

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 at Ports and Bulk Terminals

Ports run heavy drives under shock loading and saline atmosphere — grab unloader drive couplings take impact from every bucket cycle, stacker-reclaimer slewing rings rotate under boom moment, STS and RTG hoist drive couplings handle container swings, and conveyor head pulleys see continuous torque under abrasive bulk cargo. Ordinary EP grease fails under the triple stress of load, salt, and heat. SL123R UNITHERM addresses the combined stress case.

Part A — Annual Cost of Gear Coupling & Drive Failures — Large Private Port / Terminal

- **Coupling / drive life:** ordinary EP grease delivers 1–2 years on shock-loaded drive couplings against 5+ year design life.
- **Coupling + drive spares: ₹40–80 lakh/year per terminal.** Grab unloader and stacker-reclaimer drive spares are high-value; replacement is crane-hour intensive.
- **Maintenance + alignment: ₹15–25 lakh/year.** Crane drive alignment is specialised; performed during short berth windows.
- **Terminal productivity loss: ₹1.5–4 cr/year — the dominant cost.** Each crane-hour of unavailability on a gateway port is ₹5–15 lakh; unplanned stoppages cascade into berth queue penalties.
- **Total: ₹2–5.5 cr/year per terminal.** A true synthetic high-load, high-temperature grease with marine additive package delivers 3–4× drive life and addresses **₹70 lakh–2.5 cr/year**.

Part B — Gear Coupling & Heavy Drive Applications

- **Container Handling (STS) —** STS main hoist drive coupling; trolley drive coupling; boom hoist drive coupling; spreader rotation drive.
- **Container Handling (Yard) —** RTG hoist drive coupling; RMG drive coupling; RMG travel drive; reach stacker drive couplings.
- **Bulk Grab Unloader —** grab hoist drive coupling; boom slew drive; luffing drive coupling; holding drum drive.
- **Stacker-Reclaimer —** slew drive coupling; long-travel drive coupling; bucket wheel drive coupling; luffing drive.
- **Ship Loader —** main hoist drive coupling; slew drive; boom conveyor head pulley drive.
- **Conveyor System —** head pulley drive couplings; intermediate drive couplings; tripper car drive couplings.
- **Mooring & Tugs —** mooring winch drive couplings; tug towing winch drive coupling.
- **Shipyards Crane —** Goliath crane travel drive; jib crane slew drive; dry dock gate drive.
- **General Cargo Crane —** wharf crane slew drive; wharf crane hoist drive coupling; floating crane drives.
- **Berthing & Utility —** pontoon crane drive couplings; bunker barge crane drives; pilot station davit drives.

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

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