

benzlers 

with you at every turn



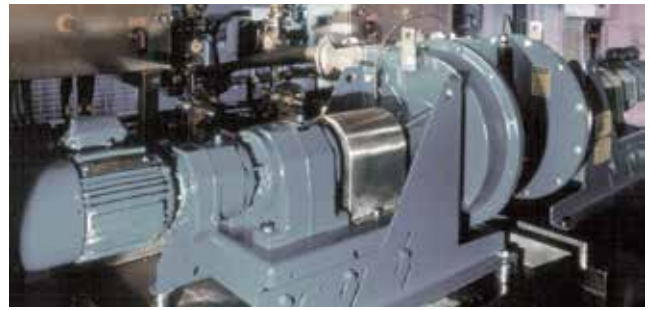


SERVICE AND REPAIR

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 the customer, we are aiming not only to repair, but also identify the root cause of your production problems. Further on we also work on upgrading and improving your processes, eliminating downtime and lowering your costs.

Repairs, Overhauls & Upgrades
Drop in Replacement Gearboxes
Asset Management



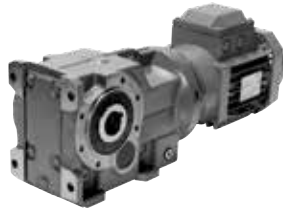
GEARED MOTORS



**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.

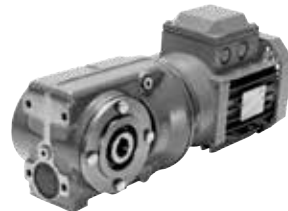
Unit Sizes:
01, 02, 03, 04, 05, 06, 07, 08, 09,
10, 13, 14 and 16
Input Power:
Up to 160 kW
Output Torque:
Up to 20,000 Nm
Gear Ratios:
3.6/1 to 58/1 in two stage, up to
16200/1 in combined form
Motor Sizes:
IEC Frames from 63 to 315



**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 & 16
Input Power:
Up to 160k 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**

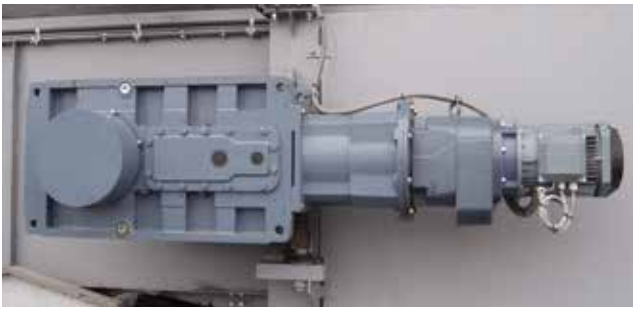
Available with market leader KIBO tapered bushing system to allow trouble free removal of hollow shaft and gearboxes.

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

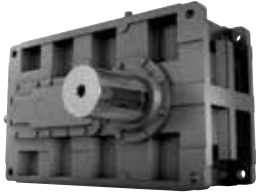
THROUGH LIFE COSTS

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 userfriendly 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.



INDUSTRIAL REDUCERS & WORM GEARS



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 BS RIGHT ANGLE WORM GEARED MOTORS AND REDUCERS

Universal compact aluminium housing. Tuftram® coated range with stainless steel hollow shaft available for food grade wash down.

SERIES A WORM GEARBOXES

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

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 315/1/1 in multistage, up to 70000/1 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:
40, 50, 63, 71
Input Power:
Up to 6.5 kW
Output Torque:
Up to 310 Nm
Gear Ratios:
6.67/1 to 104/1 (without pre-step)
Hollow shaft:
20 to 35mm
Motor Sizes:
IEC Frames from 63 to 112

Unit Sizes:
410, 510, 610, 730, 860, 1002, 1252, 1602, 2002, 10, 12, 14*
*Larger and special units available upon request.
Input Power:
Up to 718 kW
Output Torque:
Up to 104,000 Nm
Gear Ratios:
from 5:1 to 70:1 single reduction and 4900/1 in double reduction format
Output Shaft:
190mm

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.



LINEAR MOTION, COUPLINGS & ELECTRIC MOTORS



**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:
27, 40, 58, 66, 86, 100, 125, 200
Load Capacity:
1 Kg to 100 tonnes
Linear Speed:
up to 5m/min Stainless Steel construction available



**SERIES E - INDUSTRIAL
REDUCER**

The latest range of industrial reducer, giving optimum weight to torque ratio's providing the most cost effective solution on the market. Available as version N, foot mounted and version S multi-mount case.

Unit Sizes:
11,13,14,15,16,17,18,19,20,21,22,23,24,25,26
Input Power:
Up to 4825 kW
Output Torque:
Up to 130,000 Nm
Gear Ratios:
1.25/1 to 550/1 in multistage
Output Shaft:
Up to 220 mm diameter



SERIES X COUPLINGS

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

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

** Not available Atex certified



PLANETARY

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

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:
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 2500/1 in multistage,
Output Options:
Available as solid keyed, solid splined, hollow splind and shrink disc
Motor Sizes:
IEC Frames up to 280

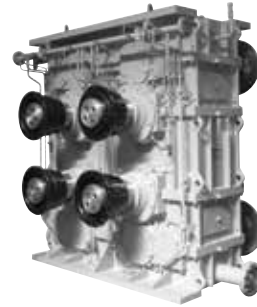
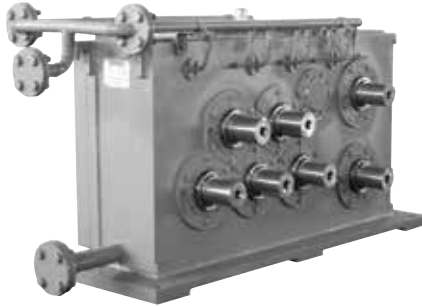
APPLICATION EXPERTISE AT YOUR SERVICE

An unrivalled depth of customer application expertise stretching back over 70 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 **



DROP IN GEARBOX REPLACEMENTS



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

Utilising a wealth of experience and knowledge Benzlers is able to engineer gearboxes on a 'like-for-like' basis with the option to increase power and torque whilst occupying the same footprint as the existing gearbox.

Drop in replacement gearboxes can be designed for mounting in the precise configuration of the original gearboxes, but incorporate technology that ensures they require less maintenance and are easier to maintain for whole life cost benefits.

With the ability to engineer gearboxes to the exact current gearbox specifications, the main obstacle to upgrading is eliminated as the new gearboxes occupy the exact same footprint and minimise downtime and costly plant layout modifications.

DROP IN REPLACEMENTS

Benzlers 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

Siemens Flender

Renold

Hansen

SEW

Santasalo

TGW

ENTRY ROLL GEARBOX

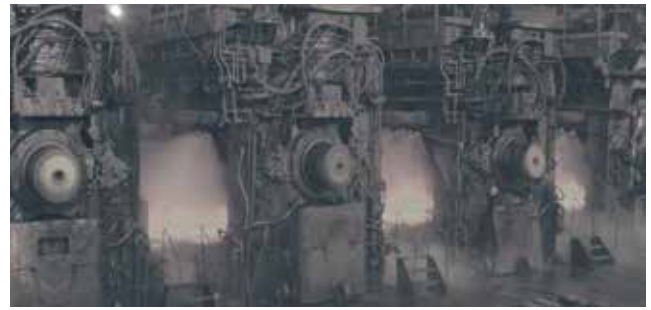


Benzlers recently supplied a drop in replacement to a major UK End User for the manufacture of steel. The requirement was for an existing gearbox to be replaced without any modifications to the surrounding mounting base and equipment.

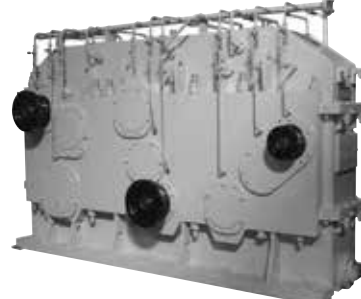
Single helical gearbox with a ratio of 1/1
A single extension solid input shaft and double output shafts

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



Benzlers can 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.

Benzlers dedicated team of application engineer's 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 Benzlers 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

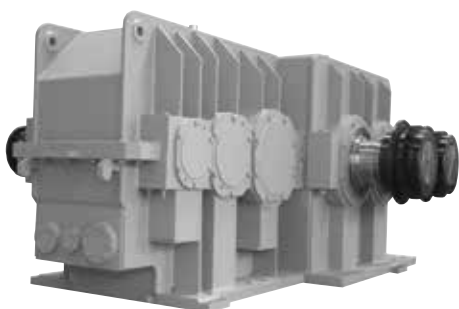
Rubber & Plastics

- Banbury Mixer Drives
- Calendar Drives

Sugar

- Planetary Gearboxes
- Sugar Mill Drives
- Dual Tandem Mill Gearboxes

BANBURY MIXER DRIVE



Benzlers recently completed an order for a replacement Banbury Mixer Drive for a major tyre manufacture in South Africa. The replacement gearbox was designed and manufactured to the exact same specifications as the original gearbox to minimise disruption and downtime.

Helical Gearbox with a single input and two output shafts

Ratio of 15/1

Two 860 kW motors operating at 900 rpm

2 output shafts with centre distances of 622mm.

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

Benzlers and sister company Radicon are now part of Elecon Engineering, 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.

Benzlers - with you at every turn

benzlers 

radicon 

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