



# PULLEY ASSEMBLIES

Transmin ConveyorPro is a global supplier of high-quality conveyor pulleys, with custom-designed pulleys to suit most applications from quarry to heavy-duty mining and minerals processing.

## TYPES OF PULLEYS

- ▶ Single & Dual Drive Pulleys
- ▶ Non-Drive Pulleys
- ▶ Tail Pulleys
- ▶ High Tension Pulleys
- ▶ Snub & Bend Pulleys

## MATERIALS

- ▶ Shell & End Disc Materials – AS3678 -Grade250, Grade 350, Q345.
- ▶ Shaft Material – 4140, 1045, C45, 42CrMo4, #45, 40CrMo.
- ▶ Bearing Brands of Choice – NTN, TWB, SKF, FAG, NSK & More.
- ▶ Locking Elements – MAV, RFN, TAS & Equivalent Generic
- ▶ Lagging – Flexco & other brands

 **AUSTRALIAN DESIGNED**

 **AUSTRALIAN ENGINEERED**

 **AUSTRALIAN WARRANTY**

 **AUSTRALIAN OPTIONS**



### PULLEY CAPABILITY

<b>Max Pulley Diameter</b>	Up to 1650mm
<b>Max Shell Thickness</b>	Up to 90mm
<b>Max Pulley Face Width</b>	Up to 4000mm
<b>Max Shaft Diameter</b>	Up to 650mm
<b>Max Shaft Length</b>	Up to 6580mm
<b>Bearing Brands</b>	SKF/NTN/FAG/ TWB/ Clients Choice
<b>Locking Elements</b>	TAS/RFN/ MAV/Clients Choice
<b>Lagging Types</b>	Ceramic/DGR/ Poly/Hot or Cold Vulcanised

### DESIGNED TO AS/ ISO STANDARDS

- ▶ Shafts shall be designed for infinite life in accordance with AS1403.
- ▶ High tension pulleys: Shaft material grade 4140 or equivalent shall be designed to a maximum endurance limit of 380MPa.
- ▶ Medium and low tension pulleys: Shaft material grade 1045 or equivalent shall be designed to a maximum endurance limit of 255MPa.
- ▶ All shafts shall be sized to limit the maximum angular deflection of the shaft at the centre line of the hub to 0.00145 radians (5 minutes).
- ▶ Shells shall be designed such that the maximum stress does not exceed 55MPa.

- ▶ End discs shall be designed such that the maximum stress does not exceed 50MPa.
- ▶ Bearing life shall be designed to a minimum of 75,000 L10 hours using life adjustment factors of 1.

### OTHER SERVICES OFFERED

- ▶ Custom designs to suit specific application.
- ▶ Designs performed on latest pulley programmes.
- ▶ Drive shaft - Over hung load checks.
- ▶ Design checks for new pulley upgrades.
- ▶ Refurbish existing pulleys to give them new life.
- ▶ Packed on custom built packing frames to avoid brinelling to bearings while transport.



### HEAD OFFICE

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