## HANDLING RECOMMENDATIONS Contact pads for damage-free handling of printing papers



Damage reduction experts in the printing industry are on a mission: to rid their supply chains of out-of-round and damaged rolls. Cascade offers a solution with high-friction, resilient contact pads, such as rubber or urethane, whose frictional characteristics hold rolls securely with minimal clamp force.

### The Challenge

High-speed presses have become so fast that some newspaper and printing companies reject rolls that are 5 mm out-of-round. And when rolls are often handled 13 times from the paper mill to the press, that's 13 chances the roll may be overclamped because of excessive clamp force.

#### **The Solution**

High friction contact pads hold coated and uncoated paper rolls securely with less clamp force. Rubber and urethane faced pads offer more friction than a standard cast metal pad, so less clamp force will hold a paper roll. This is especially important for newsprint rolls, which are more easily damaged by excessive clamp force.

Stuart Mason is Material Handling and Damage Prevention Specialist at Norske Canada, a leading printing paper company. According to Stuart, "One of the biggest challenges we face is educating customers that rubber or urethane pads offer the best method to reduce clamp force and minimize the chance of causing an out-of-round roll."



Cascade's UDP (Urethane Domed Profile) pad, shown here, features a domed oval surface that prevents suction cup action in humid climates and increases the resiliency of the pad surface.

# Contact pads for damage-free handling of printing papers

### Use pads with a rubber or urethane surface

The paper industry uses a clamp force factor, or CFF, to determine how much force can be applied to a roll without damage.

The industry standard CFF for newsprint is 1.3 to 1.6. This means that a newsprint roll weighing 1,000 lbs should have a maximum clamp force applied of 1,600 lb<sub>f</sub>. A lower CFF is preferred. Cascade recommends that drivers carefully check that the chosen CFF will securely hold the roll.

Rubber and urethane pads have high-friction surfaces, which hold the roll securely with less clamp force. Without the use of resilient pads with high-friction surfaces, this CFF target is difficult to attain.

Another key benefit of using rubber or urethane pads is the decrease in paper damage from cuts and indentations caused by less forgiving metal pads.



### Cascade offers three special pad types for reducing clamp force on printing papers.



### RXH Series (Rubber Cross Hatched)



UDP Series (Urethane Domed Profile)



Flexipad

A diamond pattern rubber surface is bonded to a replaceable flexible spring steel backing. Pad conforms to the roll radius.

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Both the non-marking rubber with cross hatch surface and the urethane surface with oval domes offer excellent friction. Both pads are durable. Although nearly equal in friction, the UDP urethane pads glide more easily past tightly stacked rolls.