



# **Lincoln** **Experience Productivity**



**We have the experience, the people, the capabilities and the systems to save you money and increase your productivity.**

## Who is Lincoln?

We provide industry with the world's best lubrication and specialized fluid pumping products, systems and service. We have manufacturing operations in the U.S., Germany, the Czech Republic and India. Our industry-leading network of systems houses and distribution partners custom designs and installs our systems, helping companies save money and increase productivity all over the world. Our skilled, experienced and dedicated people are committed to providing the very best service. That's why original equipment manufacturers in many industries insist on making our systems part of their products.

### **We save you money . . .**

Companies focus on reducing operating costs and improving productivity—we help our customers do both every day. We evaluate each customer's situation, then provide the correct lubrication or industrial pumping technology to best meet that customer's needs. The result is increased production, a safer, cleaner working environment—and a healthier bottom line.

### **and increase production . . .**

When an important piece of production machinery breaks down, it means expensive repairs, production losses and costly downtime. The cause is often bearing failure, and 54 percent\* of bearing failures can be blamed on inadequate or contaminated lubrication. Lincoln provides individualized lubrication and pumping solutions that prevent bearing failure due to poor lubrication, helping to eliminate costly downtime.

### **by offering the right solutions . . .**

Every application is different—we have the in-depth knowledge and experience needed to determine the optimal lubrication system. That's why Lincoln's experienced people offer numerous solutions that range from centralized automatic systems to improved manual lubrication methods. We're expert at finding the most cost-effective way to handle each customer's needs.

### **through our global service network.**

Our customers get solutions because they can draw on our worldwide resources. We have five technical support centers on three continents. Our network of systems houses and distributors is supported by regional sales and service offices, and our experts always speak the local language. In fact, our whole company speaks your "language," because we create systems that increase your productivity and save you money.

\* Tappi Journal, February, 1996.



We develop relationships. Our customers get to know us and understand our commitment to being the top performing company in our industry.



## Since 1910, Lincoln has been an innovator.

Lincoln can trace its tradition of providing creative customer solutions to companies on two continents—Lincoln Engineering, St. Louis, Missouri, and Helios Apparatebau O. Wetzel & Co., Heidelberg, Germany. Lincoln Engineering developed the first grease gun for lubricating mining cars, pioneered advancements in lubrication equipment used by automobile service stations, and invented automated lubrication systems and industrial thick-fluid transfer pumps. Helios Apparatebau, which began by providing lubrication methods for elevators and public rail transportation, introduced many industrial lubrication innovations, including the first two-line lubrication system and the first system for grease lubrication of moving points on conveyors.

In 1972, the two firms joined forces to form Lincoln. With more than 700 employees worldwide, we lead the world in automated lubrication, continuing a strong tradition of innovation.

### Research and Development

Lincoln develops new products and systems at research and development facilities in the U.S., Germany and India that provide regional and global application solutions. Thorough testing ensures that our products will perform under the toughest conditions. We're a leader in innovation, holding numerous patents with many more pending. And we have continued to increase our investment in R&D with new technologies such as computer-aided design, stereo lithography prototyping and enhanced testing capabilities.

### Product Design

Our worldwide engineering design group is always ready to do whatever it takes to meet a customer need. We solve unique application problems by creating a lubrication solution, whether it's a new product or an improvement to a current product. We can design a system that is just right for your application. We also work constantly to develop solutions that work for an entire industry or on machines used in a number of industries. Examples of Lincoln products that have helped entire industries include the Centro-Matic® single-line system, our Helios® two-line systems and our Quicklub® line.

### Extensive Testing

We always thoroughly test our new products under the toughest conditions to make sure they'll keep performing for you. First, we test new concepts and designs in our engineering test lab facilities. Then, in cooperation with OEMs and end-users, we validate the performance and endurance of our solutions in real-world applications. We make sure new products do what they're designed to do — even under the harshest operating conditions. Then and only then do we take a product to market.



Lincoln is constantly developing new products that solve customers' problems, whether it's for one customer or an entire industry.



**BOKER'S, INC.**  
Industrial & Agricultural Equipment

Model	Capacity	Price	Features
1000	1000	1000	1000
2000	2000	2000	2000
3000	3000	3000	3000
4000	4000	4000	4000
5000	5000	5000	5000
6000	6000	6000	6000
7000	7000	7000	7000
8000	8000	8000	8000
9000	9000	9000	9000
10000	10000	10000	10000

Model & Series Information



## **We help all kinds of industries save money and increase productivity.**

Lincoln has the right solution for your company, whether it's manual lubrication, simple automated systems, or large-scale centralized installations. With the BearingSaver® program and our extensive product offerings, we match the correct lubrication or pumping system to every customer and each application. Savings and increased productivity are the tangible results.

### **Automotive Manufacturing**

We lubricate the intricate ballet of robotic activity on the welding line, provide lubrication systems that move with complex conveyors, and help automakers apply adhesives and sealants in numerous applications.

### **Heavy Industry**

Steel, cement, glass, chemical plants, utilities—heavy industry operates in the toughest environments with large-scale lubrication needs. Our systems—which can feed thousands of lubrication points over great distances—offer the most cost-effective answer.

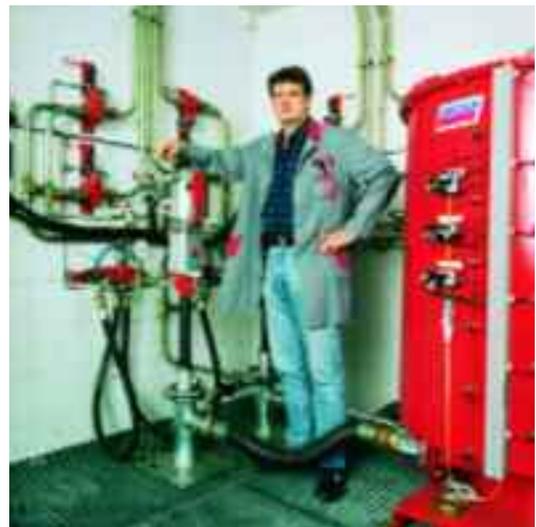
### **Pulp and Paper**

Papermaking machinery operates in a punishing environment of moisture and heat. Our automated lubrication systems eliminate bearing failures and reduce high downtime costs caused by too much or too little lubrication on the paper machine, as well as in the wood yard, debarking area, pulp mill, and bleach plant. Our systems also stop “grease breaks,” paper tears caused by over-lubrication. The result is higher productivity and increased safety for maintenance employees.

### **Food and Beverage**

With complex equipment, difficult environmental factors, concerns about contamination, and extensive use of conveyors, the food and beverage industry has a pressing need for the very best lubrication systems.

Lincoln meets the needs of the food and beverage and other industries. Rhein-Main-Sieg, the Coca-Cola bottling plant in Bendorf, Germany, is a prime example. It saves \$250,000 a year with a Lincoln automated conveyor-and-machine lubrication system. The installation incorporates centralized lubricant storage and electronic controls that automatically adjust for changes in plant temperature.



“We specified Lincoln because they had the right system and the expertise to install it correctly.”

*Olaf Böttcher, Maintenance Manager, Rhein-Main-Sieg Coca-Cola Bottling Plant, Germany.*



# On the road or in the field, Lincoln protects your investment.

Expensive equipment used in trucking, agriculture, mining and construction must be properly maintained. The traditional reliance on manual lubrication in these industries is giving way to centralized and automatic systems . . .

. . . and to a reliance on Lincoln. Caterpillar, Scania, Volvo, Komatsu, John Deere, Klaas, Iveco and other manufacturers make Lincoln's factory-fit lubrication systems part of their equipment. That happened because customers will settle for nothing less than Lincoln. Our network of distributors, who specialize in chassis lubrication, continue to prove the benefits of our systems.

## Over-The-Road Trucking

From centralized manual trailer kits to completely automated tractor systems, international manufacturers, commercial carriers and large private fleets take advantage of our money-saving lubrication methods to keep their trucks where they can make money—on the road.

## Agricultural Equipment

Whether it's a large agricultural cooperative or an individual farmer, today's user of high-cost farm equipment understands that automated lubrication is a critical part of the industry's maintenance philosophy. Original equipment manufacturers worldwide specify Lincoln systems for their products to add value and to ensure long, productive working lives.

## Mining

Large mining equipment typically costs millions of dollars, so it's not surprising that companies have specified Lincoln automated lubrication systems for more than 30 years. Today, the industry demands factory installation of our systems as standard equipment.

## Construction

Dirt, wind, rain, extreme heat, bitter cold—construction equipment operators face these conditions every day. Equipment owners know that their critical investment is in jeopardy without proper lubrication. That's why they increasingly turn to Lincoln.

Southdown Concrete Products is only one example of the many companies profiting from their association with Lincoln. Southdown uses our Quicklub® system to protect a fleet of more than 200 frontloaders, cement trucks and tractor-trailer rigs.



"We're saving more than \$200,000 annually on vehicle maintenance by using Lincoln Automated Lubrication."

*Terry Green, Director of Maintenance for Southdown Inc.'s Concrete Products Group, the third largest producer of cement products in the U.S.*



# The Best Shops Rely on Lincoln

Shop operations and fleet owners operations rely on Lincoln to provide the most reliable pump stations, hose reels, meters and control systems. Car dealerships, bus garages, waste industry fleets, trucking operations and municipalities have come to expect the best quality when working with Lincoln.

## Lincoln Fluid Control

With innovations such as our Lincoln Fluid Control (LFC) system, Lincoln is pioneering the integration of operations and management systems with control, tracking and billing for fluid dispensing services.

## Meeting Specifications

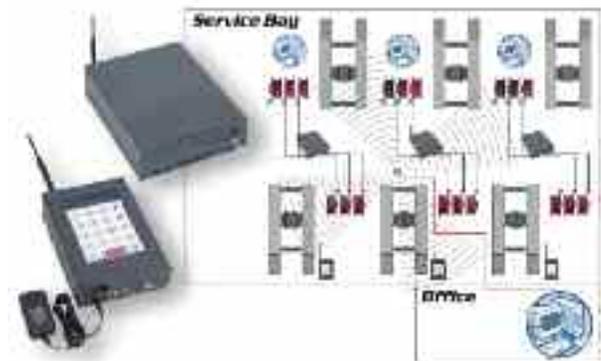
Lincoln representatives work with architects and engineers designing new vehicle service facilities to ensure the project is completed on time and on budget while meeting the needs and expectations of the new owners.

## From Design to Operation

Our distributors are experts and designing, planning, installation and commissioning of full-service fluid dispensing capabilities. Our top Petroleum Equipment Service Distributors (PESD) also service what they sell providing full repair service on Lincoln products and other brands.

## A Long-term Commitment

Once the professional mechanics get to work, they know they can rely on Lincoln to continue to provide support and innovation for their operations for years and years. Whether they are expanding and need a new pump station or simply want to pick up a replacement item at any one of thousands of aftermarket distributors nationwide, Lincoln will be there.



Lincoln, the first U.S. company to interface a dealer management system with a fluid control system continues to innovate with new products like the LFC 5000.



## **Lincoln offers a complete line of automated lubrication systems.**

While bearings are working, our automated systems lubricate them at frequent predetermined intervals with measured amounts of lubricant. Depending on the application, these systems can be centralized, with large-capacity lubricant containers, they can lubricate a smaller area in a plant, or they can ensure the smooth performance of a single valuable machine. With our BearingSaver program, we find the best automated solution for you from our wide range of systems for grease, fluid grease, or oil.

### **Two-line Systems**

Our Helios® two-line lubrication systems are specially designed for larger applications and the high-viscosity lubricants commonly found in steel mills, cement plants, paper mills and processing plants. The system distributes lubricant over greater distances using two lines to deliver grease alternately to metering devices.

### **Centro-Matic®**

Our single-line system, Centro-Matic, lubricates many points simultaneously. By choosing the correct injector for each lubrication point and making simple adjustments, it always dispenses the exact amount of lubricant needed. And if you add a piece of machinery, the system is easily expanded with additional injectors. System Sentry electronic monitoring capabilities allow for total control at the lubrication point. Centro-Matic configurations are also available for chain-lubrication applications.

### **Modular Lube®**

Progressive plunger systems lubricate many points, one after another. A pump carries grease to the lubricating point via progressive metering valves. Modular Lube valves are custom-built for each series of lubrication points and can be serviced without disturbing the primary installation. And to further protect your expensive equipment, a system equipped with the proper accessories can also detect lubricant blockage.

### **Quicklub®**

Quicklub is a progressive plunger system utilizing standard metering valves. Effective for use with smaller lubrication points, this simplified design saves money in many manufacturing applications, as well as for over-the-road trucks and off-road construction equipment. And by combining Quicklub metering valves with two-line systems or Centro-Matic, you can get the larger capacity you need at an economical cost.



Application specialists make sure our systems are installed correctly and our technicians are properly trained because our customers deserve the very best value for their investment.



## **Lincoln offers ORSCO precision oil lubrication systems.**

ORSCO's top-quality, microprocessor-controlled lubrication systems for manufacturing and assembly operations perfectly complement Lincoln's range of grease and oil lubrication products.

Well respected in automotive manufacturing, ORSCO products are gaining recognition in a broader range of industries. ORSCO systems increase Lincoln's ability to customize applications for each customer.

ORSCO lubrication equipment, which controls extremely fine amounts of lubricating oil in precise, non-mist sprays, is available in standard models and in custom engineered.

### **Engineered Systems**

ORSCO's engineered systems continuously or intermittently spray minute amounts of lubricating oil. These systems handle key applications, including the lubrication of vital engine parts during assembly, the microprocessor-controlled lubrication of extremely high-speed machine tool spindles and the fine spraying of oil to protect chains and conveyors.

These systems range in complexity and capability, depending upon the application requirements. From Series 100, the basic system that's used when space and economy are the primary concerns, to Series 300, with a microprocessor controlling lubrication to as many points as the customer needs, ORSCO systems can handle the toughest assignments.



Greg Hoag, a field erector for Marshall and Williams Company, prepares an ORSCO 150 unit for installation in the conveyor system of a textile mill in Mexico City.



## **Sometimes a simple approach is the best solution.**

Lincoln offers the industry's best centralized automated systems, but to provide customers with the right system, our wide range of products includes smaller, self-contained automated lubricators and general lubrication equipment.

### **Quicklub QLS 401**

The QLS 401 has it all. It's compact, rugged, easy to install and easy to use. It has a long list of standard features and delivers maximum performance—all at an affordable price. For those who thought the reduced downtime and improved safety benefits of automated lubrication were out of reach, and for those waiting for a cost-effective system for their smaller machinery, the reliable QLS 401 is the answer. It's automated lubrication "made easy."

### **Lincoln PowerLuber**

Lincoln's new, heavy-duty 14.4 Volt PowerLuber gives you the power to lubricate just about anything, anytime, anywhere. With all the features you need, PowerLuber's versatile two-speed design gives it the capability of two powerful tools in one. At the touch of a button, it can deliver high volumes of lubricant (10 oz. per minute) at medium pressure or a concentrated stream at high pressure (7500 psi working pressure\*).

### **General Lubrication Equipment**

At every worksite and plant, every maintenance professional and lubrication contractor needs general lubrication equipment to maintain the machinery. Our products work both as stand-alone solutions or as components in centralized automated systems.

We offer everything you need. Our high-pressure grease guns, general-purpose pumps, pneumatic filtering systems, hose reels and single-point kits all help maintain your costly equipment. And we also offer grease fittings, dispensing and measuring equipment, couplers, connectors, and lubricant hand trucks.



Linh Tran and Heidi Sugg support customers in Asia and Latin America as part of Lincoln's global customer service commitment.



# Lincoln has pumping products for the most demanding applications.

Lincoln has developed specialized pumps and pumping stations to handle the tough job of transferring thick fluids. In the printing industry, we are the centralized pump system of choice for the thick inks used in web press operations. And automotive plants prefer our pumping stations for their mastic dispensing applications. We also offer application solutions for oil, grease, sound deadener, silicone and more.

## **PileDriver® III Pumps**

Industry-standard PileDriver III pumps are perfect for high-volume and high-viscosity materials. They feature a patented protection bushing that extends pump life and guards against material leakage. Powered by Series III air motors, these reciprocating-piston pumps are available in numerous configurations and sizes so they can be precisely matched to the material being pumped. The pumps are aided by numerous Lincoln pressure primers, which push the heaviest materials to the pump for proper dispensing.

We also offer AirBrake™, a device that protects a pump from damage if its container is emptied while the pump is working.

## **PowerMaster® III Pumps**

Perfect for applications involving lower volumes of heavy material or lighter fluids (oil, grease, water-based materials, etc.), PowerMaster pumps are also available with the AirBrake protection feature.

## **Transfer and Specialty Pumps**

Lincoln transfer pumps move materials from one container to another efficiently and quickly, keeping everything free of dirt, dust and moisture. Specialty pump systems for corrosive, abrasive and water-based materials are also available.

## **Material Controls**

You can take your mounted pump system to the next level and get maximum control and versatility with our full line of control valves, flow guns, shutoff valves, measuring devices and ejectors.

## **Mounting and Installation Accessories and Air Controls**

For optimum performance, pumps need the right mounting equipment and accessories. We also have all the lines, couplers and fittings needed to get maximum efficiency and reliable long-term use from pumping systems. And to get the most from your pneumatic equipment, we also feature a complete line of air filter assemblies, regulators, lubricators and other accessories.



"I've worked at Lincoln for more than 20 years. I know the craftsmanship and quality of our products—they're the best you can buy."



# **We show you how to save—and we design, make, install, maintain and provide training on our systems.**

## **BearingSaver®**

We can show you how the right lubrication system can save you money. How? Through a unique program we developed called BearingSaver, which makes sure your lubrication investment results in significant savings. First, you get a thorough audit of your lubrication methods and needs. Then, we provide a detailed proposal on how to improve things, including a complete analysis of your return on investment.

## **System Design/Project Engineering**

Working with an international network of systems houses, we provide our customers with equipment that is specially designed to suit their requirements. Highly qualified project engineers and technicians, drawing on the knowledge they've gained from years of experience, plan and lay out state-of-the-art lubrication systems that work efficiently resulting in savings and increased productivity.

## **Manufacturing**

Lincoln builds precision metal components, top-of-the-line electronic controls, and the industry's best-performing pump systems. We continually invest in new methods and equipment. Our quality systems in the United States, Germany and the Czech Republic are ISO 9001 registered. In addition, our German operation has earned the ISO 14001 certification for environmental policy.

## **Installation, Start-up and Maintenance**

When we install a system, qualified technicians do the job economically and with high-quality workmanship. When customers install systems themselves, we provide assistance from installation to start-up. Experienced technicians calibrate equipment, measure its performance and record start-up data for our customers.

Good maintenance is essential to the proper function of any system. Our systems house personnel provide our customers with numerous maintenance options that keep things running and, just as importantly, fit tight budgets.

## **Training**

Our experienced trainers teach both our distributors and customers how to properly use and maintain our equipment.



Our international network of systems houses can specially design state-of-the-art systems to meet customer needs. Next, highly qualified engineers and technicians will plan, lay out and install these systems to exacting specifications.



## **Lincoln's global distribution network is the best in the industry.**

Whatever the service—evaluating your lubrication methods, installing a custom-engineered system, or supplying top-quality manual lubrication products—your Lincoln distributor makes certain you always get the very best value.

### **Systems House Distributors**

Our systems house distributors offer the highest level of expertise available in the industry. They can custom design a system with the exact combination of Lincoln components you need. Then, they install the system in your plant with their knowledgeable technicians or work with your personnel to make sure the job is done correctly.

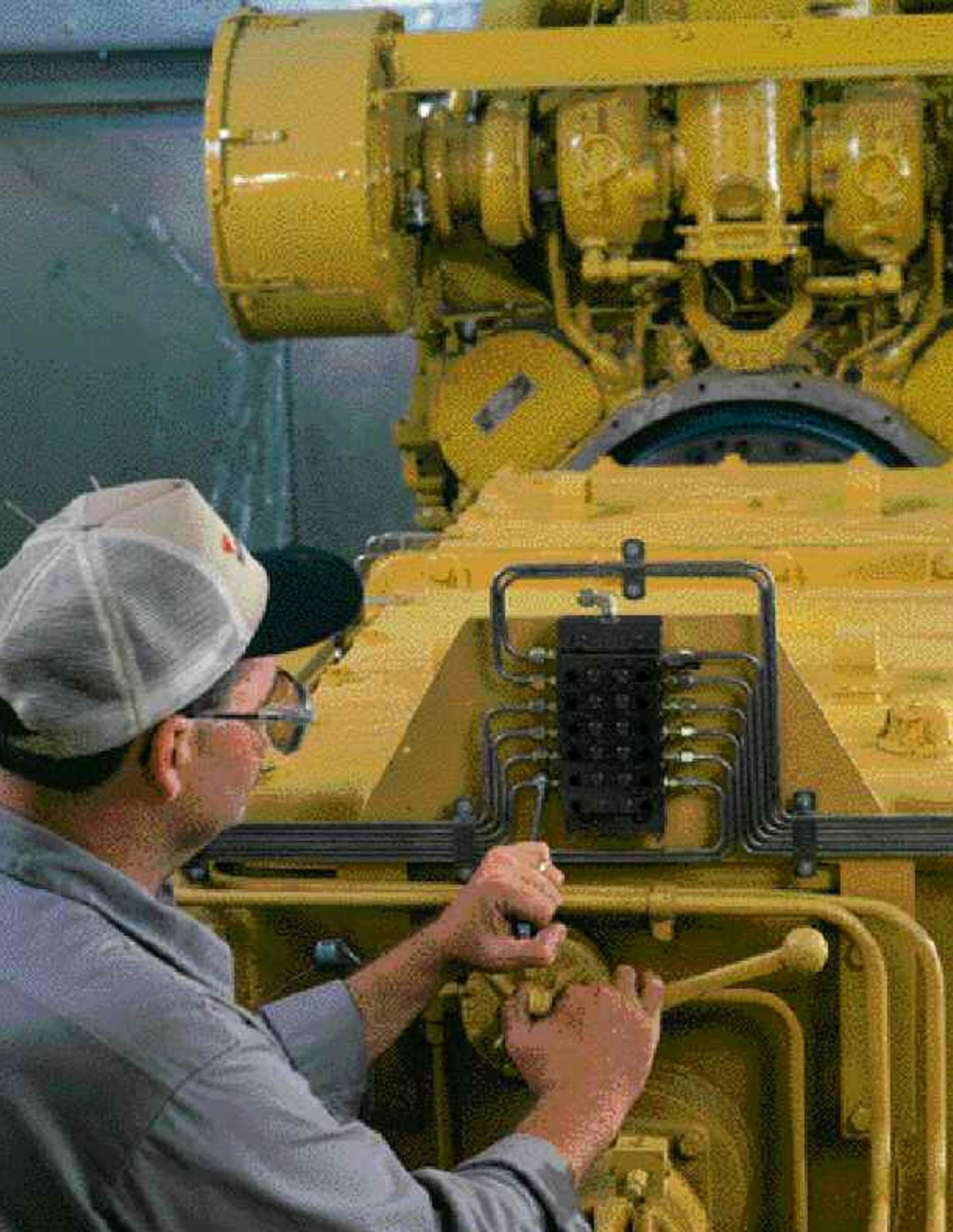
### **Petroleum Equipment Service Distributors**

Petroleum Equipment Service Distributors (PESDs) provide for the needs of automotive service professionals and shop managers in the United States and other countries. They specialize in working with car dealers and large fleet operations providing full design and installation services.

### **Automotive and Industrial Aftermarket**

Large, national retailers, farm supply centers, locally owned parts stores, national catalog houses and professional tool distributors combine to offer Lincoln lubrication equipment in thousands of locations across the United States and around the world.





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