

benzlers 

with you at every turn



A close-up photograph of a worker in a high-visibility, light-colored jacket with reflective stripes. The worker is focused on a large, complex industrial gear assembly. The gear has many teeth and is part of a larger machine. The lighting is dramatic, with strong highlights and deep shadows, emphasizing the metallic textures and the worker's concentration. The background is dark and out of focus.

SERVICE AND REPAIR

Benzlers service engineers are ready and waiting 24 hours a day, 365 days a year, to provide the following services anytime, anywhere in the world.

On-Site Services

Repairs, Overhauls & Upgrades

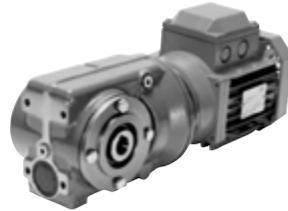
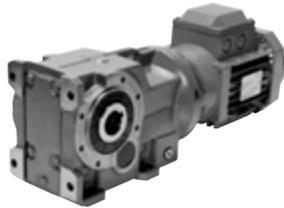
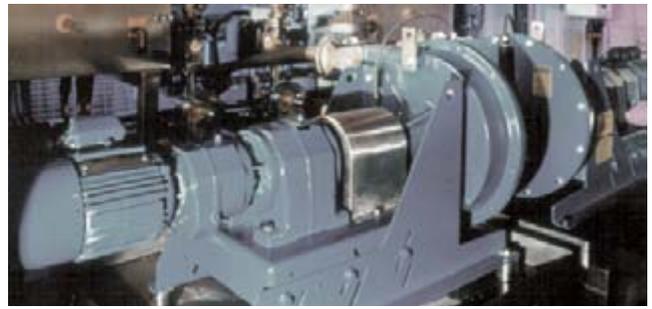
Drop in Replacement Gearboxes

Asset Management

Our dedicated service and repair engineers have the necessary expertise and experience to provide simple repair services through to complex overhaul projects in any industry on any brand of gearbox.

By working in partnership with you the customer our aim is to not only repair but to identify the root cause of your production problems, and work on upgrading and improving your process eliminating downtime and lowering your costs.

24/7 Call Out: 07808 093 048



SERIES M IN LINE HELICAL GEARED MOTORS AND REDUCERS

Proven design geared motors with dry connection between motor and gearbox for easy removal of the motor.

Unit Sizes:
01, 02, 03, 04, 05, 06, 07, 08, 09,
10, 13, 14 and 16
Input Power:
Up to 160 kW *
Output Torque:
Up to 20,000 Nm
Gear Ratios:
3.6:1 to 58:1 in two stage, up to
16200:1 in combined form
Motor Sizes:
IEC Frames from 63 to 315

SERIES K RIGHT ANGLE HELICAL BEVEL HELICAL GEARED MOTORS AND REDUCERS

Key dimensions throughout the range are interchangeable with many manufacturers allowing easy installation into existing applications.

Unit Sizes:
03, 04, 05, 06, 07, 08, 09, 10, 12,
15 and 16
Input Power:
Up to 160 kW *
Output Torque:
Up to 33,000 Nm
Gear Ratios:
8.0:1 to 160:1 in three stage, up
to 35000:1 in combined form
Motor Sizes:
IEC Frames from 63 to 315

SERIES C RIGHT ANGLE HELICAL WORM GEARED MOTORS AND REDUCERS

Available with Drywell System for maximum protection against oil contamination on vertical shaft mixing and aerating applications.

Unit Sizes:
03, 04, 05, 06, 07, 08, 09, and 10
Input Power:
Up to 45 kW *
Output Torque:
Up to 10,000 Nm
Gear Ratios:
8.0:1 to 250:1 in two stage, up to
60000:1 in combined form
Motor Sizes:
IEC Frames from 63 to 225

SERIES F PARALLEL SHAFT MOUNT HELICAL GEARED MOTORS AND REDUCERS

Available with market leader KIBO tapered bushing system to allow trouble free removal of hollow shaft and gearboxes.

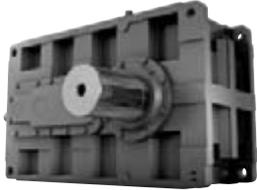
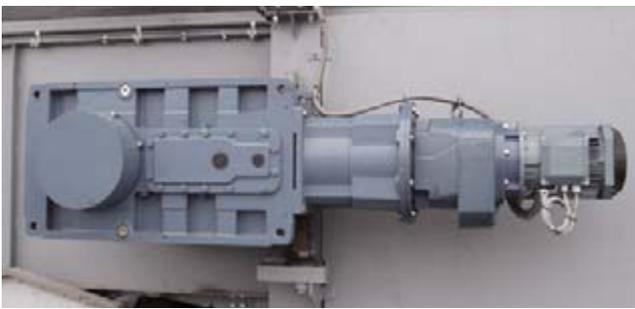
Unit Sizes:
02, 03, 04, 05, 06, 07, 08, 09, 10,
11 and 12
Input Power:
Up to 110 kW *
Output Torque:
Up to 16,500 Nm
Gear Ratios:
5.0:1 to 100:1 in 2 stage, up to
5600:1 in combined form
Hollow shaft:
25 mm to 100 mm
Motor Sizes:
IEC Frames from 63 to 225

* Now available with compact motor option up to 7.5 kW, 4 pole execution.

THROUGH LIFE COSTS

Whether you use drive and linear motion systems in your plant production line, or are a machine builder wishing to offer your customer the most reliable machine possible, we recognise the importance of minimising through-life cost.

A combination of rugged reliability, providing maximum life span and user friendly design, enabling easy maintenance, ensures that the products we offer are easy to live with, giving you peace of mind and allowing you to focus on the important areas of your day to day business.



SERIES G HELICAL PARALLEL SHAFT AND BEVEL HELICAL RIGHT ANGLE DRIVE GEAR UNITS

Incorporating 3 stage high integrity sealing, split gear case design for easy maintenance.

SERIES J HELICAL SHAFT MOUNT SPEED REDUCERS

Available with unique KIBO® tapered bushing system to allow trouble free removal of hollow shaft gearboxes.

SERIES A WORM GEARBOXES

The Series A range of units can be mounted in the worm under, worm over and output shaft vertical mounting positions and provide a choice of shaft arrangements.

SERIES BD SCREWJACKS

Supplied as individual products or engineered into complete linear motion packages, suitable for numerous applications including linear motion, positioning, pressing and load adjustment.

Unit Sizes:
14, 15, 16, 17, 18, 19, 21, 22

Input Power:
Up to 1,500 kW
Output Torque:
Up to 162,000 Nm
Gear Ratios:
6.3:1 to 315:1 in multistage, up to 70,000:1 in combined form
Output Shaft:
Up to 240mm diameter
Motor Sizes:
IEC Frames from 200 to 315

Unit Sizes:
11/12, 21/22, 31/32, 51/52, 71/72, 100, 110, 125, 140, 160, 190
Input Power:
Up to 618 kW
Output Torque:
Up to 57,800 Nm
Gear Ratios:
5:1 to 20:1
Hollow shaft:
35 to 190mm
Motor Sizes:
IEC Frames B3 from 90 to 200

Unit Sizes:
410, 510, 610, 730, 860, 1002, 1252, 1602, 2002, 10, 12, 14*

Input Power:
Up to 718 kW
Output Torque:
Up to 104,000 Nm
Gear Ratios:
from 5:1 to 70:1 single reduction and 4,900:1 in double reduction format
Output Shaft:
190mm

Unit Sizes:
27, 40, 58, 66, 86, 100, 125, 200

Load Capacity:
1 Kg to 100 tonnes
Linear Speed:
up to 5m/min
Materials:
Cast iron bodies and carbon steel screws are standard.

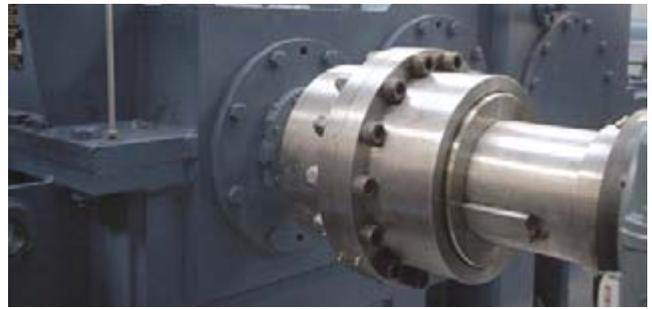
Stainless steel construction available as special order.

*Larger and special units available upon request.

CUSTOMISED & SYSTEM SOLUTIONS

We recognise that a standard off the shelf product is not always the best solution for our customers needs. The design principles which we incorporate into our product range enable a high degree of product flexibility, enabling many alternative solutions to be offered.

Our experienced sales and engineering teams are able to provide both complete drive and linear motion system packages as well as a full customisation service, providing a specific product modification to meet your exact needs.



ROLOID GEAR PUMPS

SERIES X COUPLINGS

SERIES E - INDUSTRIAL REDUCER

PLANETARY

Suitable for pumping a wide variety of liquids which have a lubricating property, in applications such as Engines, Compressors, Gearboxes, Rolling Mills, Machine Tools, Process Plant, Pumping Sets and Turbines. HST version specifically designed for screw compressor applications.

A comprehensive range of shaft couplings, incorporating gear type, pin and bush type, Nylicon and mechanical torque limiting type, allowing both parallel offset and angular misalignment, virtually maintenance free, offering excellent durability and machinery protection.

The latest range of industrial reducer, giving optimum weight to torque ratio's providing the most cost effective solution on the market.

The Series P range of planetary gear units are designed to meet the requirements of the most demanding applications in the medium and heavy duty sectors of the power transmission market.

Available as version N, foot mounted and version S multi-mount case.

Available in 10 sizes, this modular design allows for quick assembly to the customers chosen configurations. Available in line and right angle with a choice of foot mounted or flange mounted case designs.

Unit Sizes:
9, 7, 6, 5, 4, 3, 2.5, 2, 1.5
Flow Rate:
up to 2,500 litres/min

Unit Sizes:
Accommodating shaft size up to 540mm dia.
Load Capacity:
Up to 1,100,000 Nm

** Not available Atex certified

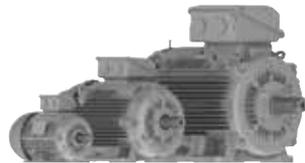
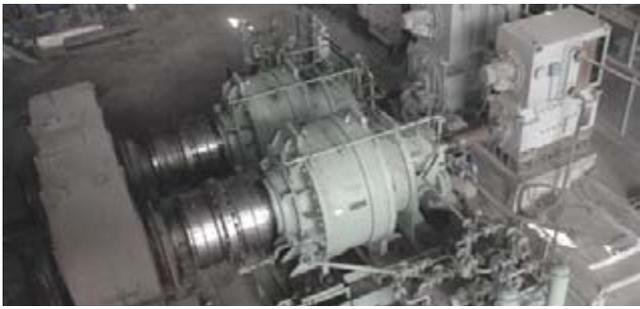
Unit Sizes:
11,13,14,15,16,17,18,19,20,21, 22,23,24,25,26
Input Power:
Up to 4,825 kW
Output Torque:
Up to 130,000 Nm
Gear Ratios:
1.25:1 to 550:1 in multi-stage
Output Shaft:
Up to 220mm diameter

Unit Sizes:
01,02,03,05,08,12,16,25,40,65
Input Power:
Up to 90 kW
Output Torque:
Up to 65,000 Nm
Gear Ratios:
3.6:1 to 2,500:1 in multi-stage
Output Options:
Available as solid keyed, solid splined, hollow splined and shrink disc
Motor Sizes:
IEC Frames up to 280

APPLICATION EXPERTISE AT YOUR SERVICE

An unrivalled depth of customer application expertise stretching back over 150 years enables us to provide the optimum solution for your drive requirements. Our team of Application Engineers are available to review your needs, understand your problems and recommend the best possible drive or linear system solution to maximise the operation of your equipment and minimise the through life cost.

Atex - All our products can be supplied Atex certified on normal lead times **



CUSTOMISED SOLUTION

All Benzlers Geared Motors now can be supplied with Variable speed drives, PLC's, HMI's and servo motors to complete the power transmission package.

Benzlers now offers end to end solutions to ensure your process runs efficiently

Servo Motors:

Output: 0.5 to 55 kW
Speeds: 1,000 to 3,000 rpm

Variable speed drives:
0.12kW – 500 kW

ELECTRIC MOTORS

Benzlers now supply electric motors to complete the power transmission package. The range covers standard IEC motors from stock.

All motors are of IE2 efficiency

Unit Frame Sizes:

63 – 355*

Unit Powers:

0.12kW – 500 kW

Speeds:

2 Pole - 3,000 rpm
4 pole - 1,500 rpm
6 pole - 1,000 rpm
8 pole - 750 rpm

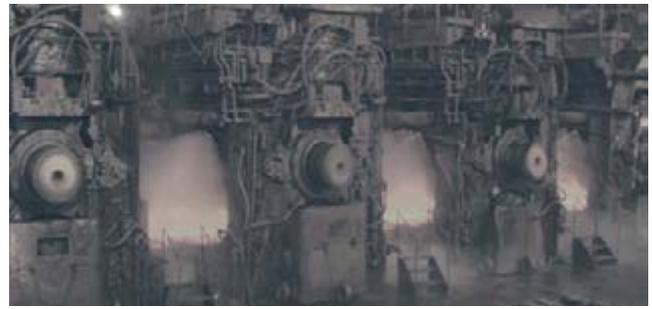
*Medium/High voltage available on request.

CONDITION MONITORING

A full range of condition monitoring services are available to complement the product range

Services include:

- Gearbox health inspections
- Remote data analysis
- Oil analysis
- Vibration analysis & balancing
- Alignment checks
- Infrared thermography
- Ultrasonic testing
- Stress wave analysis
- Preventative maintenance packages



DROP IN REPLACEMENTS

Radicon now has the capability to design, engineer and supply special gearboxes to replace any brand of gearbox whether current or obsolete with the minimum amount of modification and production downtime.

Radicon is able to offer drop in gearboxes for any brand of gearbox either current or obsolete, including, but not limited to the following brands:

David Brown
Falk

Hansen
SEW

Siemens Flender
Renold

Santasalo
TGW

ENTRY ROLL GEARBOX



Radicon recently supplied a drop in replacement to a major UK End User for the manufacture of steel. The requirement was for an existing gearbox to be replaced without any modifications to the surrounding mounting base and equipment.

Single helical gearbox with a ratio of 1/1
A single extension solid input shaft and double output shafts
Transmits 17kW at a speed of 263 RPM

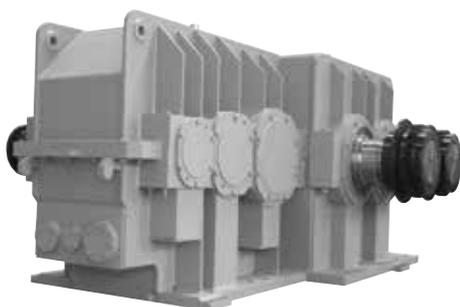
To ensure suitability to withstand the duty the gearbox offers a service factor of 8.24 for strength in accordance with AGMA 2001-B88 selection criteria.

CUSTOM MANUFACTURED GEARBOXES

Radicon offer a high quality range of custom engineered gearboxes into a wide range of industries and applications. Major investment in the business coupled with our design, engineering experience and industry expertise ensures our custom engineered gearboxes reach the highest standards of quality, reliability and durability.

Radicon's dedicated team of application engineers work in partnership with each customer to ensure our products are the optimal solution for each individual customer, while still delivering high quality and reliable products that the Radicon business is renowned for.

INDUSTRIES & PRODUCT RANGE



Power Generation

Cooling Tower Drives
Coal Pulveriser Drives
Air Preheater Drives

Cement

Mill Drives
Retrofit Replacements

Steel

Coiler/Uncoiler & Pay-Off Reel Gearboxes
Rolling Mill Drives
Speed Changing Gearboxes

Material Handling

Ladle Crane Hoist Gearboxes
Travel & Cross Travel Drives
Heavy Duty Conveyor Drives

Rubber & Plastics

Banbury Mixer Drives
Calendar Drives

Sugar

Planetary Gearboxes
Sugar Mill Drives
Dual Tandem Mill Gearboxes

BENZLERS believes in engineering quality relationships with our customer that strengthens what we can achieve together. Our business and people within our business are committed to building long lasting partnerships that are as reliable as our products and as smooth as our service.

RADICON and **BENZLERS** are now part of **ELECON ENGINEERING CO. LTD.**, Asia's largest and fastest growing gear manufacturer. This partnership means that we can offer our customers an enhanced range of standard and bespoke engineering solutions including drop in replacements, all supplied with the product quality and engineering expertise demanded from and delivered by the **BENZLERS** business.

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