

DODGE

HT500 synchronous belt drives

Reduce maintenance. Improve reliability. Save money.



For 140 years, Dodge has been an industry-leading manufacturer of mechanical belt drive products.
HT500 is the latest generation of Dodge "high-torque" synchronous belt drive systems. The innovative HT500 synchronous belt and sprocket system requires no retensioning, and no lubrication. The result: **maintenance-free** power transmission.

DODGE®

Keep employees safe

- Downsize large, heavy v-belt drives by up to 50% with compact, lighter-weight HT500 synchronous drives, and make installations easier and safer.
- Reduce the risk of slipping on grease or oil in workspace areas 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% with a positively engaged synchronous drive.
- Get more torque from a less-bulky drive and save money up-front 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 tensioning than v-belts. When properly installed synchronous drives can reduce overhung load on connected equipment, improve reliability, and keep applications running longer.

Easily make selections

- Passport, Dodge's online selection program, quickly and easily designs complete belt drive packages
- From conception to completion, start your journey today at dodgepassport.abb.com

The HT500 synchronous belt drive product line is one of many examples of Dodge's commitment to our customers' success. Contact Dodge sales or engineering for additional supplier service and support!



· 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 & nylon

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



Taper-Lock hubs

HT500 belts are more narrow than older generations of synchronous belts. With flangeless 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 MPTA standards

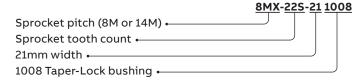
Rugged and reliable sprockets manufactured to the highest quality standards. HT500 sprockets are also protected by corrosion-resistant coatings, including e-coat, making them more resistant to rust and paint chipping than any other line of sprockets on the market

HT500 belt and sprocket sizes

Belt width	Sprocket tooth range	Bushing min - max	Belt length range
8 mm pitch			
12mm	225 – 2245	MPB/1008 - 2517	248mm - 4480mm
21mm	225 – 2245	MPB/1008 - 3020	248mm - 4480mm
36mm	225 – 2245	MPB - 3525	248mm - 4480mm
62mm	225 – 2245	MPB - 3526	640mm - 4480mm
14 mm pitcl	n		
20mm	285 – 2245	2012 - 4030	994mm - 4410mm
37mm	285 – 2245	MPB/2012 - 4030	994mm - 4410mm
68mm	285 – 2245	MPB - 5040	994mm - 4410mm
90mm	285 – 2245	MPB - 6050	994mm - 4410mm
125mm	285 – 2245	MPB - 7060	994mm - 4410mm

HT500 part nomenclature:

Sprocket designation



Belt designation

	<u> 1610 - 14MX-20</u>
Belt pitch length of 1610mm ←	
14mm pitch •	
20mm wide •	

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