

Trelleborg expands polyurethane roller range

Trelleborg's Rollers & Belts operation continues to push forward the boundaries of what can be achieved in the field of tissue converting with two upgrades to its range of polyurethane coverings for its tissue converting rollers – the new Rollin Pless Plast 4 and Press Plast 4D.

Guillaume Bordais, Sales and Business Development Manager for Rollers and Belts, says: "Rollin Press Plast 4 contains a new polyurethane covering specifically designed for marrying rolls in the process of tissue converting. This incorporates several features that enable higher levels of productivity. For example, antistatic properties prevent the deposit of residues on the roller and allow for an easier cleaning operation."

Other features include an extended mechanical stress resistance and longer lifetime, plus excellent bonding of materials during production. Rollin Pless Plast 4 offers a high abrasion resistance, good dimensional stability and low surface roughness. There is a concentricity tolerance of $< 20 \mu\text{m}$ and a cylindricity of $< 50 \mu\text{m}$. The blue roller has a hardness of 90 to 98 Shore A and a maximum working speed of 800 m/min.

"Press Plast 4D combines the advantage of both Shore D and Shore A hardness. The 90 Shore A inner layer allows the rubber covering to be flexible and is able to adapt to the different settings of a lamination unit, which may change according to the final product configuration. The outside 65 Shore D layer enables perfect bonding of plies, whatever their number. Re-embossing of the bottom ply is prevented by the high pressure applied in the narrow nip footprint."

A wide range of features has been built into this latest roller covering and these are designed to improve quality and productivity – antistatic properties, abrasion resistance, dimensional stability, low surface roughness, extended mechanical stress resistance, ability to match different nip footprints, plus increased specific pressure which allows a narrow nip footprint. The concentricity



tolerance is < 20 µm and the cylindricity < 50 µm. Running speeds can be up to 800 m/min, while the maximum load is 70 kg/lcm.

“Press Plast 4D withstands load changes while maintaining an even nip footprint and is therefore suitable for the most versatile production situations,” says Guillaume Bordais. “The ability to clean the roller easily and quickly reduces downtime, while the outstanding rebound of the compound allows perfect assembly of the plies, preserving production thickness, with an even bulk along the entire log.”

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For more information or high-resolution images, please contact:

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Profile of the Trelleborg group and Trelleborg’s printing solutions operation:

Trelleborg’s printing solutions operations, part of Trelleborg Coated Systems, offers first class solutions for the printing industry with worldwide recognized brands, such as Vulcan®, Rollin®, Printec®, Sava and Axcyl. Its solutions are leading edge in the offset and flexo printing markets for a variety of applications including newspapers, magazines, catalogs, business forms, labels, metal decorating and packaging. www.trelleborg.com/printing

Trelleborg’s Rollers & Belts operations manufacture and distribute Rollin rubber and polyurethane roller coverings for any converting industries, including tissue and packaging, as well as rubber belts for textile shrinking. With a dedicated manufacturing facility in France and a global Research and Development center, our solutions accelerate performance for customers in a sustainable way.

Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has annual sales of about SEK 32 billion (EUR 3.28 billion, USD 3.69 billion) and operations in about 50 countries. The Group comprises five business areas: Trelleborg Coated Systems, Trelleborg Industrial Solutions, Trelleborg Offshore & Construction, Trelleborg Sealing Solutions and Trelleborg Wheel Systems. The Trelleborg share has been listed on the Stock Exchange since 1964 and is listed on Nasdaq Stockholm, Large Cap. www.trelleborg.com

