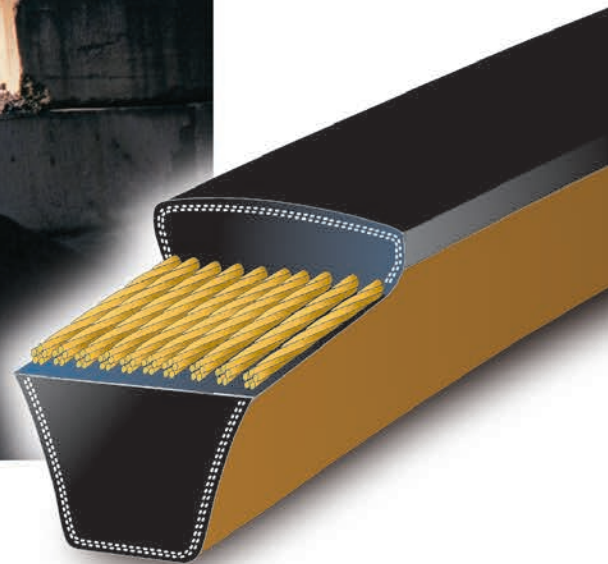




**Premium
Belt Drive
System
for
Tough
Applications**



 **TB Wood's**[®]
Incorporated

An Altra Industrial Motion Company



TB Wood's Premium belt drives are designed for use in a variety of industries such as

- Agriculture
- Forestry
- Mining
- Construction
- Oil Fields
- Pulp & Paper
- Lumber
- Manufacturing

These high performance drive systems are specifically designed for tough applications including:

- Crushers
- De-barkers
- Hogs
- Grinders
- Wood hogs
- Pallet grinders
- Shredders
- Tub grinders
- Auto shredders
- Conveyors
- Shaker screens
- Band Saws

Premium V-belts combined with high tensile, cast iron sheaves provide exceptional performance in aggressive applications

Premium belts have the highest power density of any V-belt, and stretch dramatically less than standard cross sections. That's why they're ideal for use on problem drives requiring high-impact strength and load-carrying power.

Premium Banded Belts

Replaces several belts with the strength of a single belt. Banded belts feature a multiple layer tie band that provides excellent lateral rigidity to prevent belts from turning over or from coming off of the drive.

Premium Singles

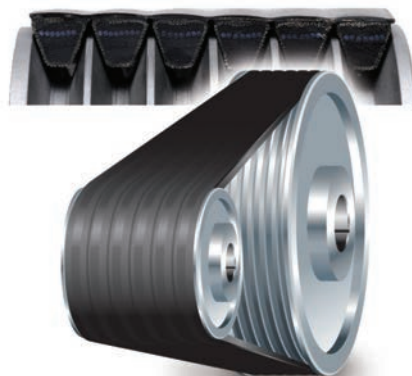
For applications when banded belts are not an option. Single belts can be used with deep groove sheaves and drives with limited room for "take up". They can also be an "A" section solution for multi-groove A/B sheaves.

The Premium Advantage

Premium V-belts can handle 1.4 to 2.2 times more horsepower than the equivalent size standard V-belt. So you can design a more compact drive that weighs less, puts less strain on costlier components, and uses fewer belts as shown in the following example.

Standard

6 Strand 5V drive; Rated HP/Strand: 32.9
Total weight: 265 lbs.



Premium

3 Strand 5VP drive; Rated HP/Strand: 66.8
Total weight: 153 lbs



Check out the eCatalog at www.tbwoods.com for complete belt and sheave product availability.



The Premium belt difference is in the construction

“Clutching” non-rubber surfaced cover

Allows momentary slippage due to excessive overloads without burning belts up

KEVLAR* or aramid tensile cords

Give extraordinary strength, durability and virtually zero stretch

Virtually zero stretch

Eliminates the need for constant belt re-tensioning

Chloroprene rubber compounds

Provide superb oil and heat resistance

Specially-treated extra tough cover

Withstands slip and shear forces at peak loads without generating excessive heat; fends off penetration by foreign materials

Curve design

Compensate for effects such as sidewall bulge, which occur when belts bend around a sheave. This yields uniform loading, giving maximum belt life and even wear on the sheave sidewalls (eliminates dishing)

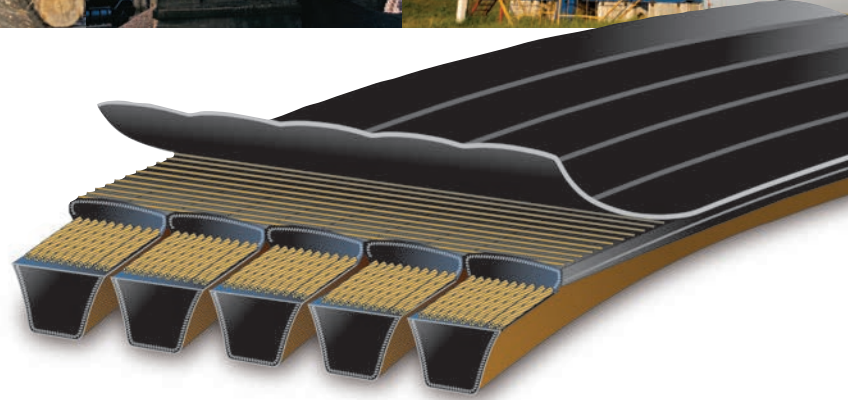
Double fabric cover

Creates maximum abrasion resistance that protects against wear caused by fine airborne dust in rock quarries and lumber mills, which can cause rapid belt sidewall wear resulting in early failures

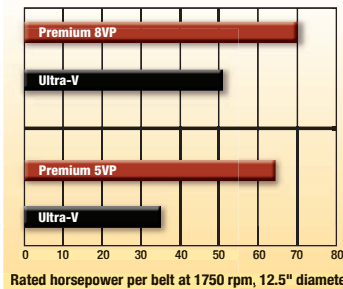
Over 20-50 percent more horsepower than standard V-Belts

Enables new equipment designers to utilize the full load-carrying capacity of these high-performance belts

*KEVLAR® is a registered trademark of Dupont™



Horsepower Rating Comparison



Premium Cross Sections

		Available today in:	Custom to:
Premium Banded Belts	3VP	21 Lengths	10 Strands
	5VP	32 Lengths	16 Strands
	8VP	31 Lengths	12 Strands
Premium Singles	5VP	26 Lengths	
	8VP	15 Lengths	
	APR	29 Lengths	
	BPR CPR	49 Lengths 15 Lengths	

Select high-performance TB Wood's sheaves to get the most from your drive system

When incorporating TB Wood's Premium V-belts, it is important to evaluate the load capacity of existing or specified sheaves. The exceptional strength of Premium belts, combined with tough application environments, may require extra heavy-duty sheaves that can meet the challenge. TB Wood's can design and manufacture a full array of sheaves to meet the specific needs of your application.

- Carefully engineered to assure maximum performance over a long life span
- Constructed of fine grain, high tensile cast iron
- Capacities up to 600 HP from stock
- Bore sizes from 1/2 to 8-1/2 inches
- For use with single or banded V-belts with wrapped construction
- Significant inventory in place to cover most applications
- Application engineer expertise



Electromagnetic Clutches and Brakes

Warner Electric

Electromagnetic Clutches and Brakes

New Hartford, CT - USA
1-800-825-6544

For application assistance:
1-800-825-9050

St Barthelemy d'Anjou, France
+33 (0) 2 41 21 24 24

Precision Electric Coils and Electromagnetic Clutches and Brakes

Columbia City, IN - USA
1-260-244-6183

Matrix International

Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes

Brechin, Scotland
+44 (0) 1356 602000

New Hartford, CT - USA
1-800-825-6544

Inertia Dynamics

Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes

New Hartford, CT - USA
1-800-800-6445

Linear Products

Warner Linear

Linear Actuators
Belvidere, IL - USA
1-800-825-6544

For application assistance:
1-800-825-9050

St Barthelemy d'Anjou, France
+33 (0) 2 41 21 24 24

Couplings

Ameridrives Couplings

Mill Spindles, Ameriflex, Ameridisc

Erie, PA - USA
1-814-480-5000

Gear Couplings

San Marcos, TX - USA
1-800-458-0887

Bibby Transmissions

Disc, Gear, Grid Couplings, Overload Clutches

Dewsbury, England
+44 (0) 1924 460801

Boksburg, South Africa
+27 11 918 4270

TB Wood's

Elastomeric Couplings

Chambersburg, PA - USA
1-888-829-6637 – Press #5

For application assistance:
1-888-829-6637 – Press #7

General Purpose Disc Couplings

San Marcos, TX - USA
1-888-449-9439

Ameridrives Power Transmission

Universal Joints, Drive Shafts, Mill Gear Couplings

Green Bay, WI - USA
1-920-593-2444

Huco Dynatork

Precision Couplings and Air Motors

Hertford, England
+44 (0) 1992 501900

Charlotte, NC - USA
1-800-825-6544

Heavy Duty Clutches and Brakes

Wichita Clutch

Pneumatic Clutches and Brakes

Wichita Falls, TX - USA
1-800-964-3262

Bedford, England
+44 (0) 1234 350311

Twiflex Limited

Caliper Brakes and Thrusters

Twickenham, England
+44 (0) 20 8894 1161

Industrial Clutch

Pneumatic and Oil Immersed Clutches and Brakes

Waukesha, WI - USA
1-262-547-3357

Gearing

Boston Gear

Enclosed and Open Gearing, Electrical and Mechanical P.T. Components

Charlotte, NC - USA
1-800-825-6544

For application assistance:
1-800-816-5608

Bauer Gear Motor

Gearred Motors

Esslingen, Germany
+49 (711) 3518-0

Nuttall Gear and Delroyd Worm Gear

Worm Gear and Helical Speed Reducers

Niagara Falls, NY - USA
1-716-298-4100

Overrunning Clutches

Formsprag Clutch

Overrunning Clutches and Holdbacks

Warren, MI - USA
1-800-348-0881 – Press #1

For application assistance:
1-800-348-0881 – Press #2

Marland Clutch

Roller Ramp and Sprag Type Overrunning Clutches and Backstops

South Beloit, IL - USA
1-800-216-3515

Stieber Clutch

Overrunning Clutches and Holdbacks

Heidelberg, Germany
+49 (0) 6221 30 47 0

Belted Drives and Sheaves

TB Wood's

Belted Drives

Chambersburg, PA - USA
1-888-829-6637 – Press #5

For application assistance:
1-888-829-6637 – Press #7

Engineered Bearing Assemblies

Kilian Manufacturing

Engineered Bearing Assemblies

Syracuse, NY - USA
1-315-432-0700

For information concerning our sales offices in Asia Pacific check our website
www.altramotion.com.cn



www.tbwoods.com

440 North Fifth Avenue
Chambersburg, PA 17201 - USA
888-829-6637 • 717-264-7161
Fax: 717-264-6420