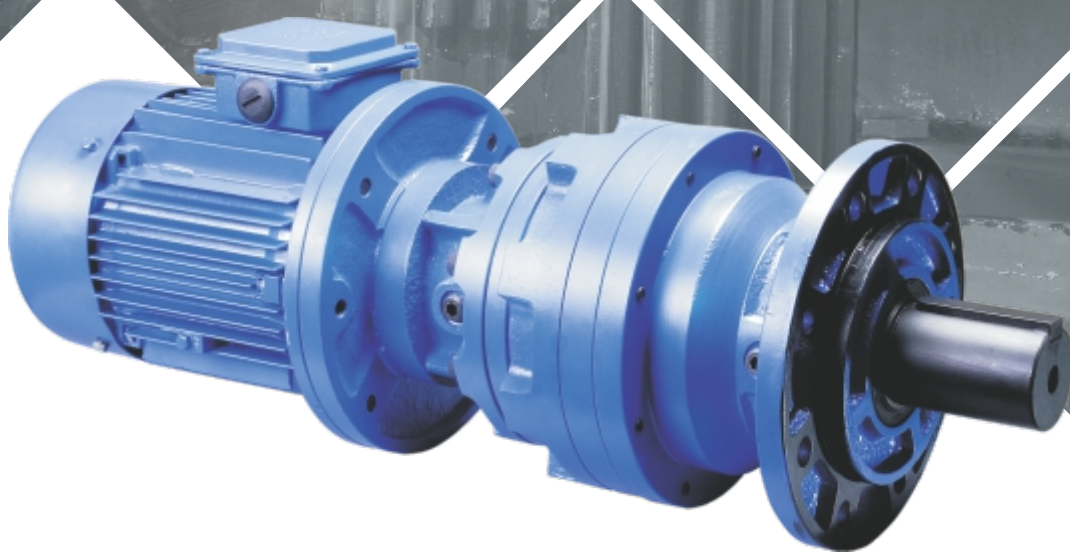
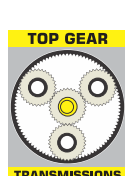




www.topgeartransmission.com



TOP GEAR
TRANSMISSIONS

INTRODUCTION

TOP GEAR is headquartered at Satara (near Mumbai, India) engaged in the field of design and manufacturing of planetary of planetary gear boxes as well as custom built gear boxes for various applications and industries.

We have created a different identity on the global platform with quality centric and innovative products. We also have an international quality management standard ISO 9008 : 2015 with the team of professionals, advanced design software's and state of the art manufacturing and testing facilities, we are trying to deliver our best service & niche products to our customers.

Top Gear has got distinct business growth rate and become a market leader in the transmission sector in India. Constant technological changes and continual R & D efforts & experiments of new materials has created space for distinct application areas.

Top Gear has it's speciality to develop custom built gear boxes and also special application gearboxes. The commitment of every individual in the organization for continual improvement and ultimate goal of customer satisfaction has rewarded Top Gear in India & abroad by number of satisfied customers.

QUALITY POLICY

It is a well established quality policy of TOP GEAR to provide its products and services which comply with the customers with agreed specifications.

We ensure that all employees are trained and developed to understand implement and maintain the quality objectives detailed in the TOP GEAR quality assurance management system and in the achievement of the organizational goals and objectives.

Top Gear is totally committed to the quality assurance management system and it is the responsibility of every individual in the organization to ensure that the task or the operation he or she performs fully meets with the specified requirements before it is passed on to the next stage of business cycle.

VISION

Gearing ourselves to have our footprint globally into emerging sectors that requires motion. To cater the needs requiring power transmission thereby having a technological revolution for well being of society with an aim to accomplish organizational goals with every individual's goal associated with us.

MISSION

To accelerate the world with innovative, reliable and cost-effective transmission solutions. To strive for customer delight on pillars of quality, integrity & teamwork backed up with our best in class Manufacturing & Infrastructure Avenues with an aim to intensify stakeholders value.



OUR ACHIEVEMENTS

- World-Class manufacturing practices & quality
- Cost effective solutions for varied applications
- Manufacturing capacity of 2000 products per month
- ISO 9001 certified
- Indian successful Manufacturer to supply centrifuge gear boxes
- Manufacturing of 1200 kW planetary drive
- Introduced & implemented range of power saving drives to sugar industry for various applications
- Introduced steel plant machinery gear boxes
- Received recognition by various national awards for technology, productivity and quality

CONSTRUCTION

Planetary gear box has got a modular construction and it's every single stage consists of one internal gear meshing with three to five planet gears mounted on the planet carrier. These also mesh with the sun gear maintaining the same direction of rotation. The planet carrier is connected to the output shaft of the gear unit. The design feature employed with the sun gear floating amongst the planet gears together with accurate machining of parts, grants uniform load distribution among the planet gears.

The material used is low carbon nickel chrome and molybdenum alloy steel for gears and high carbon steel for shafts. Casings are made up of graded cast iron or cast steel necessary to withstand the load on the output shaft. Planet gears run on needle bearings while deep groove ball bearings or roller bearings are used on drive shafts.

The gearboxes are either foot mounted or flange mounted. The drive can be given by pulley / sprocket or coupling with the help of a solid shaft. Female shaft and flange type are also available to mount the direct electric motor of flange mounted construction as per IEC standards.

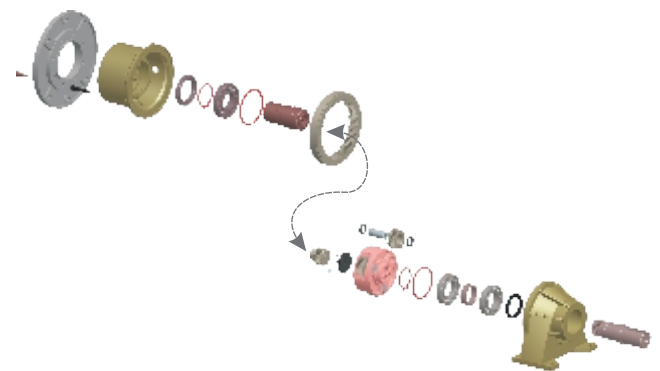
The gear boxes can be offered either bevel or worm planetary combination to have a right angled transmissions wherever orientation and application demands for.

DESIGN PHILOSOPHY

With more than two decades of excellence and customer focused, application oriented design needs with computer aided tools which ensures the state of the art product.

Top Gear's R & D department puts their conceptual ideas to 2D & 3D with the help of latest methods ensures design feasibility & finally again the validation is done with simulation on actual loading conditions.

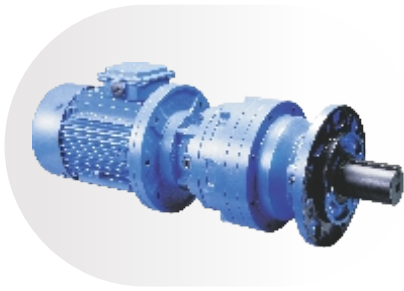
Continual improvement with service feedback helps to upgrade design in all aspects. It helps us to offer a reliable and efficient product to our most prestigious customers to stay ahead in the competition.



Moving ahead on
TRANSMISSION EXCELLENCE



PLANETARY GEARED MOTORS



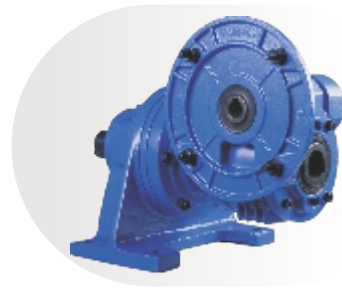
Available in foot & flange type mounting
 Shaft solid, splined, hollow as well as shrink disc type
 Built with squirrel cage induction motor of IEC standard
 Out put speed 0.1 RPM to 400 RPM
 Power 0.17 kW to 30 kW
 Torque capacity up to 1,50,000 Nm

BEVEL PLANETARY DRIVES



Right angle in construction
 Hollow as well as solid output
 Compact in size
 Ratio available from 8 to 100000
 Power 0.17 kW to 50 kW
 Torque capacity up to 1000000 Nm

WORM PLANETARY DRIVES



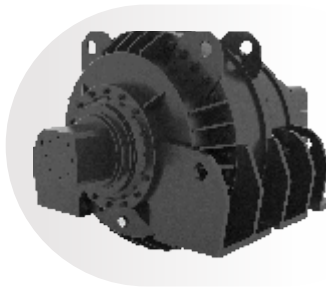
Ninety degree transmission
 Space saving and 4 position orientation
 Silent in operation and irreversible
 Higher reduction ratios 36 to 1,00,000
 Torque capacity 300 Nm to 5,00,000 Nm
 Foot or flange type mounting are available

HEAVY PLANETARY DRIVES



Rigid in construction
 Versatile mounting arrangement
 High overhang load capacity
 Compact in size
 Ratio available from 3.6 to 100000
 Power 50 Kw to 150 kW
 Torque capacity up to 750000 Nm

SUGAR MILL DRIVES



Rigid foot mounting construction
 Output square end shaft
 Roller bearings
 Ratio available from 150 to 480
 Power 50 kW to 1000 kW
 Torque up to 4500000 Nm
 Available with forced lubrication system

SHAFT MOUNTED MILL DRIVES



Shaft mounted with rigid coupling & torque arm
 Directly mounted on shaft
 Input drive can be electric or hydraulic
 Ration available from 150 to 480
 Power 40 kW to 250 kW
 Torque up to 1500000 Nm
 Available with forced lubrication system

SPUR-PLANETARY DRIVES



Used for sugar industry crystalliser
 Shaft mounted in construction,
 no need of foundation & coupling
 Highest reliability
 Higher efficiency
 Compact in size
 Ratio available from 50 to 50000
 Power 1 kW to 50 kW
 Torque capacity up to 350000 Nm

WORM – PLANETARY TRACTION DRIVE



Power Range 3.7 kW to 200 kW
 Ratio Available 150 to 20,000
 Mounting – Flange / Shaft
 Application – Stackler Reclaimer / Ash Handler
 Customization possible

SPECIAL BEVEL - PLANETARY GEARBOX



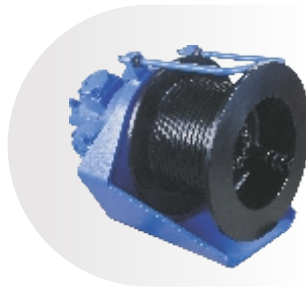
Power Range 35 kW to 150 kW
 Ratio Available 25 to 1000
 Mounting – Foot / Flange
 Application – Plough Feeder, Coiler /
 Decoiler in steel & Coal Industry,
 Sugar Pan Circulator
 Customization possible

TRACK DRIVES



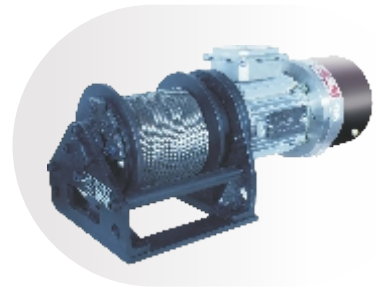
Used for crawler applications in earth moving machines
Rigid in constructions
Inbuilt hydraulic parking brakes
High radial load capacity due to taper roller bearings
Compact in size
Ratios available from 3.6 to 100
Torque capacity up to 80000 Nm
Radial load capacity up to 100000 N

HYDRAULIC WINCH DRIVES



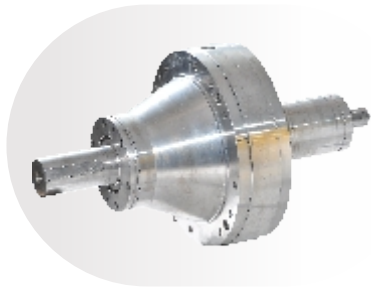
Used in mobile cranes, drilling rings, material handling trolleys
Hydraulic input
Inbuilt brakes available
Highest reliability
Compact in size
Line pull capacity 2,500 N to 5,00,000 N
Line speed 10 mtr / min to 60 mtr / min

ELECTRIC WINCH DRIVES



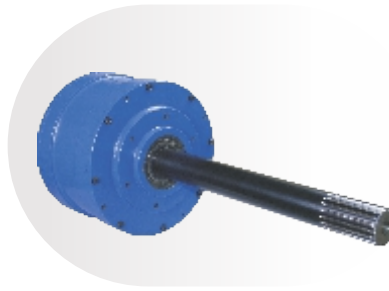
Use in pick and carry cranes, material handling
Available with electric brake motor
Capacity up to 100 MT
Available in foot mounting
power 0.17 kW to 370 kW
Line speed 0.1 mtr / min to 30 mtr / min
Compact in size

CLYCLOIDAL GEARBOX



Ratio Available 7 to 5000
Torque Range 100 Nm to 7000 Nm
Mounting - Flange / Foot
Application - Petrochemicals, Waste water Treatment, Olive Oil Extraction Equipments

CENTRIFUGE DRIVES



Used in decanter applications
Body rotates at high speed
Various reduction ratios & series available
Power rating up to 150 kW
Dynamically balanced components & assembly

PLANETARY BAR BENDING DRIVE



Power Range 0.75 kW to 15 kW
Ratio Available 50 to 300
Torque Range 2800 to 850000 Nm
Mounting - Flange
Application - Bar Bending Machines / Construction Equipments

HOIST DRIVE



Power Range 3.7 kW to 30 kW
Ratio Available 60 to 160
Mounting - Flange
Application - Crane Hoist Drive

PLANETARY MIXER GEARBOX



Power Range 3.7 kW to 100 kW
Mixer Arm Speed 48 to 52 RPM
Scraper Arm Speed 12 to 14 RPM
Capacity 300 Kg to 3000 Kg
Mounting - Flange
Application - Planetary Mixer / Cement Industry / Brick Making

PLANETARY SLEW DRIVE GEARBOX WITH PINION



Power Range 1.1 kW to 100 kW
Ratio Available 10 to 15000
Torque Range 2800 to 3,50,000 Nm
Mounting - Flange
Application - Slewing drive / Wind Mill drive / Offshore Cranes / Reclaimer / Loaders / Tower Cranes / Stackers / Excavators



PERFORM UP FOR THE GLOBAL MARKET !



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Chennai | Coimbatore | Bangalore

In view of continuous R & D, we reserve right to modify technical data stated in this catalog without notice.

