



V-Belt Drive Solutions for HVAC Applications





TB WOOD'S BELTED DRIVES PROVIDE UNMATCHED PERFORMANCE

To meet the ever changing yet very defined specific needs of the HVAC industry, TB Wood's has continued to innovate its products and services in order to provide added value to their HVAC customers by offering the following:

- Breadth of product offering: FHP, Integral and Variable Drives
- A proven installation system that eliminates fretting, corrosion, freezing, or sticking
- Application engineer expertise
- Significant inventory in place to cover most applications
- Easy to use, customized drive selection program
- Part models available in the most popular CAD formats
- Lower total acquisition cost by providing:
 - A drive kit (sheaves, bushings and belts) ready for delivery direct to factory floor
 - Custom labeling
 - B to B

V-BELT DRIVES



Light Duty (FHP)

- Durable cast iron sheaves with light duty V-belts for long lasting and quiet operation
- Available in two types, with either 1 or 2 grooves:
 - "A" sheaves for 4L belts
 - "B" sheaves for A(4L) or B(5L) belts
- Can be equipped with either fixed bore (bored to size) or TB Wood's "QT" Sure-Grip® QD type bushings (quick detachable tapered bushings that have a split through flange and tapered surface)
- Capacities up to 15 HP
- Bore sizes from 1/2 to 1-1/2 inches
- Utilized with 3L, 4L, 5L, A or B belts
- Efficient, lightweight, and economical



Variable Pitch

- All cast iron construction
- Capacities from fractional to over 600 HP
- Will not freeze or stick
- Easy, accurate speed changes
- Utilizes light duty, classical and narrow V-belts



Classic and Narrow

- 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, even higher HP with special belts, sheaves, and materials
- Bore sizes from 1/2 to 8-1/2 inches
- Utilizes single or banded V-belts with either wrapped or cog construction



A full array of long-lasting V-belts and quality bushings are also available.



APPLICATIONS

Light Duty Air Handling

Small air conditioning units, agricultural and poultry fans, furnace blowers, etc.

CASE STUDY

Situation

An exhaust fan OEM was looking to improve their process efficiency. As part of the process, they designed, ordered, received and picked components to meet weekly production schedules. The process was lengthy and consumed valuable resources.

Solution

TB Wood's and the OEM reviewed the process and determined that automation was possible. The OEM would furnish the application requirements via EDI and leave the rest to the experts. TB Wood's would design the drive, kit the drive components and deliver it Just-In-Time. Once received, the OEM can drop the kit directly to shop floor. Among the benefits were a quicker turn around time and lower inventory levels.

Commercial Air Handling

Roof mounted HVAC units, centrifugal exhaust fans, air curtains, axial fans, etc.

CASE STUDY

Situation

An OEM was testing a 15 HP filtration blower application for clean room use. Their test uncovered micro particles in their filters. At first, the particles were thought to be from V-belt wear. Upon closer examination, the particles were iron so the focus turned to the sheaves.

Solution

The OEM replaced all of the non-TB Wood's V-belt drives with only TB Wood's drive components. TB Wood's products are constructed of fine grain, high tensile cast iron that meets or exceeds ASTM A48 material specification.

Industrial Air Handling

Cooling towers, utility fans, blowers, evaporative air conditioners, etc.

CASE STUDY

Situation

A mining company needed to increase the airflow from their 500 horsepower large surface mining fan. However, their drive was designed to operate at constant speed.

Solution

They downloaded TB Wood's Belted Drive Selector Program and entered their new requirements. They determined a stock sheave would not provide the desired speed; so, they used the Made-To-Order functionality to specify a part. Once TB Wood's saw the selection, we recommended that they purchase a high capacity Ultra-V adjustable driver sheave. The adjustable drive would allow future CFM requirements. TB Wood's designed, manufactured and shipped the drive to the mine. The entire process, including installation, took three weeks. The company was able to increase the CFM and has the right drive for growth and increased production.

Do you require a custom drive solution?

TB Wood's has been manufacturing products in our own foundry for over 150 years. Contact us for a copy of our foundry capabilities brochure (P-1791-TBW).



TB Wood's Facilities

North America

USA

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Belted Drives and Elastomeric Couplings

Customer Service

1-888-829-6637 (Press #5)

For Application Support

1-888-829-6637 (Press #7)

2000 Clovis Barker Road
San Marcos, TX 78666 - USA
1-888-449-9439

General Purpose Disc Couplings

Customer Service

1-888-449-9439

4970 Joule St
Reno, NV 89502 - USA
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Edmonton, AB T6E 5V8 - Canada
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Elastomeric Couplings

The Brands of Altra Industrial Motion

Couplings

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Linear Products

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Engineered Bearing Assemblies

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Belted Drives

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Delroyd Worm Gear
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Stieber
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