

Challenge

Issue

Hard face weld overlay was not meeting 12 month maintenance cycle. Associated repair costs every 12 months equal \$4.5K.

Goals

- Restore and protect conveyor screw from abrasion, improving reliability
- Eliminate need to for weld overlay on entire flyght

Root Cause

Severe abrasion from bark with up to 10% sand abrade drum and flyghts.

Solution

Preparation

 $\scriptstyle \bullet \,$ Grit blast to Sa 2.5 with 3 mil (75 $\mu m)$ profile

Application

- 1. Apply ARC MX1 at 1/4 inch (6 mm) to flyght faces and shaft
- 2. Reinforce flyght tips only with hardened weld overlay

Results

Client Reported

- Maintenance cycle increased from <12 months to >72 months
- Est'd. 72-month savings per screw: \$27K





ARC MX1 applied and tips welded



After 12 months: perfect performance

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.

Abraded screw conveyor

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