

# Low-speed gearboxes

High-performance Lufkin Gears and Allen Gears for unmatched reliability and efficiency

- Engineered-to-order solutions, optimized for exceptional reliability and long life
- Robust designs with rigid case construction for durability in demanding applications
- Purpose-built to exacting customer specifications and industry standards
- Multiple input and output shafts and accessories are available
- Single and double helical gearing using carburized, through-hardened, and nitrided teeth with precision-ground finishing
- Conservatively sized anti-friction or journal bearings for longevity
- Integrated lubrication and instrumentation monitoring systems
- Drawing on decades of engineering expertise, innovation, and support
- Manufacturing and service support in North America and Europe



**Ask us for a better solution**

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## Rubber and plastics

- Tire production: speed reducers for batch mixers and mills
- Custom applications: extruders, calendars, and roll mills

## Sugar

- 50+ years supplying multi-stage speed reducers
- Many of our mill drives and cane knives still in operation after a half century of service
- Customized solutions, including multi-stage parallel shaft and planetary gears for mills, and cane diffusers for any sugar production needs

## Pumps

- Low-speed gearboxes for centrifugal, dredge, booster, and positive displacement applications in oil, gas, and industrial plants worldwide
- Optimized solutions for each project's unique requirements

## Iron and steel

- Used worldwide on hoisting equipment, rolling mills, and winders
- Thousands of units in our installed base
- Specialized upgrading of existing gears to increase throughput and reliability

## Cement and asphalt

- The most reliable and robust equipment for applications such as mills, grinders, presses, conveyor drives, and kiln drives
- Parallel shaft and planetary configurations
- Single stage or multiple stages

## Mining and aggregate

- Proven solutions for crushers, pumps, slew drives, bucket wheels, blendomat, conveyor drives, and many more applications
- Available in horizontal or vertical parallel shaft, angular shaft, or planetary configurations
- Custom accessories and monitoring equipment to meet every need

## Plastics and polymer processing

- Extruders and mixers
- Single or twin output shafts
- Co-rotating or counter-rotating

## Hydro power

- Lufkin Gears parallel-shaft increasers used for vertical, pit, or KAPLAN turbine applications
- Allen Gears epicyclic products power some of the largest geared hydro plants in the world

## Oil drilling

- Single-speed and multi-speed power swivel gearboxes
- The industry standard for reliable performance in oil extraction

## Test stands

- Used by customers worldwide to prove performance, increase production, and develop new technology
- Custom testing for civil and military aerospace, electric motors/engines, pumps, generators
- Proven experience: more than 400 successful test bench applications

## Nuclear

- Over 500 references and installations of Lufkin Gears and Allen Gears
- Decades of proven performance and reliability in reactor building, auxiliary building, cooling systems, and hoisting equipment worldwide

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