



# LIFE ENHANCEMENT OF INDUSTRIAL COMPONENTS

## CASE STUDY VERTICAL ROLLER MILL - SINTER CAST LINERS

### AREA OF CONCERN

The latest method for Wear protection in Vertical Roller Mill (VRM ) is by Sinter Cast Liners. This gives life of about 8000 Hrs after which it needs replacement. Replacement of sinter cast liners involves high cost and stoppage for replacement & lead time for spares, this also involves huge down time and production loss. The most critical aspect is as the Sinter cast Liners gets worn out there is a huge drop in productivity . Hence it requires a in-situ wear protection solution .

### SOLUTION

Ador Fontech solution to this problem is wear protection of sintercast liners in-situ with unique complex carbide alloy system LH-WearTherm 65 which welds on sintercast material giving 65 HRC hardness ensuring extended life with excellent cost economics. Our solution is buttoning in this portion with LH Weartherm 65 in-situ which extends the life by about 3000/3500 hrs with only 10% cost of new sinter cast liners, means it's a value proposition to customer.

### CLIENTELE

- ACC Limited
- Chettinad cement
- Dalmia Cement
- Madras Cements Ltd.
- UltraTech Cement Ltd.

### APPLICATION

VRM is used for crushing of limestone, coal or clinker (cement plant), sinter cast liners are latest concept wherein the sintered liners are used for wear protection of VRM rollers to increase the life of this rollers-worn out due to high abrasion, pressure and impact.



New Sinter Cast Liner in the VRM



Sinter Cast Liners at 3000 Hours



In-Situ Welding of Buttons in Sintercast Liners



VRM-Sinter cast Liners Insitu after buttoning

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