



SAVINGS RETURN IN CEMENT PLANTS using VORTEX BLASTAIR® AIR CANNONS

Why Vortex blastair® are an economical and efficient solution to eliminate build up in Preheater tower and Cooler in cement plants?

1/ Vortex Blastair® design purpose

Vortex Blastair® have been designed to instantly use the kinetic power from the air pressure contained in its vessel to dislodge build up and coating adhering to casing walls; thus cleaning and potentially optimizing process.

With Vortex Blastair®, Cement plants can achieve the following kiln efficiency:

- Eliminate kiln unforeseen stoppages due to build up
- Reduce manual cleaning
- Extend refractory life
- Improve operators safety
- Increased Alternative fuels usage (tires, Petcoke, RDF,...etc)

2/ Typical Savings Return

Example

Daily production	4000 tons per day
Assumed Kiln usage	330 days per year (90 % Efficiency factor)
Estimated profit per Ton	30 usd
Increased production	2.12 % (estimated at 7 days stoppage / 330 days operation)

Total estimated yearly gain	839 520 usd
Total estimated daily gain	2 544 usd

We can estimate a 30 units Vortex Blastair® investment representing less than 100 000 usd to be easily paid **back** during its 1st year of operation.

3/ Conclusion

Installation of the proper number of air cannons to keep Preheater towers and Coolers clean from potential severe build up will result in extremely large Return On Investment (ROI) due from:

- Increased production level
- Savings on Loss Time Production (LTP)
- Easing manpower harsh job around Heat prone most demanding dangerous environment

