

PLATINUM
THE NEXT GENERATION
SYNCHRONOUS BELT

 **Jason**
Industrial Inc.®
A **MEGADYNE GROUP** CO.

PLATINUM BELT

Jason Industrial® is a Megadyne Group company that manufactures and delivers a comprehensive inventory of rubber and polyurethane synchronous belts, rubber v-belts, industrial hose and couplings, plus hardware to the industrial community worldwide.

When extraordinary needs require specialized components, we will work with you from prototype to production, creating custom solutions that suit your unique application.

As a Jason customer, you can feel confident in the quality and integrity of our products, the speed and efficiency at which they are delivered, and the expertise and customer focus that our local representatives are committed to providing.

Jason's corporate headquarters are based in Fairfield, New Jersey. Our distribution center is located just outside of Chicago, Illinois, with additional corporate offices in Canada, Mexico, Brazil and Colombia, as well as manufacturing, warehousing and distribution centers in cities across the globe.

Welcome to Jason...the first name in mechanical rubber and urethane products that power industry forward.

WHAT IS PLATINUM?

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 DESIGN

PLATINUM was designed to replace drives using Roller Chain and Gears, and is an alternative to Poly Chain® on these drives. 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.



NEW "RPC" BELT TOOTH PROFILE

With **PLATINUM**, Jason Industrial has created a new "RPC" belt tooth profile. An evolution of the industry standard RPP, the new "RPC" belt tooth profile is fully interchangeable with HTD®, RPP®, and Poly Chain® pulley tooth profiles.



AVAILABLE FROM STOCK!
**The New DTM Tension Measuring
Device from Kompakt**



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PLATINUM ADVANTAGES

HIGHEST PERFORMANCE SYNCHRONOUS BELT!

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.

INTERCHANGEABILITY!

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.

AVAILABLE IN ANY WIDTH!

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.

GREATER LENGTH RANGE!

The range of available **PLATINUM** lengths is greater than competitive ultra-high performance belts. Over 70 sizes available!

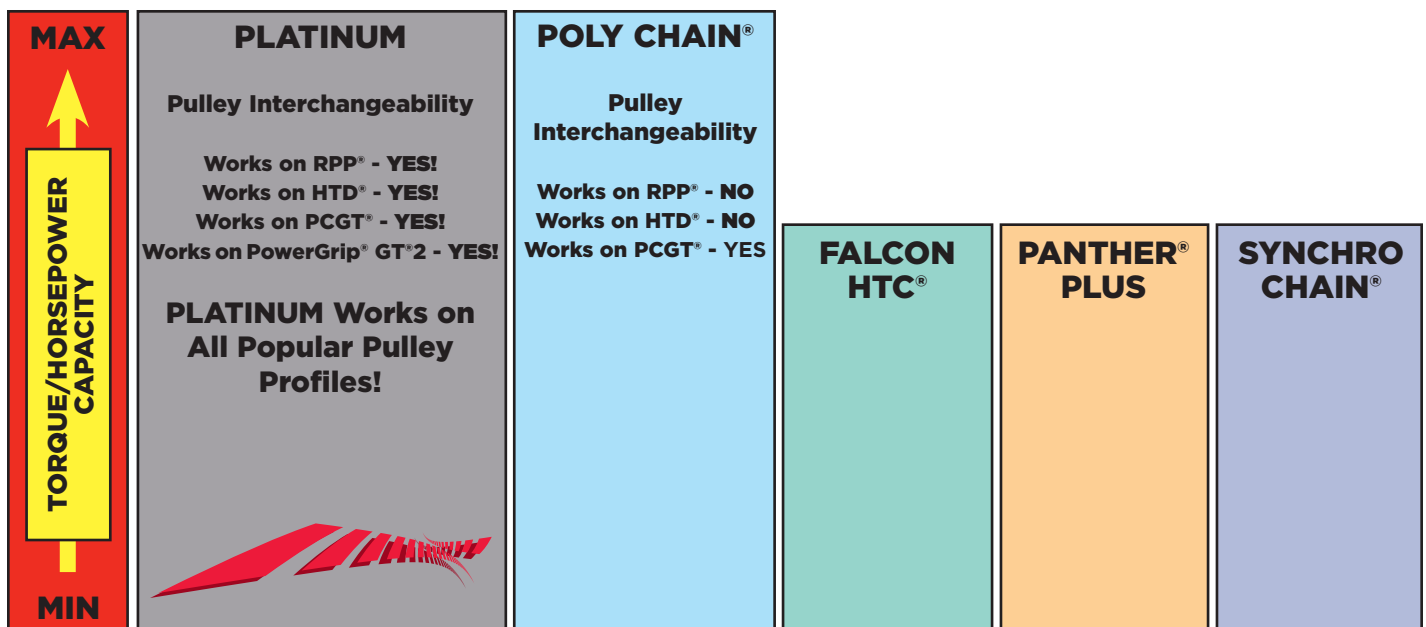
LOWER NOISE!

HNBR Rubber-Based Technology is quieter than comparable Polyurethane belts. Sound tests confirm rubber belts are quieter!

WIDER RANGE OF OPERATING TEMPERATURES!

PLATINUM can operate without problems in environments from -31°F up to 239°F. Comparable Polyurethane systems are restricted to -65°F up to 185°F.

ONLY PLATINUM HAS BOTH MAX PERFORMANCE AND PULLEY INTERCHANGEABILITY



RPP and Panther are registered trademarks of Carlisle Power Transmission Products Inc. Poly Chain, HTD, PowerGrip and GT are registered trademarks of the Gates Corporation. Falcon is a registered trademark of Veyance Technologies, Inc. Synchrochain is a registered trademark of the Continental Corporation.



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STRUCTURE

The new **PLATINUM** belt is made with the most innovative materials of the highest quality. The extensive development and tests performed have resulted in a synchronous belt that has:

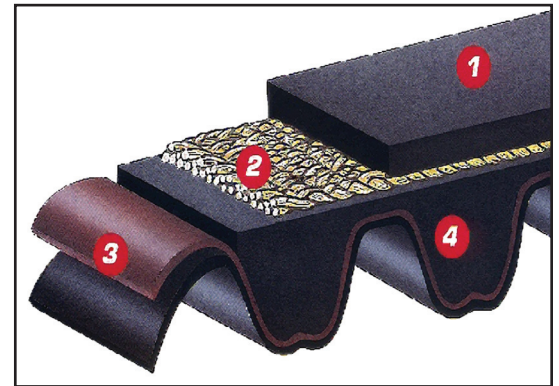
- The highest belt tension and length stability
- Longer drive lifetime due to higher power capacity and flex fatigue resistance
- More compact and lightweight drives under the same power ratings
- Increased resistance to abrasion and tooth shear under pulse loads

THE BELT BODY (#1 & #4)

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 an incredible improvement in the flex fatigue resistance.

Furthermore, this compound is formulated to considerably resist the effects of mineral oils and offers an incredibly wide range of working temperatures: from -31°F up to 239°F (-35°C to 115°C) and withstands peaks up to 275°F (135°C).



TENSILE MEMBERS (#2)

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.

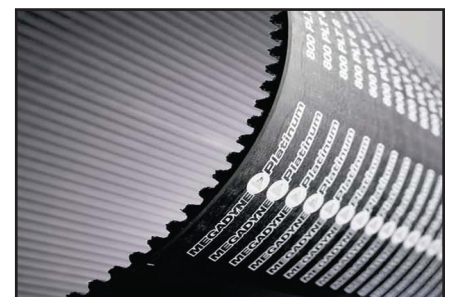
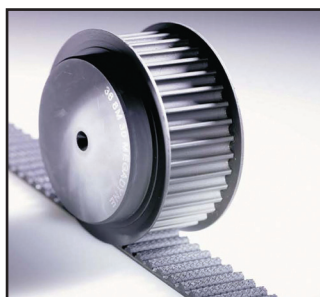
The “Dual Core” technology gives **PLATINUM** extreme dimensional stability under static and dynamic tension, in addition to superior flex fatigue resistance.

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.

TOOTH FACING FABRIC (#3)

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.



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STANDARD BELT LENGTH RANGE

PLATINUM Belts are manufactured in 8mm and 14mm pitch.
Standard lengths listed below. Belts available in any desired width.

BELT TYPE 8M	PITCH LENGTH (mm)	NUMBER OF TEETH
248PLT8M	248	31
288PLT8M	288	36
352PLT8M	352	44
416PLT8M	416	52
456PLT8M	456	57
480PLT8M	480	60
544PLT8M	544	68
560PLT8M	560	70
608PLT8M	608	76
640PLT8M	640	80
720PLT8M	720	90
800PLT8M	800	100
840PLT8M	840	105
880PLT8M	880	110
896PLT8M	896	112
960PLT8M	960	120
1000PLT8M	1000	125
1040PLT8M	1040	130
1080PLT8M	1080	135
1120PLT8M	1120	140
1200PLT8M	1200	150
1224PLT8M	1224	153
1280PLT8M	1280	160
1440PLT8M	1440	180
1600PLT8M	1600	200
1760PLT8M	1760	220
1792PLT8M	1792	224
1800PLT8M	1800	225
2000PLT8M	2000	250
2200PLT8M	2200	275
2240PLT8M	2240	280
2400PLT8M	2400	300
2520PLT8M	2520	315
2600PLT8M	2600	325
2800PLT8M	2800	350
2840PLT8M	2840	355
3048PLT8M	3048	381
3200PLT8M	3200	400
3280PLT8M	3280	410
3600PLT8M	3600	450
4000PLT8M	4000	500
4400PLT8M	4400	550

BELT TYPE 14M	PITCH LENGTH (mm)	NUMBER OF TEETH
994PLT14M	994	71
1092PLT14M	1092	78
1120PLT14M	1120	80
1190PLT14M	1190	85
1260PLT14M	1260	90
1288PLT14M	1288	92
1400PLT14M	1400	100
1568PLT14M	1568	112
1610PLT14M	1610	115
1750PLT14M	1750	125
1890PLT14M	1890	135
1960PLT14M	1960	140
2100PLT14M	2100	150
2240PLT14M	2240	160
2310PLT14M	2310	165
2380PLT14M	2380	170
2450PLT14M	2450	175
2520PLT14M	2520	180
2590PLT14M	2590	185
2660PLT14M	2660	190
2800PLT14M	2800	200
3136PLT14M	3136	224
3304PLT14M	3304	236
3360PLT14M	3360	240
3500PLT14M	3500	250
3850PLT14M	3850	275
3920PLT14M	3920	280
4326PLT14M	4326	309
4410PLT14M	4410	315

PLATINUM belts are stocked in sleeve widths. This allows Jason to supply any belt width desired - we can promptly cut-to-width and ship the required belt.



Jason Industrial Inc.®
A MEGADYNE GROUP CO.

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