

SL123R UNITHERM

India's First and Only True Synthetic · High Load · High Temperature Grease to Prevent Failures in Gear Couplings and Heavy-Duty Drives

Gear Coupling & Heavy Drive Applications in Forging Presses and Hammer Shops

Forging plants work under the most extreme load cycling in heavy industry — every press stroke, every hammer blow, transmits through drive spindles, clutch engagement couplings, eccentric shaft drives, and flywheel couplings. Grease temperature inside the drive cavity reaches 120–140°C continuous. Ordinary EP grease bleeds and oxidises within months; coupling and spindle failure halts the press line and damages downstream gearboxes. SL123R UNITHERM is designed for this genuine high-load, high-temperature duty.

Part A — Annual Cost of Gear Coupling & Drive Failures — Large Forging Plant, ₹500–3,000 cr revenue

- **Coupling / spindle life:** ordinary EP grease delivers 12–18 months on press drive spindles and hammer couplings against 5+ year design life.
- **Coupling + drive spares: ₹20–35 lakh/year.** Press drive spindles and eccentric couplings are high-value spares; cascade damage to clutch and flywheel typical.
- **Maintenance + alignment: ₹8–15 lakh/year.** Press drive alignment is critical and specialised.
- **Press downtime + rework: ₹80 lakh–2 cr/year — the dominant cost.** Press drive coupling failure halts the line; forging contamination from grease leak causes MPI/UT rework on inspected parts.
- **Total: ₹1.2–3 cr/year per plant.** A true synthetic high-load, high-temperature grease delivers 3–4× drive life and addresses ₹50 lakh–1.5 cr/year.

Part B — Gear Coupling & Heavy Drive Applications

- **Mechanical Forging Press** — eccentric shaft drive coupling; crankshaft drive coupling; flywheel engagement coupling; clutch drive couplings.
- **Hydraulic Forging Press** — main ram drive coupling; hydraulic pump drive couplings; return cylinder drive coupling.
- **Drop Hammer / Counterblow Hammer** — ram guide linkage pivots; trip mechanism drives; control system drive couplings.
- **Ring Rolling Mill** — main roll drive coupling; mandrel drive coupling; axial roll drive coupling.
- **Extrusion Press** — ram drive coupling; container rotation drive; billet loader drive coupling.
- **Heat Treatment** — furnace charging car drive couplings; quench tank hoist drive; tempering bay drive couplings.
- **Machining & CNC** — heavy lathe spindle drive couplings; turning centre drive couplings; boring mill drive couplings.
- **Structural Fabrication** — plate rolling mill drive coupling; press brake drive coupling; shear drive coupling.
- **Blast Cleaning & Paint** — shot blast cabinet wheel drive couplings; conveyor drive couplings.
- **Despatch & Handling** — EOT crane long-travel and cross-travel couplings; die change trolley drive coupling.

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

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