

PRODUCTION

# PUMPING UNIT GEAR-REDUCER SERVICES

Expert repair and replacement  
of all pumping-unit bearing  
assemblies, from any manufacturer



Weatherford®

# Unmatched inventory, expertise, and innovation

from the oldest and largest pumping-unit  
services company

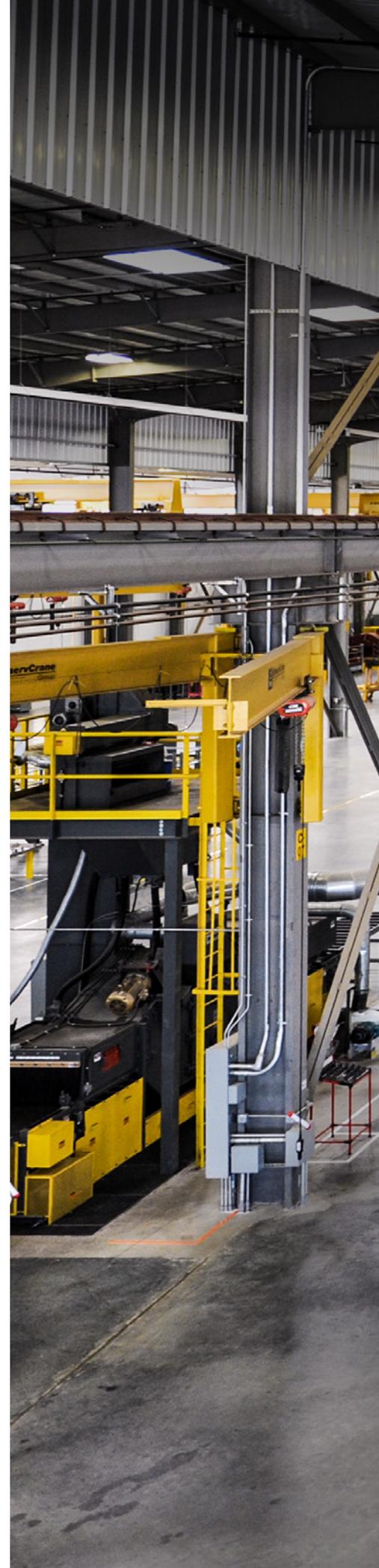
In today's oilfield environment, tougher economics demand an even stronger focus on efficient, optimized production. So now more than ever, producers strive to maximize equipment longevity, minimize downtime, and extend the productive life of the well. Especially in older rod-lifted wells, damaged or worn-out gear reducers can cause significant delays in production.

And when it comes to getting them serviced and repaired, hard-to-source parts and limited service-provider capabilities can create logistical difficulties. But with Weatherford Pumping Unit Services on the job, you don't have to settle for the typical downtime and delays. In fact, we often can get you back up and running with a single trip to your wellsite.

## The most comprehensive service and toughest replacement gears in the industry

Weatherford has built a strong reputation as a reliable, cost-effective supplier of replacement gear-reducer components since 1957. We provide a full line of precision-engineered gears, pinions, and shafts for all makes and models. We offer original equipment manufacturer (OEM) and OEM-equivalent (OEME) bearings—custom-designed for your specific requirements—not only in complete assemblies but also as individual components and finished housings. Even for hard-to-get reducer gears and parts that the original manufacturer no longer supports, we deliver quick turnaround, quality service, and competitive pricing.

Our best-in-class control procedures, from quantifiable material-procurement specifications through final assembly, provide you with end products of uncompromising quality. Our API gear-cutting facilities are equipped with the most advanced cutting machinery, operated by skilled technicians. Every gear pinion and shaft is thoroughly examined during each stage of manufacturing, and each casting is precisely machined and closely inspected. The result is an unsurpassed level of quality, durability, and value for operators across the globe.





# From the fabrication facility to the field,

only Weatherford delivers such an extensive offering of gear equipment and services.

- World's largest inventory of major pumping-unit gears, pinions, and shafts
- Competitive pricing on industry-leading products and services
- Quick response to pricing and availability inquiries
- Stock on hand for faster delivery times
  - Single-trip, on-site parts replacement in many cases
- Aftermarket double-circular arc (DCA) helical gears and pinions for some non-US reducers
- Gears cut at API-licensed facility
- Turnkey reducer repair for quick turnaround and reduced downtime
  - Disassembly in field
  - In-shop manufacturing and repair
  - Reassembly and setup on site

## Reducer gears and pinions

Weatherford OEM and OEME reducer gears, pinions, and shafts are meticulously fabricated in our facilities for reducer sizes 6.4 through 1824. All of our herringbone, double-helical, and helical gears are designed to exceed API Specification 11E and are backed by the Q 1 quality-assurance program.

For gears, pinions, and shafts no longer offered by the original manufacturers, including those from pre-API reducers produced prior to API specifications, we provide fast price-on-application evaluation, quality service every step of the way, and quick turnaround. Each Weatherford gear is carefully inspected to provide and ensure that the end product that meets our unwavering standards. All gear blanks are made to API 11E Standard with heat-treated, high-alloy, high-tensile-strength steel. Gears and pinions are lapped to provide smooth and quiet operation.

## Double-helical, involute gears and pinions

Heat-treated 42CrMo alloy-steel pinions and ductile iron gears, machined to exact tolerances, provide exceptional strength, optimal fit, and high efficiency.

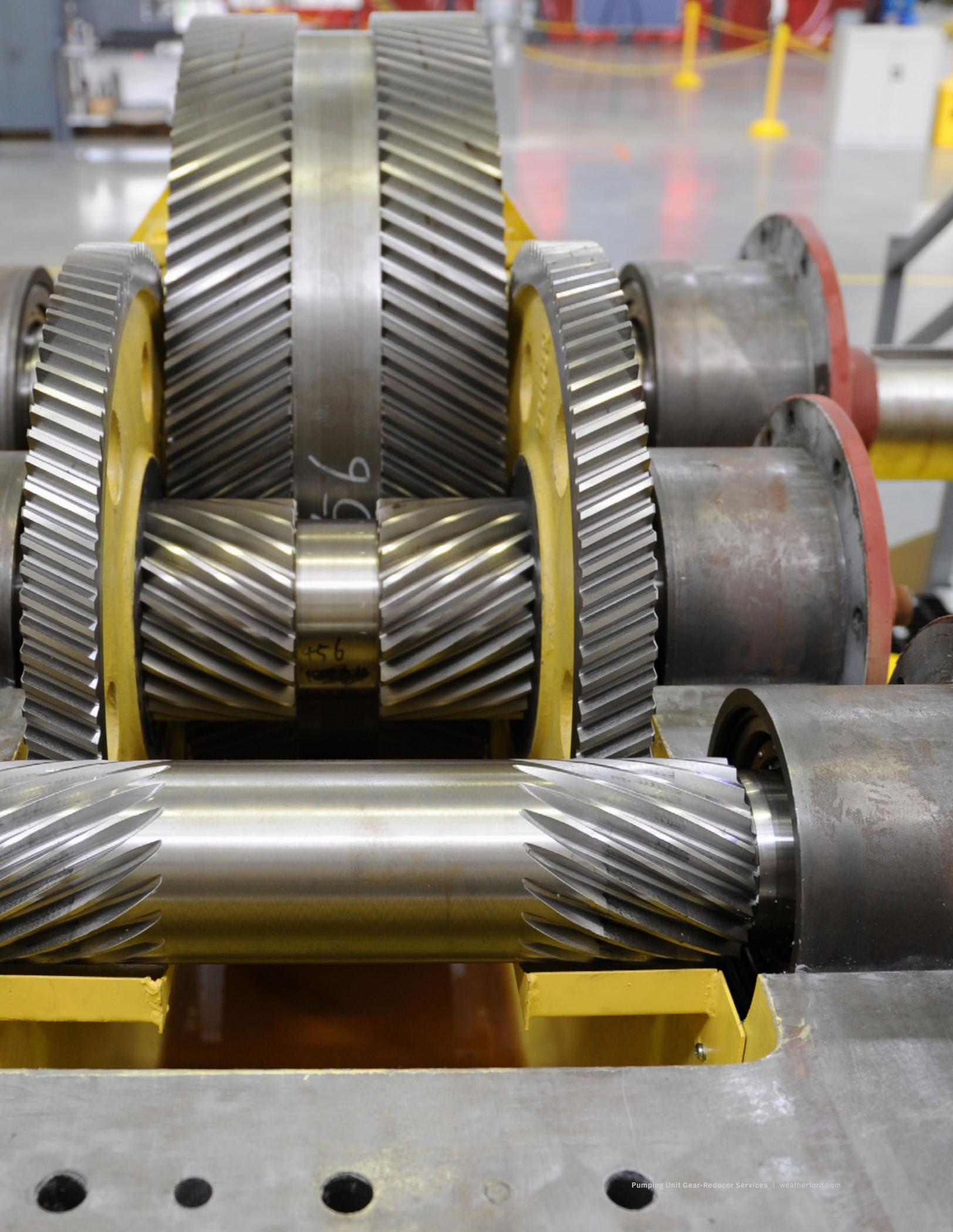
## Helical gears and pinions

All Weatherford helical gears are created using the hobbing process. This ensures a symmetrical design with evenly deflected gear teeth, which equalizes the torque load and reduces unbalanced strain on the gear case. Helical gears are available in up to 63-in. OD, with a 20-in. face. Our helical pinions are cut integral with the shaft and are manufactured for additional hardness, using special high-alloy, high-tensile-strength, heat-treated steel for additional hardness.

## Herringbone gears and pinions

Created using the Sykes cutting process, all of our herringbone gears are made from high-carbon, heat-treated, and hardened steel. These high-quality raw materials, combined with tooth profiles cut to exact tolerances, assure quiet, dependable performance. Herringbone gears are available in up to 65-in. OD, with a 20-in. face. For high tensile strength and maximum durability, our herringbone pinions and shafts are manufactured from special high-alloy, 4145 heat-treated, stress-relieved steel. Pinion tooth profiles are cut integral with the shaft. All shafts are made from special alloy steel, heat treated for strength and long life.





## Gear reducer repair

Throughout the industry and across the globe, Weatherford Pumping Unit Services is known for delivering quick, efficient service with strict attention to detail. From disassembly in the field, to in-shop repairs, to reassembly and setup in the field, we offer turnkey restoration for all models of pumping-unit gear reducers.

With up to 600-ton horizontal wheel presses at strategic repair facilities, we are expertly equipped to recondition even the largest gear reducers with Weatherford gears, pinions, and shafts. After repair, each reducer is performance tested at our facility for reliable to ensure oiling function and smooth, trouble-free operation.

Some minor repairs, such as replacing high-speed pinions and bearing replacement, can be done in field. And in some cases, to get your pumping unit back up and running in a single day, we can exchange your crated equipment with a fully reconditioned reducer of the same make and size. If the reducer is beyond repair, requires obsolete parts, or is of a foreign model for which OEM gears are not available, we can retrofit a Weatherford or other brand reducer to your pumping unit with a reducer from Weatherford or another supplier.

## Our full-service offerings also include

- Roller-bearing replacement
- Flush and oil-change service
- Oiling-system repair and replacement
- High-speed oilers for units that will not lubricate bearings at lower SPMS
- Brake repairs with OEM and OEME parts
- Retrofits with Weatherford brake assemblies when obsolete brake parts are not available

From start to finish, down to the last detail, for large jobs and small, you can trust Weatherford Pumping Unit Services to keep your gears turning and your production flowing.







## UNMATCHED INVENTORY, EXPERTISE, AND INNOVATION FROM THE OLDEST AND LARGEST PUMPING-UNIT SERVICES COMPANY

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Weatherford Pumping Unit Services is committed to providing quick turnaround, quality service, and competitive pricing for all makes and models of pumping-unit bearing components and assemblies. For more information about how our comprehensive offerings can help keep your operation up and running, contact your authorized Weatherford representative at [weatherford.com](http://weatherford.com).

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