WeftMaster FALCON-i – New projects in China and Taiwan

Loepfe increases its backing of the electronics industry. The latest projects in China and Taiwan underline the importance of reliable quality control of demanding technical fabrics. Loepfe's unique WeftMaster FALCON-i will be integrated into two of the world's largest manufacturing lines of PCB boards.

Printed circuit boards, or PCBs, are used to mechanically support and electrically connect electronic components using conductive pathways, tracks or signal traces etched from copper sheets laminated onto a non-conductive substrate. Used in quantities of millions, in 2018 the Global Single Sided Printed Circuit Board Market Analysis Report estimated that the PCB market would reach USD 79 billion by 2024.

PCBs are generally made of various layers of materials, which are bonded together by heat, pressure and other methods. Its basis, the so-called substrate, is commonly made of glass epoxy, also known as fiber reinforced plastic. In order to ensure and achieve an efficient and smooth PCB manufacturing process, a top quality and flawlessly woven glass fabric is the key to minimized rejection costs and ultimate quality assurance.

A fully integrated PCB manufacturer can control the entire manufacturing process. One of the world's largest manufacturer of such boards and other technical glass fabrics, operating several plants in China and Taiwan, occasionally experienced tiniest unevenness on the surface of its PCB boards. Particular defects originated from exactly that woven glass fabric, eventually caused by minute filamentation of the yarn and slightest fluff accumulation during the weaving process. By using FALCON-i optical sensors to monitor the weft insertion during the weaving process, such tiny yet costly defects could easily and reliably be eliminated.

In order to detect even the tiniest yarn irregularities FALCON-i offers extensive sensitivity levels, allowing customers to fine-tune the ratio of machine stoppages caused by necessary quality control stops. Any manufacturer of demanding technical fabrics and composite textiles used in applications such as PCB manufacturing, automotive, architecture, filtration, aeronautics, medical and carbon industry can highly benefit from this type of versatile quality monitoring sensor. The implementation of FALCON-i optical yarn defect sensors in the quality control of any running yarn throughout the manufacturing process of fabrics is simple and easy.

FALCON-i's unique flexibility to select the level of quality control enables technical fabrics manufacturers to respond quickly and flexibly to market trends, demand and developments.

Are you confronted with similar problems? Get in touch with us - Whatever your challenge, we're waiting, ready to accept it!

Photo



WeftMaster FALCON-
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About Loepfe

Loepfe Brothers Ltd. has established itself in the field of optical yarn clearers with pioneering achievements. Today Loepfe is recognized worldwide as the specialist for integral quality control systems. Fifty percent of the worldwide yarn production is monitored by Loepfe yarn clearers.

The Loepfe headquarters are in Wetzikon / Switzerland near Zurich where the company employs close to 150 people. The Swiss production location guarantees stability and reliability. All Loepfe products are developed and manufactured in Switzerland. Loepfe quality is based on the employees' unique know-how and many years of experience. Loepfe invests systematically in research and development of state-of-the-art technology, with its understanding of the complex requirements of the textile industry.

Loepfe lays the foundation for the international success of its textile quality assurance systems with sustainable products and highly personalized customer service. Loepfe is represented in all important textile markets via an international network of 90 agents and service representatives in 70 countries worldwide. Loepfe offers training and further education and ensures efficient local quality management at senior level.

https://www.loepfe.com/

About Savio Group

Savio is the world leader in the yarn finishing sector, operating in the design, manufacturing and distribution of winding machines, quality control devices and electronic boards for the textile industry. It has factories in Italy, China, India, Belgium, Germany and Switzerland. Established over a century ago, Savio has evolved over the years through intense Research & Development, highest manufacturing flexibility and high quality standards. Global dimension, extreme flexibility and productive excellence are Savio's principal strategic assets, while the group continuously reviews, renovates and consolidates its leadership to reflect changing world market needs over time.

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