

POWERMAXX LUBE INDIA



One solution for every machinery lubrication problem

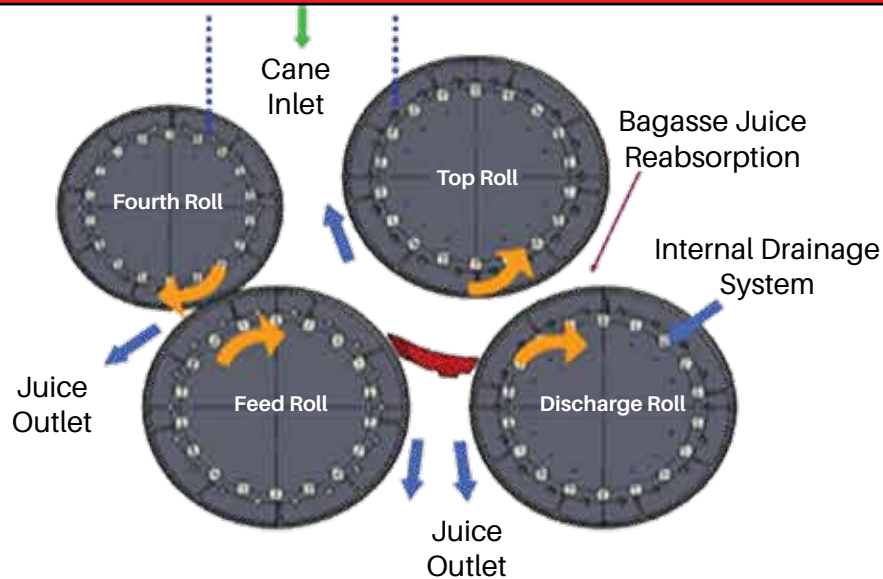


**High Performance Innovative Specialised Lubricating Solution for
Sugar Mill Machinery**
(Tandem mill journal bearing Lubricant for Non-stop Cane and Cost crushing)

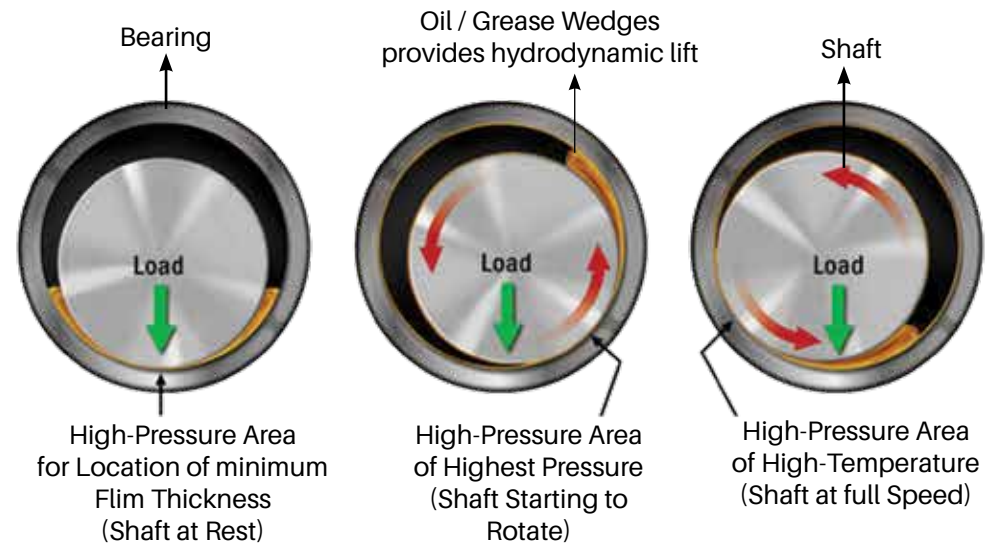
Sugar Mill Journal Bearings Process - (Heart of Sugar Plant)

Challenges in Sugar Mill Journal Bearings Process - The product may be sweet, but the manufacturing conditions can be especially harsh

SUGAR MILL CRUSHING PROCESS



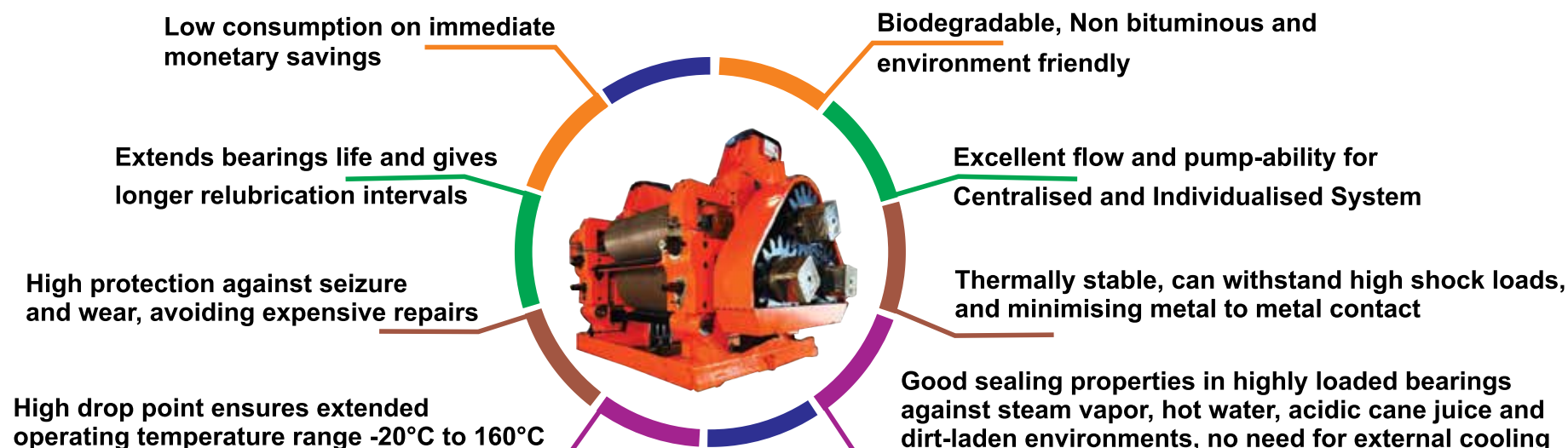
MILL JOURNAL BEARING PROCESS





CHALLENGES OF A MILL GREASE	CHALLENGES ACCOMPLISHMENT BY SMB-2000 1/0 (SUGAR MILL BEARING GREASE)
Loads & Shear Stability due to severe pressure on the rolls of sugarcane juice extractor	SMB-2000 1/0 designed with high base oil viscosity, special Metal Complex thickener, special EP additive and solid lubricants additives, not only withstand high pressures but also helps forming a uniform lubricating film avoiding any kind of wear to bearing resulting in mis-alignment due to excessive wear. This high base oil viscosity also helps protection against seizure, reduce frictional, power losses & avoiding expensive repairs.
Cracks & Burn Marks on Bearings	SMB-2000 1/0 is reinforced with high content of Solid Lubricants Moly & Mox-Active to avoid boundary lubrication and provide emergency lubrication to prevent seizure, wear, cracks damage and burn marks due to high shock loads during mill operations.
Water Resistance and Aggressive Environment	SMB-2000 1/0 designWed with Metal Complex thickener & solid lubricant with water and acid resistant additives to help counter water washout & corrosion. Good sealing properties in highly loaded bearings against steam vapor, hot water, acidic cane juice and dirt-laden environments, no need for external cooling
Grease Pumpability	SMB-2000 1/0 providing good pump ability to avoid choking of lines, filters and fitments in grease for Centralised & Individualised systems and resist interrupted or inadequate flow causing lack of lubrication to the required grease wetting areas. No air locks and no forced pumping.
Environmental Hazardous	SMB-2000 1/0 is Non bituminous and environment friendly grease. Elimination of accidents occurring by spills of asphaltic oils & other graphite greases and environmental impact caused by the big volumes of lubricant waste commonly generated in sugar industry.
Customised service and Cost Cutting	POWERMAXX field support engineers' team works in close co-ordination with each customer to attend to trouble shooting in mill bearing lubrication and find ways and means to reduce overall grease consumption thereby provide cost cutting upto 20% to 30% reduction on annual cost and economical price.

■ Journal Bearings ■ Transmission Brasses ■ Crown Wheels ■ Open Gears ■ Crystallizer Transmission Gears ■ Rotating Dryer Gears.

BENEFITS OF SMB-2000 1/0 & SMB FLUIDPRESS 20K











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Other Ordinary Lubricant	BEFORE	AFTER	Oil & Grease
More Lubricant Consumption = Unsafe Mill			Low Lubricant Consumption = Cleaner Mill
High Risk of Bearing Replacement & Expensive Repairs			Extends Bearing Life, Gives longer Relubrication Intervals & Avoiding Expensive Repairs
Environment Hazardous			Biodegradable, Non bituminous & Environment friendly
High Cost			20% to 30% Reduction on Annual Lubricant Cost & Economical Price.










RECOMMENDATION GUIDE FOR SUGAR MILL MACHINERY

Applications & Component	Recommended Powermaxx Products	Thickener & NLGI grade & Viscosity	Drop Point °C	Service Range in °C	Product Benefit & Features
SUGAR CANE LOADING & UNLOADING SECTION (Shredded Cane Elevators/Carriers & Conveyor Systems)					
Wire Ropes & Steel Cables 	WR HTXX 460-00 	In-Organic Clay - 00	+320	-20 to 160	<ul style="list-style-type: none"> Excellent internal and external protection, Extensive covering power & economic usage Water repellent film extends re-lubrication intervals. Ropes are clean to handle allowing easy inspection. Extends rope service life. Thin film eliminates fling off and does not collect abrasive particles.
Conveyor Chain Bearings 	HT LCX-2 460	Lithium Complex -2	+260	-20 to 180	<ul style="list-style-type: none"> Excellent thermal stability by mechanically and chemically, providing effective lubrication. Provides excellent adhesion and assures a robust lubricating film under High speed, High temperature & High shock loads Extremely high dropping point and High-pressure loading capacity
Conveyor Chain 	STYNOL-220 (Synthetic Chain Oil)	Synthetic Oil - 220	+270	+280	<ul style="list-style-type: none"> Minimal residue formation & carbonization. Chain oil reduces relubrication intervals due to high oxidation stability. No dripping from chains.
SUGAR MILL & PLANT SECTION (Crushing & Milling)					
Fibrizer bearings (Fibrizer, Chopper, Cane cutter, & leveller) 	MOLY HT LCX-2 220 plus 	Lithium Complex + Moly - 2  (NSF Certified Product)	+280	-20 to 220	<ul style="list-style-type: none"> Excellent mechanical stability and prevents leak out of bearings even in the presence of water. Good water and heat resistance. Good wear protection, Long lasting lubrication High temperature, High speed & High shock loads. Provides excellent adhesion and assures a robust lubricating film Good water, heat resistance and are not affected by mild acids / alkalis machine stoppages and bring significant improvement to equipment lifetime. Reduced temperatures in load zones = Improvement in equipment. Lifetime Sealing maintained = reduction in grease consumption
ID / FD & SA fans hopper bearings & Coupling's, Blades & Gear Teeth) 					




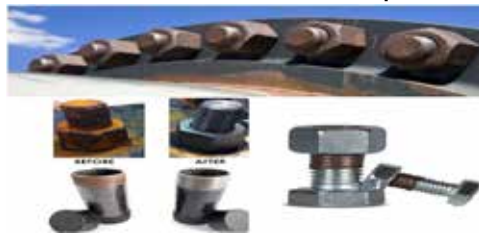




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Sugar Mill Journal Bearings & Crown Wheels (Girth Gears) 	SMB-2000 1/0 (Mill Bearing grease) 	Synthetic Oil + Mineral Oil Metal Complex + Special EP + Solid Lubricants (5% Moly & 2% Mox-Active) - 1/0  <small>Nonfood Compounds</small> (NSF Certified Product)	+200	-20 to 160 (short period +160)	<ul style="list-style-type: none"> Stronger film shear stability forms a ring to resist the heavy loaded roller mill bearings & Crown Wheels. Low consumption & Immediate monetary savings. Extends bearings life and gives longer relubrication intervals. High protection against seizure and wear, avoiding expensive repairs. Excellent flow and pump-ability for automatic centralized and Individualized systems. Thermally stable, can withstand high shock loads, and minimizing metal to metal contact. Good sealing properties in highly loaded bearings against hot water, steam vapor, cane juice and dirt-laden environments, No need for external cooling. Biodegradeable with Non bituminous and Environment friendly. Elimination of accidents occurring by spills of asphaltic oils & other graphite greases and environmental impact caused by the big volumes of lubricant waste commonly generated in sugar industry.
	SMB FLUIDPRESS 20K Biodegradable Oil (Mill Bearing oil) 	Semi Synthetic High - Performance Biodegradable (Organic Base Oil) Viscosity- 20000 Cst  <small>Nonfood Compounds</small> (NSF Certified Product)	+200	-10 to 160	
Bagasse Carrier (Pin & Bushes) 	CS HTXX-2 460 HD 	Calcium Sulfonate Complex - 2	+320	20 to 250	<ul style="list-style-type: none"> Excellent water washout, ability to absorb free water, without losing thickener consistency. Extended re-grease intervals, reducing grease consumption. Equipment protection under heavy and shock loading and excellent high temperature oil bleed control. Extended re-grease intervals
SUGAR DISCHARGE / DRYING & COOLING SECTION (Sugar Processing Equipment & Gear Drives)					
Heavy duty & High-Speed Electric Motors & Air compressor Bearings etc 	SYNTH PD-2	Lithium + Solid Lubricants - 2	+280	-20 to 160	<ul style="list-style-type: none"> Excellent water resistant to Alkalis, Acids, Chemicals, good start-up characteristics at low & high temperatures. Most suitable grease for cold weather pumpability and low temperature environment. Extreme pressure properties to perform under high speed, high temperature, vibration & shock loads. Excellent stability and outstanding protection against rust and corrosion for both ferrous and non- ferrous metals high speed motor bearings. Applications for heavy duty Electric motor ball, Pumps, Small, medium and large bearings and roller bearing where antifriction bearings operating at high speed & high temperature 2000 to 30000 RPM and greater.
	PD LCX-222	Lithium-Complex - 2	+280	-20 to 180	
	PD LCX-3	Lithium-Complex - 3	+280	-20 to 180	
	POLYTHERM-2 100	Polyurea - 2	320	-30 to 240	

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Applications & Component	Recommended Powermaxx Products	Thickener & NLGI grade & Viscosity	Drop Point °C	Service Range in °C	Product Benefit & Features
General bearings (Industrial, Machinery, Electric motors) 	AP3 / EP-2 / EP-3 GREASE 	Lithium - 2/3 	+190	-20 to 160	<ul style="list-style-type: none"> Reduces friction. Extend bearing life and Increase lubrication intervals. More energy efficient. Water resistant. Prevent seizure.
Enclosed Gear lubricants (Bevel/Spur/Helical) 	GEARTECH (Mineral Oil) / SYNTH GEARTECH (Synthetic Oil)	Mineral Base Oil / Synthetic Base Oil Viscosity: 100, 150, 220, 320, 460, 680	+ 280	-20 to 160	<ul style="list-style-type: none"> Helps extend gear and bearing life in enclosed gear drives operating under extreme conditions of load, speed and temperature & reduces energy consumption. Excellent resistance to rust and corrosion and very good Helps reduce unplanned downtime; less maintenance - especially critical for difficult to access gearboxes Helps extend oil life and drain intervals and reduce oil consumption, which can lower maintenance costs.
Open Gear lubricants (Pinions Gear Girth, Drives and Worm Gear) 	SMB FLUIDPRESS 20K Biodegradable Oil (Mill Bearing oil) 	Semi Synthetic High-Performance Biodegradable (Organic Base Oil) Viscosity -20000 Cst 	+200	-10 to 160	<ul style="list-style-type: none"> Stronger film shear stability forms a ring to resist the heavy loaded pinions gear & Crown Wheels. Low consumption & Immediate monetary savings. Extends tooth gear life and gives longer relubrication intervals. High protection against seizure and wear, avoiding expensive repairs. Excellent flow and pump-ability for automatic centralized and Individualized systems. Thermally stable, can withstand high shock loads, and minimizing metal to metal contact. Good sealing properties against hot water, steam vapor, cane juice and dirt-laden environments, No need for external cooling. Biodegradeable with Non bituminous and Environment friendly. Elimination of accidents occurring by spills of asphaltic oils and environmental impact caused by the big volumes of lubricant waste commonly generated in sugar industry.
Hydraulic oils (Power Packs, Scraper Circulating, Compressor, Gears, Bearings & Vacuum Pump) 	HYDRAULIC OIL	Mineral Oil Viscosity: 32, 46, 68, 100, 150, 220	220	0 to 200	<ul style="list-style-type: none"> Enhanced anti-wear performance, oxidation, thermal stability, Corrosion protection and Demulsification performance Seal compatibility, Low foaming, extended equipment life.
Compressor oil (Reciprocating, Rotary screw, Rotary air) 	AIR COMPRESSOR OIL (Synthetic Technology)	Synthetic Base Oils Viscosity: 46, 68, 100, 150, 220	+220	Upto 180	<ul style="list-style-type: none"> Longer intervals between cleaning of valves, heat exchangers ports and piping ensure lower maintenance cost. Less carbon and deposit formation reduces fire and explosion hazards. lubricates cylinders and crankcase. Absorb the moisture present

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Centrifugal pumps & bearings 	EP-00 PD LCX-00 EP-00 Grease 	Lithium - 00 Lithium - Complex - 00	+190 +260	-20 to 160 -20 to 160	<ul style="list-style-type: none">• Good lubrication even in presence of water.• Extended bearing life in wet environment for reduced bearing costs and unanticipated downtime.• Does not melt or soften and leak from bearings exposed to high speed, high temperature & Good pumpability.• Resistance to water washing, steam and humid conditions,
COGEN POWER PLANT SECTION					
Turbine Oil- Steam gas turbines 	TURBINE OIL	High Viscosity Index Base Oils Viscosity: 46, 68	240	upto 320	<ul style="list-style-type: none">• Good oxidation stability, Anti-rust corrosion protection, Anti-wear properties and excellent hydraulic stability and Anti-foaming for long service life at elevated temperatures.• Formulated with premium base oil technology and an ashless, zincfree formulation.
Turbine & Boiler Nuts, Bolts & Pipes 	COPAZ-B2 (Copper Anti-Seize grease) 	In-Organic Clay + Moly + Micronized Copper - 2	Non-drop	-20°C to +1200°C	<ul style="list-style-type: none">• Keep parts working longer with less wear and protects against carbon fusion. Minimizes parts replacement costs.• Enables faster disassembly when repairs are needed even after exposure to high temperatures.
Traveling Grate Boiler 	POLYTHERM-1 460 CS HTXX-0 460 HD SYNTHETIC MOLY HTXX-1 460 HD  	Synthesized Polyurea Calcium Sulfonate Complex In Organic Bentonite Clay + 15% Graphite & 5 % MoS2 (moly)	+280 +320 +320	-30°C to 280°C -20°C to 280°C -20°C to 400°C	<ul style="list-style-type: none">• Excellent extreme-pressure protection and load-carrying ability for equipment protection under heavy and shock loading and excellent high temperature oil bleed control.• An advanced polymer additive package which resists water washout and Non-melting point, Ability to absorb free water, without losing thickener consistency.• Excellent flow and pump-ability for automatic centralized and Individualized systems• Extended re-grease intervals, reducing grease consumption.• Excellent stability with high drop point gives outstanding protection against rust, corrosion & oxidation.• High drop point ensures extended operating temperature range upto 280°C to 320°C

Global Presence

Company sells its manufactured product all over India and have global presence since past 5-6 years in various continents such as: Asia, Africa, Australia & South America.

About Us

We "Powermaxx Lube India" with years of grease manufacturing experience introduce ourselves as leading manufacturer & exporter in all kinds of Sugar Industry, Wind Turbine Mill & Renewable Energy, Power generation, Automotive, Industrial, Construction, Mining, Quarry, Marine, Steel, and Specialty Lubricants & Greases. We are focused to upgrade ourselves continuously. Our company's pricing policy is as transparent as glass.

Quality Policy

The Products of "Powermaxx Lube India" are being manufactured under supervision of highly experienced engineer's and professional technicians who uses latest chemistries and additive technologies which helps in manufacturing the products to be more economical cost for the buyer under the advanced tribological and testing facilities for the machinery, engine and all other equipment's.

Customized Private Labelling & Personal Branding

- We provide customized private labelling of the Client's brand name for all the products.
- Our specialty is to manufacture customized tailor-made greases and specialty Lubricants as per the customer's requirement and demand
- We ensure not to compete with our clients.



Innovation & Research

Biotechnologies with non-toxic, biodegradable, environmentally friendly renewable lubricants based on esters or fatty oils for wind turbines to find the most suitable components to reach energy efficiency through formulations designed in our research laboratory.

Customer Services - Field Engineering Services

- Product Development
- Logistical Management
- Technical Support and Services
- Marketing and Sales Support



POWERMAXX LUBE INDIA

For any queries our prompt services are available at,

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