Martin's Clean Flight™ Wing Pulley (CFW).

- Martin services a wide range of industries conveying light to extreme bulk materials
- The Martin pulley product line features drum pulleys, wing pulleys, shafting and take-up frames
- Available to ship in assemblies
- Extensive inventory of pulleys in over 30 North American locations

Martin is a predominant manufacturer of Industrial Grade Conveyor Pulleys
Clean Flight™ Wing Pulley distinct construction advantages:

- Each flight lies perpendicular to the pulley core, resulting in a much stronger design.
- The CFW is constructed with distinctly aggressive materials with thick flights.
- Continuous welds available upon request.
- An open herringbone flight placement allows for better material rejection.
Operational Advantages

**NOISE REDUCTION**

Users report a reduction in operating decibels from 14-22%, depending on belt speed and belt width.

**LESS VIBRATION IN OPERATION**

Since the belt is in constant contact with the Clean Flight™ Wing outside diameter (OD), the “belt-slapping” observed in traditional wing pulley operation is eliminated, as is the operational ambient noise. Decreased vibration also means less stress on the belt, splice, and bearings.

**ENHANCED BELT TRACKING**

Each CFW flight contacts the belt at a helix angle that contributes to the tracking of the belt. The CFW flight operates much like a traditional "spiral" wing pulley in assisting belt tracking. The Martin CFW is also offered in a crown-face profile.

**OPTIMIZED BELT CLEANING**

As well as reducing vibration noise and improving belt tracking, the CFW also cleans the belt more effectively while in operation by shedding materials away from the belt surface. Additionally, the CFW operates with less vibration at the skirt board zones, reducing fines at the loading zone.

**IMPROVED MATERIAL REJECTION**

Traditional wing pulley flights contact the conveyed material at a right angle, whereas the CFW actually “plows” material out of harm’s way, toward the end of the pulley, where it safely falls away from the pulley and belt contact surface.
All Clean Flight™ Wing Pulleys (CFW) use the longest pitch possible for each diameter and face width.

Standard Duty
1/2" Flight, 1/4" Rim, 3/8" End-Discs

Mine Duty
3/4" Flight, 3/8" Rim, 1" End-Discs

Quarry Duty
1" Flight, 1/2" Rim, 1-1/4" End-Discs
Nomenclature & Special Options

### Nomenclature

<table>
<thead>
<tr>
<th>Flat &amp; Crown</th>
<th>Standard (S) Mine (M) Quarry (Q) Engineered (E)</th>
<th>Clean Flight™ Wing (CF)</th>
<th>Diameter (3 digits)</th>
<th>Face Width (2 digits)</th>
<th>Bushing</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>S</td>
<td>C</td>
<td>1 6 0</td>
<td>3 2</td>
<td>X 3 0</td>
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<tr>
<td>F</td>
<td>M</td>
<td>C</td>
<td>2 4 0</td>
<td>4 4</td>
<td>X 4 5</td>
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<tr>
<td>C</td>
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<td>C</td>
<td>3 0 0</td>
<td>6 3</td>
<td>X 6 0</td>
</tr>
</tbody>
</table>

Examples:
- XT30 = X30
- XT45 = X45
- XT60 = X60

- **T-Bottom, Turbo Disc and Engineered Mine Duty**

### Special Features

- Hard Facing
- Custom Epoxy Paint
- Special Flight Spacing
- Special Pitch
- Continuous Welding of Flights

### Assembly Options
- Bearing Assemblies
- Take Up Frame Assemblies
- Keyless Lockers for Shaft Connection

### Bushing Options
- M-XT
- M-HE
- QD
- Taper Bushed
- Keyless Locking Device

### Pulley Options
- Clean Flight™

### Examples
- 16.0" x 32"
- 24.0" x 44"
- 30.0" x 63"
Information Required for Quoting

Basic Pulley Data

Finished Diameter: __________  Face Width: __________  Bushing Bore: __________

Conveyed Material Lump Size: __________  Location on Conveyor: __________

Application: ______________________________________________________________________

Notes: ____________________________________________________________________________
___________________________________________________________________________________

Additional Data & Options:

Duty: __________  Flight Thickness: __________  Core Diameter: __________

Pulley Material: ________________

Shaft Diameter: _________ × OAL: __________

Notes: ____________________________________________________________________________

Horsepower: __________  Belt Speed: __________  Belt Wrap: __________

Conveyor Take-Up Style (Mechanical or Gravity/Automatic): ______________________________________________________________________

Bearing Diameter: __________  Bearing Centers: __________

Belt Width: __________  Belt PIW: __________