

**Industry:**

Wood processing

**Plant:**

Drying Cyclone

**Lining System:**

K-ALOX Ceramic lining

## K-ALOX LINED DRYING CYCLONE

**Key Benefits:**

- ✓ **Enhanced wear protection**
- ✓ **Eliminates the need for repair**
- ✓ **Assists in product discharge**
- ✓ **Lining enhances material discharge**

**Problem:** Due to the dependency on a greater volume of recycled wood within the manufacture of particle board, one international producer of these products was experiencing daily failures throughout its process plant. One problem of great concern was the structural integrity of the

drying cyclones situated after the drying drum operating in a positive phase of conveyance. The structure albeit made from Hardox wear plate had suffered from extreme abrasion due to amount of contamination in the wood stream.

**Solution:** Due to length of the Hardox system being in service, 2 year before failures, as the end user was reluctant to invest in the replacement of the cyclones, we decided to use our 92P K-ALOX ceramic lining solution that offers a far superior wear resistance and outperformed all abrasion resistant wear plates. Over a period of 6 months our operatives attended site every 2 months for a 24 hour period and totally covered the internal substrate with the ceramic lining system without the need for mechanical replacement activities, hence the customer was able to reutilise the cyclones without having to incur significant replacement costs.

**Benefits:** This system has lasted in excess of 8 years and albeit minor repairs have taken place due to mechanical damage, it is performing better than expected and its life expectancy based on the amount of wear experienced to date is in excess of 15 years. Factoring in all of the costs associated to the replacement, the system paid for itself in less than 2 years, achieving a trouble free service.

### Protecting Industry Worldwide

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