

## SYNTHOX HT

*India's First and Only True Synthetic · High Moly · Non-Melting Grease with Highest Anti-Wear and Anti-Friction Capabilities to Prevent Failures in Heavy-Duty Fans and Blowers*

### Fan & Blower Applications in a Cement Plant

A cement plant runs more hot-service fans per tonne of product than any other industry — kiln ID fans, pre-heater fans, raw mill and cement mill circulation fans, cooler exhaust and cooler vent fans. Bearing service temperatures of 150–200°C continuous are the norm. Kiln ID fan bearing failure is the single most expensive unplanned event in cement manufacturing, costing ₹4–8 crore per kiln day. SYNTHOX HT is engineered for exactly this duty.

### Part A — Annual Cost of Fan Bearing Failures (5 MTPA Integrated Plant)

- **Fan bearing life:** ordinary high-temp grease delivers 1.5–2.5 years on kiln ID, pre-heater, and cooler fans against 5+ year bearing design life.
- **Bearing + coupling spares: ₹35–60 lakh/year.** Kiln ID fan bearings are very large (300–400 mm bore), ₹3–8 lakh each; seal and sleeve damage compounds cost.
- **Re-greasing + cleaning labour: ₹15–25 lakh/year.** Cement dust + hot grease bake into a crust that needs manual cleaning between re-lube cycles.
- **Kiln / mill downtime: ₹2–6 cr/year — the dominant cost.** Kiln ID fan bearing failure shuts the kiln; ₹4–8 cr/day lost clinker production; pre-heater restart takes 12–24 hrs.
- **Total: ₹2.5–7 cr/year per 5 MTPA plant.** A non-melting synthetic moly grease delivers 2–4× bearing life and addresses ₹1–3 cr/year. Highest-conviction application of any industry on this list.

### Part B — Fan & Blower Applications

- **Kiln & Pyro-Processing** — kiln ID fan bearings; pre-heater fan bearings; calciner fan bearings; cooler vent fan bearings.
- **Clinker Cooler** — cooler exhaust fan bearings; cooler compartment fan bearings; clinker cooler ESP booster fan bearings.
- **Raw Mill Circuit** — raw mill fan bearings; raw mill ESP fan bearings; raw mill bag filter fan bearings.
- **Coal Mill / AFR** — coal mill fan bearings; AFR dosing fan bearings; coal mill bag filter fan bearings.
- **Cement Mill** — cement mill fan bearings; separator fan bearings; cement mill bag filter fan bearings.
- **Kiln Feed & Outlet** — kiln feed bucket elevator hood fan bearings; kiln hood dedusting fan bearings.
- **Packing Plant** — packer bag filter fan bearings; bulk loading dust suppression fan bearings.
- **WHRS / Captive Power** — WHRS ID fan bearings; boiler FD and ID fan bearings (where coal-fired CPP present).
- **Limestone Handling** — crusher dust collector fan bearings; stacker-reclaimer dedusting fan bearings.
- **Ancillary** — bag house rotary air lock fan bearings; silo top vent fan bearings.

**Request a free 90-day plant trial — your reliability data will speak for itself.**

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