



Gearing Solutions

The increased uptime that comes with quality

GE's custom-engineered, high-performance gearing solutions help you solve your most complex mechanical power transmission challenges. [GE product portfolio](#) includes the technology and expertise of Lufkin Power Transmission and Allen Gears; gearing specialists the industry has relied on for more than 60 years. Our gearing technology can increase your equipment's uptime and efficiency, powering greater possibilities for your business.

As power and speed requirements have increased, we have continued to grow our comprehensive portfolio of high-quality gearing solutions to tackle a broad range of power transmission gearbox applications around the world.

GE's gearing solutions deliver excellent performance and high reliability through:

- **Exceptional quality.** By drawing on deep technical knowledge, a continually growing experience base, and world-class engineering

and manufacturing practices, GE delivers innovative, technology-driven gearing solutions that adhere to strict quality standards.

- **Standards compliance.** We maintain a consistent standard of excellence throughout every phase of product development and production. Prior to shipment, each gear drive is thoroughly inspected and tested to help ensure compliance with your specifications and with industry standards, including API, AGMA, ISO, and DIN.
- **Customization capability.** Our experts work with you to analyze your options, help make tough decisions, and co-create tailored solutions that are just what your assets and operations require.
- **Knowledge sharing.** As an extension of your team, we are committed to keeping you equipped with the latest information about gear maintenance and engineering, so you can continue to experience excellent performance and less downtime.

Applications

	Cement	Mining	Rubber/Tire	Plastics	Metals (Aluminum, Steel)	Sugar
Industries						
Equipment						
Gearbox Applications	Pulverizers Grinding – Ball Mills, High Pressure Grinder Kiln Drives	Crushing-Pulverizers Grinding – Ball Mills, SAG Mills Kiln Drives	Calendars, Mills, Mixers, Pin Barrel Extruders	Mixers Melt Pumps Extruders/Pellitizers	Rolling Mills, Winders/ Rewinders, Z Mills,	Cane Knife, Crushers, Mills, Diffusers
Types of Gearboxes	Single, double, triple stage parallel shaft Epicyclic gears Split torque gears	Single, double, triple stage parallel shaft Epicyclic gears	Single, double, triple stage parallel shaft multiple output shafts	Single, double, triple stage parallel shaft multiple output shafts	Single, double, triple stage parallel shaft multiple output shafts Epicyclic gears	Single, double, triple, and quad stage parallel shaft Epicyclic gears Split torque gears
Power	300 kW to 3000 kW	300 kW to 3000 kW	300 kW to 3000 kW	300 kW to 3000 kW	300 kW to 5000 kW	500 kW to 2000 kW
Ratio	3:1 to 100:1	3:1 to 100:1	3:1 to 100:1	3:1 to 100:1	1:1 to 100:1	3:1 to 250:1
Input Speed	750-1800 RPM	750-1800 RPM	750-1800 RPM	750-1800 RPM	750-1800 RPM	750-1800 RPM
Output Speed	20-100 RPM	20-100 RPM	20-100 RPM	20-100 RPM	20-700 RPM	5-500 RPM
Torque, SI	40kN-m to 600kN-M	40kN-m to 600kN-M	40kN-m to 600kN-M	40kN-m to 600kN-M	10kN-m to 1,000kN-M	500kN-m to 3,600kN-M
Torque, US	30,000 to 450,000 ft-lb	30,000 to 450,000 ft-lb	30,000 to 450,000 ft-lb	30,000 to 450,000 ft-lb	7,000-750,000 ft-lb	350,000-2,700,000 ft-lb
Weight	5 – 40 ton	5 – 40 ton	5 – 40 ton	5 – 40 ton	3 – 60 ton	3 – 60 ton

	Marine – Blue Water Medium and High Speed Diesels Steam & Gas Turbine, & Elec. Motor Drives	Marine – Brown Water Medium and Low Speed Diesels, and Electric Motor Drives	LNG, Refining, Chemical Petrochemical	Air Separation	Power Gen	HydroPower
Industries						
Equipment						
Gearbox Applications	Large Yachts, High Speed Ferries, Offshore Supply Vessels, Military Marine, Offshore Patrol Craft, Articulating Tug Barges (ATB), Ship Assist Tugs	Workboats/ Pushboats, Tugs, Ferries, Military Marine	Compressors, Pumps, Fans, Blowers, Expanders	Compressors, Expanders	Steam/Gas Turbine Generators Diesel Generators Expanders Pumps, FD/ID Fans	Hydroturbine Generators
Types of Gearboxes	Single, two stage, and compound gears for fixed pitch and controllable pitch wheels, Parallel shaft and epicyclic gears	Single, two stage, and compound gears for fixed pitch and controllable pitch wheels, Parallel shaft and epicyclic gears	Single, double stage Parallel shaft gears Epicyclic gears	Single, double stage Parallel shaft gears Epicyclic gears	Single, double stage Parallel shaft gears Epicyclic gears	Single, double stage Parallel shaft gears Epicyclic gears
Power	1000 kW to 30 MW	1000 kW to 15 MW	500 kW-60 MW	500 kW-60 MW	500 kW-100 MW	300 kW to 20 MW
Ratio	2:1 to 15:1	2:1 to 12:1	1.2:1 to 20.0:1	1.2:1 to 20.0:1	1.2:1 to 10.0:1	3:1 to 10:1
Input Speed	500-3600 RPM	500-1800 RPM	900-35000 RPM	900-35000 RPM	900-35000 RPM	100-300 RPM
Output Speed	100-500 RPM	100-300 RPM	1000-25000 RPM	1000-3600 RPM	1000-3600 RPM	900-1800 RPM
Torque, SI	40kN-m to 1300kN-M	40kN-m to 1300kN-M	5kN-m to 200kN-M	5kN-m to 200kN-M	5kN-m to 350kN-M	10kN-m to 1,000kN-M
Torque, US	30,000 to 1,000,000 ft-lb	30,000 to 1,000,000 ft-lb	3,500-150,000 ft-lb	3,500-150,000 ft-lb	3,500-260,000 ft-lb	7,000-750,000 ft-lb
Weight	3 – 50 ton	3 – 40 ton	2 – 30 ton	2 – 30 ton	2 – 30 ton	2 – 40 ton

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