Efficient doctoring for creping

The Conformatic XL creping holder’s robust design allows use on today’s high speed tissue machines under high doctor loading pressures in the Yankee creping positions. The new design has extended the load capability of the holder to 80 pli (14 kN/m). By automatically maintaining uniform pressure to the running blade, the Conformatic XL creping holder delivers uniform sheet quality, reduced Yankee cylinder wear, and extended blade life.

The Conformatic XL principle

The Conformatic XL doctor blade holder extends use of the Conformatic tube. This important design feature, present in all Conformatic holder designs, allows for automatic OTR (On-the-run) profile adjustment by the holder. Once set to a hot static profile of the Yankee crown during initial adjustment, the holder has the ability to follow any variations in the roll surface during operation using the Conformatic tube. The tube senses roll variation due to coating, heat, or other parameters and follows the roll profile, thereby transmitting uniform blade pressure across the roll surface. For applications up to 25 pli, the Conformatic tube is liquid based. However, for higher load applications, a new generation polymeric Conformatic tube allows for similar performance without concern of tube rupture at higher loading pressures. Another design innovation includes use of Kadant’s patented uni-directional synthetic blade technology for the composite backing blade. With five times more flexibility in the cross direction than in the machine direction, the composite backup blade enhances the uniform transmission of the pressure profile from the Conformatic tube to the creping blade tip.

Economical operation

The Conformatic XL doctor blade holder’s automatic compensation allows operating pressure to be reduced, resulting in extended blade life and reduced Yankee drive load.

Holder hygiene

The open segmented design reduces the accumulation of dust and allows for easy one-step cleaning. An air/fluid shower option, which can be integrated with the holder assembly, permits on-line intermittent cleaning at the touch of a button.

Rapid blade changing

The Conformatic XL doctor blade holder is designed for rapid blade changes. Cartridge design of the holder allows use of different blade widths in ¼” (6 mm) increments ranging from 4” to 5” (100 mm to 125 mm) wide blades while maintaining the same stickout. Change of the blade width can be accommodated by changing a cartridge that is inserted and removed just like a blade. This has solved the age old problem of troublesome ladder strips which are often difficult to remove and reinsert.
**Accurate adjustment**

The main body of the Conformatic XL is profiled to the hot Yankee crown with the profile adjustment screws. In the past, tissue makers did not have the ability to profile holders outside sheet runs for the secondary Yankee crown. Edges which are often the most troublesome areas for tissue makers require a higher degree of adjustment. The patented edge relief finger system allows for precise adjustment of the blade to the Yankee surface outside the sheet run. On a creping holder, these fingers can be completely relieved to allow for reduced blade wear and prolonged blade life. On cleaning holders, this system allows for adjustment into the Yankee to clean the edges to prevent edge buildup. In either use, the system allows for an adjustment to suit the application need and the Yankee roll crown. Overall, the holder can be manually adjusted to compensate for an overall Yankee crown variation of \( \frac{3}{16} \) (4 mm).