

A Proven Leader

WCCO Belting, Inc., the leading manufacturer of specialized rubber conveyor belting for both agricultural and light industrial uses, is once again redefining the industry with its latest significant innovation: the Raptor draper belt technology.

The patent-pending Raptor technology reflects WCCO's extensive knowledge and experience. Founded in 1954 in Wahpeton, North Dakota, USA, WCCO is the largest in its industry and has more engineers on staff than all of its direct competitors combined. WCCO serves customers worldwide in the agricultural and light industrial industries.

The Raptor draper technology is a technological breakthrough.



WCCO BELTING INC.

1998 N. 9th St. • Wahpeton, ND 58075 • USA
701-642-8787 • www.wccobelt.com

Raptor is a trademark of WCCO Belting, Inc.



**adelaide
belt & hose**

42 Scotland Road, Mile End 5031
Phone: 08 8234 1155
Fax: 08 8234 2255
email: sales@abhose.com.au
www.beltandhose.com.au

REDEFINING PERFORMANCE



BELTING INC.

The most significant technical
advancement in 25 years!



Introducing Raptor

The patent-pending Raptor technology is the first draper to use 100% polyester filament yarns rather than spun polyester fibers while using the benefits of both skim coating and friction coating rubber.

The Raptor draper belt is made of filament fabric, immediately making it stronger and more durable.

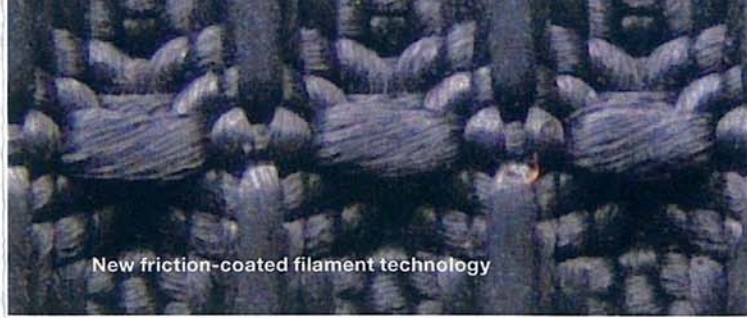
Pound for pound, a filament fabric WILL ALWAYS outperform a similar spun fabric with higher tensile, tear and puncture resistance.

The Raptor draper belt features a friction coat on the underside of the belt and a skim coat on top. The result: Optimal Protection with Less Drag.

Previously it wasn't possible to friction coat filament fabric because the surface was too smooth for the rubber to form a strong bond—until now! The Raptor's patent-pending filament fabric is the first that can be both friction coated and skim coated.

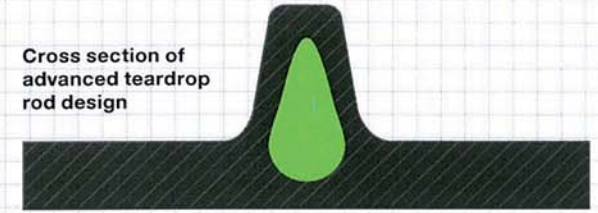
How is this done? The Raptor filament fabric is engineered with a series of depressions that allow the raw rubber to sit in those pockets. Extreme heat and pressure are then applied so that it permanently bonds with maximum adhesion to the fabric. By using friction coating on the bottom side of the Raptor belt, the belt weighs less and drags less, thereby using less energy. Using a thicker skim coating on the top provides the maximum durability and protection from the environment. It is the best of both worlds.

Simply put, the Raptor is much more than just a cosmetic change. The Raptor is the most significant technical advancement for draper belting in 25 years!



New friction-coated filament technology

Cross section of advanced teardrop rod design



The Filament Advantage

Filament fabric is made from continuous filament yarns. Spun fabric is made from many short fiber pieces that are twisted together to produce the yarns that are then woven to produce the fabric. While spun is strong, it cannot compete with the higher tensile, tear and puncture resistance of a filament. In fact, when similar in weight, the filament fabric will typically be two to three times stronger than the spun!

Skim and Friction

To move crops effectively and efficiently, rubber is applied to the fabric with either a skim coat or a friction coat. Each method has advantages and disadvantages. Skim coating is a thicker protective layer of rubber that encases the fabric for durability, but it increases the belt's weight and drag. Friction coating is a protective coating that permanently impregnates the rubber into the pores of the fabric. While it reduces weight and drag, it does less to protect the fabric from the environment.

More Advantages

The Raptor draper belt features an innovative teardrop-shaped fiberglass reinforcement rod inside of the cleat for increased stiffness, making the Raptor significantly stiffer in the cross direction than its competition.

The belt may also include the original equipment manufacturer-specified V-guide on its underside to improve proper tracking regardless of harvesting conditions.

Performance Where It Counts

The Raptor draper belt has undergone several years of field tests with excellent results. With the superior strength of filament fabric combined with the advantages of friction and skim coated rubbers that are vulcanized under extreme heat and pressure, it is no wonder that the Raptor outperforms all others where it counts—in the field!

