

PLATINUM



MEGADYNE

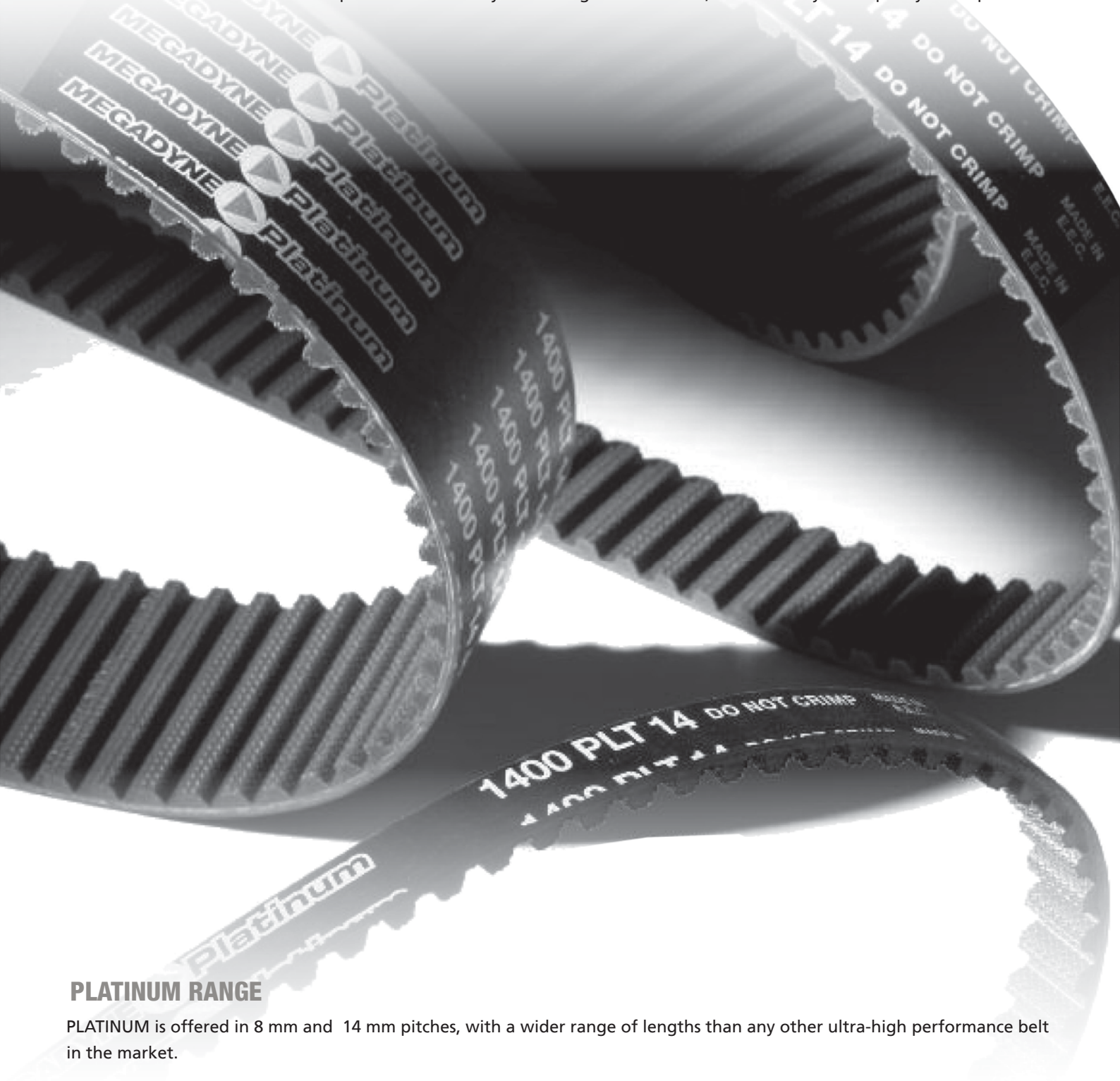


PREMIUM RATED SYNCHRONOUS BELTS

PLATINUM is an Ultra-High Performance, rubber-based synchronous power transmission belt possessing "Dual Core" Hybrid Tensile Cord Technology combined with a nitrile-based HNBR compound body resulting in a product capable of handling the most demanding high-power, high-torque drives.

PLATINUM was designed to replace drives using Roller Chain and Gears. The PLATINUM design achieves a high-power capacity drive with excellent dimensional stability and a fully-functional interchange with all of the most common existing deep pulley tooth profile systems.

Our labs and technicians originally gave birth to the popular RPP, an industry standard. With PLATINUM, Megadyne has created the new "RPC" belt tooth profile which is fully interchangeable with RPP, HTD and Poly Chain pulley tooth profiles.



PLATINUM RANGE

PLATINUM is offered in 8 mm and 14 mm pitches, with a wider range of lengths than any other ultra-high performance belt in the market.

STRUCTURE

① BODY COMPOUND

An innovative design and blend of HNBR elastomers uniquely cross-linked to increase teeth rigidity and shear resistance.

Despite the high levels of rigidity and hardness, this compound guarantees an exceptional resistance to flex fatigue, preventing the appearance of cracks when working with very small pulleys.

Tests have shown a dramatic improvement in the flex fatigue resistance.

② TENSILE CORD

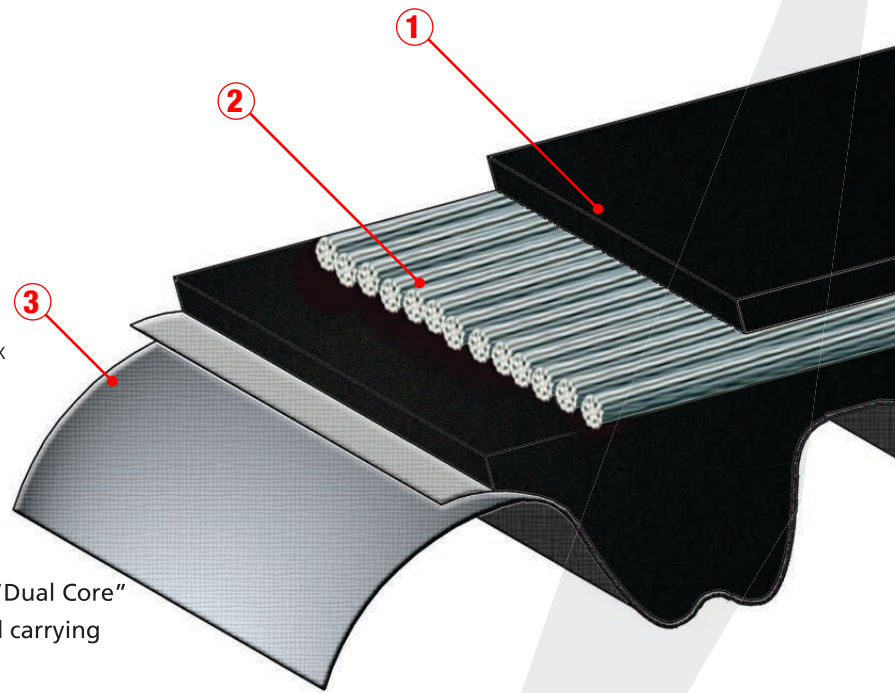
The tensile member is made with our innovative “Dual Core” hybrid cord technology and it constitutes the load carrying element inside the New PLATINUM belt.

The “Dual Core” technology gives PLATINUM extreme dimensional stability under static and dynamic tension, in addition to superior flex fatigue resistance.

These characteristics eliminate the need for retensioning, providing true maintenance-free operation and guaranteeing perfect tooth mesh for long lasting service with reduction of abrasion, vibration and noise. The higher elastic modulus (low elongation) of PLATINUM, and its superior flexibility, allow consequently more compact drives and durability.

③ TOOTH FACING FABRIC

A hard-wearing polyamide fabric is bonded to the tooth surface, improving torque carrying capacity and tooth shear resistance. Its special surface impregnation confers self-lubricating properties, a lower co-efficient of friction and increased drive efficiency.



MAIN FEATURES

- For New Designs and Extreme Drives, PLATINUM performs where competitive ultra-high performance belts have restrictions, such as high temperature, oily environment, use of backside idlers and special widths. PLATINUM performs at 98% efficiency and can have an expected average efficiency as much as 5% over V-belts.
- PLATINUM offers greater drive flexibility with the RPC belt tooth profile being compatible on multiple pulley types. Older tooth profile technology (RPP®, PCGT®, PowerGrip® GT® 2, HTD®) can be significantly upgraded with PLATINUM by allowing the use of existing pulleys.
- PLATINUM belts are stocked as sleeves. This means we can cut the belt to any desired width, giving the flexibility to design any drive width required. Jason is equipped to cut the desired belt width and promptly ship.
- The range of available PLATINUM lengths is wider than competitive ultra-high performance belts.
- HNBR Rubber-Based Technology is quieter than comparable Polyurethane belts
- PLATINUM can operate without problems in environments from -35°C up to 115°C compared to a much more restricted range for PU belts.