Digital Transformation of the Chinese Textile sector

The Chinese government has come up with a comprehensive plan to speed up digitization, networking and intelligence in textile industry. The digitization would be promoted to many subsectors in the textile industry.

Cotton textile industry: cultivating solutions such as online quality monitoring of spinning, intelligent cotton assorting, yarn quality prediction, intelligent transfer in the workshop, optimized production processes, automatic doffing, and intelligent detection of fabric defects.

Printing and dyeing industry: cultivating solutions such as intelligent production scheduling, automatic transfer and distribution of dyes and chemicals, automatic size mixing, centralized control of dyeing vessels, automatic cloth feeding and unloading, digital color management, intelligent cloth inspection, and digital wastewater treatment. **Knitting industry:** cultivating solutions such as automatic yarn changing, automatic doffing, real-time online measurement and adjustment of yarn length and adaptive control system for constant tension, intelligent detection and automatic classification system for knitted fabric defects, broken needle monitoring, virtual design and process simulation. **Home textile industry:** cultivating solutions such as digital production lines, intelligent production scheduling, supply chain management, intelligent warehousing, smart store operations, and precision marketing.

Apparel industry: cultivating solutions such as three-dimensional apparel design, intelligent cutting, flexible production, personalized customization, intelligent material transfer, supply chain management, store operation, platform-based design, and platform-based marketing. ■ ■

Italian textile machinery production to continue to grow in 2023

Association of Italian Textile Machinery Manufacturers (ACIMIT) President Alessandro Zucchi revealed that the preliminary data for 2022, shows the value of Italian machinery production is expected to exceed 2.5 billion euros. "President Alessandro Zucchi also added, increasing by 10% compared to the previous year saying exports account for more than 85 percent of this value. The economic conditions and political tensions in 2022 threatened business activities in all sectors. ACIMIT estimates for 2023 – 2026 still show a slight growth in demand for textile machinery."

The ACIMIT president stated that digitization has become increasingly deeply rooted in Italian textile machine manufacturing companies. The manufacturers are being issued digital-ready certification after a detailed audit of their processes. He said efficient and digitized machines have reduced the use of resources. He disclosed that a survey on the Green Labels produced from 2016 to date, showed the quantified avoided emissions using green labelled machines are 1.2 billion tons of CO_2 equivalent, corresponding to 221,187 cars traveling for 35.000 km over a year.

Zucchi expects ITMA 2023 will be the largest ITMA ever, with about 1500 companies all over the world including 380 Italian exhibitors. The Italian companies will showcase innovative technological solutions to ITMA 2023, which would reduce energy consumption and raw materials. ■ ■