



MECHANICAL DRIVE COMPONENTS

HT500 synchronous belt drives

Reduce maintenance. Improve reliability. Save money.

With 140 years of producing mechanical belt drive products, Dodge is an industry leader. HT500 is the latest generation of high-torque synchronous belt drive systems. The innovative HT500 synchronous belt and sprocket system requires less re-tensioning than V-belts and no lubrication. The result: maintenance-free power transmission.



Keep employees safe

- Downsize large, heavy V-belt drives by up to 50 percent with compact, lighter-weight HT500 synchronous drives, and make installations easier and safer
- Reduce the risk of slipping on grease or oil in workspace area by replacing roller chain with a lubrication-free belt system

Reduce total cost

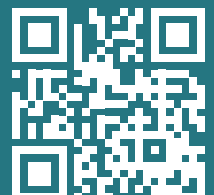
- Eliminate V-belt slip and improve energy efficiency to as high as 98 percent with a positively engaged synchronous drive
- Get more torque from a less-bulky drive and save money upfront with an economical, compact HT500 selection

Extend equipment life

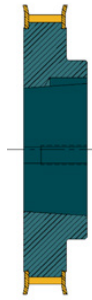
- The design and construction of HT500 can handle more torque than traditional V-belts or synchronous belts. Go longer between belt replacements with HT500 and improve the reliability of your drive
- Synchronous belts require less re-tensioning than V-belts. When properly installed synchronous drives can reduce overhung load on connected equipment, improve reliability, and keep applications running longer

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The HT500 synchronous belt drive product line is one of many examples of the Dodge commitment to customer success. Contact sales or engineering for additional supplier service and support.



• **Mechanically retained flanges**

Dodge synchronous flanges are mechanically retained to ensure no staking or welding of the flanges is required. Flanges can withstand up to 1000 pounds of force before removal from the sprocket

• **Modified-curvilinear belt teeth**

Fewer fatigue points, less wear, less sliding, less noise, low backlash, and a generally more effective design than other synchronous belt tooth profiles, such as trapezoidal, parabolic, or curvilinear toothed belts

• **Carbon fiber cords**

Prevents elongation, a common issue in V-belts and roller chain. Carbon fiber is also capable of higher torque transmission than other common belt cord materials, such as polyester and fiberglass

• **Polyurethane and nylon**

Constructed with a polyurethane backing and black nylon tooth face, the HT500 belt is resistant to wet, abrasive, and high-temp environments up to 185°F

• **Taper-Lock hubs**

HT500 belts are more narrow than older generations of synchronous belts. With Taper-Lock bushings and sprocket hubs, the HT500 package is an extremely compact design. A smaller, lighter assembly is easier to handle during installation and can reduce the overhung load on connected equipment

• **Designed to ARPM/MPTA standards**

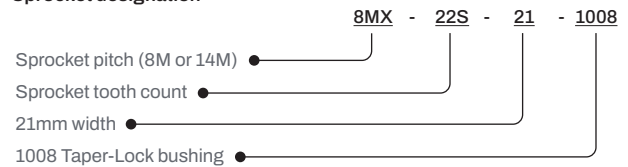
Rugged and reliable sprockets manufactured to the highest quality standards. HT500 sprockets are also protected by corrosion-resistant coatings, including E-coat, making them more resistant to rust and paint chipping than any other line of sprockets on the market

HT500 belt and sprocket sizes

Belt width	Sprocket tooth range	Bushing min - max	Belt length range
8 mm pitch			
12mm	22S - 224S	MPB/1008 - 2517	248MM - 4480MM
21mm	22S - 224S	MPB/1008 - 3020	248MM - 4480MM
36mm	22S - 224S	MPB - 3525	248MM - 4480MM
62mm	22S - 224S	MPB - 3526	640MM - 4480MM
14mm pitch			
20mm	28S - 224S	2012 - 4030	994MM - 4410MM
37mm	28S - 224S	MPB/2012 - 4030	994MM - 4410MM
68mm	28S - 224S	MPB - 5040	994MM - 4410MM
90mm	28S - 224S	MPB - 6050	994MM - 4410MM
125mm	28S - 224S	MPB - 7060	994MM - 4410MM

HT500 part nomenclature:

Sprocket designation



Belt designation

