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DANCER ROLL

Dancer Roll

Maxson Automatic Machinery Company (Westerly RI USA) has incorporated into the web conditioning system of its high speed precision sheeters a dancer roll design. The enhancement allows the rotary cutter to accurately maintain sheet length at high speeds regardless of the concentricity of the roll being converted.

Rolls damaged during handling can affect sheet length accuracy and operating speed. For example, an egg-shaped roll cause a “taut-slack” web condition as it is unwound. This produces a series of short and then long sheets. Operators compensate for egg-shaped rolls by running the sheeter slower to lessen the “load-unload” condition. The preferred solution is to install an air loaded dancer roll between the unwind stand and the infeed of the cutter. By threading the web around the low inertia dancer roll, web fluctuations are absorbed and provide a smooth flow into the cutter. The responsiveness of the dancer roll can be adjusted by varying the air pressure fed to the dancer roll cylinder.

Features

- Independent dancer roll between roll stand and cutter
- Variable setting of air pressure
- Ability to respond to "taut – slack" web conditions

Benefits

- Accurately maintains sheet length at high speeds regardless of the concentricity of the roll being converted
- Provides flexibility in dampening web fluctuations caused by out of round rolls
- Achieve higher speeds while maintaining precise cut off

Specifications: Imperial / Metric

- Maximum Web Width: 100" / 2540 mm
- Pneumatic Requirement: 75 PSI / 7 kPa