

DRIVETIME

INFORMATION
ABOUT PRODUCTS
AND PEOPLE IN THE
DRIVE INDUSTRY

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A family owned business
Manufacturing in America since 1917

POOR DRIVE MAINTENANCE THE HIDDEN COST OF AIR HANDLER OPERATION

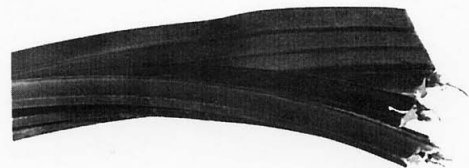
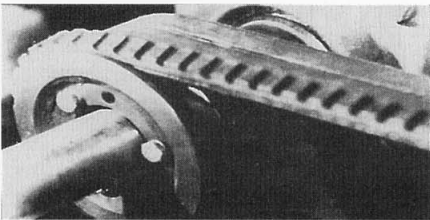
It is widely accepted that the replacement of air filters greatly improves the efficiency and quality of service that you receive from your air handling unit. It is also common practice to replace the V-Belt in a drive at regular intervals; however, the motor and blower sheave do not always get the same consideration when maintaining the unit.

Did you know . . .

- A worn sheave can reduce the belt drive efficiency by more than 10%.
- A worn sheave will dramatically reduce belt life, costing more for extra service time.
- Belts mounted in worn sheaves require greater tension to operate, thus causing higher than designed loads on bearings and costing more energy to operate
- Worn bores and keyways on sheaves can cause excessive wear to shafts, and bearings.
- Misalignment of sheaves leads to belt wear and rollover.
- Objectively checking sheaves for wear is easier than you may think.

Proper maintenance of the belt drive components
will lead to longer life of all related drive components.

Signs of worn sheaves



Cause of Failure:

Worn sheave grooves lead to belt roll-over.

Correction:

Replace sheaves and maintain proper belt tension and alignment.

Cause of Failure:

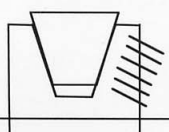
Worn sheave grooves allow the joined belt to ride too low, cutting through the top band.

Correction:

Replace sheaves and maintain proper belt tension and sheave alignment.

Belt wear indicating worn sheaves:

Normal



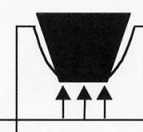
Normal force evenly
distributed over
sidewall of belt

Worn Sidewall



Normal force concentrated
on two areas of sidewall. If
belt top is below the outer
diameter of sheave, the
groove is worn

Completely Worn



Belt running on bottom of
extremely worn sheave.
Wear on bottom of belt is a
sign of worn grooves

Industry Facts: Did you know that the Standards for the North American Belt Drive Market are Established by the Mechanical Power Transmission Association (MPTA)? In conjunction with the Rubber Manufacturer's Association (RMA) exacting tolerances and standards are developed for optimal drive performance. Maurey Manufacturing Corporation has been a contributing member to this standards organization for more than fifty years.

FOR MORE INFORMATION ABOUT DRIVE MAINTENANCE
CONTACT:



maurey

800-284-2161

YOUR LOCAL AUTHORITY ON MAUREY DRIVE PRODUCTS