Stäubli International AG

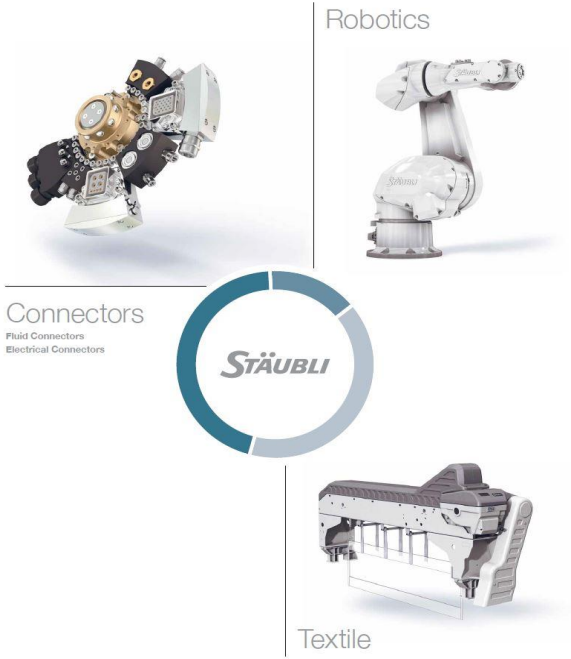
Agenda

1. Stäubli facts & figures
2. Group activities
3. Stäubli at ITMA
4. Weaving preparation
5. Shed motion solutions
6. Carpet /technical weaving systems
7. Knitting solutions
8. Questions and conclusion



Stäubli Facts & Figures

- **Three** activities in mechatronics
- **5,000** employees worldwide
- **1,800** sales and customer service engineers
- **500** R&D specialists and application engineers
- **2,000** pending or granted patents
- **1,25 billion** Swiss francs turnover
- Family owned (5th generation lead)



Connection solutions – Fluid connectors

- Extensive range of versatile connection solutions
- Wide area of applications in all industries and challenging environments



Connection solutions – Electrical connectors

- Tailored to each industry and harsh environments
- Range from single parts to highly complex systems



Robotics – Complete range of industrial robots

- 4- and 6-axis robot models with payloads up to 150 kg
- HELMO the mobile robot system
- A single, user-friendly software platform
- Suitable for all environments, including sensitive and harsh conditions



Stäubli Group – a forward thinking organization

- Innovation since the year one
- Global presence in 29 countries, agents in 50 countries
- Organic growth supported by strategic integrations
  - Robotics: WFT GmbH & Co KG (mobile platforms)
  - Connectors: Roman Seliger GmbH (large diameter connectors)
- Serve versatile industries
- Know how is transferred inter-divisional

Stäubli brand attributes

- **Dynamic:** We are forward-thinking, on a continual quest for the next innovation.

- **Cooperative**: We partner with our customers to provide the most efficient solution for their application.

- **Reliable:** Founded in 1892 and still family-owned, we are rooted in a proud heritage of quality craftsmanship.

Textile activity remains key business driver



Highlights at ITMA Barcelona 2019

- One SAFIR drawing-in installation featuring AWC
- Two warp tying installations
- Three complete Jacquard installations
- ALPHA 500 carpet weaving system
- Plots with cam motions, rotary dobbies, Jacquard
- Industry 4.0 and spare parts corner
- Knitting solutions for socks (separate booth)



Weaving preparation solutions – for mills searching for increased overall efficiency

- Important experience in yarn handling brought to the profit of the customer
- More first quality output
- In-time delivery with efficient quick style changes
- Active Warp Control – the unique selling proposition

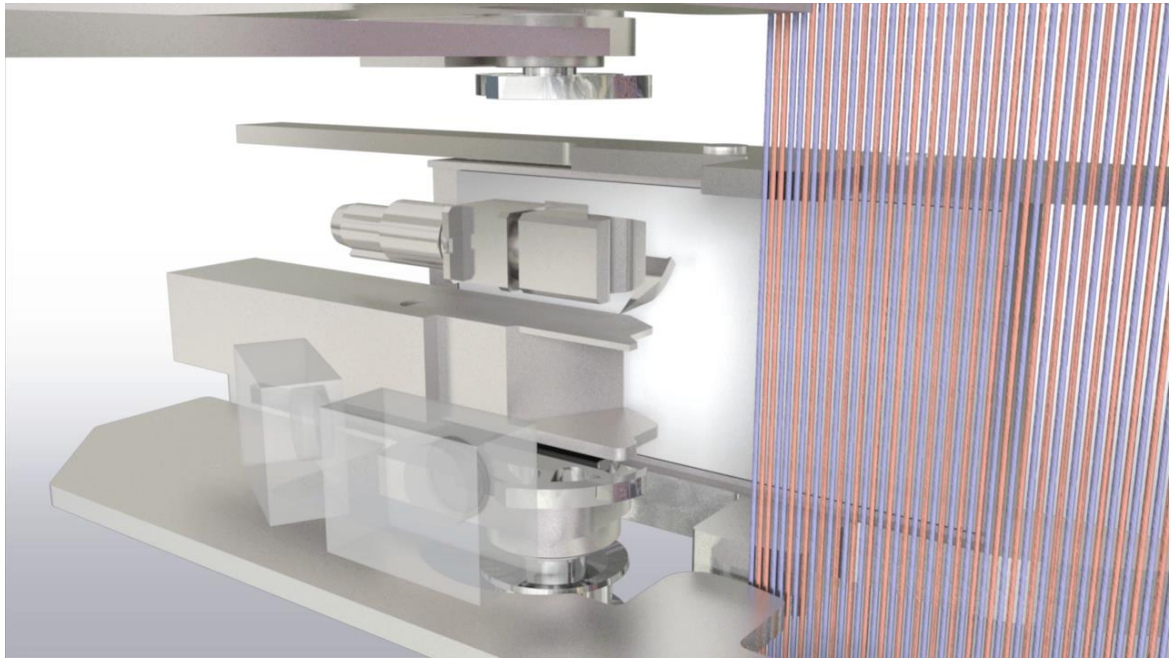
Active Warp Control – Unique performant features

- Developed for the SAFIR drawing in installations and constantly developed further
- Available on all SAFIR models
- Optical detection and measuring is the heart of the functional principle
- Different configurations available



Active Warp Control – Yarn management

- Optical detection and control sensors based on sophisticated algorhythms
- Manages color repeat of warp ends
- Proper yarn sequence in warp sheet, e.g. with S-/Z-twist



Cam motions – New model with 10 frames

- For even higher speeds in production of basic fabrics
- Featuring Stäubli compact housing and quality building material



Jacquard – New LXXL large format machine

- For heavy payloads and large format fabrics
- Featuring **newly designed electronic concept** (presented at ITMA)
- Same depth than LXL with 40 module rows
- Easy adaptable (cardan shaft or servo drive)



Jacquard – LX32 for narrow fabrics

- Easy to integrate
- High performance and reliability

Market shows constant high level activity due to

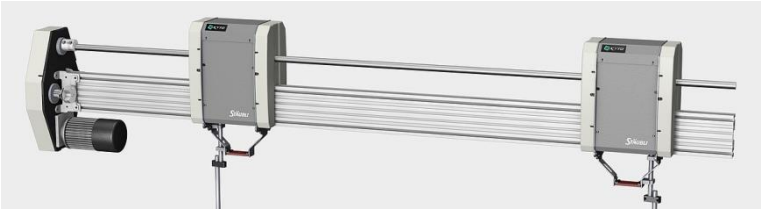
– Fast changing fashion

– Sportswear

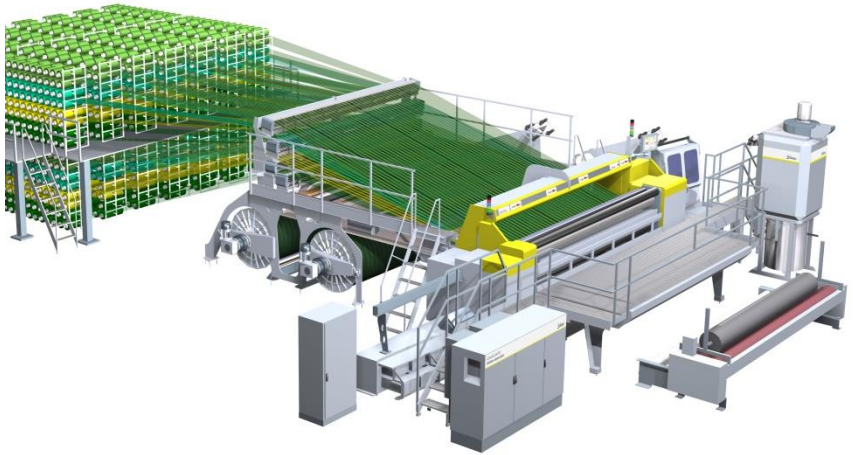


Jacquard – Machinery for labeling

- Machine support brands to prevent counterfeiting
- Easy to integrate technology
- Stäubli solutions feature harnesses independent of the weaving machine
- **New concept** shown at ITMA



Carpet weaving – ALPHA 500 for versatile carpets



- Flexibility to be ready for future applications
- Versatile binding technologies

  (low-pile weaving, used-look carpets, outdoor carpets)
- Weft Effects
- Featuring servo driven frame weaving solution UNIVAL 500 series

Technical weaving – TF20 for complex fabrics

- Reinforcing fabrics for lightweight applications
- Spacer fabric and multi-layer fabrics, also with new types of structures and material mixes
- Tailor made machines; developed and personalized in strong collaboration with the weaver and the end user



Sock knitting – Controller and D4S toe closing device

- **Controller**
  - Allows quick reaction to market demands
  - Compatible with most commercialy availabe operating systems and versions (ARM, LINUX)
  - Housing and control panel customized
- **D4S toe closing device**
  - Significantly higher production and rapid payback
  - Easy adaptable to different gauges



Thank you for your attention

Any questions?

Conclusion

- Stäubli Group serves all industries worldwide with outstanding reliable and performant solutions
- Stäubli textile brings dynamic solutions into the weaving mill allowing to step up the rhythm and stay at the forefront of the textile market
- AWC – a key reason to choose a Stäubli drawing-in machine

We cordially invite you to our press conference at ITMA Barcelona

2nd show day
21 June 2019
At 3:00 pm
Booth n° C201 / Hall 4

ITMA 2019

Good bye Lucerne, see you in Barcelona

Thank you ALL

for your time and good mood during these days!

Thank you Swissmem:

Ernesto, Cornelia, Beatrice, for the organization of this event!

