

Chevron® Wing Pulley

V-Shaped Wing Pulley Deflects Fugitive Material



Quick Specs

- ▶ **Classes:** CEMA, Mine and Super Duty
- ▶ **Diameters:** 10" - 42"
- ▶ **Face Widths:** 12" - 75"

Frequently Asked Questions

What are common applications?

- ▶ Systems where fugitive material is causing wing bending, where uptime is crucial and where noise levels might be a concern.

Is it only a tail pulley?

- ▶ Compared to standard wing pulleys, the Chevron wing is a good alternative for a gravity take-up. It's a location where you have spillage and where you want to prevent wedged rocks and bent wings.

How does it compare to spiral wing pulleys?

- ▶ A spiral's corkscrew shape means they require many spins to auger material from the middle out to the side, versus the material simply deflecting off the plow shaped Chevron wing.



Fig 16.1 No More Bent Wings



Chevron Wing Pulley

Features and Benefits

Deflects and Sheds Material

- ▶ **Traditional Wing:** The impact of rocks is directly perpendicular to the wing, causing material to trap easily.
- ▶ **Chevron Wing:** Rocks hit the wings at a glancing blow, deflecting fugitive material out and away.

Reduces Wing or Fin Bending

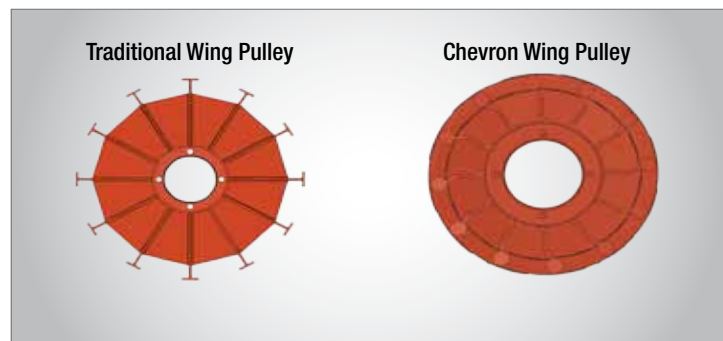
- ▶ **Traditional Wing:** Over time, trapped fugitive material causes wings to tip or bend. (Fig 16.1)
- ▶ **Chevron Wing:** Constant deflection prevents entrapment of fugitive material.

Longer Lasting Belts

- ▶ **Traditional Wing:** Trapped material, bent wings and sharp contact bars are three of the most common causes of belt damage.
- ▶ **Chevron Wing:** Even wearing rounded contact bars and fewer bent wings preserves conveyor belt appearance and performance.

50 Decibels Quieter (Fig 16.2)

- ▶ **Traditional Wing:** Apex shape causes belt flapping, much more vibration and 120 db of sustained noise.
- ▶ **Chevron Wing:** Continuous belt contact significantly reduces beating action, vibration and generates just 70 db of sound.



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Chevron Wing Pulley Product Line					
Specs	Diameter	Face Width	Maximum Wing Height	Wing Thickness	Wear Bar Thickness
CEMA Duty	10" - 20"	20" - 63"	Not defined	3/16" or 1/4"	1" x 1/2" half round bar
Mine Duty	12" - 36"	12" - 63"	Varies with diameter	1/4" - 5/16"	1" round bar
Super Duty	12" - 42"	20" - 75"	Varies with diameter	3/8"	1-1/2" round bar

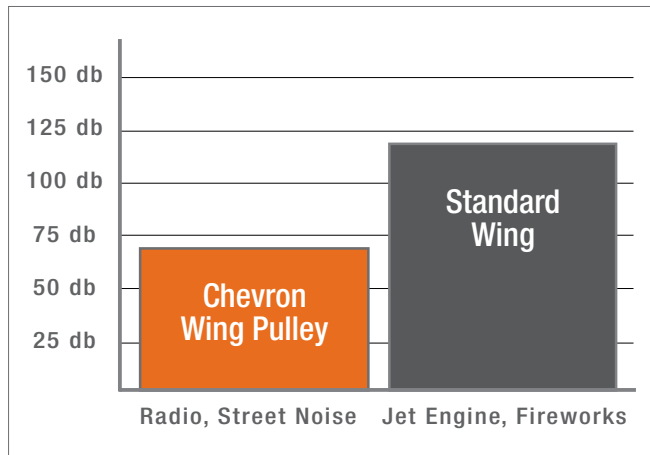


Fig 16.3 Reduced Noise Pollution



Material Deflection Reduces Trapped Material

Producer Perspective



Maintenance Supervisor at a Minnesota Quarry

Vibrating Office

"I would sit in my office in the scale house and the windows would shake. The vibration is gone now and the only thing we changed were the pulleys!"

Bent Wings

"Our old pulleys had wings folding over or even breaking off, and they were eating away at the bottom side of the belt. Since then, we have installed close to 20 Chevron wing pulleys. Even if we have a little bit of leakage, it spits the rocks out before they bend the wings."

Plugged Ears

"The noise levels are a night and day difference. We are in the middle of a city, so to have stopped the constant rattling sounds is huge for us."

Part Number Guide

Example: CHVS-4275XT70

