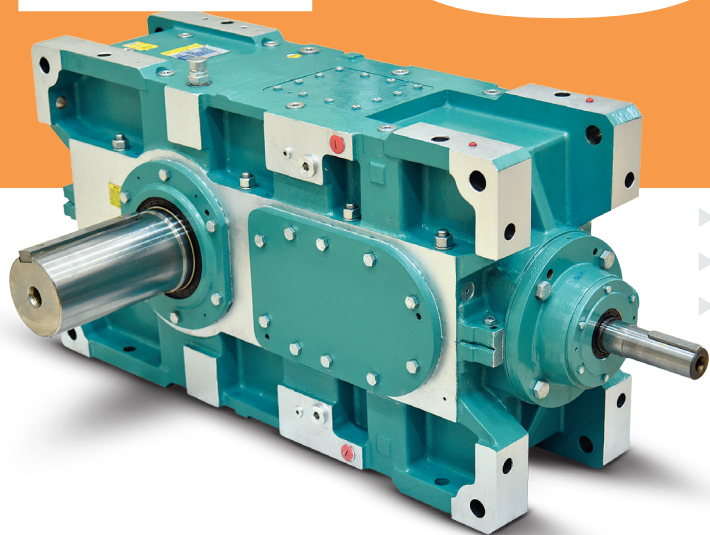


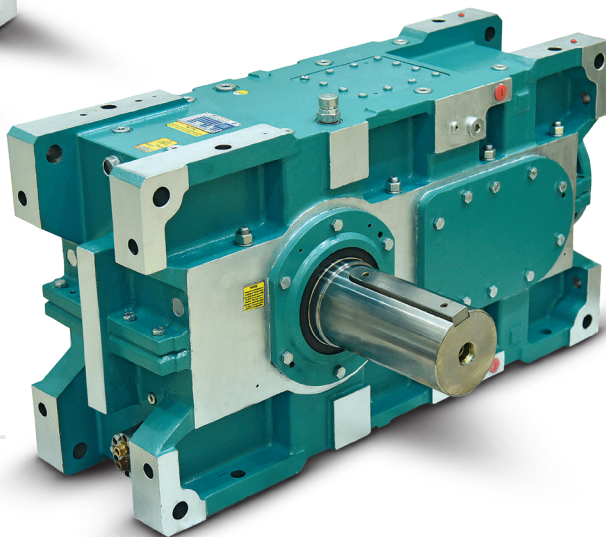
GEARING INDUSTRIES

EON²

SERIES



HELICAL AND
BEVEL HELICAL
GEAR UNITS

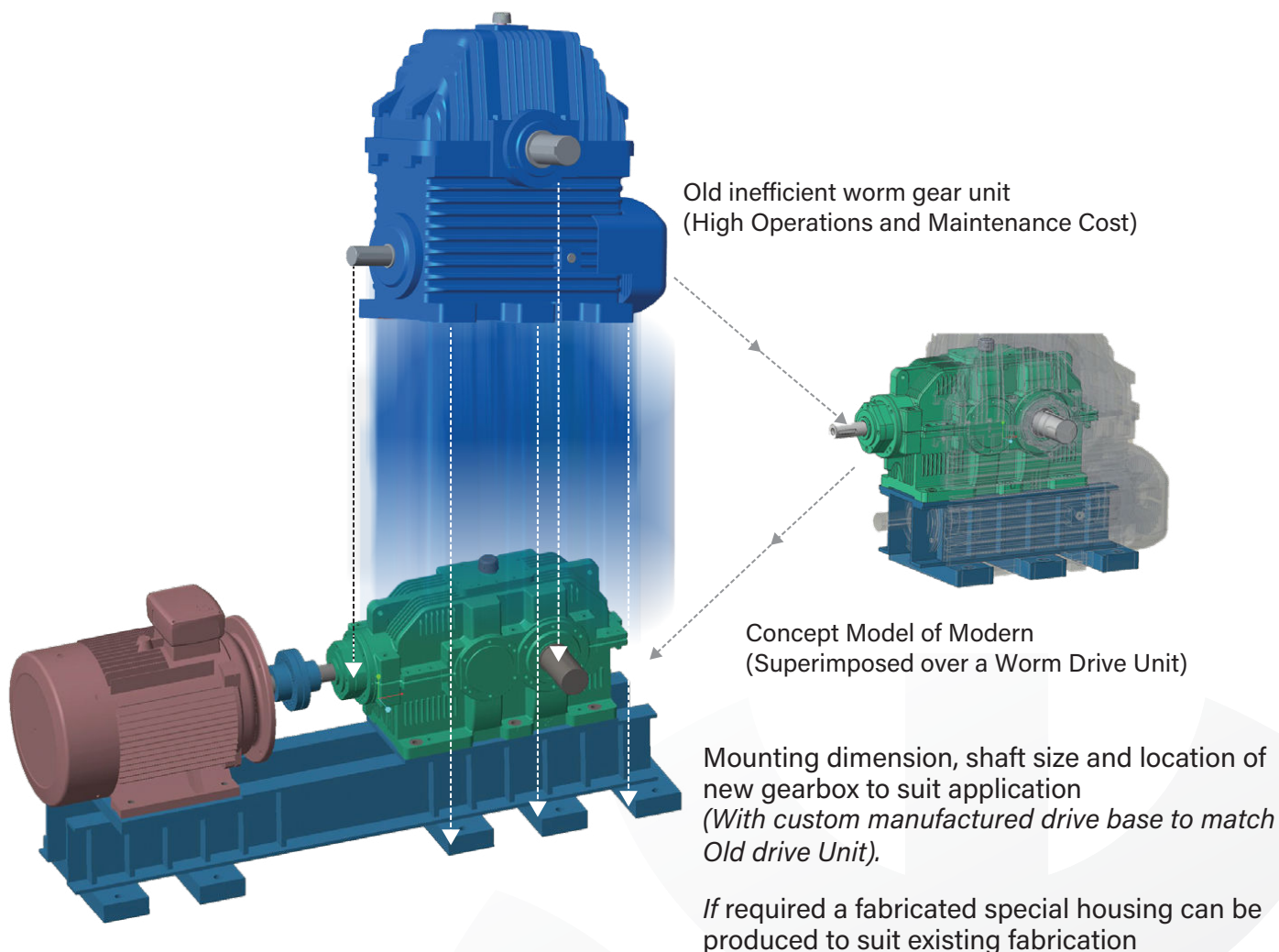


radicon 

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 **ELECON**
GEARING THE FUTURE

Modernise Your Drive Systems with Radicon's Custom 'Drop in Solutions



At Radicon, we specialise in delivering custom-engineered solutions that replace outdated worm drives and obsolete reducers with modern, high-efficiency gear systems, suitable for all types of existing gearboxes across every industry. Our innovative, cost-effective drive solutions are designed to: **Boost** productivity, **Enhance** reliability, **Reduce** total cost of ownership, **Reduce** energy consumption and **Lower** your plant's carbon footprint. With decades of expertise in advanced gearing technology, our engineering team can design drop-in replacements that match your current system's dimensions, making upgrades seamless and stress-free.



WORLD'S MOST TECHNOLOGICALLY ADVANCED GEAR MANUFACTURING FACILITY

BHANUBHAI MEMORIAL CENTRE OF EXCELLENCE (BMCE)

In the last six decades, Elecon have conducted intensive research in gear technology and manufacturing techniques. We have developed a variety of products in the transmission industry from worm gears to helical, from planetary to variable speed fluid couplings. This development has demanded a significant investment in manufacturing capability from gear cutting right through to heat treatment and profile grinding. This new plant has the capacity to manufacture sufficient helical gears to produce 1000 assembled gear units per month.

This plant is a tribute to our founding Chairman, Lt. Shri Bhanubhai Patel, who wanted to remain "Always a step ahead in technology"





Gearing industries. Gearing economies.

Characteristic of Gear Unit

Overview

The EON series of helical and bevel helical gear units is designed to Elecon's proven quality standards. These quiet running units provide exceptional levels of performance, versatility and life expectancy to meet the demanding requirements of modern industry.

Elecon EON Series offers a comprehensive range of right angle and parallel shaft combinations with ratios to suit market requirement. Both solid and hollow output shaft combination are available including keyed, keyless including double extended output shaft.

Technical

Elecon's EON series range is designed to balance thermal & mechanical ratings with bearing life to ensure the unit has the best optimal performance.

Gear case have been optimized to reduce weight & increase stiffness ensure superior power to weight ratio. The horizontal split case design makes for simple inspection & maintenance.

Quality & Testing :

Elecon utilize state-of-the art gear & CMM inspection machine which ensures elecon's product are of the highest quality & robustness. All external gears are ground. Elecon offers No-Load testing at assembly line end.



Selection of Gear:

Single stage

Helical Gear

$i_N = 2$ to 5.6

Double stage

Helical Gear

$i_N = 6.3$ to 22.4

Triple stage

Helical Gear

$i_N = 22.4$ to 100

Quadruple stage

Helical Gear

$i_N = 100$ to 400

Double stage

Bevel Helical Gear

$i_N = 5$ to 12.5

Triple stage

Bevel Helical Gear

$i_N = 12.5$ to 80

Quadruple stage

Bevel Helical Gear

$i_N = 80$ to 355

General Information

The following items are absolutely to be observed!

1. The weight of gearbox are mean values and not strictly binding.
2. Prior to commissioning, the operating instructions must be observed. The gear units are delivered ready for operation but without oil filling.
3. Oil quantities given are guide value only. The exact quantity of oil depends on the marks on the oil level dipstick.
4. The oil viscosity has to correspond to the data given on the name plate.
5. Approved lubricants should be used only. (Refer operating instruction manual)
6. The Gear case housings are protected against corrosion.
7. Rating calculations are as per DIN-3990.
8. Foundation bolts are minimum property class-8.8.
9. Allowable vibration limits is generally as per ISO 10816
10. Allowable noise level is 85 ± 2 dB.
11. Modification of dimensions reserved.
12. Shaft ends with keys according to DIN 6885, part 1, Shape A.
13. Shaft centering according to DIN 332, shape DS (with thread)
14. Tolerance field for shaft ends ISO fit, details refer separate page.

Standard Gearbox includes:

1. Oil dipstick
2. Breather plug
3. Lifting provision
4. Oil filling and drain plug
5. RTD provisions
6. Shaft End Key

Symbols used:

1. Oil dipstick 
2. Breather 
3. Drain plug 
4. Oil filling 

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