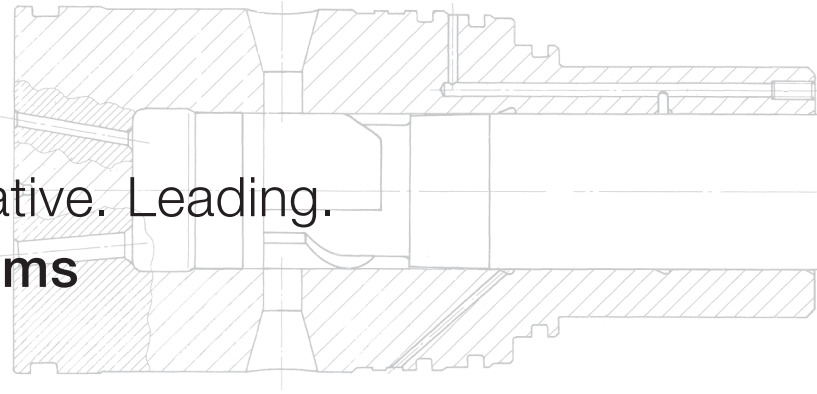


L'Orange – Precise. Innovative. Leading.
Pump-Line-Nozzle Systems



General information

High injection pressures and the suitability for poorest heavy fuel oil qualities are the major requirements of modern fuel injection systems.

Therefore, conventional pump-line-nozzle injection systems have been favored for decades for high-speed off-highway and medium-speed heavy-fuel engines. The main focus is on rugged, durable systems with high injection pressures and the most accurate possible fuel metering.

Due to our long experience in designing and producing pump-line-nozzle injection systems, we are able to provide products specifically made to satisfy our customers' needs.

Description of components

Pumps

- Injection pressure up to 2,000 bar
- High efficiency due to smallest manufacturing tolerances
- Designed for engines from 100 up to 2,000 kW/cylinder
- Injection volume up to 50,000 mm³/injection
- Plungers coated with ultrahard layers to avoid wear and scuffing

Valves

- Cooled and uncooled nozzles
- Housings hardened at over 6,000 bar by autofrettage
- Optimized spray hole configuration for best results regarding emissions and fuel consumption

Spare parts service

A wide range of high-quality components subject to wear, such as pump elements, pump heads and nozzles, as well as sealing kits including shock screws, are available ex stock at L'Orange service or through the global network of authorized L'Orange distributors.

We also offer a special remanufacturing service for several types of conventional injection pumps.

Your benefits

- Superior wear resistance
- Proven reliability with more than 80 years of experience
- Easy maintenance
- Remanufacturing service available
- Technical support throughout system lifetime
- Spare parts service for all components



L'Orange system solutions

Leading in injection technology: yesterday, today and tomorrow. As a pioneer in state-of-the-art injection technology, L'Orange works closely with successful manufacturers of large diesel engines in the off-highway segment worldwide. As a preferred partner, we are continuously setting new standards with regard to quality, durability, fuel consumption and emissions – helping our customers meet the requirements of future emissions legislation. Our service spectrum encompasses the entire range of products in injection technology for all off-highway applications in ship propulsion, special-purpose vehicles and power plants. Our systems supply high and medium-speed engines with a wide variety of fuels and additives. One of our key strengths lies in bringing to life system solutions developed to address our customers' specific requirements.

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