



conveyor products

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Belle Composite Rolls - Diamond Mine, Western Australia



Project Highlights:

Date: July 2015

Operation: Diamond Mine

Client Location: Western Australia

Scope: Composite Rollers, Flat Return, Vee Return and Trough Idler Rollers

Product Involvement:

Roll Material: HDPE (No Steel Inner Sleeve)

Roll Specs:

Trough – 152mm OD
V-Return – 152mm OD
F/Return – 152mm OD
Shaft – 30mm OD
Bearing Spec – 6306 2RS
Shell Thickness – 15mm

Project Description

Premature shell wear and installation weight issues have resulted in the trial of the Belle Composite rolls.

Operating Specifications

Conveyor: Surface Belt

Belt Construction: Steel Cord ST1100

Belt Speed: 4m/s

Tons Conveyed: 1400 tph

Belt Width: 1050mm.

Features and Benefits:

Weight Differences noted immediately are as follows:

- Steel Roll – 43Kg
- Composite Roll – 18Kg

Additional Benefits:

- Ease of Installation
- Noise Reduction
- Superior Abrasion
- Resistance