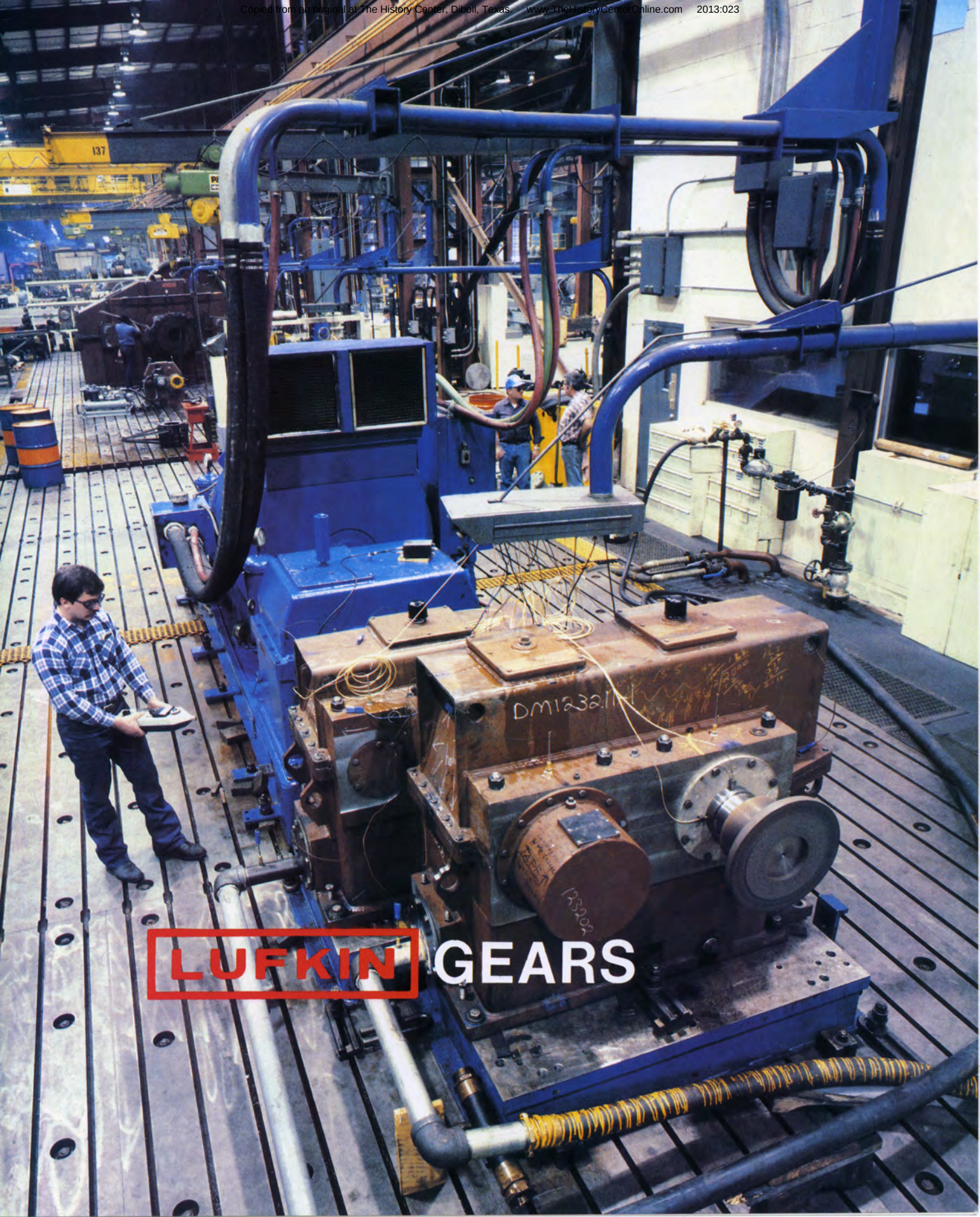
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LUFKIN GEARS

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Wider range of products, shorter deliveries and imp







$7.5 million gear facility, a sign of our commitment to the manufacture of quality gearing.

In our boldest step since we entered the gear market in 1939, we have invested over $7.5 million for expansion and precision manufacturing equipment solely for the manufacture of industrial and marine gearing.

We're committed to the manufacture of fine quality gear products at Lufkin Industries. With this expansion, we've widened our range of gear products and improved our service to gear customers.

As a result of the $5 million in new gear manufacturing equipment installed in this new facility, delivery times have been shortened and production schedules for LUFKIN gears are more accurate.

To ensure consistent, accurate production, this new 57,600-square-foot gear facility is completely temperature controlled and special vibration isolation foundations were installed under high accuracy machines.

(Top left) A final check of tooth contact is made on all LUFKIN gears prior to final assembly.
(Top right) Hoefler precision gear grinding equipment allows LUFKIN to cover markets requiring high precision, lighter weight gear drives with case hardened and ground gearing.
(Left) LUFKIN's testing facility can perform the most complicated high-speed precision gear tests and document all performance to meet API, AGMA or customer specifications.

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LUFKIN

ıproved quality result of $7.5 million gear expansion

High speed machine tools improve productivity and quality of LUFKIN gears.

We've cut production time on most gears with new machines like the special accuracy 120-inch Pfauter gear hobbing machine which cuts hobbing time on large gears.

Other new machines were: A 36-inch and two 60-inch Sykes gear generators, a numerically-controlled (NC) open-side drill for housings, a horizontal NC machining center for assembled housings, a two-axis NC shaft lathe and a Hoefler combination gear checker.

Conservatively designed LUFKIN gears for applications up to 30,000 HP.

LUFKIN engineers conservatively design all gear components to meet or exceed AGMA standards or customer applications, such as API 613 Second Edition specifications.

We produce precision gear elements from heat treated high tensile alloy steel bar or forgings, ductile iron, or forged alloy rims on cast iron or steel centers.

Housings, of controlled specification gray iron or fabricated steel, are generously sized to maintain perfect gear alignment under extreme operating conditions and stress relieved before machining.

Bearings are sized for maximum service life and gear elements balanced and lapped together for quiet, trouble-free service.

Precision case hardened and ground gearing for special applications.

Hoefler grinding equipment allows LUFKIN to produce lighter case hardened and ground gearing of single or double helical design, from 3 to 60 inches in diameter.

Gear testing facility eliminates start-up problems for LUFKIN customers.

To assure customers that gearing will perform to their specifications, gear units are operated at full speed to monitor oil and bearing temperatures, shaft vibration and noise levels. At the customer's request, units can be tested under load.



(Right) Production time for large gears, such as these, was shortened by the purchase of the 120-inch Pfauter gear hobbing machine. The machine cuts hobbing time by means of a high speed roughing operation with a carbide gashing tool followed by a special accuracy finish hobbing.

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(Top left) High Speed, Type N and NM, gear reducers and Types S, M, MH and D, Slow Speed reducers, meet a wide range of industrial applications from conveyor drives to high speed compressor drives rated for 13,000 RPM and 30,000 HP.
(Top right) We offer a standard line of reliable Marine gear drives from 500 to 4,000 HP service, with special designed units rated for applications up to 10,000 HP.
(Bottom left) LUFKIN Extruders for the plastics and chemical industries are available in vertical or horizontal offset and fixed or change gear models.
(Bottom right) LUFKIN Double and Triple Reduction speed reducers, commonly used in sugar, rubber or steel industry applications, are conservatively rated for up to 20,000 HP service.
(Front cover) At the heart of LUFKIN's test stand facility is an 800 HP d.c. motor with an SCR control driving both a single and two-stage gear unit for a range of output speeds from 40 to 21,500 RPM.

LUFKIN

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