



perma Lubrication Systems in
Oilfield

The World of Automatic Lubrication

perma[®]



(above left) Hydromatic Brake
Automatic re-lubrication of multiple bearings. Utilizing the perma PRO MP-6 all bearings receive controlled, uncontaminated lubrication on a consistent basis.

(below left) Electromagnetic Brake
Two perma PROs distributing trouble free re-lubrication. Once a month change out reduces waste, labor time and unscheduled downtime.

(below right) Generator Cooling Fans
One perma PRO MP-6 lubricating four critical points in what can be a difficult area of lube. Change outs are six month and twelve month intervals. Stops over lubrication issues associated with this application, preventing premature bearing failure.



Trouble-free operation with automatic lubrication systems from perma

Oilfield profitability is directly related to equipment reliability. One of the main requirements for reliable operation is frequent greasing to prevent the entry of contaminants inside bearings. Since many of the lubrication points in oilfields are dangerous and hard to access, they are not lubricated as often as required. This causes accelerated wear of mechanical components and often leads to premature bearing failure. Extreme operating conditions such as high temperature, vibrations, shock loads, high loads, and contaminants such as dust, dirt and water demand frequent and reliable lubrication in order to prevent costly downtime.

Automatic lubrication systems from perma are successfully being used on many critical pieces of the drilling rig such as the Brake, Crown, Drawworks, Cranes, Generators, Pumps, Radiator Cooling Fans globally. They are economical, meet the technical demands and also drastically improve work place safety, a key concern in the oilfield industry.

→ perma for **economical** reasons

Lubrication without the need to stop production increases the efficiency of your equipment. Automatic lubrication systems from perma save time because they minimize lubrication maintenance runs. The time it takes to do the change outs of automatic lubrication systems per year is considerably less than the time spent with manual greasing.

Do more with less:

The utilization of the perma PRO lubricating critical pieces of equipment saves time. Standard lubrication on the rig is required at least every few hours, with time at a premium, this is often missed or disregarded until time is available. The perma PRO provides consistent lubrication 24 hours a day, 7 days a week, with no worry. You only need one easy change out, once a month, for the vast majority of your equipment. Generators and fans need only to be changed out once a year. You can rely on perma to deliver fresh, clean lubricant, when and where you need it, without maintenance.



High-tech automatic lubrication for Drawworks.



perma PROs (shown with enclosure box) on the Crown represent one of the most cost effective applications on the rig. Saving both time and money when safety is the priority.

→ perma for **safety** reasons

Roughnecks, tool pushers, and rigs superintendents are constantly exposed to danger in the field. Applications are commonplace that expose each to harm's way. Using permas with remote mounting, away from potential hazards, minimizes one's exposure to unsafe practices by up to 90%. Making it easier to follow and observe the required safety precautions.

→ perma for **technical** reasons

Automatic lubrication systems ensure an uninterrupted supply of sufficient, fresh lubricant to all lubrication points. In addition, they effectively seal lubrication points and bearing seals to prevent the entry of water, dirt and dust. Even hard to access, moving, or hidden lubrication points that are often neglected are permanently lubricated without interrupting production.

Another advantage:

The time saved with automatic lubrication systems from perma can be invested in other value-adding maintenance tasks, including regular inspections of equipment and lubrication systems, basic condition monitoring, oil sampling and filtration.



perma lubrication systems are often used on Cranes in many offshore and international locations.

perma Lubrication Systems in Oilfield

perma products have been successfully used in applications related to the Oilfield for over five years around the world.

Reliable automatic lubrication ensures trouble free operation for machinery and equipment.

All perma PROs are mounted in NEMA Rated enclosures for protection from the harsh environment. Indicator lights and PRO display keep personnel informed on replacement and operation.

perma automatic lubrication systems – we meet your needs:

- > 24 hour operation
- > Simple installation
- > Easy tool-free exchange
- > Little mounting space
- > Tough systems – no power needed
- > Regular injections in small amounts of fresh grease

perma is the Most Trusted Partner Worldwide for all Industries:

- Global market leader
- Largest product range in the market
- Many well-known satisfied customers
- Field-tested accessories for every lubrication system
- Product training, expert advice and consultation (check local supplier)



Automatic lubrication systems from perma are used in the following areas:

Brakes

Crowns

Generators

Cooling Fans

Cranes

Drawworks

Pumps

Top Drives

Mud Pumps

For more information, please visit our [website](http://www.permausa.com) or contact your local supplier.

We will gladly send you our extensive product catalog for more detailed information.

www.permausa.com

