



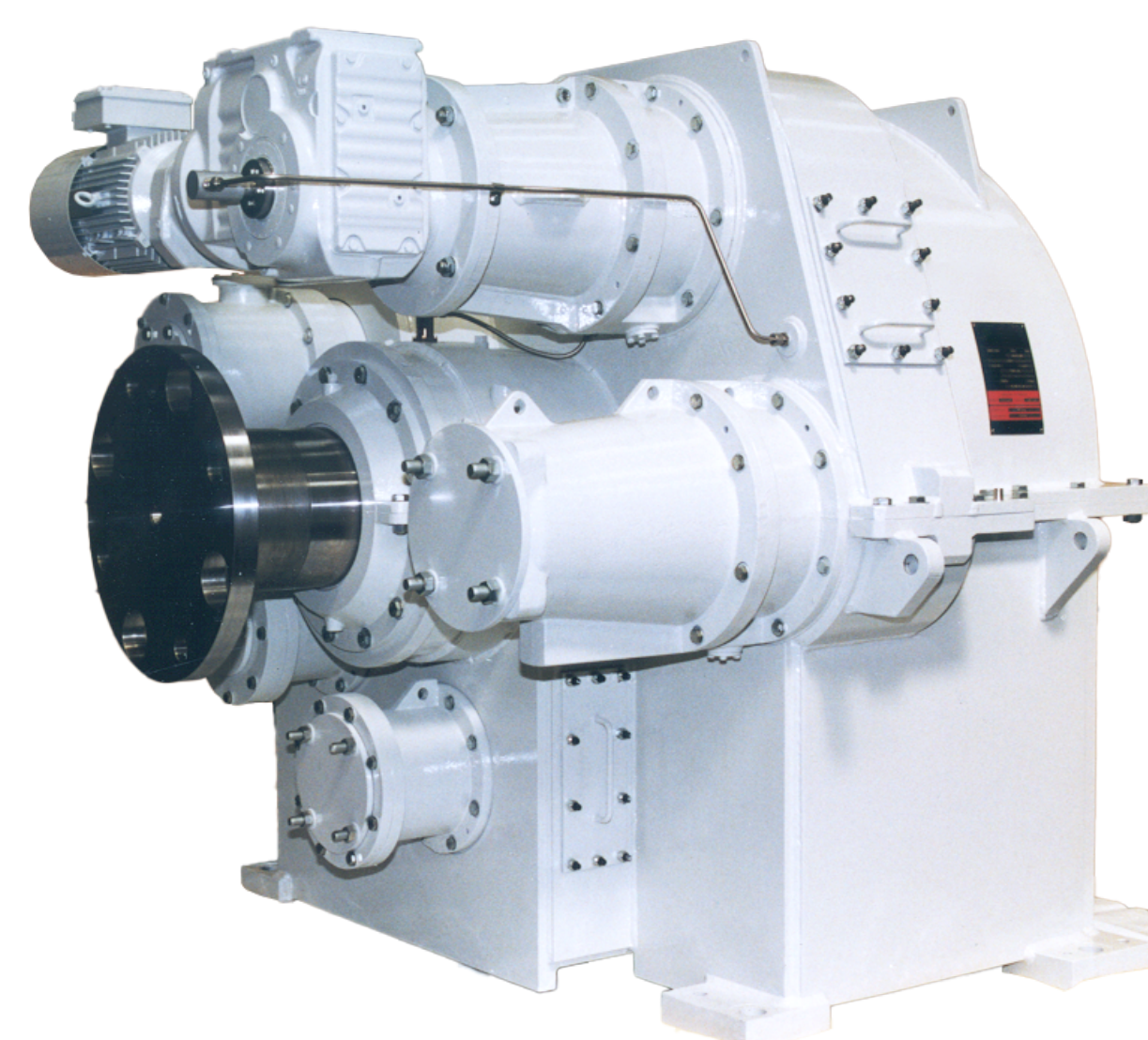
Allen Gears

a Baker Hughes business

High-speed epicyclic gearboxes

High-performance Allen Gears for
unmatched reliability and efficiency

- High-accuracy gears with non-contact bearings designed for over 100,000 hours of continuous operation
- Load-sharing epicyclic systems split torque to several paths, reducing load on individual gear elements, thereby reducing size
- Configured in three principal arrangements to allow different ratio, torque transmission, and shaft rotation characteristics
- Power between 0.5 MW and 37 MW, transmitted torques up to 4.35 mNm, and operating at speeds from 20 to 40,000 rpm
- Patented technology that improves efficiency, size, reliability, weight, and cost
- Purpose-built to exacting customer specifications and ISO/AGMA/API standards
- Proven outstanding reliability with highest efficiency



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Overview

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Gas and steam turbine gearboxes for power generation

- Generator-mounted gearboxes
- Turbine-mounted gearboxes
- Lubrication pump, fuel pump, etc., power take-off (PTO) drives
- Starter-drive, power take-ins (PTIs)
- Integrated barring drive gear
- Instrumentation packages for condition monitoring
- Integrated lubrication systems

Vertical epicyclic gearboxes for cooling-water pumps

- Gear units designed to suit motor and pump interfaces
- Gearcase can be designed to support weight of drive motor
- Reduced overall package size
- Coaxial drive train (motor, gearbox, pump)
- 99% mechanical efficiency
- Self-contained full-duty lubrication system
- Reduced noise and vibration
- Transfers thrust or accepts external thrust via integral thrust bearing
- Eliminates the need for a low-speed coupling

Hydro turbine gearboxes for power generation

- High efficiency of typically 99% translates directly into additional revenue
- Co-axial arrangement reduces overall size
- Compact, smaller, and lighter than alternatives; reduces overall system size
- Lower pitch-line velocity produces less noise
- Horizontal and vertical arrangements
- Multiple stage solutions for high-ratio speed increasers

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