

BELZONA 1812 EXTENDS LIFE OF SCREW CONVEYOR

ID: 7541



PROBLEM

The constant abrasion from wood chippings over the screw surface was found to damage the screw heavily. The shaft and flights would wear out within a few months of operation, and the entire unit would need replacement after just over 1 year.

APPLICATION SITUATION

A large screw conveyor transporting wood chippings to the top of a CHP furnace. The constant feed of chippings is critical to the plant's operation.

APPLICATION METHOD

Application was carried out in accordance with Belzona system leaflet SHM-14. Grit blasting was used to prepare the surface, followed by a lining of Belzona 1812.

BELZONA FACTS

Hard facing was considered but found to be too time consuming and expensive. The Belzona solution was provided for a fraction of the cost and in a fraction of the time of the alternative solutions. In 2018, the client reported that not only is the screw conveyor still performing but it has been working twice as hard over the 3 years in service, with no loss of performance.

INDUSTRY

Power

LOCATION

Biomass plant, Scotland

APPLICATION DATE

November 2012

PRODUCTS

Belzona 1812 (Ceramic Carbide FP)

SUBSTRATE

Stainless steel

PHOTOS

1. Delivery of the screw
2. Belzona 1812 applied to the shaft & the 'driving' face of the flights
3. Close up of Belzona 1812 finish
4. Completed application.

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

Belzona products are manufactured
under an ISO 9001 Registered
Quality Management System.

www.belzona.com

