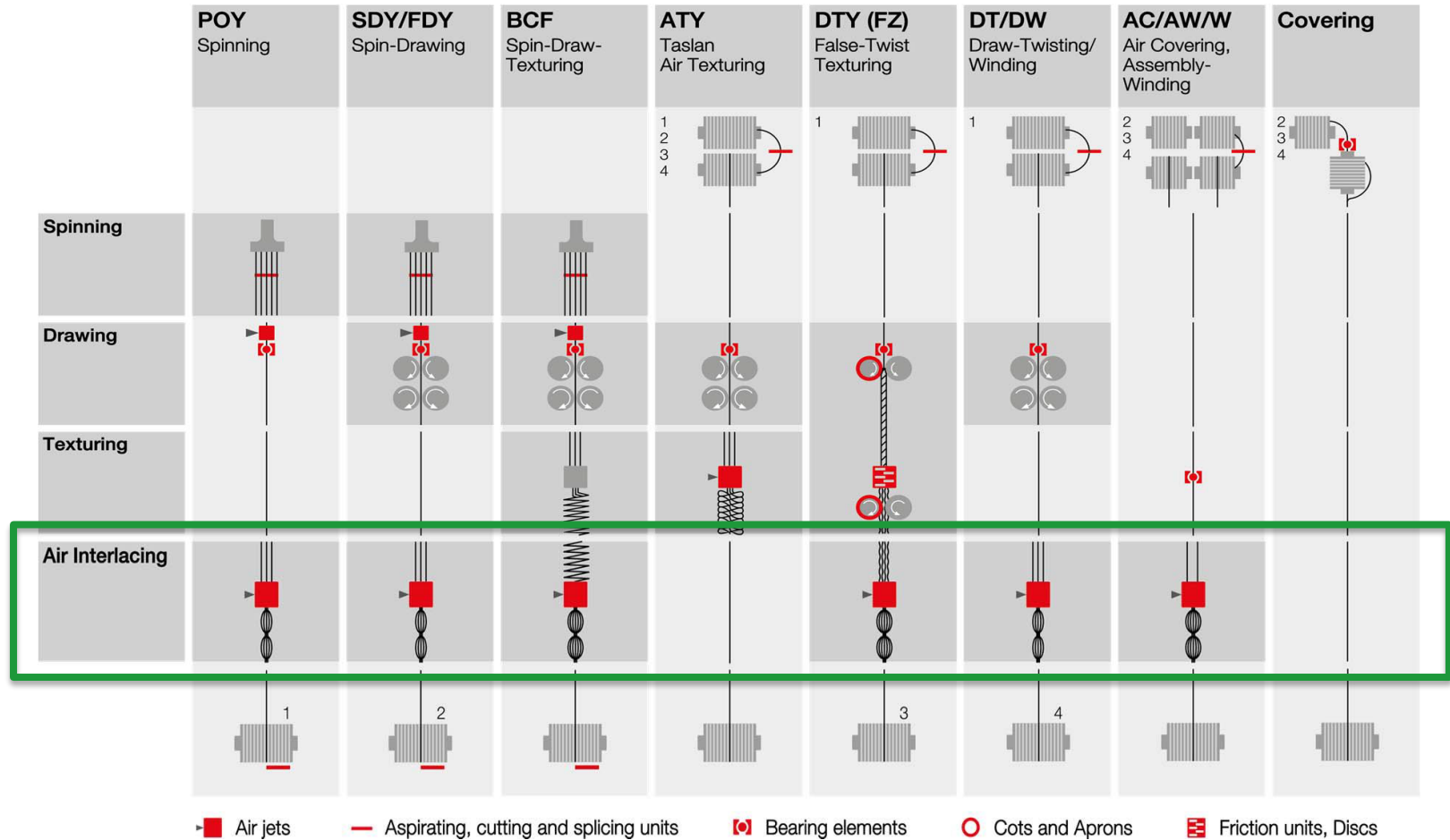
Aspirating, cutting and splicing units





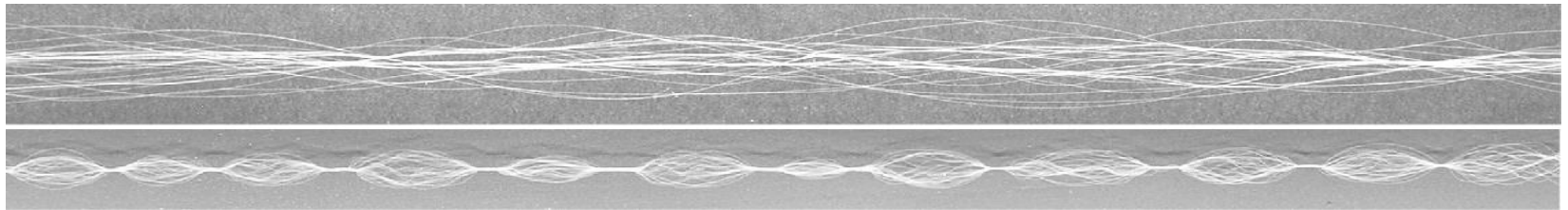
# Air interlacing Jets

swiss made. 1835.





# Air interlacing Jets: why interlacing?



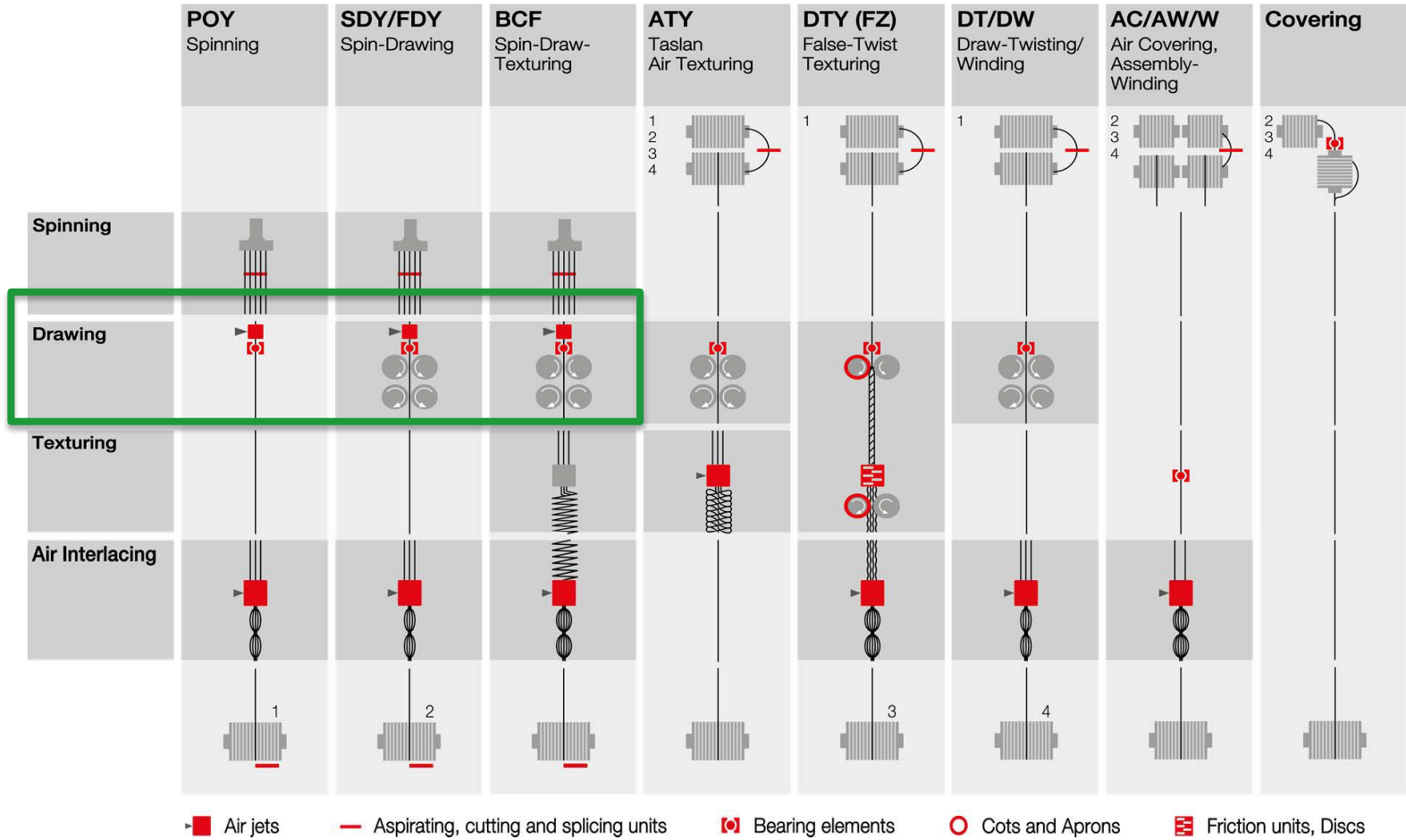
Improving of running characteristics in downstream process:

- Less filament breaks
- Less machine stops
- Improvement of bobbin structures
- Improving of process running properties
- Reduction of sizing
- Combination of various yarns with different characteristics
- Replacing of twisting
- Production of fancy yarns



# Air migration Jets

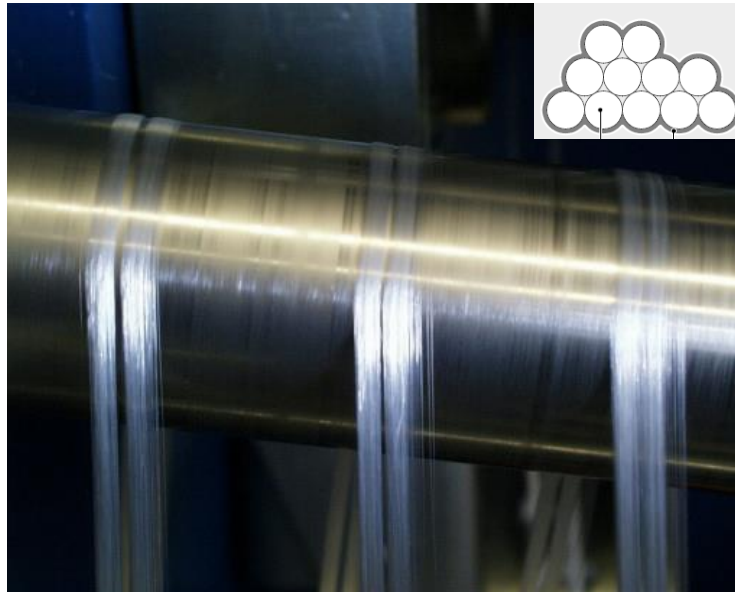
swiss made. 1835.



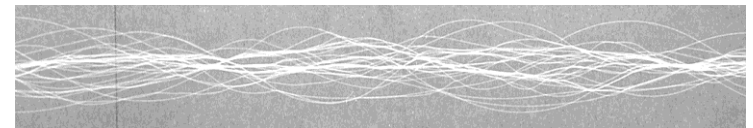
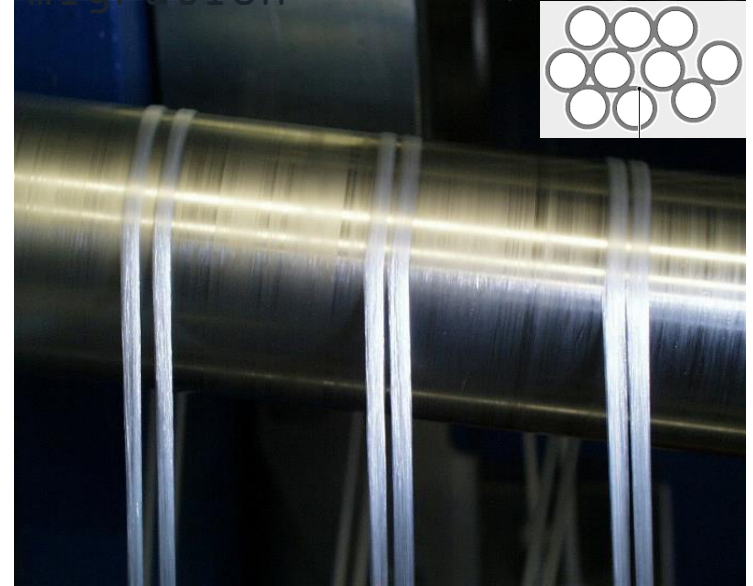


# Air migration Jets

Without migration

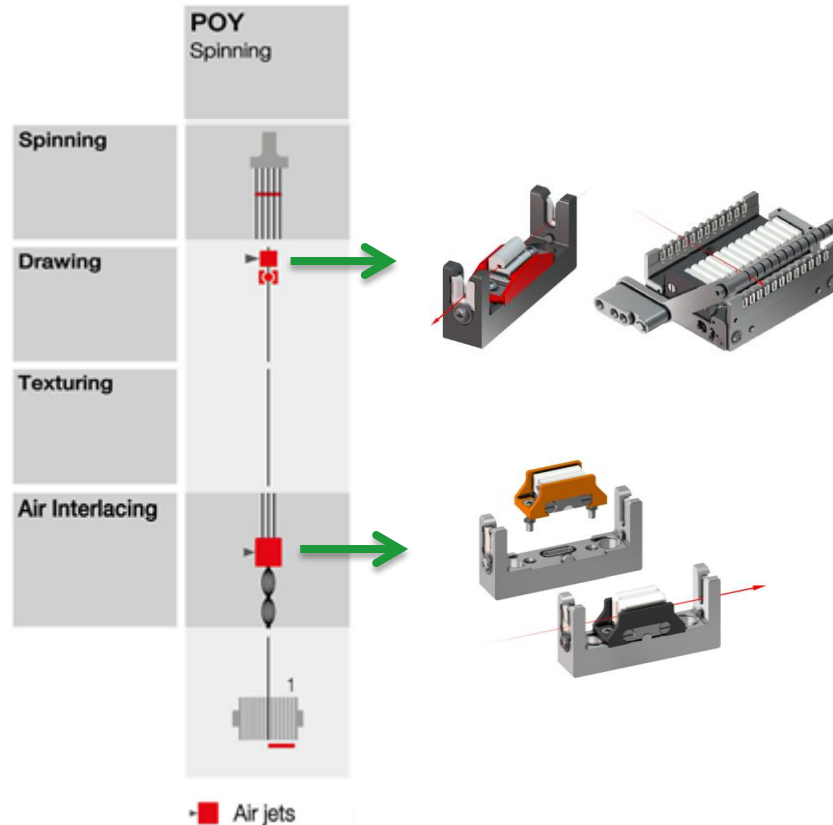


With migration





# POY-Spinning-Process: Heberlein® Jets



## Migration

- Generates a uniform, sparse distribution of the spin finish
- Intermingling of the filaments without interlacing knots

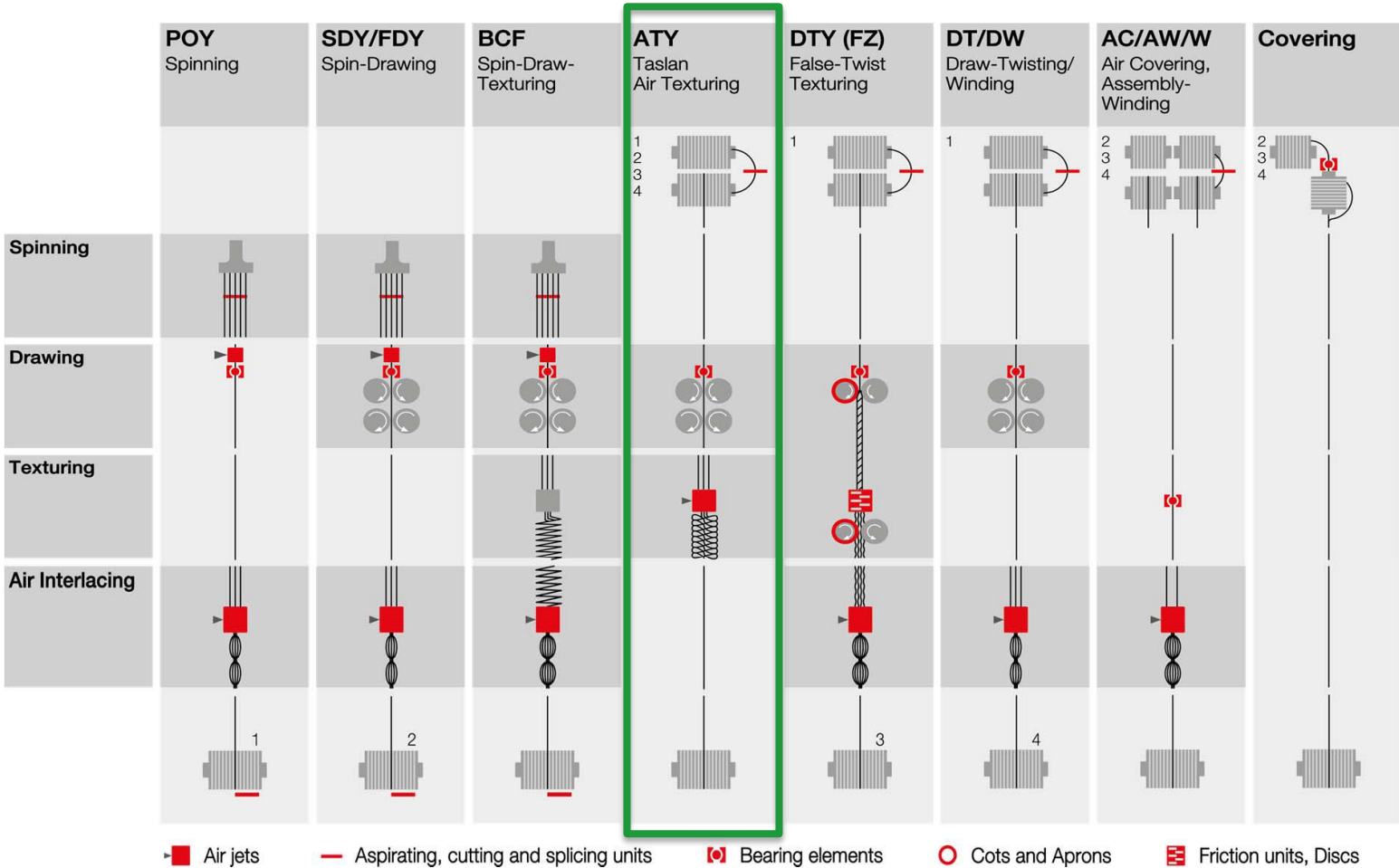
## Interlacing

- Prevents and reduces filament and yarn breaks
- Higher processing speeds



# Air texturing Jets - ATY

swiss made. 1835.

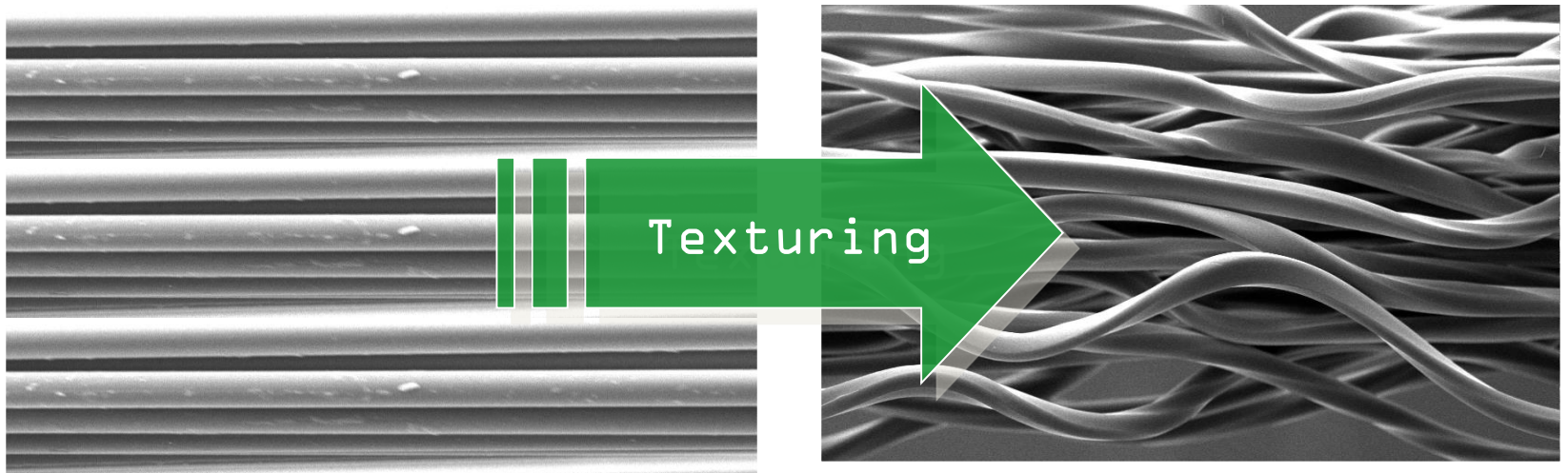






# Air texturing Jets - ATY

Texturing is a structural change of the filament yarns and a transformation of flat yarn to bulky



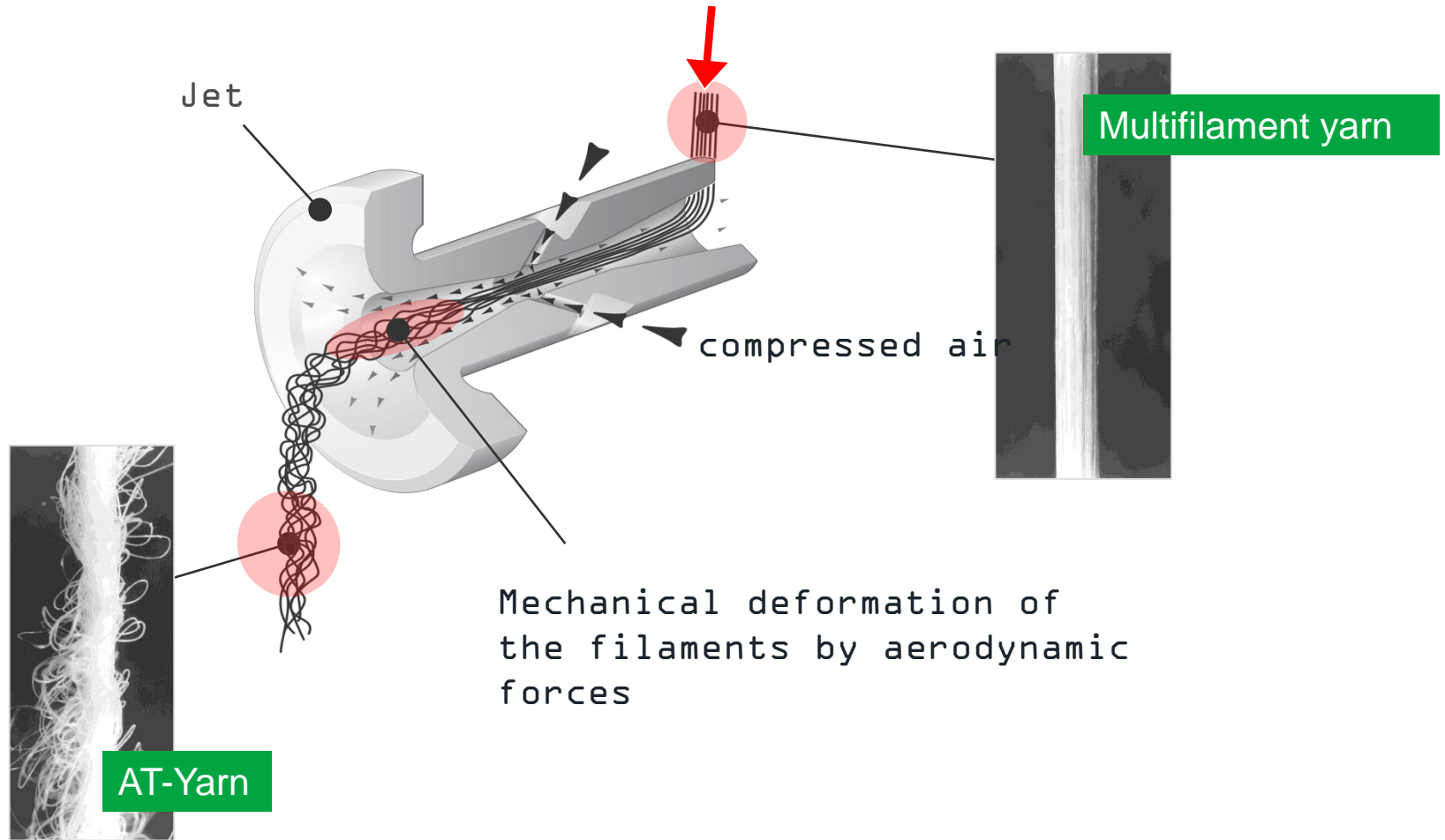
Before: flat filament yarn

After: yarn with loops and crimps



# Air texturing Jets - ATY

swiss made. 1835.

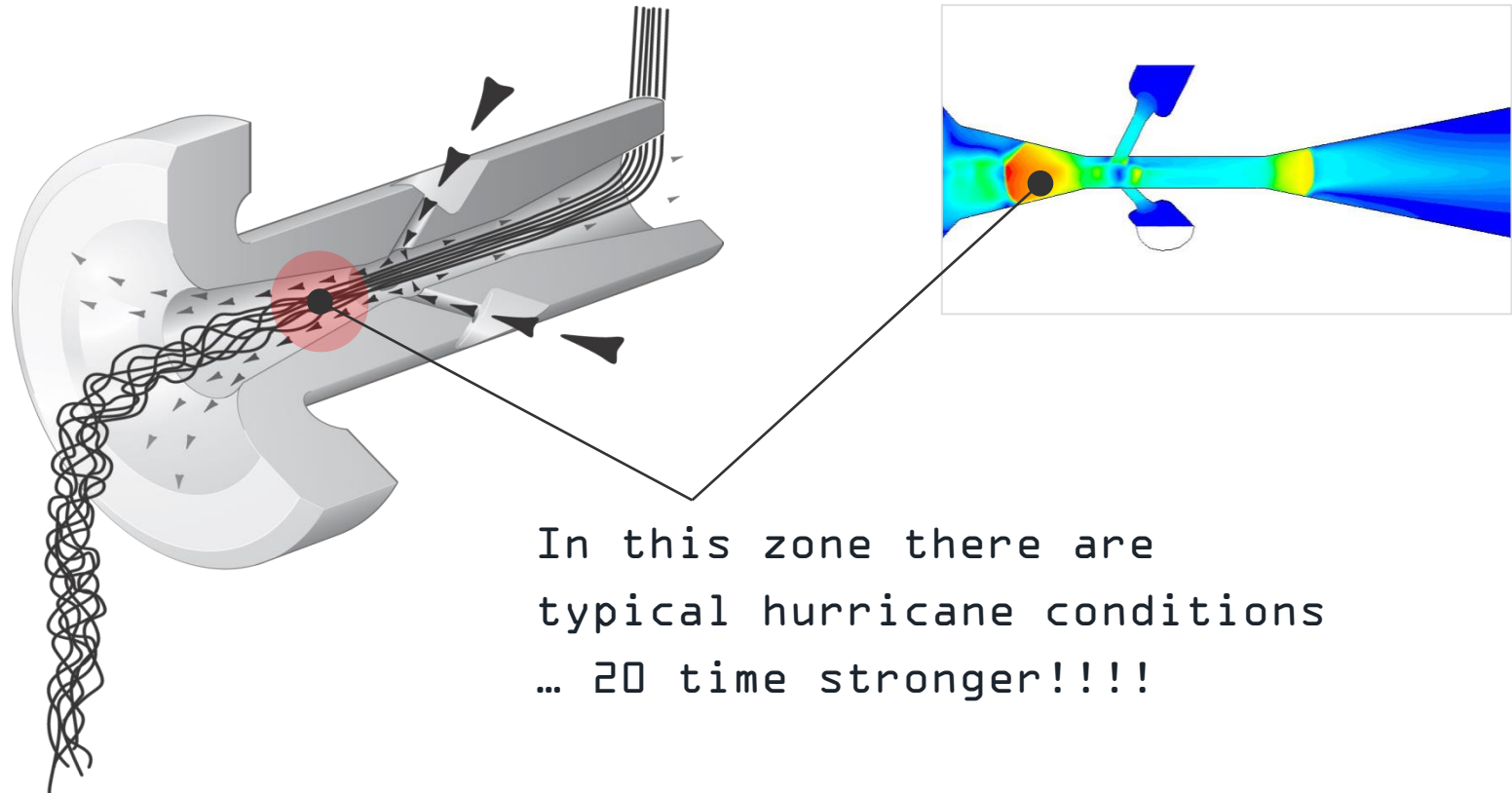


Mechanical deformation of the filaments by aerodynamic forces



# Air texturing Jets - ATY

swiss made. 1835.



In this zone there are  
typical hurricane conditions  
... 20 time stronger!!!!

3 time the sonic speed!



## Air texturing Jets - ATY -

- Air texturing jets impart to the yarn a texture and a spun-like character.
- Yarn is ideal for high class clothing and for the automotive industry.
- Antigliss property
- New also for ultra fine yarns (5d/4f)
- AT-Glasstexturing (for filter yarn, wallpaper ...)





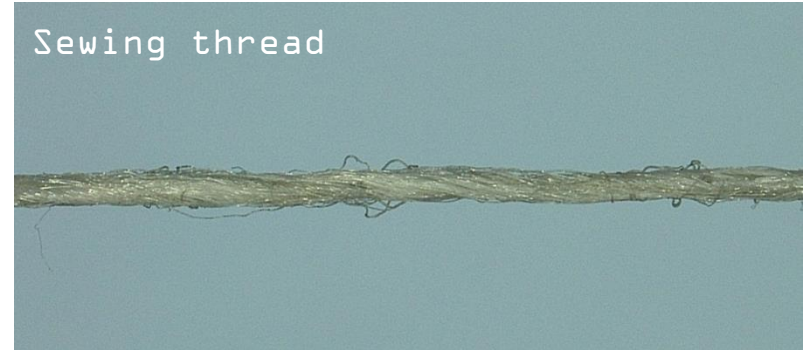
# Air texturing Jets - ATY

swiss made. 1835.

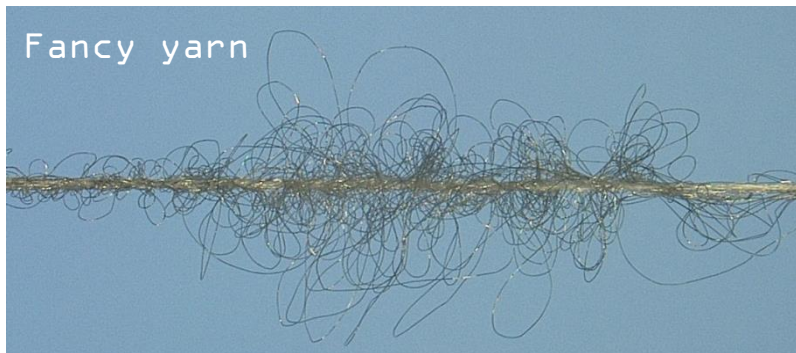
Fine yarn for sportswear



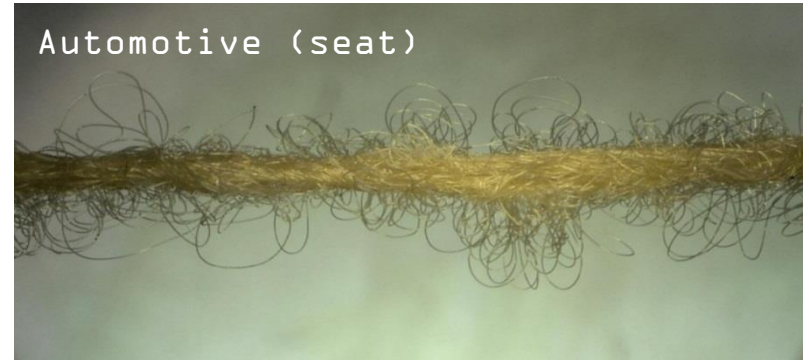
Sewing thread



Fancy yarn



Automotive (seat)





# Aspirating, Cutting and Splicing units

## Splicer

- For the semi-automatic, knot-free joining of filament yarns.

## Aspirators

- To aspirate or thread-up filament yarns.

## Cutting units

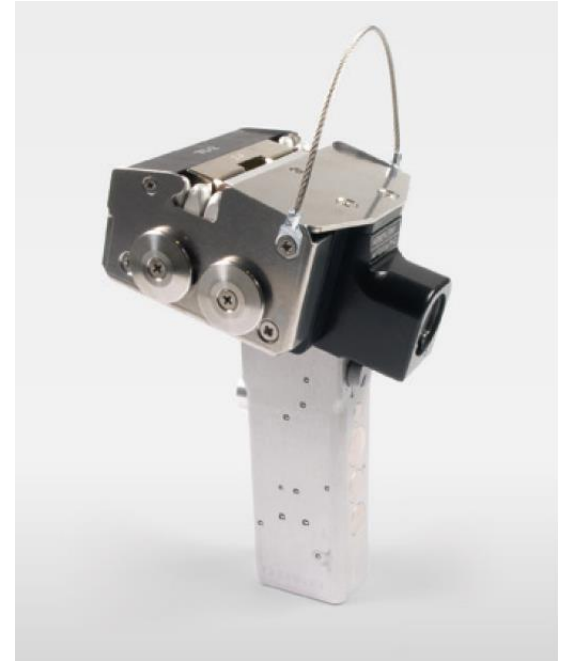
- For cutting of technical filament yarns, staple fiber tow and carpet yarns.





# Splicing units

Knot-free joining of filament yarns (Textile, Aramid, BCF, Dynema, Glass, Carbon)





# Local contact and consulting

Mehran Zehtab

Kiana Sanat Afzar  
Engineering Service Company Ltd.

T (021) 88 71 55 17 & 88 72 95 20

F (021) 88 71 54 39