



BOLDLY EXCEEDING EXPECTATIONS.

**DYNAMO
LUBRICANTS**

DYNA INDUSGEAR EP

HIGH PERFORMANCE INDUSTRIAL GEAR OILS

The Dyna Indusgear EP Series Oils are extra high performance gear oils having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems. This oil is designed to stay ahead of the changing needs of gearbox technology. Gearbox technology design trends are towards smaller units with similar power throughput. This increase in power density places increased demands on gear oils. Dyna Indusgear EP Series oils are formulated to meet the stress by providing extra protection for gears, bearings and seals.

Dyna Indusgear EP Series is formulated to protect gear teeth from wear at its earliest stages. Microscopic wear, called micropitting, can lead to significant gear tooth damage. Dyna Indusgear EP Series exceeds the industry requirement for bearing wear protection. Dyna Indusgear EP balanced formulation is able to provide maximum

wear and corrosion protection while maintaining compatibility with common gearbox seal materials. Dyna Indusgear EP helps to maintain gearbox seal integrity thereby preventing oil leaks and keeping contamination out. By protecting the gears, bearings and seals, it can improve equipment reliability and increase productivity.

Dyna Indusgear EP Series oils are recommended for industrial spur, helical and bevel enclosed gears with circulation or splash lubrication, operating at bulk oil temperatures up to 100°C. They are particularly suitable for gear sets working under heavy or shock loads. They also find broad application in marine gearing applications. They may also be used in non-gear applications include highly loaded and slow speed plain and rolling contact bearings.

Dyna Indusgear EP Series Oils are available in ISO VG 68, 100, 150, 220, 320, 460

FEATURES & BENEFITS

Dyna Indusgear EP Series are mineral-based products which are designed to provide high quality industrial gear oils, meeting the latest industry standards and with high versatility to lubricate a broad range of industrial and marine equipment.

Dyna Indusgear EP Series products offer the following features and potential benefits:

- Enhanced gear wear protection from micropitting. Less gear and bearing wear resulting in less unexpected downtime.
- Reduced debris denting from generated wear particles. Up to 22% improvement in bearing life reducing bearing replacement costs and improving productivity.
- Improved bearing wear protection. Improved bearing life resulting in higher productivity.
- Outstanding compatibility with a range of seal materials that reduced leakage, oil consumption and contamination ingress helping to reduce maintenance, extend gearbox reliability and higher productivity.

- Excellent resistance to oil oxidation and thermal degradation that helps extend lubricant life with lower lubricant and lubrication costs and reduced scheduled downtime.
- High resistance to sludge and deposit formation for cleaner systems and reduced maintenance.
- Wide range of applications. Fewer grades of lubricant required because of wide range of application, leading to lower purchase and storage costs and less danger of using wrong lubricant.
- Optimised resistance to rust and corrosion of steel and corrosion of copper and soft metal alloys. Excellent protection of machine parts, with reduced maintenance and repair costs.
- Resistance to foaming and emulsion formation. Effective lubrication and problem free operation in the presence of water contamination or in equipment prone to oil foaming.

MANUFACTURED BY
D.K. LUBRICANTS (M) SDN BHD
SELANGOR D.E., MALAYSIA

INTERNATIONALLY MARKETED BY
KISMAT PETROLEUM TRADING PTE LTD,
SINGAPORE



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APPLICATION

Dyna Indusgear EP lubricants are used in a wide range of industrial and marine applications, especially spur, helical, bevel and worm gearing. Specific applications include: Industrial gearing for conveyers, agitators, dryers, extruders, fans, mixers, presses, pulpers, pumps (including oil well pumps), screens, extruders and other heavy duty applications Marine gearing including main

propulsion, centrifuges, deck machinery such as winches, windlasses, cranes, turning gears, pumps, elevators and rudder carriers. Non-gear applications include shaft couplings, screws and heavily loaded plain and rolling contact bearings operating at slow speeds. Dyna Indusgear 68, 100, 150, 220, 320 and 460 have the following approvals and specification.

SPECIFICATIONS AND APPROVALS

AGMA 250.04, ISO 12925-1 CKC, ISO6743 - 6 CKC, US Steel 224, DIN 51517 Part III

SPECIFICATION OF DYNA INDUSGEAR EP

PARAMETERS	ISO VG 68	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460
Viscosity, ASTM D 445						
cSt @ 40° C	68	100	150	220	320	460
cSt @ 100° C	8.8	11.2	14.9	19	24.1	30.6
Viscosity Index, ASTM D 2270	101	97	97	97	97	96
Copper Strip Corrosion, ASTM D130, 3 h @ 100° C	1B	1B	1B	1B	1B	1B
Timken OK Load, ASTM D 2782, LB	65	65	65	65	65	65
Rust protection, ASTM D 665, Sea Water	Pass	Pass	Pass	Pass	Pass	Pass
Flash Point, °C, ASTM D 92	220	220	220	244	230	240
Density @ 15° C, ASTM D 1298	0.88	0.88	0.89	0.89	0.90	0.90

These characteristics are typical of current production.

Whilst future production will conform to Dynamo specification, variations in these characteristics may occur.

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