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Automatic slit control ensures that nonwoven rolls are rated accurately, reliably and predictably

Better than the human eye: maximizing roll quality and calculating precise defect locations when fabric is stretched

Nonwovens require a high degree of process reliability that allows those products to be manufactured to the highest standards of quality. Here, it is important not only for defects to be detected but also for the entire manufacturing process to be fully monitored. A new technology is now able to accurately calculate defect locations in the slitting machine and precisely determine the quality of cut to spec secondary rolls, thus helping manufacturers to maintain the quality of their production while maximizing earnings.

Fast as lightning and equally impressive: during the manufacture of nonwovens, often used for various hygiene articles or baby diapers, material webs move at very high speeds. Through the so-called "necking", defect shift positions during cutting, thereby migrating to different secondary roll. This renders the original quality rating unreliable and causes the original rating to be recalculated.

Necking is indeed a source of headaches for many manufacturers. Because of the need for a precise determination of the quality of the secondary roll, it is essential to know which types of defects are in which secondary roll. With the development of the automatic slip control, a new solution has emerged that can be used to predict the exact path of defects. The new technology combines defect information from the surface inspection with predefined process parameters.

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Accurate assessment of path of defects and the quality of the wound-up rolls

Automatic slit control calculates error positions via predefined algorithms, allowing for the quality of the wound-up rolls to be measured with a high degree of accuracy. This puts manufacturers in a position to match rolls with customer requirements or consign them to the reject pile. The software not only detects quality-related defects but also captures process-related defects, allowing operators to intervene directly in the process to once again optimize production. Thanks to precision process control, those high quality standards can also be reliably verified during audits.

This new technology is a jack of all trades because it can be used for paper, plastic or foils, in addition to nonwoven materials. Automatic slit control helps manufacturers to continually improve the quality of their production and maximize the yield at the same time. This new technology is also part of a comprehensive solution portfolio and is complemented by numerous applications that are useful beyond inspection.

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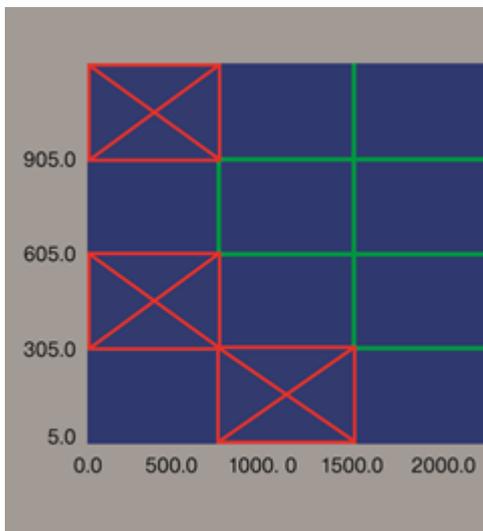
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Images



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Material elongation, so-called “necking”, causes defects to migrate to different positions, resulting in a possible change to the quality of secondary rolls.

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