

AUTOMOTIVE

perma lubrication systems in operation



The Expert in Lubrication Solutions

perma

Challenges

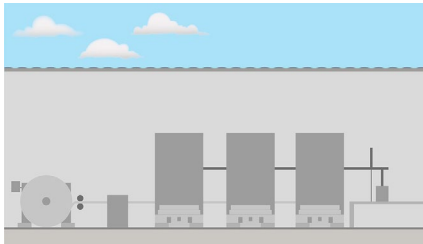
Strict quality requirements and maximum equipment availability are decisive success factors in the automotive industry. Perma lubrication systems and a wide selection of high-grade lubricants ensure optimum lubrication of equipment and machines.

- Hard-to-reach and dangerous lubrication points
- Extreme operating conditions (temperature changes, contamination)
- Various requirements and varying machine elements under high pressure
- Scheduling processes | maintenance
- Monitoring of lubrication systems
- Precise relubrication during ongoing production



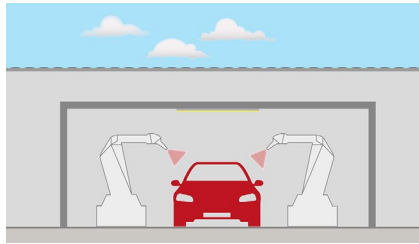
Lubrication points

1 | PRESS SHOP & CAR BODY CONSTRUCTION



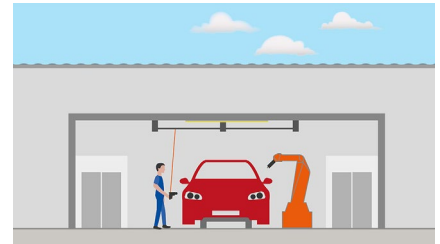
- **Presses**
Flat and round guides
- **Welding, screw fastening, bonding**
Guides, robot systems, electric motors
- **Transporting**
Chain conveyors, conveyor belts, paternosters

2 | PAINT FINISHING SYSTEMS



- **Lacquer finishes**
Blowers & fans, electric motors, robots
- **Transporting**
Chain conveyors, belt conveyors

3 | FINAL ASSEMBLY



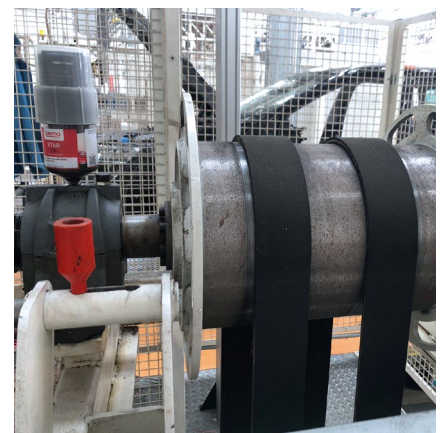
- **Assembling**
Robots, lifting systems
- **Transporting**
Chain conveyors



Lubrication of an electric motor on a press



Lubrication on the scissor lift table



Bearing lubrication of a lifting system

Solutions

The selection of the ideal lubrication solution requires the consideration of various factors, including the specific type of application, operating speed and load of the machine, and the ambient temperature. Below are some proposed solutions:

Remote mounting | e.g. with perma STAR CONTROL

- For lubrication points with strong vibration | shocks (isolation of lubrication system)
- When workers' safety is at risk: Mounting in safe areas
- For hard-to-reach lubrication points

Special system for linear guides and drive | e.g. with perma PRO C LINE

- Different discharge amount can be set for each outlet: Number of pump strokes per discharge
- Number of activated outlets can be selected freely: 1-6
- Individual setting of pause times per outlet
- Maximum pressure build-up 25 bar
- Operating pressure range 15-20 bar, ensuring a long system service life

perma STAR CONTROL



INSTALLATION KIT STAR Standard Duty

1-point
65 mm beam clamp mount
incl. 3 m hose



Linear guide outlet assignment, e.g.:

Outlet 1: Spindle | gear rack (= larger discharge quantity)
Outlet 2: Closed
Outlet 3: Runner block 1
Outlet 4: Runner block 2
Outlet 5: Runner block 3
Outlet 6: Runner block 4

perma SERVICES

You have questions about our products or need assistance with the survey, system installation and maintenance of your equipment? The perma SERVICES team has answers and is happy to assist!



Visit the perma website for an overview of our offerings.



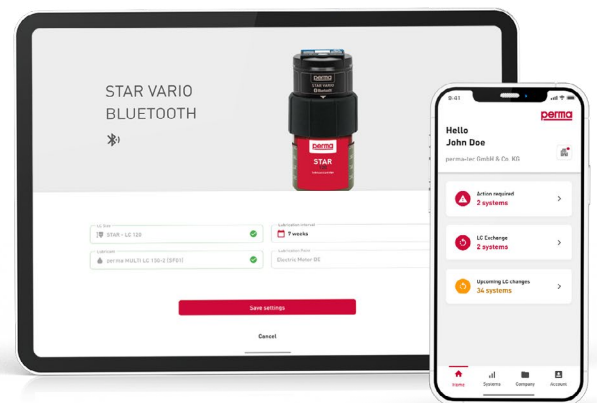
EASY. SMART. CONNECTED.

Create your own network

- Current overview of all lubrication points
- Coordination of upcoming maintenance work
- Reminders for pending exchanges
- Central management of lubrication points in the web application
- Recording of all on site maintenance and exchange tasks via the app

Get perma CONNECT now!

Download the app to your smartphone or open the web application at <https://perma-connect.com>



Find a variety of videos on the perma YouTube channel to get a deeper understanding of the perma CONNECT app.





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