



*Esenpro*

The Most Trusted Brand

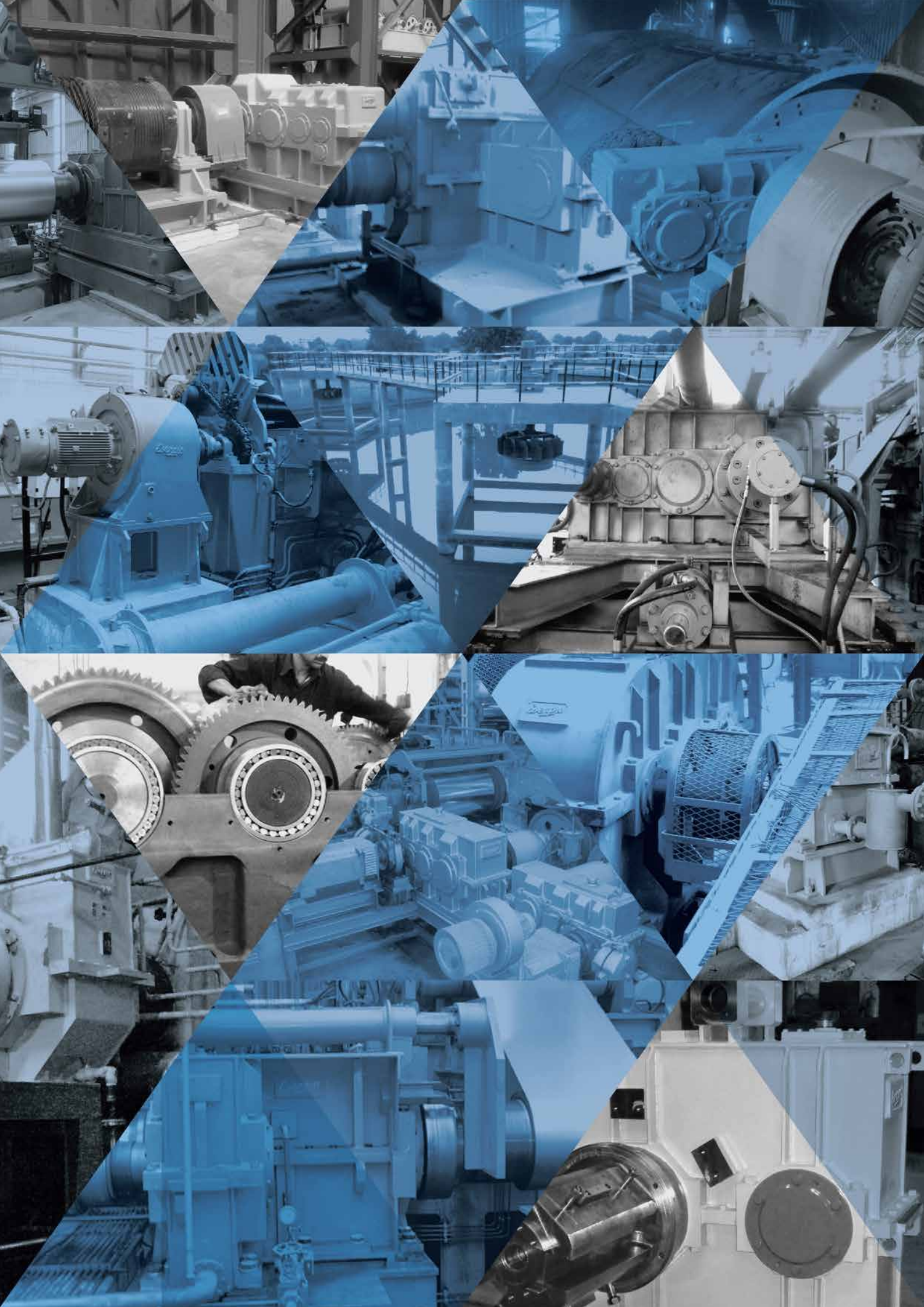
# ESENPRO RANGE OF INDUSTRIAL GEAR REDUCERS

Iron & Steel | Cement | Mining | Bulk Material Handling | Plastics | Rubber | Power  
Crane & Hoisting | Waste Water Treatment | Petrochemical | Oil & Gas | Paper & Pulp



**ESSENTIAL POWER  
TRANSMISSION PVT. LTD.**







1947 marked the year of the first member company of Essential Group – M/s. Excellent Engineering Co., founded by the dynamic entrepreneur Late Shri Chandulal Shah. The company was setup as an import and trading company for several reputed international manufacturers from technologically advanced countries.

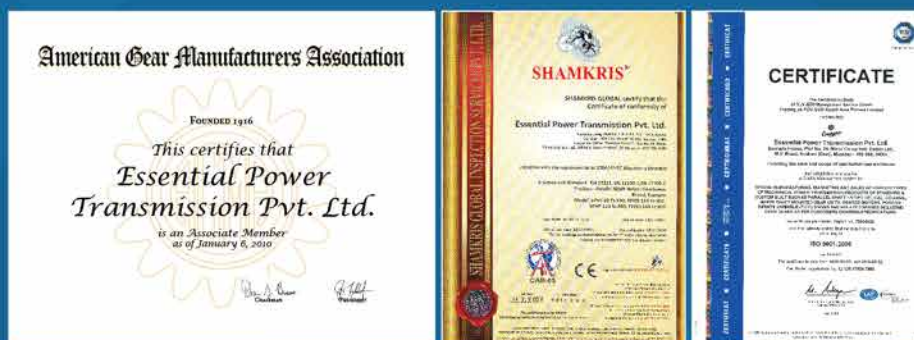
The pioneering venture soon paved the way for the establishment of the group's first 'Worm Gear manufacturing unit' in 1958. This marked the beginning of manufacturing and marketing of mechanical power transmission products under '**Esenpro**' trademark.

Having initiated a successful start, **Essential Power Transmission Pvt. Ltd.** soon expanded its production facilities to include manufacturing of Helical Gear Units, Geared Motors, Helical – Bevel Gear Units, PIV Drives and Special application Gear Units.

An ISO 9001:2008 certified company ensures that our manufacturing activities are complied with the Quality Management System. Along with a team of experienced engineers and technocrats, gears are designed as per DIN and AGMA standards. The gear ratings are as per AGMA Standard 2101 – D04.

State-of-the art technology has been the hallmark of **Esenpro**'s growth and success. In fact, **Esenpro** plays an active role in both national and international up-gradation standards in Industrial Gear Units. Latest CNC Gear grinding and Machining facilities ensures high quality gear units. The complete computerization of design calculation and evaluation on latest CAD/ CAM software's plays a significant part in obtaining optimum precision in gear design.

Our gear units are running successfully in various industrial sectors including Steel, Cement, Plastic, Chemical, Waste Water Management, Paper, Pumps & Compressors, Thermal & Nuclear Power and OEM's. On the exports front **Esenpro** crossed borders in providing consultancy, design and manufacturing service to meet drive applications in countries all over the world, ascertaining all along, its commitment to service.



# STANDARD GEAR REDUCER SERIES



## EP Series Helical Gear Reducer

**Stage:** Single / Double / Triple / Quadruple

**Reduction Ratio:** 1.6/1 - 630/1

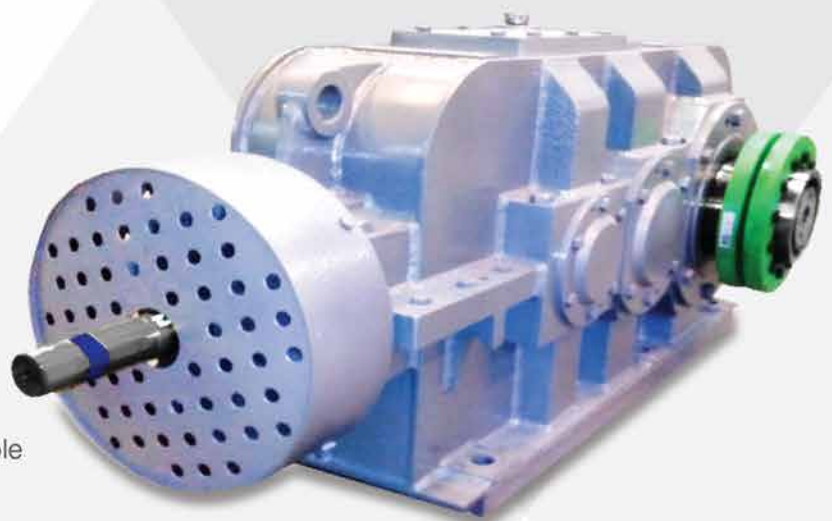
**Power:** 0.8 - 8000 KW

**Output Shaft :** Solid / Hollow

**Additional Accessories :** Heat Exchanger / Cooling Coil / Cooling Fan with Cover / Shrink Disc / Hold Back / Temperature, Flow & Pressure Sensors / Lubricating Pump System.

**Applications:** Bridle Drives / Bucket Conveyor Drives / Kiln Drives / Ball Mill Drives / Crushers / Paper Machine Drives / Mixing Drives / Agitating Drives / Hoisting Drives / Turbine Drives.

*For Customised Helical Gear Reducers  
please send your inquiries to [marketing@esenpro.com](mailto:marketing@esenpro.com)*



## EP Series Bevel Helical Gear Reducer

**Stage:** Single / Double / Triple / Quadruple

**Reduction Ratio:** 6.3/1 - 630/1

**Power:** 0.7 - 2850 KW

**Output Shaft:** Solid / Hollow

**Additional Accessories:** Heat Exchanger / Cooling Coil / Cooling Fan with Cover / Shrink Disc / Hold Back / Temperature, Flow & Pressure Sensors / Lubricating Pump System.

**Applications:** Bucket Conveyor Drives / Kiln Drives / Ball Mill Drives / Crushers / Pulper Machine Drives / Mixing Drives / Agitating Drives / Hoisting Drives / Cooling Tower Drives / Apron Feeder Drives.

*For Customised Bevel Helical Gear Reducers  
please send your inquiries to [marketing@esenpro.com](mailto:marketing@esenpro.com)*



# STANDARD GEAR REDUCER SERIES

## CEP Series Helical Crane Duty Gear Reducer

**Stage:** Double / Triple / Quadruple

**Drives:** Main Hoist / Cross Travel / Long Travel

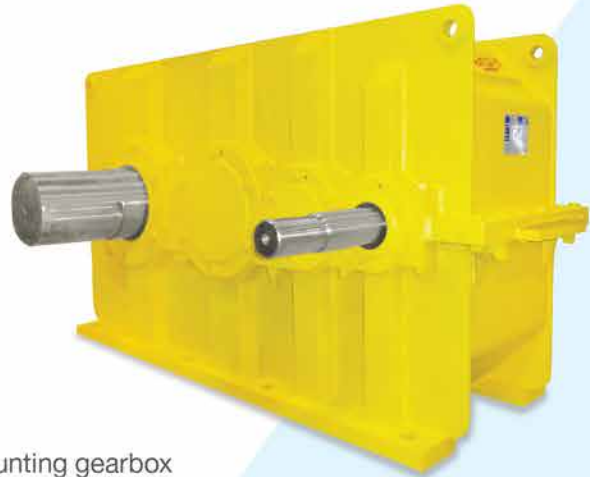
**Reduction Ratio:** 1.6/1 - 300/1

**Mounting:** Horizontal / Vertical

**Lubrication:** Forced Lubrication for all vertical mounting gearbox

**Input & Output Shaft:** Single & Double Extension as per customer specification

**Application:** Steel Handling Cranes / Port Handling Cranes / Material Handling & Lifting Cranes / EOT Cranes / Overhead Cranes



*For Customised Planetary: Helical Hoist Gear Reducers  
please send your inquiries to [marketing@esenpro.com](mailto:marketing@esenpro.com)*



## Helical Single Screw Extruder Gear Reducer

**Stage:** Single / Double / Triple

**Ratio:** 6.3/1 - 80/1

**Power:** 5 - 530 KW

**Housing:** Split Casing with integrated thrust housing

**Lubrication:** Forced Lubrication for all vertical mounting

**Additional Accessories:** Cooling Coil / Heat Exchanger

*For customised extruder gearbox as per your specification  
please send inquiry to [marketing@esenpro.com](mailto:marketing@esenpro.com)*

# STANDARD GEAR REDUCER SERIES

## Helical Aerator Gear Reducer

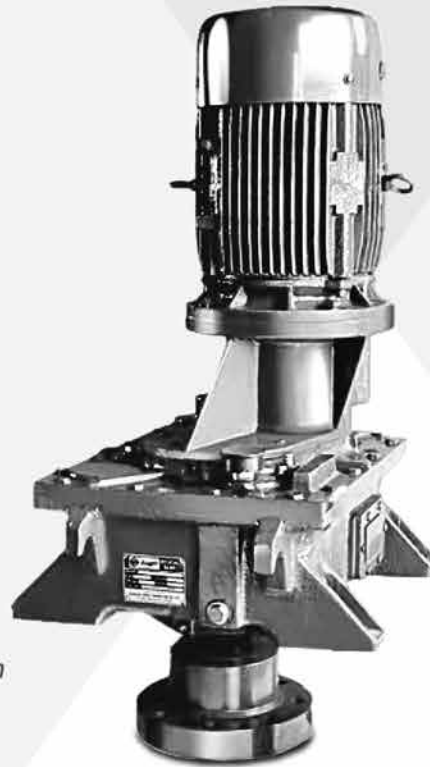
**Stage:** Single & Double

**Ratio:** 3.35/1 - 35.5/1

**Power:** 2.5 - 445 KW

**Mounting:** Vertical

*For Customised Helical Aerator Gear Reducers  
please send your inquiries to [marketing@esenpro.com](mailto:marketing@esenpro.com)*



## Worm Gear Reducer

**Size(Inch):** 1 $\frac{1}{8}$ , 1 $\frac{5}{8}$ , 2 $\frac{1}{8}$ , 2 $\frac{1}{2}$ , 3, 3 $\frac{1}{2}$ ,  
3 $\frac{3}{8}$ , 4, 5, 6, 7, 7 $\frac{1}{2}$ , 8, 9, 10, 10 $\frac{1}{2}$ , 12, 14, 18

**Reduction:** Single & Double

**Ratio:** 10/1 - 70/1

(Single) 75/1 - 4900/1 (Double)

**Shaft:** Solid/ Hollow

**Mounting:** Foot/ Shaft

**Type:** Horizontal / Inverted / Tube Mill

**Accessories:** Holdback

*For Customised Worm Gear Reducers  
please send your inquiries to [marketing@esenpro.com](mailto:marketing@esenpro.com)*



# CUSTOM BUILT GEAR REDUCERS

## Custom Built Gear Reducer for Polymer Mixing

**Power:** 150 KW  
**Reduction Ratio:** 28/1  
**Output Speed:** 10  
**Output Torque:** 180,000 N-m  
**Application:** Processing high viscous polymer



## Mill Gear Reducer

**Power:** 0 - 5000 - 5000 KW  
**Speed:** 0 - 400 - 800 RPM  
**Ratio:** 1.46/1 (Increaser)  
**Shaft:** Single Input Shaft, Twin Output Shaft

## Coal Stacker Gear Reducer

**Power:** 15 KW - 100 KW  
**Ratio:** 455/1  
**Application:** Coal Stacker Slew Drive



## Helical Gear Reducer For Agitator Reactor

**Power:** 90 KW  
**Speed:** 5.3 RPM  
**Ratio:** 273/1  
**Application:** Horizontal Agitation of Polymer granules



# CUSTOM BUILT GEAR REDUCERS



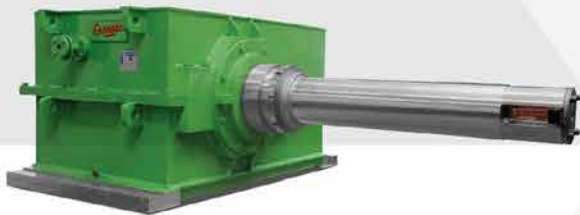
## Entry Tension Reel Gear Reducer

**Power:** 0 - 2500 - 2500 KW  
**Speed:** 0 - 255 - 800 RPM  
**Ratio:** 1.095/1



## Recoiler Gear Reducer, (Dual Speed)

**Power:** 0 - 215 - 215 KW  
**Speed:** 0 - 420 - 520 - 1800 RPM  
**Ratio:** 5.75/1 & 11.5/1



## Uncoiler Gear Reducer

**Power:** 0 - 500 - 500 KW  
**Speed:** 0 - 480 - 1500 RPM  
**Ratio:** 6.637/1



## Pinion Stand Gear Reducer

**Power:** 1219 KW  
**Ratio:** 5.02/1  
**Input Speed:** 0 - 667 - 2000  
**Output Speed:** 0 - 132 - 396 RPM



## Leveller / Flattner Gear Reducer

**Power:** 285 KW  
**Speed:** 512 RPM  
**Ratio:** 1/1  
**Shaft:** 5, 6, 7, 9, 13, 17, 19 Output Shafts



## Vertical Helical Gear Reducer for Pumping Application

**Power:** 2000 KW  
**Ratio:** 3/1  
**Input Speed:** 1482 RPM  
**Output Speed:** 494 RPM  
**Application:** Water Pumping Station



# GEARBOX REPAIR AND OVERHAUL

Esenpro offers their customers an end to end service with regards to the repairing and refurbishing of the existing gearbox running in their plant. No matter who the original equipment manufacturer is, our experienced service and quality team will assess and record the condition of each and every mechanical component of the gearbox and provide a complete action plan for the necessary repairs or replacements.

Esenpro's dedicated maintenance and service team can also be deputed to the customer site to assess the overhauled gearbox and provide recommendation for further action plan. You can send your inquiry to [info@esenpro.com](mailto:info@esenpro.com) Assuring our quickest and most reliable service to you.

## Repair And Overhaul Procedure



On arrival of the gearbox at Esenpro works, we remove all accessories like couplings, holdbacks etc.



We check all the gears and shafts by NDT to insure there are no major cracks or defects that may lead to future problems



Necessary regrinding is carried out on the gears and pinions and then are reassembled. Backlash and tooth contact pattern is checked and recorded.



Final No Load testing is done after which it is ready to be dispatched to the client.

## ONE TO ONE REPLACEMENT & GEARBOX ENHANCEMENT

Esenpro can manufacture a one to one replacement gearbox to the existing one which is driving your equipment. We maintain all necessary dimensions like basic foot print, shaft centers, shaft height and shaft diameters. We insure that no civil modification needs to be made by our customer when providing the one to one replacement gearbox.

Esenpro can also enhance the gearbox by maintaining the same gearbox casing. This is possible on case to case basis depending on the level of enhancement desired by the customer. We carry out bearing upgrades, improvisation in gear train design, provide additional accessories like cooling fan, heat exchanger, pressure and temperature sensors.

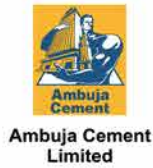


Existing Gearbox



Esenpro One To One Replacement

# OUR VALUED CUSTOMERS



SUCCESSFULLY  
GEARING THE WORLD



M



INDORAMA



CMI FPE INDUSTRY



CH group  
ENT PRIVATE LIMITED

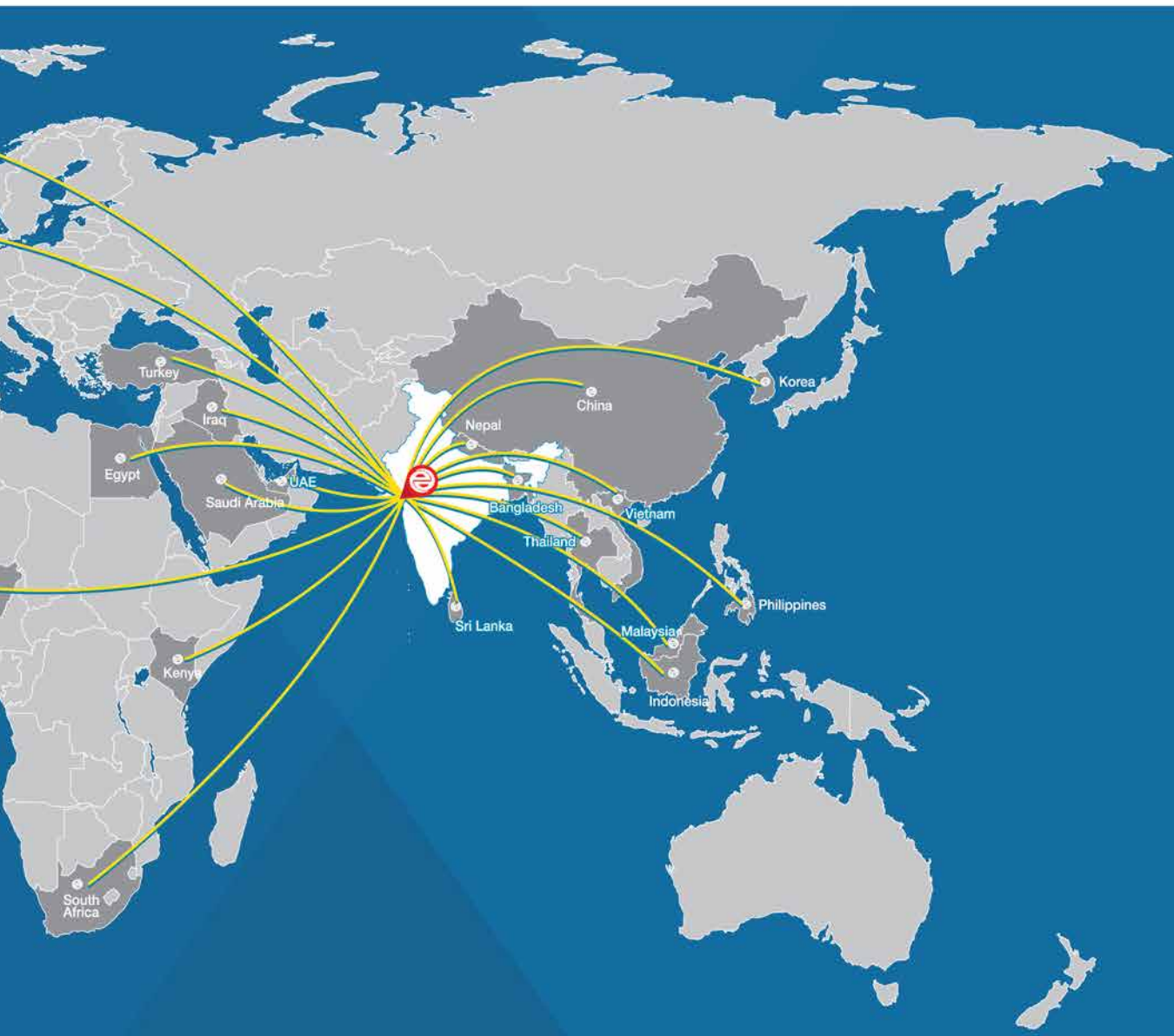


Kiroloskar  
Brothers Limited



Reliance  
Industries Limited

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The Most Trusted Brand

#### HEAD OFFICE

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#### MANUFACTURING PLANT

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E: unit2esenpro@gmail.com

#### DOMESTIC & INTERNATIONAL SALES NETWORK

##### Jharkhand

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##### Kolkata (Coal India Subsidiaries)

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Contact Person: Mr. Amit Sekseria  
M: +91-9831020004  
E: amit@rrlsteels.com

##### North Eastern and Eastern Region

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