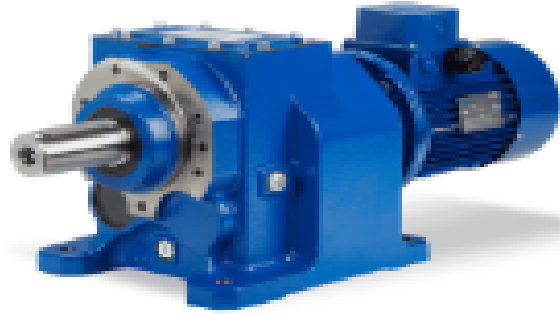


Helical Gearbox



“RMHL Series”

Rotomake Helical Gearboxes are designed for highly efficient and reliable power transmission in industrial machinery. Built with precision-engineered helical gears, these gearboxes offer high torque, smooth and silent operation, and maximum energy efficiency. Rotomake gearboxes are suitable for continuous-duty applications requiring stable performance, long service life, and minimal maintenance.

Manufactured with robust housing, hardened & ground gears, and high-load-bearing capacity, Rotomake Helical Gearboxes are widely used across industries including cement, steel, chemical, power, mining, packaging, conveyors, mixers, and heavy industrial applications.

KEY FEATURES

- High-torque helical gear design
- Low noise and vibration
- Case-hardened and profile-ground gears
- Rugged cast iron / SG iron housing
- High mechanical efficiency (up to 96%)
- Heavy-duty roller and ball bearings
- Oil splash lubrication for continuous duty, Foot, flange, or shaft-mounted models
- Modular design for easy customization, Smooth power transmission with low backlash

TECHNICAL SPECIFICATIONS

Power Range:

- 0.5 HP to 200 HP (custom options available)

Gear Ratios:

- 3:1 to 150:1 (multi-stage)

Output Speed:

- 10 to 500 RPM (depending on ratio)

Output Torque:

- Up to 25,000 Nm (model dependent)

Gear Material:

- Nickel Chromium Alloy Steel, Case hardened (58–62 HRC) & precision ground

Housing Material:

- FG260 Cast Iron
- SG Iron (for heavy-duty applications)

Shafts:

- Hardened alloy steel
- Keyed / hollow shaft available

Bearings:

- Heavy-duty tapered roller bearings
- Designed for high radial & axial loads

Lubrication:

- Oil splash lubrication, Synthetic oil optional

Temperature Range:

- -10°C to +120°C

ADVANTAGES

- High efficiency compared to worm gear units
- Compact and rigid construction
- Long lifespan with minimal wear
- Suitable for heavy industrial duty
- Smooth & quiet operation
- Easy maintenance and serviceability
- Customizable ratios and mounting options

APPLICATIONS

- Conveyors & Material Handling
- Crushers, Mixers & Agitators
- Cement & Steel Plants
- Chemical & Process Industries
- Packaging Machinery
- Textile Machines
- Food Processing Units
- Mining & Quarry Equipment
- Power Plant Equipment

Rotomake Helical Gearboxes are trusted for durability, high torque output, and robust performance, ensuring reliable transmission in demanding applications across various sectors.