



## Product

## Application

## Highlights

- Application details shared by customer allowed engineers to provide a cost-saving solution
- Premium belts have highest power density of any V-belt – requiring fewer belts and narrower sheaves



## Premium V-Belts Provide 11% Cost Savings

## Metal Shredder

TB Wood's received a request to quote a very large V-belt drive. The request only contained component descriptions like the following: 2 pieces 8V30.0 x 20, ductile iron, dynamic balance.

This is a typical request and a quote was provided to the customer. After reviewing the quote details, the customer contacted our applications team and provided additional requirements along with the operating details of their 4,000 Hp car shredder. With this application information, our engineers were able to redesign the drive around TB Wood's Premium, crusher-duty V-belts. This allowed TB Wood's to reduce the drive size from 40 to 34 grooves while maintaining the original service factor. By lowering the groove count, the engineers were also able to use a single pair of sheaves instead of two pair.

The resulting quote, based on the redesign, saved the customer 11% from the initial quote. The customer also received added cost benefits including: the ability to reduce driver and driven shaft lengths, the option to reduce the size of the drive guard, and a reduced installation time by only having a single pair of sheaves.

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