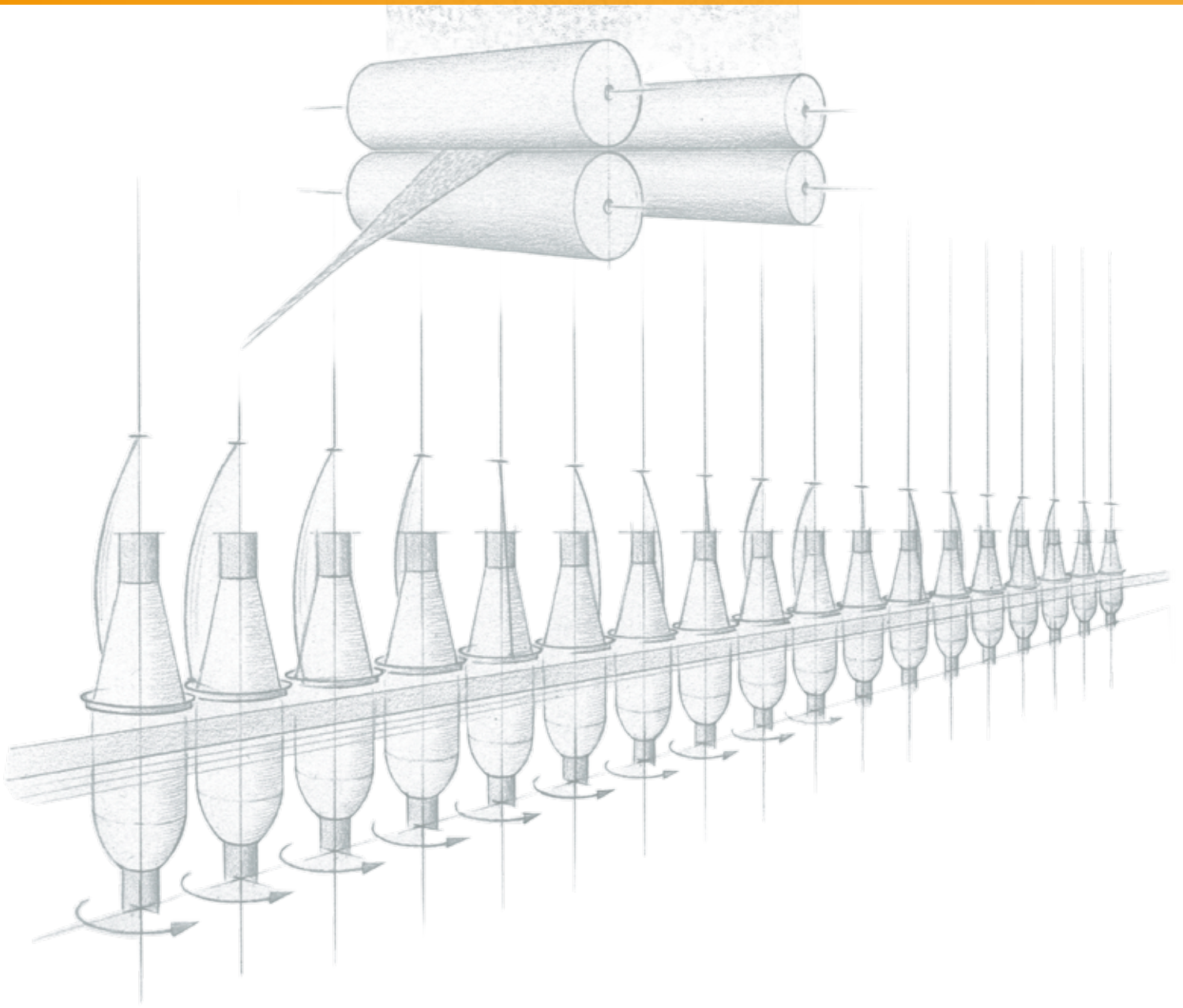




Innovative solutions for the textile industry



Perfection in Automation for the textile industry



Fiber preparation



Stretching



Spinning



Weaving preparation



Weaving



Knitting



Spooling & threading



Printing



Washing



Man-made fiber processing



Perfection in Automation for the textile industry

Trendsetter in textile machine manufacturing

B&R has many years of experience automating textile machines. Many well-known machine manufacturers place their trust in the innovative strength of B&R products; in doing so, they have increased their technological competitive advantage in their respective markets. B&R provides integrated automation solutions for all types of textile machines, making us the ideal partner for those seeking a complete solution.



Increased machine efficiency

The ACOPOSmulti drive family, developed specifically for multi-axis operation, brings together a whole range of advantages for textile machine manufacturing. In particular, the devices can be equipped with various cooling systems, which means that they can be cooled optimally no matter how or where they are installed – even in the toughest environments. Because the servo drives are extremely compact, they can be installed in smaller control cabinets.



Integrated safety technology

openSAFETY is a modularly structured integrated safety communication technology. With extremely short cycle times, it minimizes safety circuit response times. Intelligent electronics replace traditional safety wiring and allow coordinated safety reactions for extremely reliable and efficient production processes.



Lasting value

As a partner to many machine manufacturers, B&R is well aware of the importance of long-term product availability for our customers. Through careful analysis and selection of all components used, B&R ensures that all products meet the highest technical standards for quality, reliability and long-term availability. Scalable and interoperable hardware provides a solid foundation for reusability.



JUPITER
Jupiter Comtex Pvt. Ltd.



24 hours a day, 7 days a week

The machine and systems manufacturing industry demands 24/7 availability. As an expert global partner, B&R offers intuitive diagnostic functions, remote diagnostics, open interfaces and worldwide availability of all automation components. These factors ensure unobstructed production without unnecessary downtime.



Networked production lines

Just like in sports, the effectiveness of an integrated production line depends on the combined and coordinated effort of every team member. As a solution provider, B&R has the technology to optimize your entire system from start to finish. Real-time industrial Ethernet is the foundation for synchronized interactions between individual sub-processes.

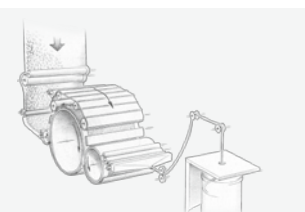
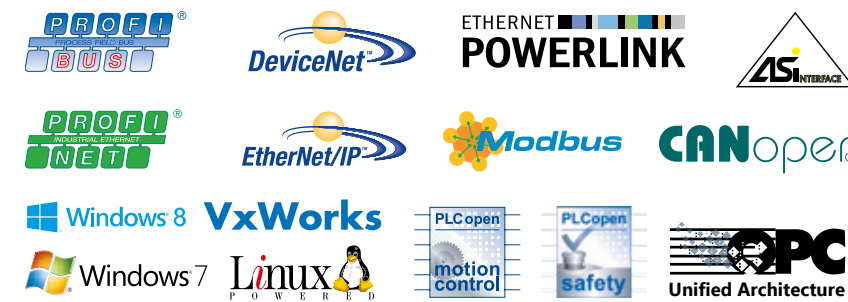
Total cost of ownership

In a competitive market, the total cost of a system becomes an increasingly influential factor in the decision-making process. B&R guarantees substantial reductions in overall costs through increased system availability, optimized machine performance, uniform HMI operation, streamlined modular design, system-wide compatibility and a reliable worldwide support network. This is a partnership that pays off.



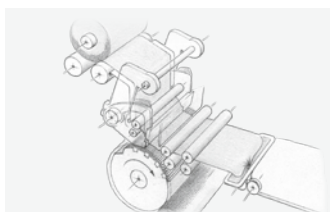
Open and flexible architecture

B&R systems are open for standard communication interfaces, both at the machine and the ERP level. The same PLC software can be used in any and all devices. Only the communication medium and the protocol must be configured. Dynamic I/O configurations allow the same software to be used for different hardware topologies. The result is a cost-effective and highly flexible solution.



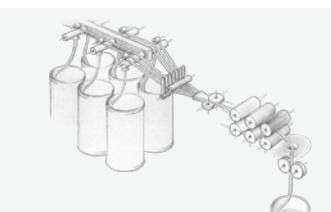
Fiber preparation

- Control of the entire line: Opening, cleaning, mixing, carding
- Intelligent networking of machinery
- Modular system management



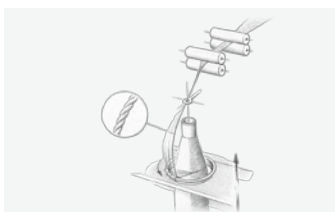
Combing

- Maximum nipping speed [nips/min]
- Optimized comb movement
- Precise gripper control



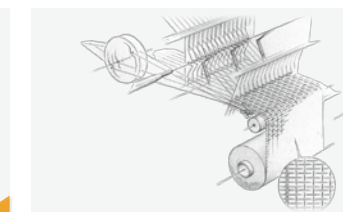
Stretching

- Fast measurements of scanning disk
- Integrated FFT analysis
- Controlled yarn uniformity
- Automatic can changer



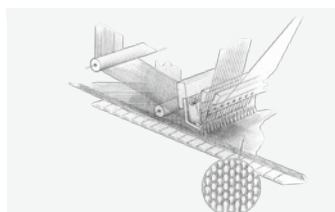
Spinning

- Precision movement of ring-rail
- Automatic yarn break correction
- Automatic spool change and transport



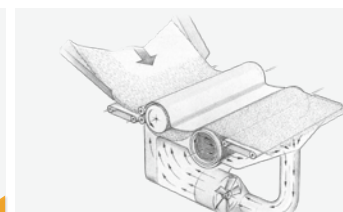
Weaving

- Highest level of weft insertion performance
- Configurable cam timers for relay nozzles
- Simple integration of auxiliary devices



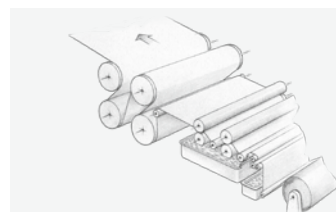
Knitting

- Simple integration of pattern data
- Many knitting pattern variations
- Electronic needle selection
- Short setup times



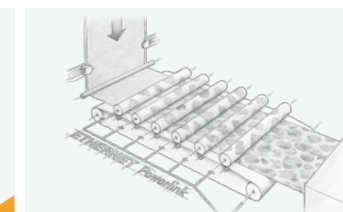
Non-woven fabric production

- Geotextile systems
- Needle punching machines
- Spun-bonded web systems
- Stretching units
- Cutting machines
- Winding machines



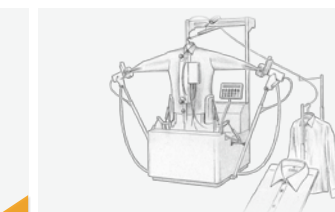
Textile finishing

- Optimal straightening with integrated pattern control system
- Dyeing and coating
- Integrated tension control



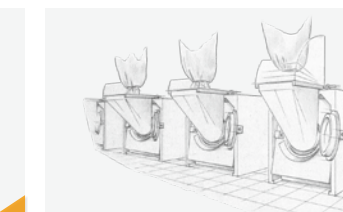
Print

- Highest level of synchronization performance
- Highly precise angular resolution
- Flexible grouping of printing units



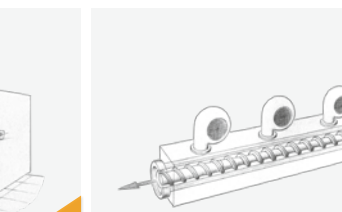
Ironing and folding

- Flexible sequential control system
- Tension control
- High-precision temperature control
- Flexible product size



Washing, dyeing, bleaching

- Flexible wash sequences
- Material flow monitoring with barcode reader
- Configuration of machinery
- Central monitoring of machine stations



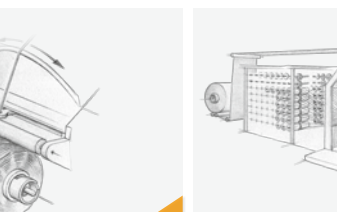
Extrusion

- Control of worm drives
- Startup profiles
- Melt pressure control
- Configurable zone assignment
- Synchronization of the total system
- Configuration of the subsequent devices



Winding

- Precise tension control
- Highest level of synchronization performance
- Variable winding patterns
- Networked spooling stations
- Highest winding speeds



Weaving & braiding

- Warp and weft thread monitoring
- 2D and 3D braiding
- Variable profiles of braided groups
- Short setup times

Integrated automation
Global presence
Solid partnership



ETHERNET 
POWERLINK

open 
SAFETY