

The TCO Drive Solution: Energy Efficient – Maintenance Free

The HTR and HTRC belt drive systems are the latest generation in the DODGE® synchronous line of drive products. This system utilizes DODGE HTR and HTRC Tracker™ belts, which have a Reinforced Parabolic Profile (RPP) tooth design allowing the belt teeth to sit deeper in the sprocket compared to standard belts. Combining these belts with DODGE Taper-Lock® sprockets yields our most power dense synchronous drive system.

Standard Features

Virtually maintenance free

- Requires no oil or grease.
- No need to re-tension the belts.
- Compact, maintenance free design.

Reinforced Parabolic Profile (RPP)

- Allows synchronous transmission of power eliminating slippage and speed variation on high torque applications.
- Low installation tension reducing loads on other power transmission components (i.e., bearings, gearing, motors, etc.)
- Delivers power up to speeds of 10,000FPM (standard hardware is rated for 6,500 FPM, contact DODGE if greater speeds are required.)
- Superior meshing characteristics with the sprocket.
- Reduces sprocket wear due to friction.
- Higher power ratings than comparable timing belts.
- Quieter operation.
- Broad speed ratio range.

DODGE belts utilize materials that achieve the highest standard of quality and performance in the industry allowing the superior torque capacity needed for high performance.

- Belt backing is precision ground neoprene rubber designed for maximum resistance to environmental conditions such as oil, grease and flex fatigue.
- Advanced fiberglass cord provides superior tension stability in static and dynamic conditions and does not absorb moisture, preventing belt shrinkage and stretch.
- Belt construction helps reduce the belt installation tension increasing the life of the other mechanical components.



- Idlers can be used on the backside or frontside of the belt.
- Belt teeth are enclosed in a graphite nylon fabric delivering resistance to abrasion and tooth shear, increasing drive efficiency, belt and sprocket life.
- Neoprene rubber provides flexibility during install, providing easier installation.

What does the sprocket bring to the DODGE synchronous drive system?

The synchronous sprockets are manufactured with high quality materials and are machined to the highest quality standards to ensure a perfect match between the sprocket and belt, maximizing the drive performance. DODGE sprockets are manufactured in Weaverville, NC; recently voted one of Industry Week's Best Plants for 2008. Our Taper-Lock sprocket design advantages:

- Minimizes overhung load by positioning the belts center line closer to motor, reducer and bearings.
- Requires less shaft length than QD style product.
- Offers more bore sizes per bushing size than QD style product.
- Delivers more torque than QD style product.
- Has no protruding flanges or bolt heads.
- New anti-corrosion coating provides superior rust prevention.

The DODGE line of synchronous sprockets offers more tooth configurations than other synchronous products in the marketplace. Combined with our extensive belt offering, DODGE offers the greatest opportunity for speed and center distance matching while achieving power ratings up to 1,200 hp.

Synchronizing these three components; RPP profile, high quality belt materials and precision machined Taper-Lock sprockets, together make the DODGE HTR and HTRC Tracker Synchronous Drive Systems the TCO solution for the marketplace.

Interchange Tables for DODGE HTR Tracker™

8M (8mm) Belt-Pitch

Company	Trade Name	Company's Nomenclature	Tooth Profile	Standard Belt Widths	Dodge Nomenclature
Browning	HPT®	B12008M20	RPP®	20mm, 30mm, 50mm, 85mm	1200-8M-20 HTR BELT
T.B. Wood's	Synchronous Plus	12008M20	RPP®	20mm, 30mm, 50mm, 85mm	1200-8M-20 HTR BELT
Carlisle	RPP® - RPP Plus®	1200-8M-20	RPP®	20mm, 30mm, 50mm, 85mm	1200-8M-20 HTR BELT
Goodyear	Hawk Pd™	1200-8M-20	RPP®	20mm, 30mm, 50mm, 85mm	1200-8M-20 HTR BELT

14M (14mm) Belt-Pitch

Company	Trade Name	Company's Nomenclature	Tooth Profile	Standard Belt Widths	Dodge Nomenclature
Browning	HPT®	B350014M85	RPP®	40mm, 55mm, 85mm, 115mm, 170mm	3500-14M-85 HTR BELT
T.B. Wood's	Synchronous Plus	350014M85	RPP®	40mm, 55mm, 85mm, 115mm, 170mm	3500-14M-85 HTR BELT
Carlisle	RPP® - RPP Plus®	3500-14M-85	RPP®	40mm, 55mm, 85mm, 115mm, 170mm	3500-14M-85 HTR BELT
Goodyear	Hawk Pd™	3500-14M-85	RPP®	40mm, 55mm, 85mm, 115mm, 170mm	3500-14M-85 HTR BELT

Interchange Tables for DODGE HTRC Tracker™

8M (8mm) Belt-Pitch

Company	Trade Name	Company's Nomenclature	Tooth Profile	Standard Belt Widths	Dodge Nomenclature
Browning	Panther®	560PTH8M-20	RPP®	12mm, 22mm, 35mm, 60mm	560-8M-35 HTRC BELT
T.B. Wood's	QT Powerchain®	560-8M-20W	RPP®	12mm, 22mm, 35mm, 60mm	560-8M-35 HTRC BELT
Carlisle	Panther® Ultra®	560PTH 8M-20	RPP®	12mm, 22mm, 35mm, 60mm	560-8M-35 HTRC BELT
Goodyear	BlackHawk Pd™	560-8M-BH-20	RPP®	12mm, 22mm, 35mm, 60mm	560-8M-35 HTRC BELT

14M (14mm) Belt-Pitch

Company	Trade Name	Company's Nomenclature	Tooth Profile	Standard Belt Widths	Dodge Nomenclature
Browning	Panther®	2100PTH14M-20	RPP®	20mm, 42mm, 65mm, 90mm, 120mm	2100-14M-20 HTRC BELT
T.B. Wood's	QT Powerchain®	2100-14M-20W	RPP®	20mm, 42mm, 65mm, 90mm, 120mm	2100-14M-20 HTRC BELT
Carlisle	Panther® Ultra®	2100PTH 14M-20	RPP®	20mm, 42mm, 65mm, 90mm, 120mm	2100-14M-20 HTRC BELT
Goodyear	BlackHawk Pd™	2100-14M-BH-20	RPP®	20mm, 42mm, 65mm, 90mm, 120mm	2100-14M-20 HTRC BELT



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