

Pre-ITMA Press Conference, Lucerne

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Davide Maccabruni, CEO SSM

Digitization in the Spinning Industry

Content

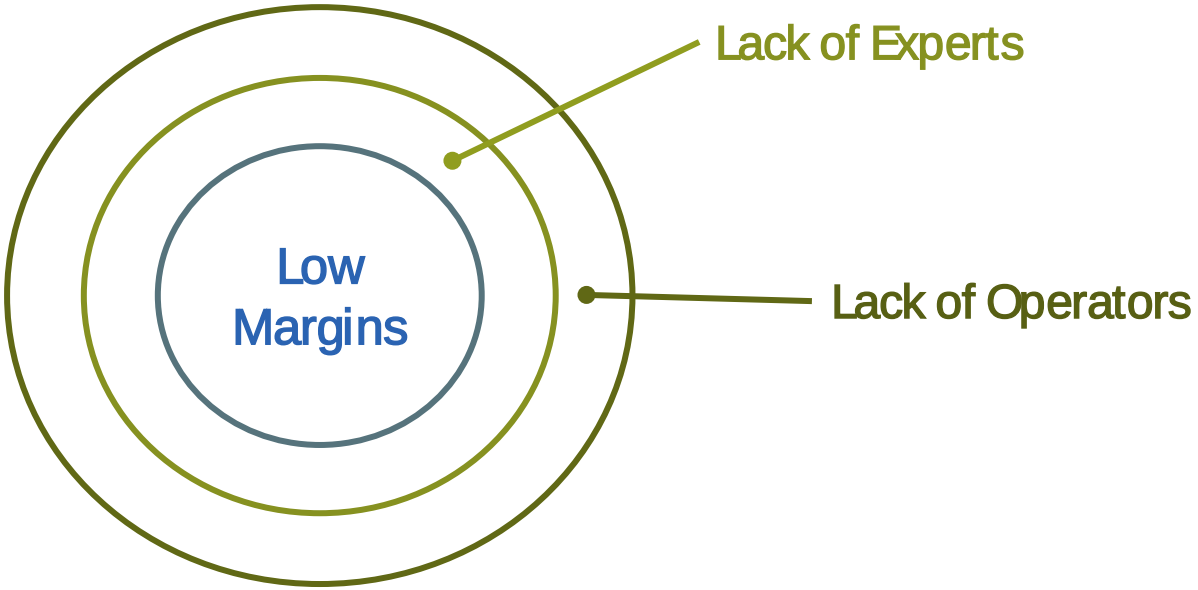
1. Technologies
2. Benefits
3. Challenges
4. Essential – Rieter Digital Spinning Suite
5. Way Forward

1. Technologies

- Global network
- Central Processing Unit and storage capacity & cost
- Sensor/ identification technology
- Data analytics
- Mobile/ wireless communication
- Machine learning

2. Benefits

Spinners' Needs

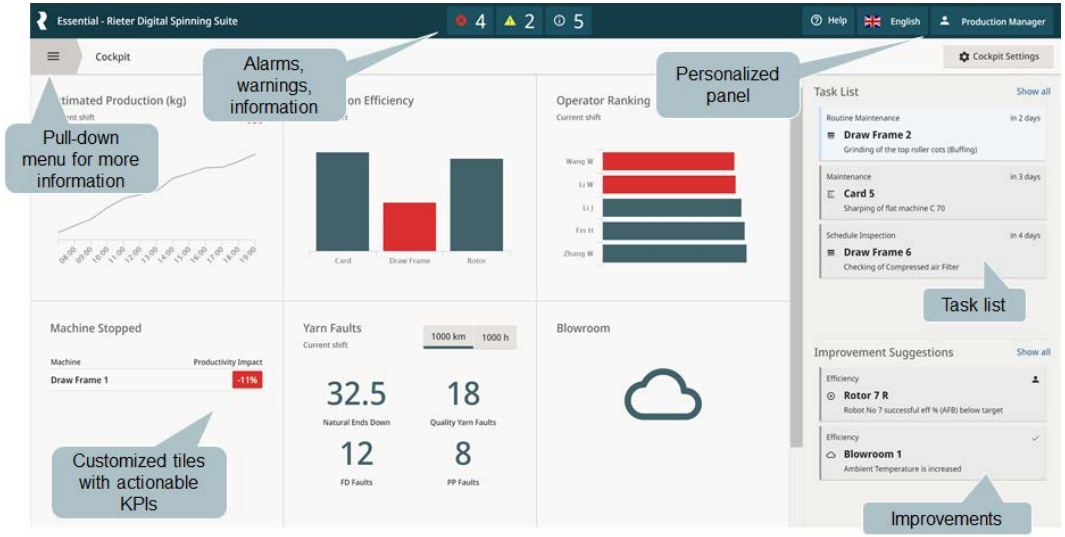


3. Challenges

- Lots of talking – identify true benefits, make it work
- Data sharing
- Data security
- Make industry experts work with digitization experts
- “Digital” working mode

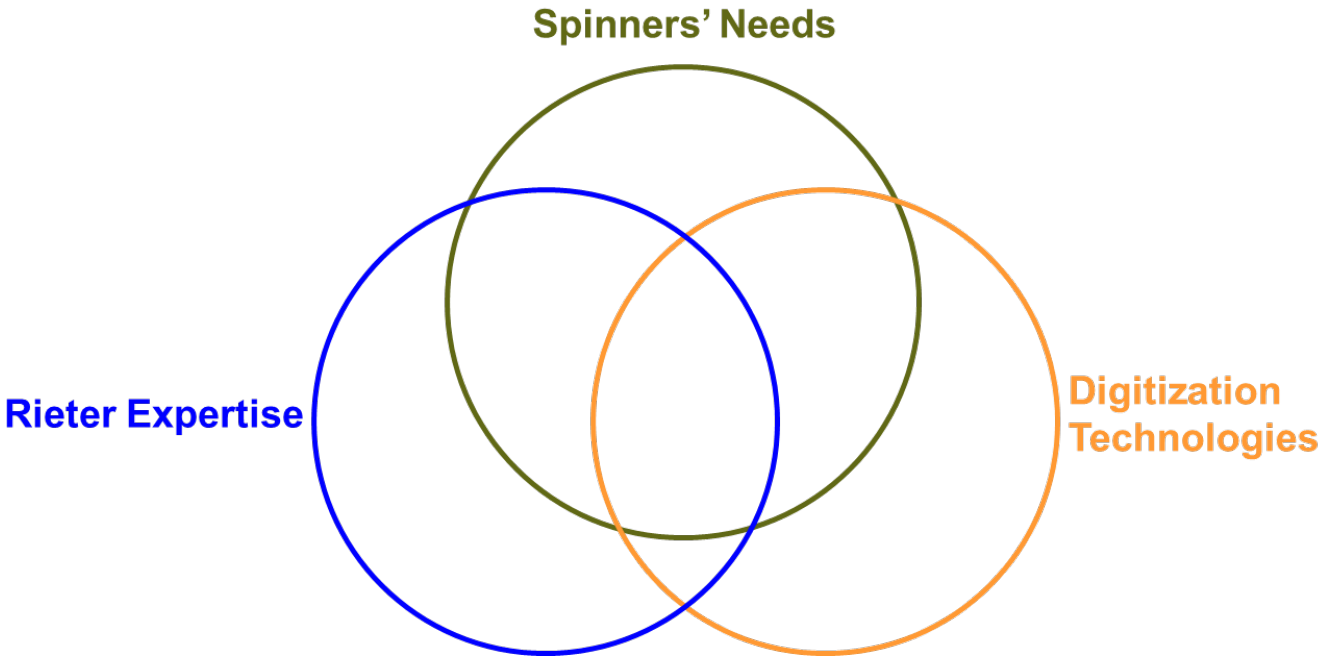
4. Essential – Rieter Digital Spinning Suite

Essential enables users to manage and control mill operation, production, yarn quality and maintenance activities by focusing on process improvements and eliminating inefficiencies.



- Role-based cockpit view
- Production, energy and quality overview
- Productivity alarms
- Maintenance planning
- Condition monitoring with correlation and prediction alarms
- Customer specific technical documentation
- Webshop access
- Mill configuration
- 3rd party and ERP system integration

5. Way Forward



5. Way Forward – Rieter Campus



Advantages of Rieter Systems Solutions

Rieter systems support spinners in building a successful and prosperous business.

In the four end spinning process

- Air-Jet Spinning System
- Compact-Spinning System
- Ring Spinning System
- Rotor Spinning System

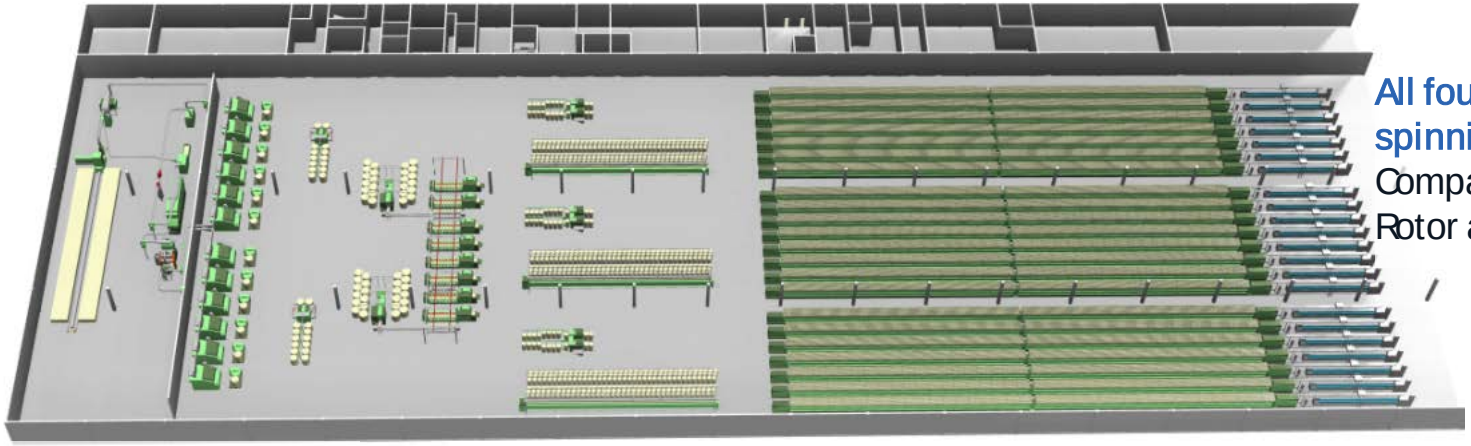
Rieter will present innovations.



Rieter as a System Provider Answers Future Needs

Services and Consulting
Technology, financing, mill planning,
After Sales services across production

Digitization
Essential – Rieter Digital
Spinning Suite



All four end spinning systems
Compact, Ring,
Rotor and Air-Jet

Automation
SERVO and ROBO Solutions

From Fiber to Yarn
Equipment and Components

Business Group Components



Product Portfolio



- Technology components are part of spinning machinery, coming into contact with the fiber/ yarn during the spinning process, influencing it substantially in terms of yarn quality and machine performance.
- Yarn winding systems are part of the down stream process, enhancing the yarn quality and characteristics.

Product Portfolio

Bräcker
Components for ring spinning





Graf
Components for spinning preparation





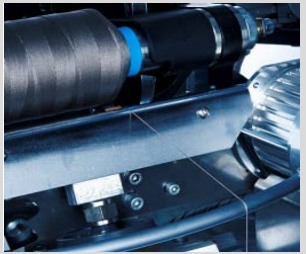
Novibra
Spindles and spindle bearings





SSM
Winding solutions





Suessen
Components for ring, compact, rotor, airjet spinning





Benefit: Highest Speed with Best Values of Yarn

- 10%-20% higher traveller speeds at same yarn quality compared to T-flange ring and G-Shaped travellers



redORBIT / ORBIT
Improved heat dissipation enables higher spindle speed

- Special surface treatment allows higher speed (up to 1 000 RPM), longer service life (up to 50%) and reduced running-in time (up to 50%)

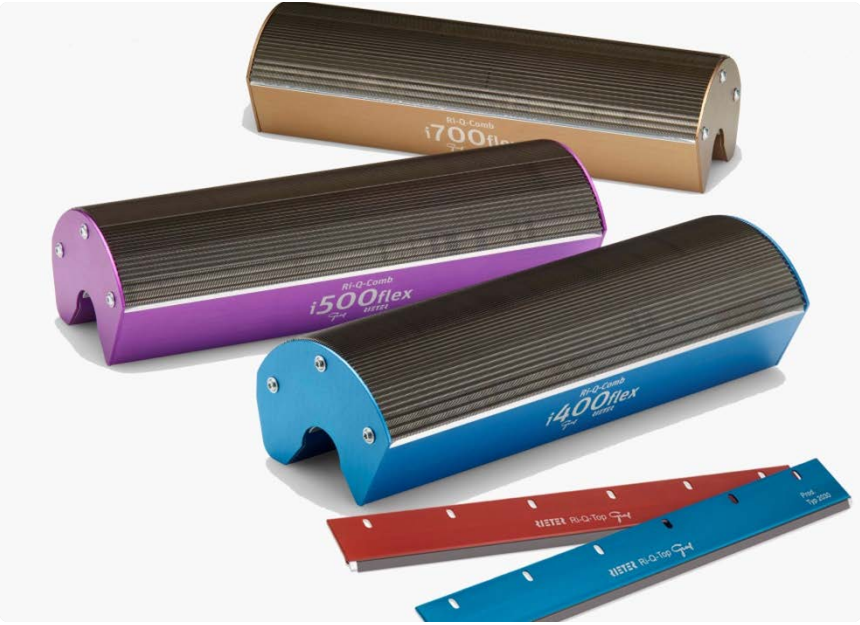


ONYX
Especially recommended for cotton compact and non compact; MMF

Traveller at a moderate speed of e.g. 34 m/sec (=124 km/h)
Distance after 12 days (avg. lifetime of a traveller): 35 000 km

Benefit: Highest Efficiency and Best Yield on Raw Material

- **Carding** – Outstanding sliver quality throughout the entire service life thanks to perfect arrangement of metallic card clothings and flexible and stationary flats.
- **Combing** – Uniquely high performance in terms of short fibers and neps elimination thanks to adjustable gap between circular comb and nipper as well as perfectly defined metallic clothing on combing surface.



Products in combing: Ri-Q-Comb flex & Ri-Q-Top

Benefit: Highest Speed and Lowest Energy Consumption

- Energy saving spindle recommended for high speed above 18 000 RPM and counts Ne30 and finer
- Energy saving in the average of 4% to 6% thanks to reduced wharve dia and lesser friction of smaller bearings
- Optional CROCOdoff and AVlock



LENA

The only spindle with 17,5mm wharve dia on the market.

Benefit: Versatile Production and Lowest Maintenance Cost

- New geometry of the compacting zone
- Lattice apron 5star® BL improving wear resistance up to 20% hence longer lifetime and single suction tube type Pelican for less choking and easy cleaning
- Increased lifetime of EliTop cots up to 100% and reducing handling in buffing and workshop up to 50%
- EliSpring reducing end breaks up to 50%

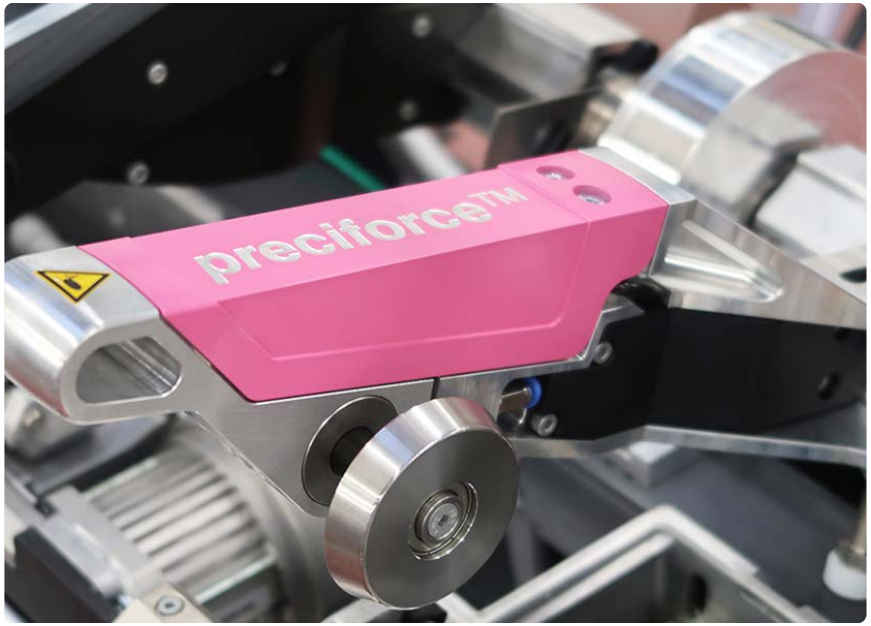


New EliTe®
Innovative components further boosting productivity, yarn quality and cost reduction in maintenance

preciforce™

- Self-regulating pressure force system for SSM XENO platform [1]



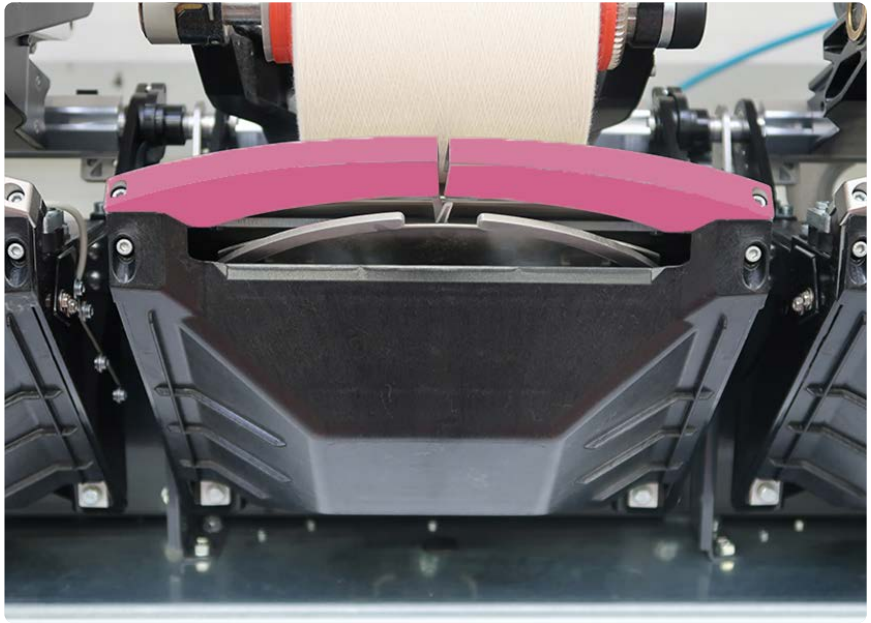


[1] Patent pending

powerblade™

- New SSM XENO-PB, combines the advantages of blade winding and electronic yarn traverse [1]





[1] Patent pending

Discover the Benefits of SSM XENO

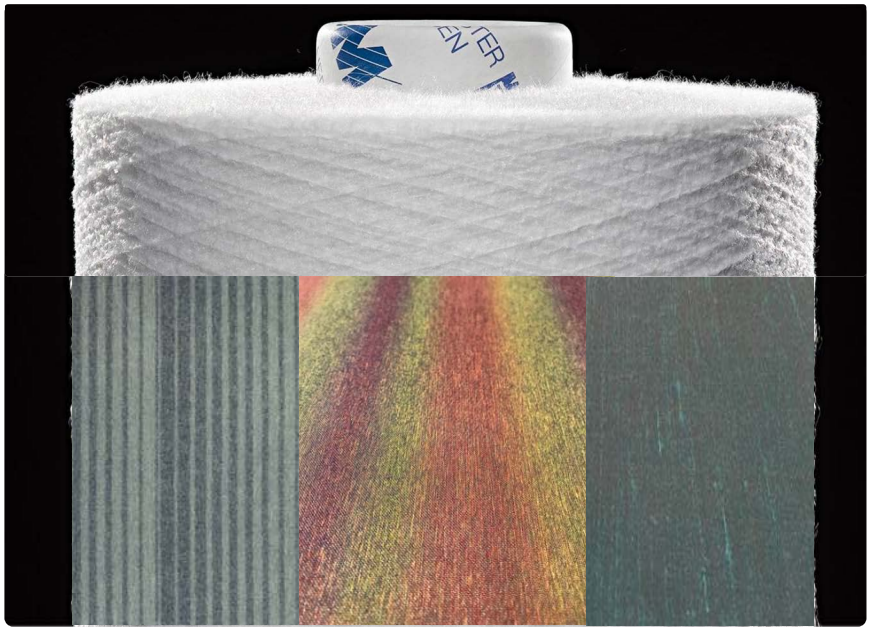
- Modular Platform
- Automation
- Intermingling possibilities
- Best Price/ Performance & Service
- Unreached Quality DIGICONE® 2
- *fastflex*™ *digitens*™
- NEW *preciforce*™ *powerblade*™
- and more…



swiss textile machinery

New Dimension in Yarn Creation

- ATY/ DTY/ ACY…even all combined!
- Slub Effect at its best
- SSM GIUDICI GQS Automation
- DIGICONE® *fastflex*™
- High Speed Valve
- Intermingling
- *fancyflex*™ VARIO
- and more…



swiss textile machinery

Invitation: Unveiling Innovation

Trade Press Event on June 20, 2019 at 10:15 h, Hall 6, Booth C201



Looking Forward to Meeting You in Barcelona.





swiss textile machinery