

Challenge

Issue

A pulp mill was experiencing constant wear on a chip house conveyor screw, which caused costly repairs every shutdown and shortened equipment life.

Goal

To reduce wear on the screw and lessen the need for constant hot work permits to repair the screw.

Solution

Overview

The surface was sandblasted to profile and the screw flights were coated with **Chesterton® ARC MX1** industrial coating. A thicker build of **MX1** was added on the flight edge and teeth.

Results

Client Reported

- The screw was in constant operation for 14 months with little metal loss on the teeth and flights.
- The customer was able to quickly repair any exposed metal and resume operation without the need for hot work permits. **The customer had an annual savings of \$10,000 as well as extending the life of the screw.**



Screw is worn, cracking, and no longer efficient.



*The screw surface with **ARC MX1** industrial coating applied.*



The screw was in constant operation for 14 months.

\$ = USD