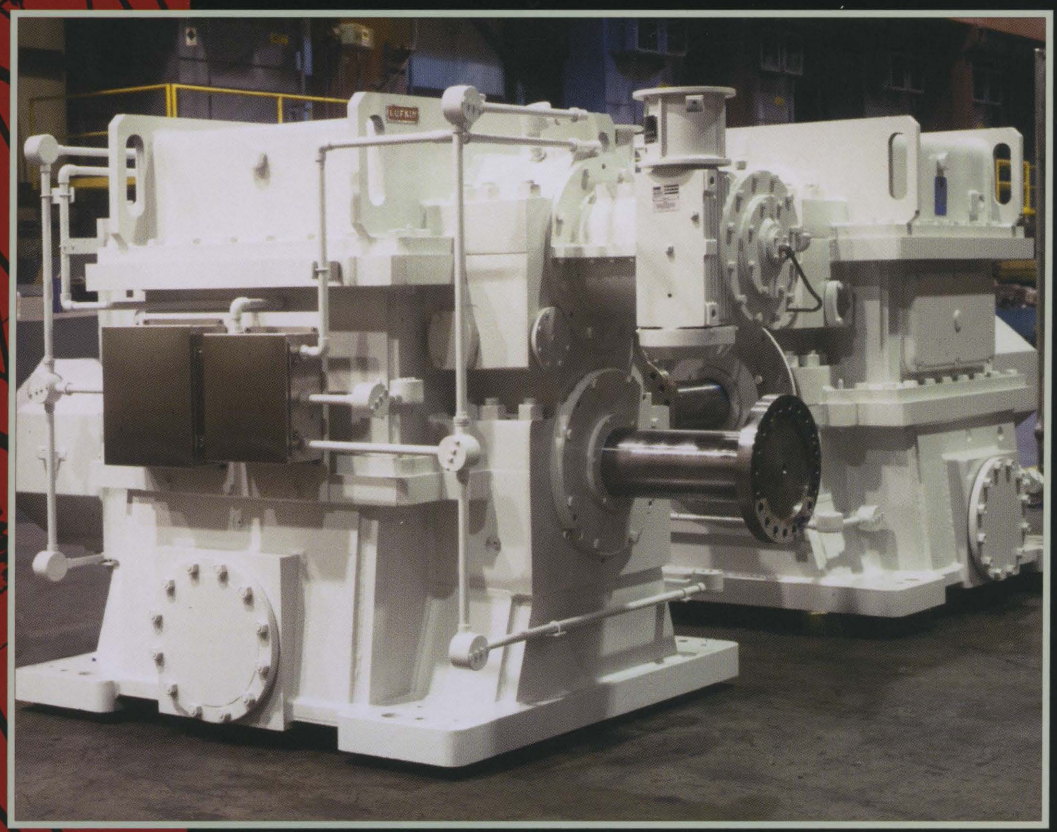
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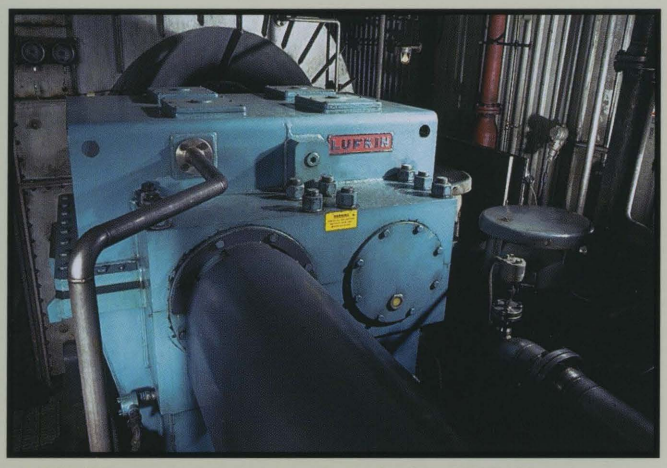
LUFKIN

GEARS

Reliable, Efficient Performance for Power Generation



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A W251B gas turbine driven by a Lufkin 60MW load gear unit.

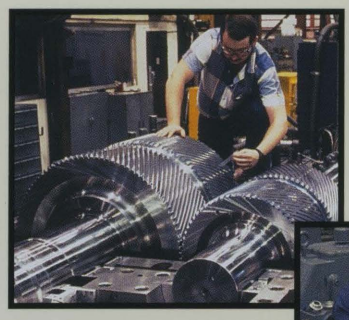
The power generation industry demands products which provide high performance under extreme operating conditions. For over 50 years, Lufkin Industries has been supplying quality performance products to meet a variety of high-power applications. Lufkin recognizes the importance of providing power generation customers with the highest quality gear units possible. Customers rely on Lufkin, a worldwide leader in the design and manufacturing of precision high-speed gear drives.



State-of-the-art 3-D design allows Lufkin engineers to ensure the efficiency required in power generation units, such as this Frame 5 turbine-generator drive.



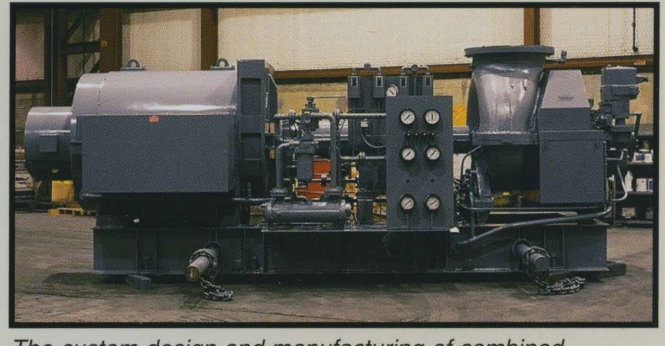
Cover Photo: *Lufkin's Model NFVQ2419C load gear rated at 52MW for the LM6000 gas turbine.*





The highest level of precision is assured in each drive unit through extensive inspection and testing performed in Lufkin's world-renowned performance testing facility.

In an industry where reliability and efficiency are of the utmost importance, Lufkin's dedication to providing the highest level of technology, expertise and service proves invaluable. Quality assurance and proven performance prior to shipment mean that once a Lufkin unit is on site it will provide dependable service and efficient operation to the customer. As a certified ISO 9001 company, Lufkin maintains a steadfast commitment to quality.



The custom design and manufacturing of combined equipment packages, such as this N14 turbine-generator set with baseplate and lubrication system, is a Lufkin specialty.

Lufkin engineers utilize state-of-the-art 3-D design technology to develop reliable high performance products which provide smooth initial start-up and years of trouble-free operation. It is essential that potential problems are eliminated before they occur. Lufkin's design expertise and precision manufacturing capabilities can be utilized to custom design and build gear drives to meet individual customer specifications and applications.

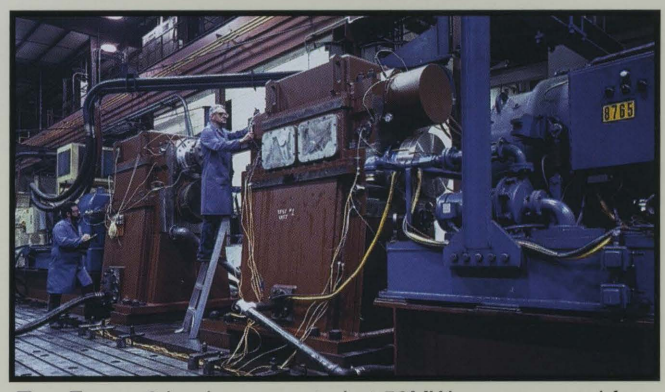
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The mechanical reliability of each gear unit is critical in power generation. Lufkin's vertical integration of the entire production process from design through manufacturing assures that each gear drive is produced to strict quality standards during every phase from project inception to completion. All Lufkin high-speed gear units are manufactured using the highest quality materials. The advanced technology of processes such as carburizing gears and CBN finish grinding of gear teeth enables Lufkin to increase a gear's durability, power capability and level of efficiency.



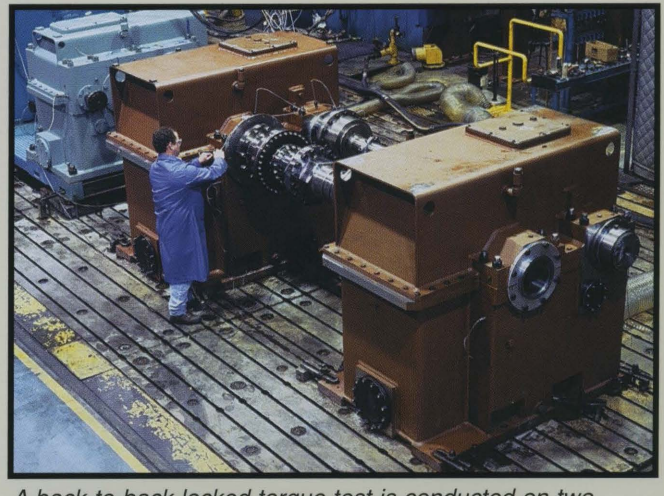
Lufkin's leading edge technology, such as carburizing gears, CBN finish grinding of gear teeth and gear tooth inspection, results in units providing the optimum accuracy and performance required for power generation.

Comprehensive inspection and performance testing are requirements at Lufkin. Prior to shipment each gear drive is thoroughly inspected and tested to ensure compliance with customer specifications and industry standards including the stringent API requirements. Lufkin's full-range performance testing facility is recognized throughout the industry as one of the finest in the world. Virtually any steam or gas turbine drive configuration can be tested from the smallest 1,000kW (1,340HP) to the larger 112MW (150,000HP) units. Numerous types of tests can be conducted by Lufkin including back-to-back full-load testing.



Two Frame 6 load gears, rated at 50MW, are prepared for full-load testing at Lufkin's facility.

Lufkin emphasizes a standard of excellence in technological innovation, design, manufacturing and testing. The power generation industry depends on the quality, performance and reliability of Lufkin high-speed gear units. Exceptional customer service, sales assistance and technical support including field diagnosis are assured at any location at any time through Lufkin's global network of offices.



A back-to-back locked torque test is conducted on two Frame 5 gear drives at the Lufkin testing facility.



Committed to quality, Lufkin thoroughly inspects all gear units prior to shipment.

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Lufkin Industries' worldwide service and sales offices create a network of experienced professionals committed to providing technical support anywhere at any time.

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