



## Savio: Energy Saving and Industry 4.0 Winding solutions

**Savio is one of the leading supplier of winding, twisting and rotor spinning machines, with manufacturing plants spanning over Italy, China, India and the Czech Republic will exhibit at hall H1 stand C24 their energy saving and Industry 4.0 solutions in the winding segment.**

Savio will highlight Polar Evolution and Eco PulsarS winding machines, plus an Industry 4.0 corner with smart solutions for mill monitoring.

### **Polar Evolution winding machine**

Polar Evolution winding machine is a high performance, energy saving and less labor-intensive product for the Chinese customers. Polar winding machines have been recently developed to the Evolution series, gathering all the innovative solutions in terms of technology, efficiency, quality output and maintenance.

This development is one step for Polar family further towards becoming part of the world of I.T. connectivity and the new fibers applications. The machine on display will be a round magazine feeding one, provided with an efficient and fast automatic doffer.

### **Eco PulsarS**

Eco PulsarS with its innovative platform can save up to 30% power bill thanks to “Suction on Demand” system.

Eco PulsarS winding machine, with its sustainable eco-green advantage, replies to the market demand of energy saving, including room air conditioning, together with improved production performances, high quality packages and utmost automated solutions.



*Savio Smart Bracelet.*

Energy is a major cost component in the textile industry. The rising energy prices, affecting fuel and electricity, have caused soaring costs in the process, thus reducing the competitive advantage of textile products in

some domestic markets, where imported products may be cheaper.

Suction represents 75% of the total energy of a winding machine. EcoPulsarS’s solution of the “individual and independent suction unit per spindle” represents a real breakthrough versus the conventional system. Each unit operates at optimum suction values without influencing the rest of the

spindles. This means no more compromises in balancing the suction as in conventional centralized systems, in which the fan is permanently in operation. Since suction is generated only when needed, customer can save up to 30% power bill costs, while a better efficiency, a smoother winding process and overall superior package and yarn quality are achieved too.

The reduction of noise is another key aspect. EcoPulsarS combining all new features and design has created an environment in which each part of the machine can operate at its optimum level. Spindles and bobbins feeding systems set independently the level of suction required. Suction is generated as needed and used without losses. The new Controlled Cut System, Yarn Tension Control System, Waste Collection System and Upgraded Splicing Solutions, each contribute to the overall reduction of noise and process downtimes.

#### Automation - Link system

The Savio Direct Link System (I/DLS) solution, for linking the ring spinning frames (RSF) to the winders, enables a fast and efficient direct feeding of bobbins, along with the full interfacing flexibility with all kind of RSF. From RSF bobbin to the final package, the yarn is processed untouched and with zero transit time, ensuring maximum quality, less material handling and no chances of contamination. Many important markets are investing on this kind of high-automatic systems for the production advantages that such solution offers, but also for guaranteeing the end-product quality.

In order to satisfy each new development on ring frame design, Savio Direct Link System has been designed in a "modular type", granting the possibility of reaching the highest number of winding heads, to match the trend of the spinning frame manufacturers with longer and longer machines up to 2.000 spindles.

#### Savio Winder 4.0 – Smart Industry Solutions for Textile Mills

Once composed solely by mechanical and electrical parts, now winding machines have become complex systems that combine hardware, sensors, data

storage, microprocessors, software and connectivity. These smart machineries can increase the efficiency of the spinning mill and perform predictive maintenance avoiding breakdowns and downtimes.

Savio winding machines can be equipped upon request of Smart Industry Solutions for connectivity, data management, remote machine set up and operator real-time interactivity.

Savio Winder 4.0 represents an important step towards a wide digitalization process, being a solution for intelligent networking of machines in the spinning/winding room. This data management system is a modern and

important management tool, relieving mill management staff of time consuming routine work. The mill manager can have the winding room live monitoring directly from his or her desk. Thanks to data analytics, a wealth of data are available, allowing efficient management of different production phases in the best possible way and the monitoring of all significant parameters anytime and anywhere, making use of mobile devices. All these features equip Savio customers with greater control to maximise overall equipment effectiveness, increase workforce efficiency, and maximize quality and working time. ♦

