POWER TRANSMISSION BUSINESS

Market: Overview

Global Industrial Gears Industry Overview[1]

The global industrial gearbox market, which was estimated to be around USD 30.6 billion in 2024, is set to soar to USD 47.5 billion by 2034, growing at a 4.6% CAGR. The demand for gears is driven by infrastructure investments and increasing efficiency requirements, resulting in the demand for more energy-efficient gearboxes.

Indian Industrial Gears Industry Overview[2]

India's industrial gearbox market, valued at USD 1.02 billion in FY 25, is projected to grow at a 6.24% CAGR, reaching USD 1.09 billion by FY 26.

Key growth drivers include:

- **Infrastructure:** Investments in Steel, Cement, Refineries, Petrochemicals, Power and Ethanol, etc.
- **Aftermarket:** Increasing demand for refurbishments and efficiency upgrades.

Triveni Power Transmission Business: Overview

Key highlights FY 25

₹ 475.4 Crore
Order booking

₹ 369.9 Crore
Revenue

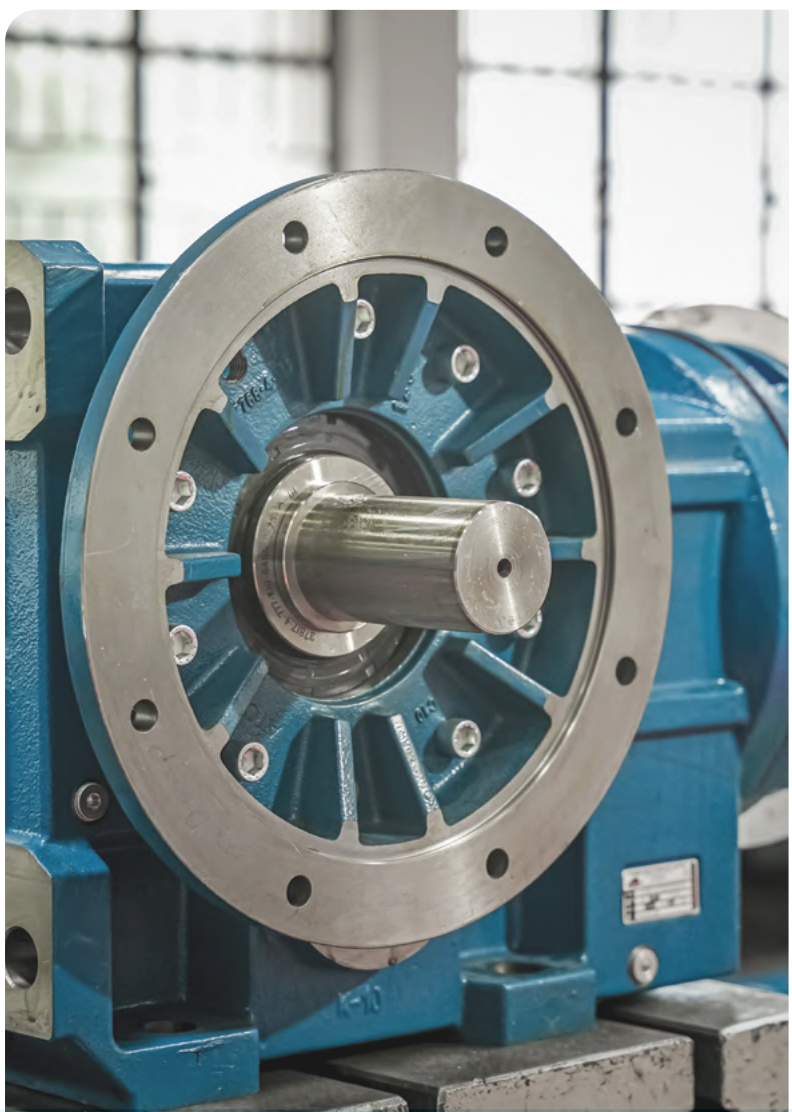
₹ 126.8 Crore
PBIT

₹ 389.4 Crore
Closing order book

Since 1976, Triveni Power Transmission Business (PTB), a division of Triveni Engineering and Industries Limited, has been redefining excellence in high-speed gear solutions. PTB serves over 90 countries from its cutting-edge Mysuru facility, delivering API and AGMA-compliant gearboxes for oil and gas, petrochemicals, steel, cement, sugar, fertilisers, thermal, hydro, paper, and chemicals. With 12,500+ high-speed gearbox installations and a world-class fully integrated facility with advanced multi-axis CNC machinery, Triveni PTB has successfully made a place for itself among the high speed gear manufacturers globally. It is now poised to expand its international footprint.

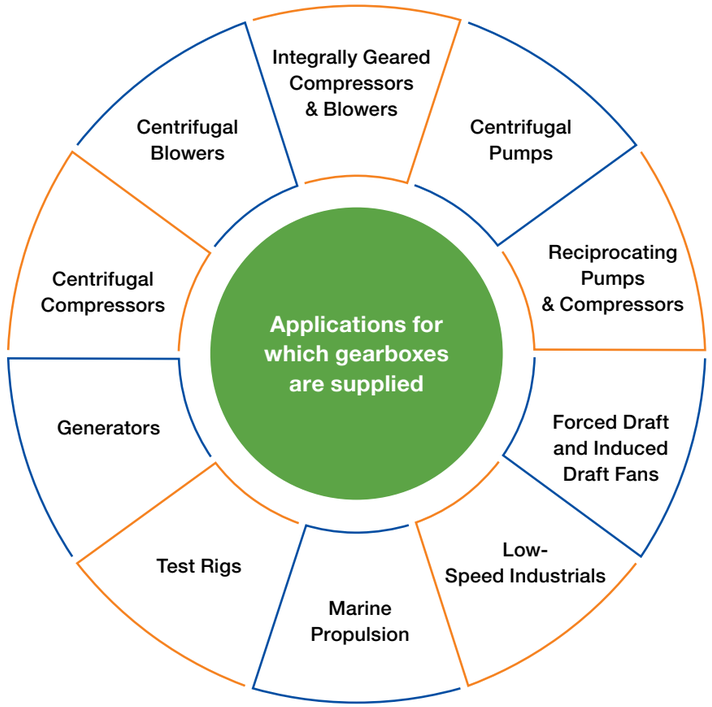
PTB's core segments include:

- **OEM:** Supplies global OEMs with high-speed gearboxes for turbines, compressors, pumps, and fans, designed for extreme conditions (hazardous/sub-zero temperatures and marine environment).
- **Aftermarket:** Has replaced 1,400+ gearboxes from 90+ global brands, offering diagnostics, overhauls, upgrades, and eco-friendly refurbishments for maximum uptime.
- **Built-to-Print:** Designs high-precision gears for select global clients, ensuring recurring revenues.
- **Defence:** Stands out as a trusted OEM for naval propulsion systems, shafting, fin stabilisers, winches, gas turbine generators, and special application pumps.



[1] *(Source: Global Market Insights, https://www.gminsights.com/industry-analysis/industrial-gearbox-market)*

[2] *(Source: IMARC Group, https://www.imarcgroup.com/india-industrial-gearboxes-market).*



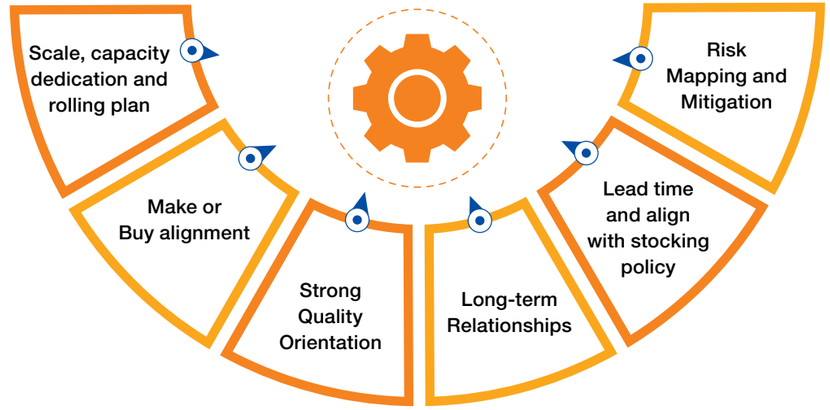
Pillars of our strategic approach:

World-class technology

Automation & Digitalisation

Associations & tie-ups

Cost Management & efficiencies



State-of-the-art Infrastructure

In the power transmission business, Triveni has developed a strong competitive edge by manufacturing quality products aligned to the highest domestic and global standards. Its state-of-the-art manufacturing facilities are equipped with the most advanced world-class multi-axis Computer Numerical Control (CNC) machinery and equipment-handling capacity of 80 tonnes. They are also equipped to support the manufacturing of technologically superior products for the Indian Defence sector.

In FY 25, Triveni's Board announced a Capex, aggregating to ₹ 60 crore, towards expansion of the Power Transmission business. This Capex will enhance the capacity of the gears business alone (not including defence) from ₹ 400 crore to ₹ 700 crore (revenue) by September 2026, and prepare Triveni PTB to meet the anticipated growth in this segment.

Focus on R&D

PTB consistently focusses on R&D, driving energy-efficient, low-noise gearboxes and defence technologies like lightweight marine gearboxes and fin stabiliser systems, in alignment with global sustainability and OEM standards.

- Development of special profile journal bearings, namely offset profile and lemon bore.
- Efficiency improvements:
  - Achieved reduction in power loss in bearings by 10%, thereby increasing gearbox efficiency by 1%.
  - Developed and validated a new shroud design.
- Achieved weight optimisation by 15-18% across models, through Finite Element Analysis.
- Lube oil flow optimisation – achieved 25% reduction by optimising the bearing design.
- Specification for High PLV gear materials – Developed fundamental understanding to arrive at the cleanliness and ultrasonic quality requirements.