

High Performance Lubricants for the Construction Industry



Omega
The Ultimate Lubricant

www.magnagroup.com





In the construction industry most machines are operated under severe conditions, from heavy loads and extreme temperatures to dirt and water contamination. Thus, adequate and correct lubrication of machinery and equipment are important to minimize pre-mature machine failure due to poor or improper lubrication. Capital investment in construction industry is so huge that, sometimes, instead of routine maintenance, engineers and maintenance professionals practice predictive and preventive maintenance to progressively reduce costs of unscheduled downtime.

OMEGA offers complete and specialized lubrication solutions to satisfy these stringent maintenance requirements. A portfolio of **OMEGA** products is quality engineered for a range of construction machineries, ranging from heavy duty earth-moving machineries and off-highway vehicles to light machines such as forklifts, air compressors and gearboxes. In lubrication, we understand your requirements better than anyone else because we LISTEN. Talk to your OMEGA expert today!!

How Omega Benefits You

OMEGA is one of the winning divisions of ITW PP & F Korea Limited, a business unit of ITW, Inc., USA – the world's leading industrial services innovator. Since 1965, **OMEGA** has been working with thousands of maintenance professionals and engineers, handling daily maintenance jobs in many heavy industries worldwide.

Research and Development

Omega's Research team, with ITW's global technical support, continuously formulating products to meet the demands and changing trends of various industries. Its team is dedicated to working in close partnership with its Distributors and Customers to provide complete lubrication solutions and services.

Network of Distributors

Omega has developed a technically trained Distributor network that provides comprehensive support to Customers anywhere in the world.

Environmental Policy

Omega recognizes environmental protection as an integral part of its business activities. Our company has an environmental policy to minimize impact on customers, employees and the community. Objectives are set within that policy to conserve natural resources, reduce waste and lessen impact on the environment.

Internet / Intranet Site

Omega's Marketing Consultants and Distributors located at various cities utilize an information system provided by the Internet / Intranet Technology to respond almost immediately to Customer's queries.

Personal Service from our Technical Specialist

Omega's highly trained Marketing Consultants, Distribution Representatives and Lubrication Consultants are available to provide a complete package (ask for details from your local representative) to determine your individual lubrication needs, beginning with a plant survey that includes:

Plant survey:

- Checking on machine parts like bearings, motors, gears, conveyors etc
- Visual check on lubrication oil level
- Lubrication time cycle
- Recommendation of Omega lubrication system
- Recommendation of stock level

Lubrication schedules and analysis program:

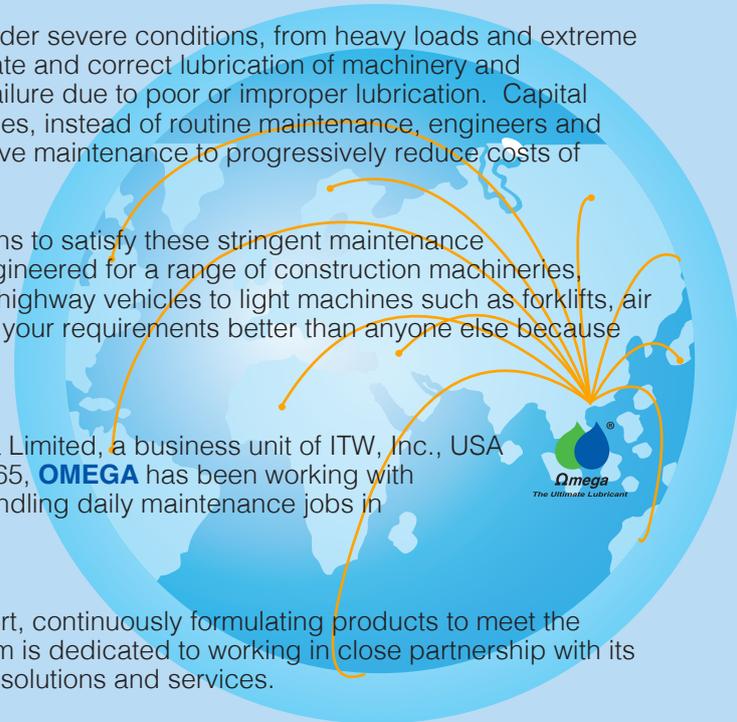
- Oil and grease analysis report
- Failure analysis report
- Final recommendation

In - house training program:

- We will provide seminars and presentations on a continuous basis covering topics such as product applications, health and safety requirements and cost control
- In-house training programs for end users

Labelling of equipment:

- We offer special labels to record product used & operating maximum temperatures reached.
- Our sales representatives will conduct follow up to monitor progress



OMEGA Products for Major Construction Heavy Equipment / Off-Highway Vehicles

Omega 64 Pin, Bushing and Track Roller Grease

Omega 64 is ultra-tacky and has a strong resistance to squeeze-out. It is ideal for use in track rollers, pins and bushing system.

Omega 65 Long Life Chain and Cable Grease

Omega 65 provides penetration quality that stops grease from squeezing-out. It ensures that cables, wire ropes and chains become completely saturated with lubricant. Omega 65 provides long-term protection to conveyor chains, mobile lifts, hoist chains, crane cables and elevators.

Omega 73 Waterproof Open Gear Grease

Omega 73 is an all weather resistant open gear grease that will cling onto metal surfaces tenaciously. Omega 73 has unlimited applications in open gear situations you normally find in cranes, hoists, rail pulleys, truck turntables, etc.

Omega 77 EP Bearing and Chassis Grease

Omega 77 is formulated with special additive package to provide excellent cohesive and EP properties to withstand extreme shock loadings and pounding-out. Omega 77 also forms its own seal against water and contaminants.

Omega 89 Ultra Heavy Duty Grease

Omega 89 Ultra Heavy Duty Grease is a premium grease designed to protect and lubricate heavy-duty bearings operated at a wide range of speeds in moist operating condition.

Omega 606 Multi-Grade Hydraulic Oil

A high performance, high viscosity, multi-grade hydraulic oil fitting most hydraulic systems made by major European, US and Japanese manufacturers.

Omega 612 Universal Lubrication and Hydraulic Oil

Omega 612 does not attract metallic dust and magnetic particles. It is formulated with special anti-wear additives and demulsifiers.

Omega 643 Premium Diesel Engine Oil

For severe and turbocharged operating conditions in gasoline and diesel engines. The fine paraffinic base provides greater cohesion, adhesion with high heat and oxidation resistance.

Omega 690 Super EP Gear Oil

Omega 690 is an extreme pressure gear oil. It is able to follow a gear train and stay in position. Omega 690 is water and vibration resistant. It is ideal for initial top-up or refill in Hypoid differentials (especially limited slip type), industrial gearboxes and automotive transmissions.

Omega 699 Super Automatic Transmission Fluid

The new OMEGA 699 Super Automatic Transmission Fluid is a truly multi-purpose fluid that meets and exceeds most original equipment manufacturers specifications for automatic transmission fluids, including GM DEXRON III® and Ford Mercon®.

Omega 757 Long-Drain All-Fleet Engine Oil

Controls wear effectively and provides Ultra Long Life change intervals. Meets almost every vehicle engine manufacturer's specification.

Omega 902 Tire Mounting Lubricant

Engineered specially for trucks and heavy equipment. Will not damage rubber. Its polymer system provides good rim fit and rust protection for the tire and tire rim. Saves time and labor when changing tires. No mixing or dilution required -- just brush or spray on.

Omega 903 Super Diesel Additive

Extends injector life, improves combustion and cuts down exhaust smoke. Self-dispenses in fuel tanks or bulk storage. (New, Biocide-enhanced formulation)

Omega 906 Special Radiator Treatment Additive

Prevents corrosion, protects and lubricates water pumps and seals. Ensures better thermostat operation. One application protects for up to 6 months.

Omega 907 Engine & Compressor Flush

Removes harmful deposits from within engines and air compressors. Prevents the immediate deterioration of new oil by cleaning out all the damaging components of the old oil.

Omega 909 Super Engine Oil Additive

Omega 909 contains a special package of additives designed to keep engines at peak performance. Omega 909 eliminates ring and valve stick, inhibits corrosion and reduces friction, resulting in reduced fuel consumption and lesser engine wear.

Omega 917 "Seal Saver"

Omega 917 lubricates, protects and prolongs the life of all types of seals. It prevents fluid loss caused by seal deterioration. Omega 917 contains no harmful solvents and is non-flammable. Omega 917 works while equipment is operating thus saving cost on downtime and material wastage.



Omega Products for Other Construction Equipment / Machinery

Omega 85 "Shear Sensation Plus" All-Purpose Grease

Has unmatched shear strength and in-built temperature stability. Stays tenaciously without squeeze out, thinning or deforming. Matches every seal type. Available in NLGI #2 and #0.

Omega 95 Super Corrosion-Control Grease

Omega 95 is engineered to provide the highest possible lubricating and protection qualities ever, for severe water wash environment.

Omega 99 "Seize Stop" Grease

Omega 99 is an acid-resistant, waterproof and high heat resistant, metal preserving lubricant. It is non-toxic and can be used in confined spaces. Omega 99 is ideal for releasing and protecting nuts, bolts, washers, steam pipes and plugs.

Omega 613 Superior Air Compressor Oil

Omega 613 can be used either as a compressor oil or vacuum pump lubricant. It is heavily fortified against carbon formation and oxidation. Omega 613 is ideal for screw compressors (dry and flooded), rotary compressors, gear compressors, centrifugal compressors, axial flow compressors and all types of vacuum pumps.

Omega 615 Synthetic Air and Refrigeration Compressor Oil

Omega 615 is a synthetic oil containing anti-oxidant, rust inhibitor and anti-foam additives. It leaves no varnish or carbon deposits even in low temperatures thereby eliminating cleaning in refrigeration compressors.

Omega 636 Jamaican-Base Universal Maintenance Oil

Omega 636 has universal application for all basic maintenance requirements. It is popularly used for general lubrication, rust-proofing, displacing water and to loosen "frozen" rusty bolts and nuts.

Omega 670 Straight Mineral Gear Oil

A premium oil heavily fortified against foam and oxidation permitting high heat and improved wear performance.

Omega 680 High-Performance Worm Gear Oil

Omega 680 improves operating efficiency, saves energy, lowers operating temperatures and provides superior operating life for worm gear sets.

Omega 904 Industrial Oil Concentrate

Omega 904 helps reduce friction, sludge, varnish and carbon build-up and can be used in all types of hydraulic fluid, transmission, reducers and all forms of manual gear boxes.



For major construction heavy equipment / off-highway vehicles

APPLICATION	OMEGA SOLUTION (O: OMEGA)
Engine Oil (Diesel)	O643 / O757
Hydraulic Oil	O606 / O612
Transmission Oil	O699
Drive Axle Gear Oil	O690 (auto multi-grade)
Grease Points – Multi-purpose EP Greases	O77 / O89
Open gear / Slewing ring gear	O73
Pin / Bushing	O64
Wire Rope / Dragline Lube	O65
Fuel additives	O903
Other Auto additives	O902 / O906 / O907 / O909 / O917

For other equipment

APPLICATION	OMEGA SOLUTION (O: OMEGA)
Gear Oil	O670 (mineral) / O680 (worm gears) / O690 (EP)
Compressor Oil	O613 / O615
Penetrating oil	O636
EP greases	O85 / O95
Others	O99 (anti-seize) / O904 (industrial oil additive)

Excellent Performance of Omega Products for the Construction Machineries Verified by End-users

Omega 64 and Omega 73

India - An Engineering Service company and a contractor

While using **Omega 64 and 73** in mobile crusher (Terex Pegson) it is found that the greases lasted for 20 days, saving our manpower and downtime and increasing the machine working capacity and efficiency.

While using **Omega 64** in the pin & bushing areas of our loaders (Komatsu, TWL-3036 and L&T), we found that it lasted for four days (whereas other greases lasted only 6 to 8 hours) without any halt for greasing – saved our time and increased working capacity of our loaders. This is important because in many sites there are not many workers due to safety reason – as a result we are not able to re-grease, causing pre-scheduled downtime due to damaged costly parts.

Omega 65

UAE – A paving stones manufacturer

After applying **Omega 65**, there has been tremendous increase in the life of the drag bucket wire ropes (working under dusty environment) by at least 3 to 4 times. Earlier we had to change the rope every 2 to 3 months. Also, the re-greasing interval has phenomenally extended, saving downtime and maintenance costs.

Omega 606

Bahrain – Construction Project:

Lifting a pre-assembled steel structure (about two thousand and five hundred tons) using “strand jacking” methodology.

There was a total of 50 hydraulic jacks, each offering a capacity of 50 tons to slide the pre-assembled bridge. The critical and underlying Teflon pads had to rely on a premium quality and dependable hydraulic oil. Excessive friction, abrasive action and load on the Teflon pads and even equipment breakdown would become immediate obstacles to the entire sliding action if the hydraulic motions were not effectively lubricated.

Omega 606 Multi-Grade Hydraulic Oil was the only solution.

Omega 77 and 917

Malaysia – An Engineering Service Company

Omega 77 had indeed helped us substantially reduce breakdown and replacement of pins and bushings and bearings of our heavy equipment. As a result, we have substantially saved our maintenance cost. Instead of greasing every day, we now only re-grease once a week, saving us costs of greases, labour and downtime.

Omega 917 has also helped us reduce hydraulic system leakage, saving us many hours in downtime, labour and repair costs.

Omega 909

Philippines – A construction engineering company

Omega 909 has more benefits over other ordinary additives in terms of engine performance. It cleans valve train effectively; as a result, engines are free from carbon deposits and give better combustion. Moreover, as per our observation, the service life of engine oil was extended by about three times, reducing oil consumption and raising engine mileage beyond its normal operating condition.

Omega 757

Qatar – A transport company

We used **Omega 757** in our Detroit Allison Diesel Engine for the last months and we are confident it will live up to its name “Long Life”.

Omega 690

Qatar – A Trenching Machine Manufacturer

This is to certify that **Omega 690** SAE 85W140 is suitable for the gearboxes in our trenching machines.





At ITW PP & F Korea Limited we are fully committed to a proactive approach to safety, health, environment and product improvement. Our commitment is well reflected in:

- Our continuous Research and Developments
- Our on-going in-house Training and our in-house Training Facilities
- Our comprehensive range of Quality Products
- Our many long-term Repeat Customers



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About ITW

ITW (NYSE:ITW) is a Fortune 200 global multi-industrial manufacturing leader. The company's seven industry-leading segments leverage the unique ITW Business Model to drive solid growth with best-in-class margins and returns in markets where highly innovative, customer-focused solutions are required. ITW has nearly 50,000 dedicated colleagues in operations around the world who thrive in the company's unique decentralized and entrepreneurial culture. To learn more about the company and the ITW Business Model, visit www.itw.com.

To offer the best service to each market segment, ITW PP & F Korea Limited operates the following divisions that are branded uniquely for the most prominent recognition by users and customers:



OMEGA Ultimate Lubricants

Specializing in lubrication solutions - greases, oils and additives



MAGNA Welding Alloys

Specializing in gas and arc welding consumables for maintenance



CORIUM Industrial Chemicals

Specializing in industrial & commercial chemicals and adhesives



ZETALUBE Lubricants

A new lubricity dimension evolved from experience

We supply superior products that make maintenance:

- ✓ Faster
- ✓ Safer
- ✓ More reliable

Our products are engineered to:

- ✓ Lower costs
- ✓ Reduce downtime
- ✓ Cut wastage

We reserve the right to modify or change products for purposes of improving performance characteristics. © 2020 ITW PP & F Korea Limited

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