

Browning[®]

Think you've reached all the low hanging fruit for energy efficiency in your facility?

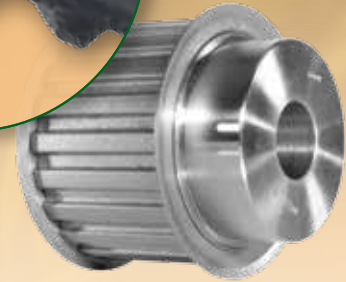
Think again...



EMERSON[™]
Industrial Automation

EMERSON. CONSIDER IT SOLVED.[™]

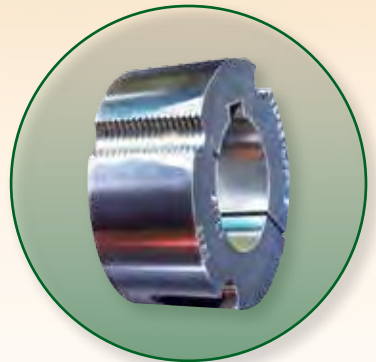
Gearbelt® Drives are offered in five stock pitches to handle a wide range of loads, speeds and applications.



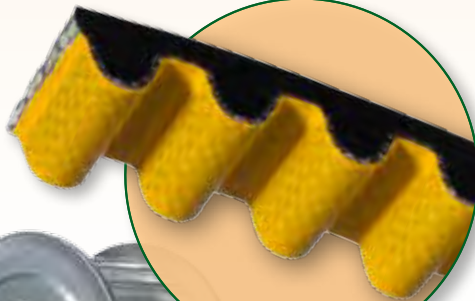
HPT Drives are ideal for mid-range torque applications.



Taper-lock bushings are flush mounted and split through, providing a secure fit on the shaft.



HPT Chain Drives are ideal for high-torque applications, and for applications under 500 RPM.



Gearbelt®

Gearbelt® Drives are offered in five stock pitches to handle a wide range of loads, speeds and applications. Advantages include:

- Constant Speed — No slip, no creep, minimum backlash, because of the positive grip of the belt teeth with pulley grooves
- High modulus strength member — Needs minimum take-up
- Freedom from initial belt tension — Reduces bearing loads, increases life
- Compact design — Gearbelt® belts permit smaller pulleys, shorter centers, narrow belts
- Lightweight — high horsepower-to-weight ratio makes Gearbelt drives ideal for any application where weight is an important factor
- Less heat — because Gearbelt drives generate virtually no friction!
- No lubrication required
- Wide load capacity range
- Wide belt speed range

Gearbelt® Drives offer a choice of the popular BROWNING SPLIT TAPER® bushing or Q-D® bushing for sprocket/pulleys.



Pitch		Gearbelt Pulleys		Gearbelts		
		Grooves	Bore Range*	Belt Width	Pitch Length	No. Teeth
XL	1/5"	10 - 72	MB 3/16 - 1"	1/4 - 5/16 - 3/8" **	6.0" - 26.0"	30 - 130
		10 - 17	FB 3/8 - 1			
L	3/8"	18 - 40	MB 1/2 - 2 3/8	1/2 - 3/4" - 1" **	12.375 - 60.0	33 - 160
		18 - 120	3/8 - 1 3/4			
H	1/2"	14 - 30	MB 5/8 - 2 3/8	3/4 - 1 - 1 1/2 - 2 - 3" **	24.0 - 170.00	48 - 340
		14 - 156	3/8 - 3 3/4			
XH	7/8"	18 - 26	MB 1 - 3 3/4	2 - 3 - 4 - 5 - 6 - 8	50.75 - 175.0	58 - 200
		18 - 120	3/4 - 4 1/4			
XXH	1 1/4"	18 - 90	1 1/8 - 5	2 - 3 - 4 - 5 - 6 - 8	70.0 - 180.0	56 - 144

*MB = Minimum Bore. FB = Finished Bore. Others are bushing type.

** Double Gearbelt available in XL, L & H sizes.

HPT®

Key Info

- Ideal for compact drive footprints
- Lubrication-free drive is a great alternative to traditional chain drives
- Drop-in replacement performance
- Reduced maintenance
- Offered in popular sizes

Common Applications

- Material Handling
- Pumps
- Compressors
- Conveying Equipment
- Food & Beverage

Belt Pitch (mm)	Pitch Length (mm)	Available Widths (mm)
8	480 - 4,400	20 - 30 - 50 - 85
14	966 - 6,860	40 - 55 - 115 - 170

Benefits of new HPT Drives

- High efficiency through a wide range of applications and speeds
- Ideal for mid-range torque applications
- Well suited for applications over 500 RPM
- Nylon tooth facing is graphite loaded, self-lubricating and wear resistant
- Non-aramid fiber tensile member that promotes strength and stability
- Neoprene rubber compound allows for reduced noise levels compared to polyurethane offerings
- Narrow TAPER-LOCK design sprocket allows for compact design



HPT Chain™

Key Info

- High performance compact design
- Drop-in replacement with competitive polyurethane synchronous drive offerings.
- Reduced maintenance
- Offered in popular sizes

Common Applications

- Material handling
- Pumps
- Conveying equipment
- Lumber
- Paper and Pulp
- Food and Beverage



Belt Pitch (mm)	Pitch Length (mm)	Available Widths (mm)
8	248 - 4480	12 - 21 - 36 - 62
14	994 - 4410	20 - 37 - 68 - 90 - 125

Taper-Lock Bushings

Taper-lock bushings are split through and provide a secure fit on the shaft. Taper-Lock bushings keep the sprocket hubs narrow. This allows shaft mounting close to the bearings which prevents problems with overhung loads.



Features:

- Compact Design
- Flush Mounting
- Secure Fit
- Easy on and off
- Ability to handle high torque applications
- Availability in numerous bore diameters

Benefits of new HPT Chain

- 98% efficient through a wide range of applications and speeds
- Ideal for high-torque applications
- Suited for applications under 500 RPM
- Exceptional flexing
- Resistant to chemicals, oils and cuts/abrasion
- Narrow TAPER-LOCK design sprocket allows for compact design

Advantages of Synchronous Drives

- *Very high efficiency*
- *Reduced downtime*
- *Available in popular sizes*
- *Solutions for low, mid and high performance applications*
- *Reduced maintenance*
- *HPT and HPT Chain drive footprints are optimized with the use of flush mounted Taper-Lock bushings*

Customer Service

1 800 626 2120

www.emerson-ept.com



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APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Emerson Power Transmission Corporation and its divisions with respect to the use of products and components is given in good faith and without charge, and Emerson assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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