SLEW DRIVES

CATALOG

TGB GROUP TECHNOLOGIES

With more than 30 years of experience in slew drives, slewing rings, bearings, gears, and power transmission, TGB Group Technologies has become a global leader in the development and production of motion solutions for the industrial, renewable energy, and linear markets.

Headquartered in Barcelona, TGB has a global presence with factories in China and India, a network of sales offices and warehouses throughout the world, and an R&D department in Barcelona that allows us to offer the best customized solution with the highest quality.

www.tgb-group.com

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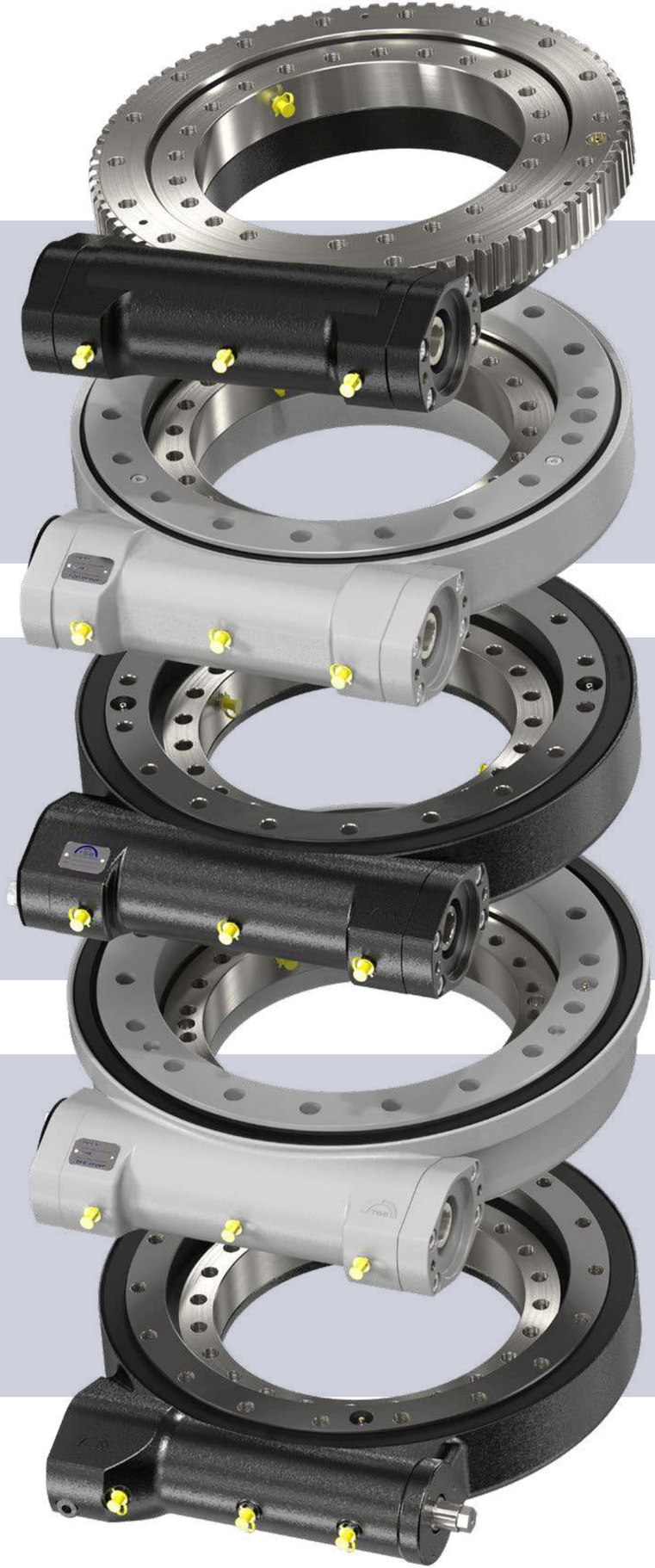


This catalog uses both metric and imperial notation standards, depending on the unit of measurement, to ensure clarity and precision for international users.

METRIC UNITS

For units such as N·m, kN·m, kN, and kg, the following numeric format is used:

1.000.000,00

Period (.) as the thousand separator
Comma (,) as the decimal marker

IMPERIAL UNITS

For units such as ft·lbf, x10³ ft·lbf, x10³ lbf, and lbs, the following numeric format is used:

1,000,000.00

Comma (,) as the thousand separator
Period (.) as the decimal marker

This distinction helps ensure that all technical values are clearly interpreted, avoiding confusion across different regional formats. Please refer to the appropriate format when reading tables, diagrams, and specifications throughout this catalog.

INTRODUCTION

A slew drive is a compact rotary system that provides rotary motion to a structure or object around an axis. It is designed to be installed directly into the customer's application, making it easy to integrate and maintain. Its compact and hermetic design makes it ideal for applications that need to withstand high loads and severe environmental conditions.

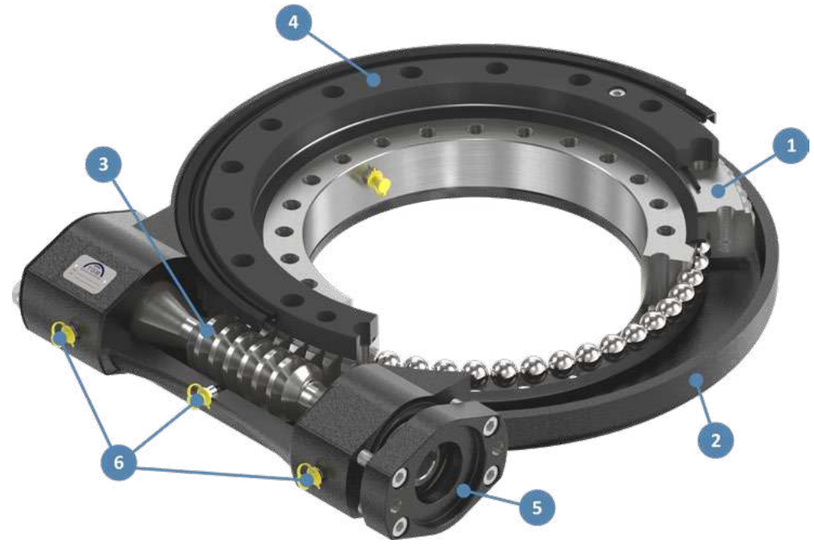
TGB's slew drives are precision-engineered units meticulously matched to ensure optimal performance and reliability. The compact system eliminates the time-consuming and prone process of assembling individual components and conducting adjustments. TGB assumes full responsibility for the system's design and compatibility and can be your source of supply.
Our comprehensive range of slew drives caters to diverse applications and requirements, with various sizes and configurations, usually immediately available in stock.
Also, we are committed to providing customer service and technical support to ensure your satisfaction and the smooth operation of our slew drives.

Slew drives offer a versatile and efficient solution for a variety of applications. With a compact design that optimizes building space, these drives provide exceptional load capacity despite reduced installation space. In addition to being designed for a long service life with low maintenance requirements, their modular structure allows the quick realization of special versions according to customer needs, ensuring easy integration into existing constructions.

All this makes our slew drives an outstanding choice for a wide range of applications around the world

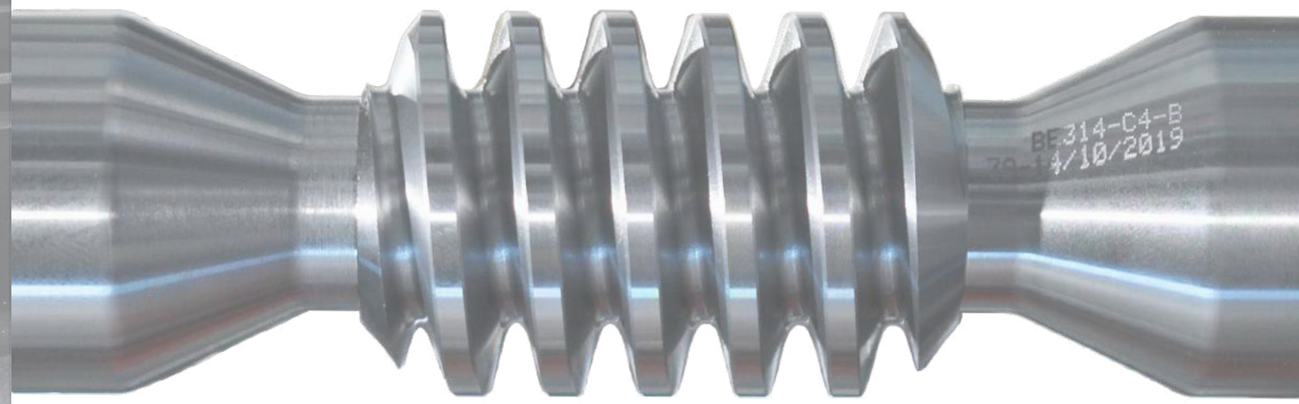
PRODUCT DESCRIPTION

Slew drives are compact rotary systems designed to be installed directly on the customer's applications, which give rotational movement to the structure while at the same time being able to withstand high loads and critical environmental conditions due to its enclosed system.
These rotating systems are composed of a **slewing ring** ①, mounted on or inside a **housing** ②, and assembled with the **screw worm** ③, which is the part in charge of the transmission of the torque to the slewing ring. A **top plate** ④ can be used to give a little thickness and avoid contacts during rotation. Inside that housing, there are also a couple of bearings that hold the screw worm together with their corresponding motor cap and encoder cap, the **motor flanges** ⑤. These caps can be adapted to fit directly a hydraulic motor or a gearbox by means of an adapter flange. The drive has its own **grease nipples** ⑥ that allow the regreasing of the slew drive for maintenance.



WORM-DRIVEN SLEW DRIVES

The worm is operated by an electric, hydraulic or pneumatic motor, and acts as a speed reducer, allowing the slewing ring to move at a speed much lower with respect to the speed of the worm gear. This provides high torque at the output, which is useful for moving heavy loads. An advantage of the worm-driven slew drive is that it can provide very precise motion control and has the ability to self-lock, which means that the slewing ring cannot move the worm, preventing reverse motion.



PRODUCT RANGE OVERVIEW

TGB Group has different slew drive models designed for different kinds of applications.
All the drives can be adapted according to clients requirements, for example, adding splined shafts, slewing rings with double raceway, holes in imperial, double worm drives are available for high torque requirements, etc.

Our product range is characterized by its adaptability, ensuring that whatever your project requires, we have the perfect slew drive model ready to meet the challenge.

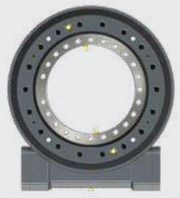
BE Series

Standard series for industrial applications

LBE Series

BE Series light version with aluminum housing for reduced weight

PRO Series

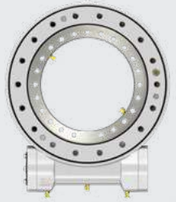


Reinforced design, lowest backlash, best sealing and easy maintenance

TE Series

Withstand high loads, prepared for high holding torque applications and guarantees dust protection

TGE Series



Simple version similar to TE Series with basic sealing between slewing ring and housing

TGO Series

Open version designed for applications requiring gear control and enhanced accessibility

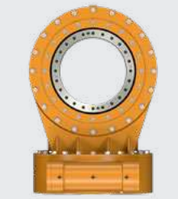
GE Series

Non-self-locking version able to reach higher speeds, withstanding lower loads

LGE Series

LGE Series light version with aluminum housing for reduced weight

DAD Series



Combined vertical and horizontal series to give a full rotational movement in azimuth and zenith directions

PRO Series

Introducing the Next Generation of Precision Slew Drives

A state-of-the-art slew drive that sets a new standard for operational excellence.
TGB's new slew drive is engineered for applications demanding the utmost precision and reliability without the maintenance traditionally associated.

APPLICATION EXAMPLES


Conveyor Belts


Forestry


Excavators

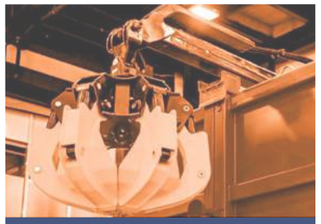

Conveyor Rollers


Sewage Treatment


Cutting Machines


Fairgrounds


Scanners


Lifting Claw


Offshore


Harvesting


Lifting Boat Cranes


Cutting Grass


Coal Mining


Bottling Machines


Aerial Platforms


Harvesting


Lifting Platforms


Gyropalletes


Vacuum Trucks


Single or Double Axis Solar Tracker


Offshore Crane


Forklift Attachments


Olive Harvester


Spider cranes


Lifting boat cranes


Convoy trucks


Demolition


Windmill Service crane


Solar Panel Cleaning


Wind Machines


Grain Bulk Truck


Aerial Platforms


Concrete Pumps


Jet Bridge Finger


Tower Cranes

If your specific application is not listed, our Sales Department will be pleased to assist you in finding the best solution. You can also submit a direct product inquiry for further guidance. For the Inquiry Form, please refer to page 60.

BASIC INSTRUCTIONS

Slewing drives present some characteristics that should be taken into account to choose the proper series for each application.

- **MAXIMUM OUTPUT SPEED**: as a general guideline, it must be less than 1 rpm.
- **STANDARD TEMPERATURE WORKING RANGE**: between -20 and 70 °C.
- **MOUNTING POSITION**: slewing drives can be used both in horizontal and in vertical positions. It is recommended to fix the slew drive when it is installed in vertical position, with the screw worm in the lower position. For other mounting positions, please contact TGB's Technical Department.
- **LOAD DIAGRAM**: show its limit static load with a safety factor of 1. TGB Group recommends adding an application factor to the loads according to the following table. To ensure the drive chosen is the right one, the load case of the application must be below the limit curve.

Application	Application criteria	Application factor
Casting	Extreme application	1,5
Machines for building / Cranes	Extreme application	1,25
Vehicles and mounting on vehicles	Extreme application	1,25
Forklifts / Bulldozers	Light shocks	1,1
Treatment plants	Vibrations	1,25
Wind turbines	Danger of streaking	2,0
Robots	Rigidity	1,25
Antennas	Precision	1,5
Machines-tool	Precision	1,5
Measurement technique	Smooth operation	2,0

Load diagrams are also limited by the bolts. They are only valid if all the bolts of the slewing drive are used to fix it to the structure. The quality of the bolts is considered grade 10.9; the threaded length should be at least 1.5 times the bolt diameter and the recommended flange thickness 2 times the bolt diameter. If the bolt curve does not appear in the chart, this means that this curve is above the slewing ring chart.

In case you have questions regarding the application for breach of any point of the ones mentioned above, or various load cases are applied, we recommend contacting TGB. In case the slewing drive chosen does not adapt to your application, we recommend consulting the slewing ring catalog, as there exist a major variety of products and features.

TGB Group also offers the possibility of making customized designs in case none of the slew drives that appear on this catalog fit for your application. And also provide a complete solution, including motor and gearbox calculations following the loads supplied by the customer according to each application.

TRANSPORT, HANDLING AND STORAGE

Transport only in horizontal position, avoiding possible impacts. The vertical series should be transported and stored in vertical position. The slewing drive should be manipulated carefully, and wear working gloves all the time. The threaded holes can be used to fix eye bolts to handle the slew drive safely with a hoisting device. Store always in horizontal position and in closed rooms. Keep it away from areas where it could get wet.

INSTALLATION

Prior to the installation, a cleaning of the slewing drive and the structure where it is going to be mounted must be done. It is not allowed the use of steam high-pressure systems. Before the installation of the slew drive on the structure, please check the slew drive for physical damage and ensure that the drive moves smoothly. If the slew drive makes noise before installation, please check whether lubrication is good enough. It should be checked that the slewing drive is fully supported by the structure. The supporting surface must accomplish some requirements, considering a maximum flatness deviation. The maximum value for flatness deviation can be reached only once per 180°. The maximum values for a range of sizes of slew drive are shown in the table below.

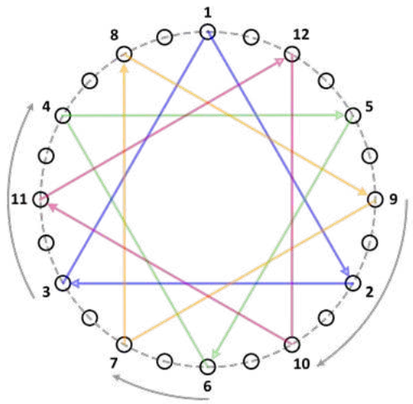
Slew Drive Size		≤ 236	≤ 314	≤ 523	≤ 700
Flatness deviation	mm	0,1	0,12	0,15	0,2
	in	0.004	0.005	0.006	0.008

The slewing drive must be mounted without any external loads. It is convenient to perform working tests in the structure before the loads are applied. The bolts used must be from the dimension, quantity and quality indicated. Bolts with a fully threaded shaft and split washers should not be used. The grip ratio (grip length divided by the diameter of the bolt) shall be observed, from minimum ≥ 2 to maximum ≤ 10 (recommended value 5). The threaded length should be at least 1.5 times the bolt diameter. Slew drive function, lifespan, and durability of the bolt connection are affected in case of non-compliance of the above-mentioned points. On the below table, the recommended tightening torques for each bolt size can be observed.

Mounting bolt dimension	Tightening torque Quality grade 10.9	Mounting bolt dimension	Tightening torque Quality grade 10.9
	N·m		ft·lbf
M6	14	1/4-20 UNC	12
M8	35	5/16-18 UNC	24
M10	69	3/8-16 UNC	45
M12	120	1/2-13 UNC	110
M16	295	5/8-11 UNC	210
M20	580	3/4-10 UNC	380

For tightening the bolts, the following procedure should be followed in order to avoid deviation between bolt tightening forces:

— Slightly apply thread locker to the bolt threads (last three to five filets) to ensure uniform frictional resistance.
— Preload the bolts crosswise in 3 steps:
30%, 80%, and 100% of the tightening torque.
The scheme shows an example of the order to be followed when tightening the bolts.



Once the screw is tightened, mark the surface of the screw and the structure surface

It is useful to inspect the bolts tightening

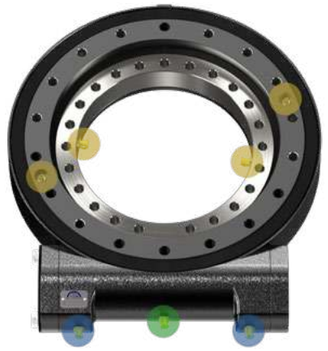
LUBRICATION

For all applications, a proper lubrication is necessary for a smooth operation of the slewing drive. All the TGB Group slew drives are supplied slightly pre-lubricated, but it is always recommended to add grease prior to initial operation. There are three parts that need to be lubricated: the slewing ring raceway, the screw worm and the bearings.

The quantity of grease required is around 60 cc for the screw worm, 10 cc for each tapered roller bearing, and 10 cc each 250 mm of diameter for the slewing ring raceway. See the Installation & Maintenance Manual for precise numbers of each model.

The procedure to regrease consists in injecting grease into all grease nipples one after the other while rotating the slewing drive. The slewing drives must be regreased after each cleaning and also before and after large periods of inactivity.

Re-lubrication is needed to assure a minimum quality on the grease inside the drive. In case no comparative results are available, the following table can be used as a reference.



Slewing ring grease nipples
Tapered bearing grease nipples
Sscrew worm grease nipple

Working conditions	Slewing Ring and Screw Worm Re-lubrication intervals
Rotational speeds < 0,5rpm Non-extreme environmental conditions (solar trackers)	Every 400 hours of operation or once every 12 months
Rotational speeds > 0,5rpm Non-extreme environmental conditions (man lift, industrial applications)	Every 200 hours of operation or once every 6 months
Extreme climatic conditions (sea / desert / Arctic climate / very dirty surroundings) (tunnelling machines / steel mills)	Every 100 hours of operation or once every 3 months
Bearing re-lubrication intervals	
All working conditions	Every 400 hours or every 12 months

MAINTENANCE AND SECURITY CONTROLS

TGB Group recommends retightening the bolts to the prescribed torque after no more than 100 working hours to compensate

for the possible settling. This should be done without external loads applied to the bolt union. This inspection should be repeated from then on every 3 months of working. The frequency of the inspection must be reduced under special working conditions.

INSTALLATION AND MAINTENANCE MANUAL

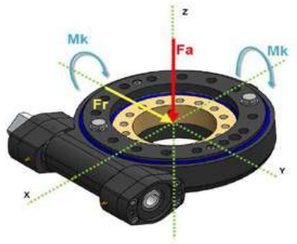
For detailed installation and maintenance instructions, please scan the QR code below. The manual provides step-by-step guidance to ensure proper assembly, safe operation, and long-term performance of your slew drive.

If you have any questions or require further assistance, please do not hesitate to contact our Technical Support Department. Our team is available to help you with any inquiries related to installation, operation, and maintenance.

PROCEDURE FOR SELECTING A SLEW DRIVE

1. DEFINE APPLICATION REQUIREMENTS

— Determine load capacity (axial, radial, and tilting moment)
— Identify operating conditions (speed, temperature, environment)
— Specify mounting and space constraints

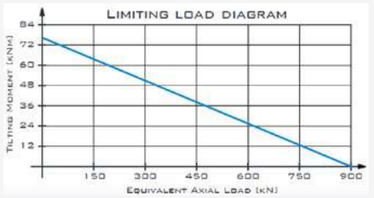


Axial load (F_a)
A load in the z direction (perpendicular to the top plate). It must be known and noted whether the load is applied in the center of rotation or not.
Radial load (F_r)
A load in any direction contained in the plane parallel to the top plate. It must be known and noted whether the load is applied in the center of rotation or not.
Tilting moment (M_k)
Is a moment due to the eccentricity of either an axial or a radial load.

2. MATCH PROJECT NEEDS WITH SLEW DRIVE DATA

— Select worm gear or spur gear based on efficiency, speed requirements, gear ratio and backlash needs
— Decide on enclosed or open housing depending on protection needs
— Selecting a slew drive using the limiting load diagram:

- The operating point, including the application service factor, must lie below the selected curve.
- Check the selected slew drive at TGB Group for service life and static suitability.



For a TGB check of the service life and static suitability of the selected slew drive, please provide us with the **INQUIRY FORM** (see page 40) and a sketch of the application for inspection.

3. SELECT THE APPROPRIATE SLEW DRIVE

Check which drive would offer the best conditions according to your application:

— Available with 3.1 and 3.2 certificates, ensuring compliance with industry standards.
— Surface treatments and coatings as protection options, from C3 to C5M, and hot zinc for offshore applications.
— Our slew drives feature high-quality materials.

	Series	Sizes	Description	Maximum torque kN·m	Maximum torque x10³ ft·lbf	Nominal torque kN·m	Nominal torque x10³ ft·lbf	Holding torque kN·m	Holding torque x10³ ft·lbf	Tilting moment kN·m	Tilting moment x10³ ft·lbf	Radial static load kN	Radial static load x10³ lbf	Axial static load kN	Axial static load x10³ lbf	Output speed rpm	Product Image
driven by screw worm	BE and LBE	100 130 236 (-2B) 314 (-2B) 435 (-2B) 500 523 (-2B) 600 (-2B) 700 (-2B) 702-2B	Standard series for industrial applications (LBE is light version with aluminum housing)	from 0,64 to 42,82	from 0.47 to 31.58	from 0,25 to 42,82	from 0.18 to 31.58	from 0,95 to 75,00	from 0.70 to 55.32	from 1,60 to 540,00	from 1.18 to 398.28	from 15,00 to 1600,00	from 3.37 to 359.70	from 10,20 to 4000,00	from 2.29 to 899.24	1	
	PRO	314 435 500 600	Reinforced design, lowest backlash, best sealing and easy maintenance	from 9,30 to 30,00	from 6.86 to 22.13	from 7,90 to 25,00	from 5.83 to 18.44	from 30,00 to 50,00	from 22.13 to 36.88	from 27,50 to 203,00	from 20.28 to 149.78	from 204,00 to 675,00	from 45.86 to 151.75	from 547,00 to 1808,00	from 122.97 to 406.46	1	
	TE	160 236 (-2B) 314 435 436-2 523 524-2 639 (-2B) (-2-2B) 638-2 770 (-2) (-2-2B)	Withstand high loads, prepared for high holding torque applications and guarantees dust protection	from 1,20 to 67,52	from 0.89 to 49.80	from 0,60 to 52,74	from 0.44 to 38.90	from 5,00 to 275,00	from 3.69 to 202.83	from 7,10 to 540,00	from 5.24 to 398.28	from 64,00 to 1600,00	from 14.39 to 359.70	from 84,00 to 4000,00	from 18.88 to 899.24	< 1,50	
	TGO	400 435 523 639 920	Open version designed for applications requiring gear control and enhanced accessibility	from 10,50 to 30,50	from 7.74 to 22.50	from 7,50 to 23,50	from 5.53 t o 17.33	from 37,00 to 95,20	from 27.29 to 70.27	from 52,00 to 326,00	from 38.35 to 240.45	from 222,00 to 640,00	from 49.91 to 143.88	from 740,00 to 1710,00	from 166.36 to 384.43	1	
	GE and LGE	236 314 435 523	Non-selflocking version (LGE is light version with aluminum housing)	from 3,28 to 15,30	from 2.42 to 11.28	from 2,52 to 7,57	from 1.86 to 5.58	from 12,60 to 18,30	from 9,29 to 13.50	from 13,00 to 105,00	from 9.59 to 77.44	from 156,00 to 413,00	from 35.07 to 92.85	from 366,00 to 1170,00	from 82.28 to 263.03	< 2	
	DAD	160 5 6 8S	Dual axis drive, combines vertical and horizontal series to give a full rotation in azimuth and zenith directions	from 1,20 to 50,00	from 0.89 to 36.88	from 0,60 to 28,00	from 0.44 to 20.65	from 5,00 to 105,00	from 3.69 to 77.44	from 7,10 to 340,00	from 5.24 to 250.77	from 64,00 to 1242,00	from 14.39 to 279.21	from 84,00 to 2755,00	from 18.88 to 619.35	1	
driven by pinion	TGP	Light 229 - 1091 Medium 311- 1091 Heavy 455- 955	Allows efficiency in power transmission and results in higher speeds	from 3,06 to 52,93	from 2.26 to 39.04	from 2,66 to 37,07	from 1.96 to 27.34	from 3,06 to 52,93	from 2.26 to 39.04	from 22,50 to 545,00	from 16.60 to 402.96	from 162,00 to 1145,00	from 36.42 to 257.41	from 471,00 to 3066,00	from 105.89 to 689.27	< 87	

*-2B: double ball row *-2: double screw worm *-2-2B: double ball row and screw worm

PRE-SALES

KNOW-HOW

Driving Your Project to Success

Our pre-sales services are designed to support the success of your project by providing expert technical guidance and assistance. With our team's extensive experience, we help you through every stage of the process, from conceptualization to full integration.

— Technical Consulting
— Design and Calculation
— Construction and Drafting
— FE Analysis
— Product Training Courses

We are committed to addressing all critical factors to meet the diverse demands of various applications.

AFTER SALES

SUPPORT

Expert Assistance Beyond Project Completion

Our after-sales services ensure long-term success and optimal performance for your slew drives, providing continuous support even after your project is completed.

— Installation Support
— Optimization Advice
— Repair and Maintenance
— Lubricant Analysis & Sealing Assessment
— Component Testing
— Bolting Inspection
— Express Spare Parts Service
— Long-Term Packaging

We ensure your slew drive systems perform optimally throughout their lifespan.

INDUSTRIAL SERIES

BE AND LBE SERIES

DESCRIPTION

BE

It consists of a straight screw worm and a slewing ring, which guarantees a smooth and controlled rotation of the slew drive by utilizing the maximum holding torque that the teeth can withstand.
This kind of slew drive includes an external lip seal that provides higher protection against dust and water.

MAIN FEATURES

- NBR Lip Seal
- IP 65
- Supplied in different colors
- Supplied with paint for extra corrosion protection
- Sizes in Metric and Imperial
- Different shaft types (keyed or splined)

LBE

Low-weight drives with the same geometry and dimensions as the BE drives. It has a housing of aluminum, which reduces considerably the slew drive weight and allows using it in special applications where weight is critical. It also includes an external lip seal.

MAIN FEATURES

- NBR Lip Seal
- Aluminum housing
- IP 65
- Supplied in different colors
- Supplied with paint for extra corrosion protection
- Sizes in Metric and Imperial
- Different shaft types (keyed or splined)

CODE DESCRIPTION

BE AND LBE SLEW DRIVES

Slew drive type
BE
LBE

Model
100
130
236
314
435
500
523
600
700
…

Version
Nothing
2B
2
2-2B

Version
Nothing
1.

Number of teeth
Z
1
2
3
4
5
6
7
8
…

Paint
Nothing
.1
.2
.3
.4
.5
.6
.7
…

Lubrication
Nothing
L

Motor position
R
L

Slewing ring thread type
M
I

Slewing ring thread type
M metric
I imperial

Motor position
R right side
L left side

Lubrication
Nothing relubricate before use
L ready to work

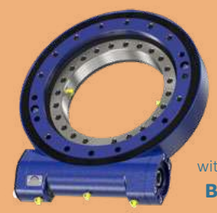
Paint
Nothing no paint color
.Number with paint color

Version
Nothing standard grease
1. low temperature grease

Version
Nothing single ball row
2 double worm
2B double ball row
2-2B double worm and double ball row

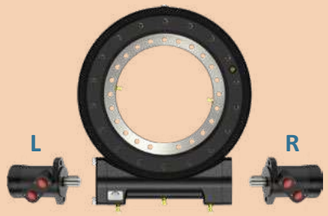
Model
Slew drive type

Example

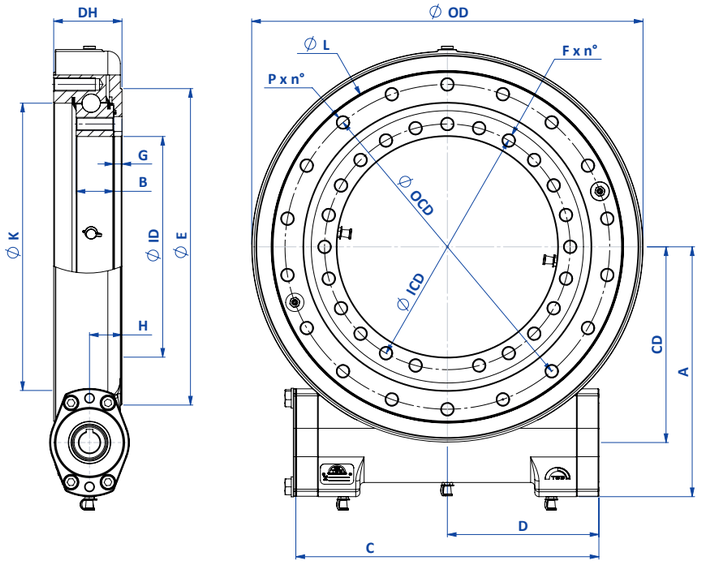


with paint specification
BE435-Z1.3-RM

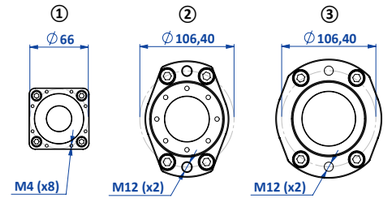
Motor position



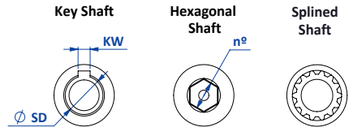
BE SERIES



FLANGE TYPES



SHAFT TYPES



DIMENSIONS

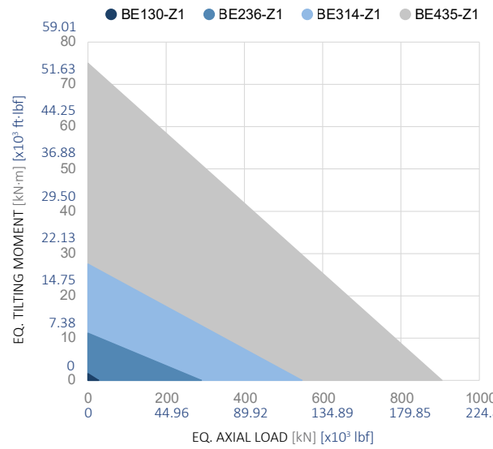
	BE130-Z1		BE236-Z1		BE314-Z1		BE435-Z1		BE500-Z0		BE523-Z1		BE600-Z1		BE700-Z1	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Ø OD	155	6.10	270	10.63	370	14.57	470	18.50	506	19.92	559	22.01	612	24.09	770	30.31
Ø ID	-	-	98	3.86	145	5.71	265	10.43	300	11.81	324	12.76	380	14.96	525	20.67
Ø OCD	100	3.94	190	7.48	270	10.63	390	15.35	420	16.54	480	18.90	520	20.47	675	26.57
P x n°	M10 ↓25 mm x 6		M12 ↓25 mm x 8		M16 ↓30 mm x 16		M16 ↓50 mm x 18		M16 ↓25 mm x 24		M16 ↓30 mm x 20		M16 ↓32 mm x 32		M20 ↓35 mm x 24	
Ø ICD	100	3.94	120,50	4.74	175	6.89	295	11.61	330	12.99	365	14.37	420	16.54	565	22.24
F x n°	M10 ↓25 mm x 6		M12 x 10		M16 x (16-1)		M16 x (24-1)		Ø17 mm x (24-1)		M16 x 20		M16 ↓32 mm x (32-1)		M20 ↓35 mm x 24	
DH	90	3.54	82	3.23	82	3.23	82	3.23	88,50	3.48	82	3.23	108	4.25	130	5.12
CD	80	3.15	135	5.31	175	6.89	235	9.25	255,18	10.04	282	11.10	305	12.01	392	15.43
A	114	4.49	199,50	7.85	239,50	9.43	299,50	11.79	319,68	12.58	346,50	13.64	369,50	14.55	458	18.03
B	-	-	45	1.77	45	1.77	45	1.77	52,50	2.07	45	1.77	62	2.44	60	2.36
C	164	6.46	304	11.97	344	13.54	364	14.33	372	14.65	390	15.35	424	16.69	454	17.87
D	82	3.23	152	5.98	172	6.77	182	7.17	186	7.32	195	7.68	212	8.35	227	8.94
Ø E	124	4.88	190	7.48	250	9.84	380	14.96	399	15.71	460	18.11	480	18.90	625	24.61
G	10	0.39	10	0.39	10	0.39	10	0.39	10	0.39	10	0.39	18	0.71	21	0.83
H	45	1.77	39	1.54	39	1.54	39	1.54	39	1.54	39	1.54	56	2.20	61	2.40
Ø K	80	3.15	163	6.42	225	8.86	345	13.58	378	14.88	422	16.61	480	18.90	627	24.69
Ø L	120	4.72	220	8.66	320	12.60	420	16.54	460	18.11	510	20.08	550	21.65	715	28.15

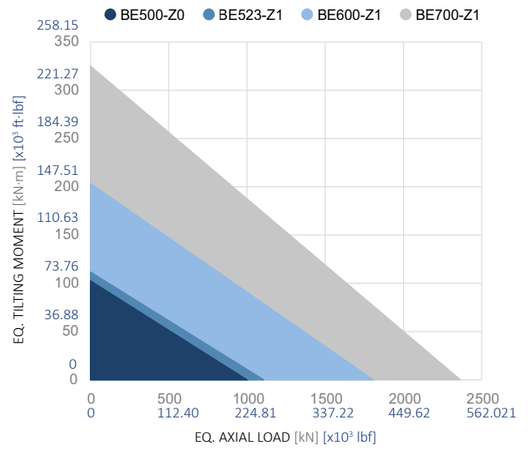
FLANGES and SHAFTS

	BE130-Z1		BE236-Z1		BE314-Z1		BE435-Z1		BE500-Z0		BE523-Z1		BE600-Z1		BE700-Z1	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
KW	4	0.16	8	0.31	8	0.31	8	0.31	8	0.31	8	0.31	8	0.31	10	0.39
Ø SD	12	0.47	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98	32	1.26
Input	Flange ① Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ③ Key Shaft	
Output	Flange ① Hex. 10 mm Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Hex. 22 mm Shaft		Flange ② Key Shaft		Flange ② Key Shaft		See Drawing Flange ③	

SIZES

MOMENT LOADING CHARTS

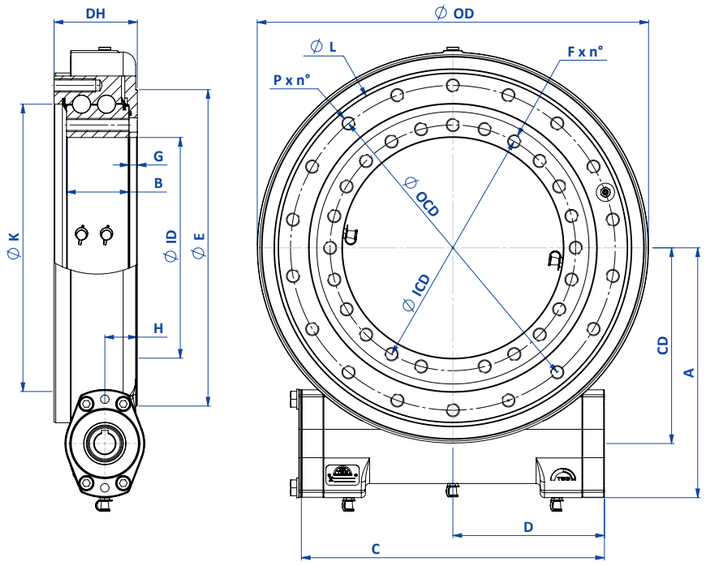




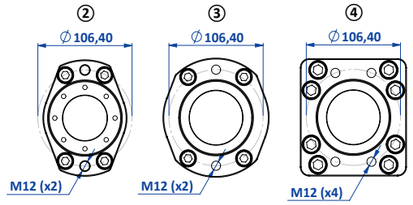
RATINGS

		BE130-Z1	BE236-Z1	BE314-Z1	BE435-Z1	BE500-Z0	BE523-Z1	BE600-Z1	BE700-Z1
Min. input torque	N·m	2 - 6	2 - 6	2 - 10	2 - 10	2 - 10	2 - 10	2 - 10	2 - 10
	ft·lbf	1.48 - 4.43	1.48 - 4.43	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38
Gear ratio		62:1	44:1	61:1	85:1	92:1	103:1	92:1	102:1
Efficieny		30 %	40 %	40 %	40 %	40 %	40 %	40 %	40 %
Max. torque	kN·m	0,80	6,50	9,10	12,31	16,20	15,60	30,00	42,82
	x10³ ft·lbf	0.59	4.79	6.71	9.08	11.95	11.50	22.13	31.58
Nominal torque	kN·m	0,40	3,38	4,48	10,20	12,00	14,70	25,00	42,82
	x10³ ft·lbf	0.30	2.49	3.30	7.52	8.85	10.84	18.44	31.58
Holding torque	kN·m	0,95	25,00	34,00	39,00	50,00	55,00	50,00	75,00
	x10³ ft·lbf	0.70	18.44	25.08	28.76	36.88	40.57	36.88	55.32
Tilting moment	kN·m	1,60	11,20	27,50	75,00	102,40	111,60	203,40	325,00
	x10³ ft·lbf	1.18	8.26	20.28	55.32	75.53	82.31	150.02	239.71
Radial static load	kN	15,00	94,00	204,00	338,00	380,00	413,00	675,00	883,00
	x10³ lbf	3.37	21.13	45.86	75.99	85.43	92.85	151.75	198.51
Axial static load	kN	27,00	290,00	547,00	905,00	1000,00	1107,00	1808,00	2364,00
	x10³ lbf	6.07	65.19	122.97	203.45	224.81	248.86	406.46	531.45
Max. output speed	rpm	1	1	1	1	1	1	1	1
Weight	Kg	10,27	30,06	44,86	60,83	67,51	81,38	106,23	170,52
	lbs	22.64	66.27	98.90	134.11	148.83	179.41	234.20	375.93
Paint		RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005

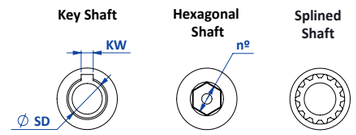
BE-2B SERIES



FLANGE TYPES



SHAFT TYPES



DIMENSIONS

	BE236-2B-Z1		BE314-2B-Z1		BE435-2B-Z1		BE523-2B-Z1		BE600-2B-Z1		BE700-2B-Z14		BE702-2B-Z1	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Ø OD	270	10.63	370	14.57	470	18.50	559	22.01	612	24.09	770	30.31	770	30.31
Ø ID	98	3.86	145	5.71	265	10.43	324	12.76	380	14.96	525	20.67	525	20.67
Ø OCD	190	7.48	270	10.63	390	15.35	480	18.90	520	20.47	675	26.57	675	26.57
P x n°	M12 ↓24 mm x 8		M16 ↓30 mm x 16		M16 ↓40 mm x 18		M16 ↓32 mm x 20		M16 ↓32 mm x 32		M20 ↓35 mm x 36		M20 ↓40 mm x 36	
Ø ICD	120,50	4.74	175	6.89	295	11.61	365	14.37	420	16.54	565	22.24	565	22.24
F x n°	M12 ↓24 mm x 10		M16 ↓30 mm x (16-2)		M16 x (24-1)		M16 ↓45 mm x 20		M16 ↓30 mm x (32-1)		M20 ↓35 mm x (36-1)		M20 ↓40 mm x (36-1)	
DH	107	4.21	100	3.94	100	3.94	100	3.94	130	5.12	157	6.18	155	6.10
CD	135	5.31	175	6.89	235	9.25	282	11.10	305	12.01	392	15.43	392	15.43
A	199,50	7.85	239,50	9.43	299,50	11.79	346,50	13.64	369,50	14.55	458	18.03	457	17.99
B	73	2.87	75	2.95	75	2.95	77	3.03	82	3.23	107	4.21	107	4.21
C	304	11.97	344	13.54	364	14.33	390	15.35	424	16.69	454	17.87	470	18.50
D	152	5.98	172	6.77	182	7.17	195	7.68	212	8.35	227	8.94	235	9.25
Ø E	190	7.48	250	9.84	380	14.96	460	18.11	480	18.90	625	24.61	625	24.61
G	10	0.39	10	0.39	10	0.39	10	0.39	18	0.71	21	0.83	30	1.18
H	39	1.54	39	1.54	39	1.54	39	1.54	56	2.20	61	2.40	65	2.56
Ø K	163	6.42	225	8.86	345	13.58	422	16.61	480	18.90	627	24.69	622	24.49
Ø L	220	8.66	320	12.60	420	16.54	510	20.08	550	21.65	715	28.15	715	28.15

FLANGES and SHAFTS

	BE236-2B-Z1		BE314-2B-Z1		BE435-2B-Z1		BE523-2B-Z1		BE600-2B-Z1		BE700-2B-Z14		BE702-2B-Z1	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
KW	8	0.31	8	0.31	8	0.31	8	0.31	8	0.31	10	0.39	10	0.39
Ø SD	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98	32	1.26	32	1.26
Input	Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ③ Key Shaft		Flange ④ Key Shaft	
Output	Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ③ Key Shaft		Flange ④ Key Shaft	

SIZES

BE236-2B-Z1

BE314-2B-Z1

BE435-2B-Z1

BE523-2B-Z1

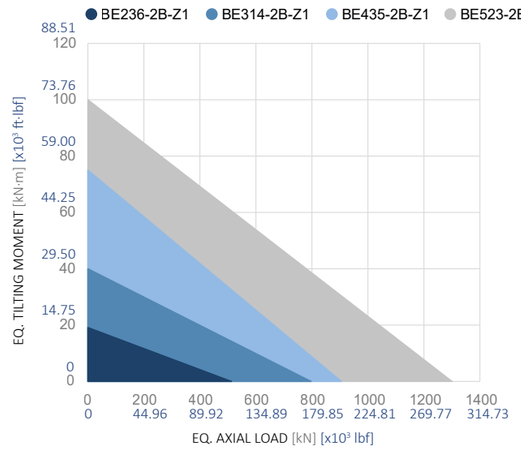
BE600-2B-Z1

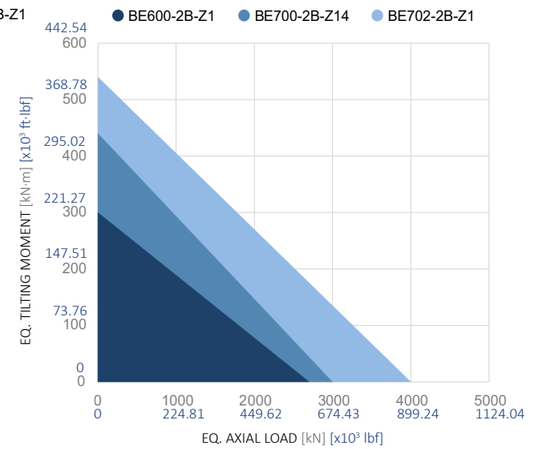
BE700-2B-Z14

Option with reinforced flange. For more information, please contact us.

BE702-2B-Z1

MOMENT LOADING CHARTS

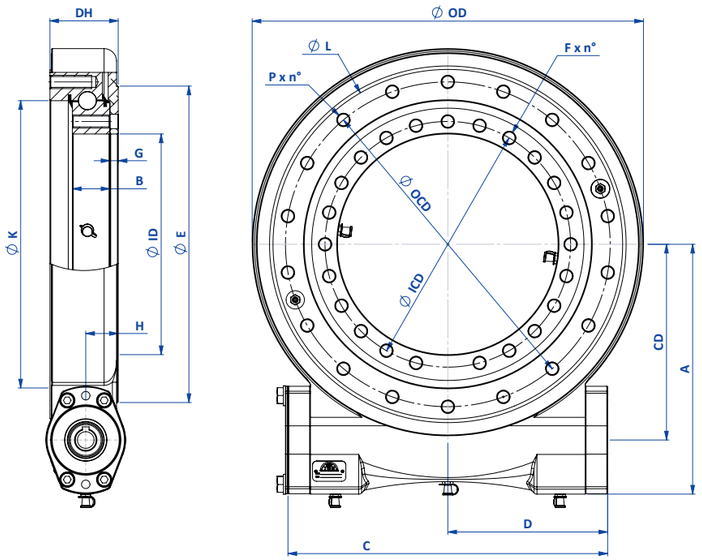




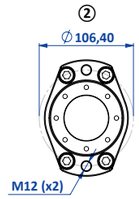
RATINGS

		BE236-2B-Z1	BE314-2B-Z1	BE435-2B-Z1	BE523-2B-Z1	BE600-2B-Z1	BE700-2B-Z14	BE702-2B-Z1
Min. input torque	N·m	2 - 6	2 - 10	2 - 10	2 - 10	2 - 10	2 - 10	2 - 10
	ft·lbf	1.48 - 4.43	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48- 7.38	1.48 - 7.38
Gear ratio		44:1	61:1	85:1	103:1	92:1	102:1	121:1
Efficieny		40 %	40 %	40 %	40 %	40 %	40 %	40 %
Max. torque	kN·m	6,50	9,10	12,31	15,60	30,00	42,82	15,36
	x10³ ft·lbf	4.79	6.71	9.08	11.51	22.13	31.58	11.33
Nominal torque	kN·m	3,38	4,48	10,20	14,70	25,00	42,82	15,36
	x10³ ft·lbf	2.49	3.30	7.52	10.84	18.44	31.58	11.33
Holding torque	kN·m	25,00	34,00	39,00	55,00	50,00	75,00	70,00
	x10³ ft·lbf	18.44	25.08	28.76	40.57	36.88	55.32	51.63
Tilting moment	kN·m	19,10	40,00	100,00	140,50	300,00	440,00	540,00
	x10³ ft·lbf	14.09	29.5	73.76	103.63	221.27	324.53	398.28
Radial static load	kN	200,00	297,00	500,00	560,00	1050,00	883,00	1600,00
	x10³ lbf	44.96	66.77	112.4	125.89	236.05	198.51	359.69
Axial static load	kN	513,00	797,00	1300,00	1500,00	2700,00	3000,00	4000,00
	x10³ lbf	115.33	179.17	292.25	337.21	606.98	674.43	899.24
Max. output speed	rpm	1	1	1	1	1	1	1
Weight	Kg	35,16	55,50	74,20	99,99	126,91	212,91	233,34
	lbs	77.51	122.36	163.58	220.44	279.79	469.39	514.43
Paint		RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005

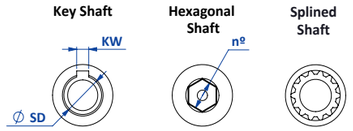
LBE SERIES



FLANGE TYPES



SHAFT TYPES



DIMENSIONS

	LBE100-Z0		LBE236-Z1		LBE314-Z1		LBE435-Z1		LBE500-Z0	
	mm	in	mm	in	mm	in	mm	in	mm	in
Ø OD	129	5.08	271	10.67	351	13.82	470	18.50	506	19.92
Ø ID	20	0.79	98	3.86	145	5.71	265	10.43	300	11.81
Ø OCD	82	3.23	190	7.48	270	10.63	390	15.35	420	16.54
P x n°	M10 ↓24 mm x 16		M12 ↓20 mm x 8		M16 ↓30 mm x 16		M16 ↓50 mm x 18		M16 ↓25 mm x 24	
Ø ICD	82	3.23	120,50	4.74	175	6.89	295	11.61	330	12.99
F x n°	M10 x 8		M12 ↓45 mm x 10		M16 x (16-1)		M16 x (24-1)		Ø17 mm x (24-1)	
DH	81	3.19	82	3.23	82	3.23	82	3.23	88,50	3.48
CD	64,10	2.52	135	5.31	175	6.89	235	9.25	255,18	10.04
A	112,60	4.43	199,50	7.85	239,50	9.43	299,50	11.79	319,68	12.58
B	-	-	45	1.77	45	1.77	45	1.77	52,50	2.07
C	164	6.46	314	12.36	344	13.54	384	15.12	372	14.65
D	84	3.31	157	6.18	172	6.77	192	7.56	186	7.32
Ø E	-	-	190	7.48	240	9.45	380	14.96	400	15.75
G	10	0.39	10	0.39	10	0.39	10	0.39	10	0.39
H	43	1.69	39	1.54	39	1.54	39	1.54	39	1.54
Ø K	65	2.56	163	6.42	225	8.86	345	13.58	378	14.88
Ø L	100	3.94	227	8.93	320	12.60	420	16.54	460	18.11

FLANGES and SHAFTS

	LBE100-Z0		LBE236-Z1		LBE314-Z1		LBE435-Z1		LBE500-Z0	
	mm	in	mm	in	mm	in	mm	in	mm	in
KW	5	0.20	8	0.31	8	0.31	8	0.31	8	0.31
Ø SD	16	0.63	25	0.98	25	0.98	25	0.98	25	0.98
Input	Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft	
Output	See Drawing		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Hex. 22 mm Shaft	

SIZES

LBE100-Z0

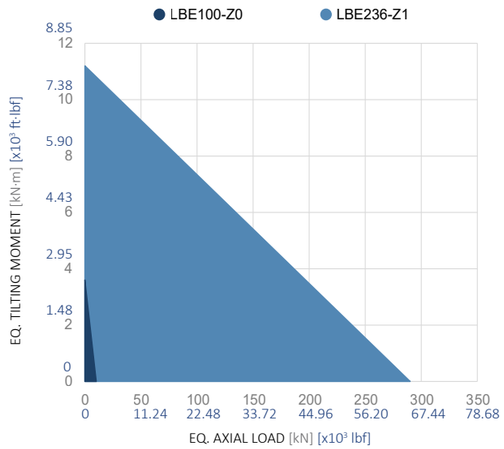
LBE236-Z1

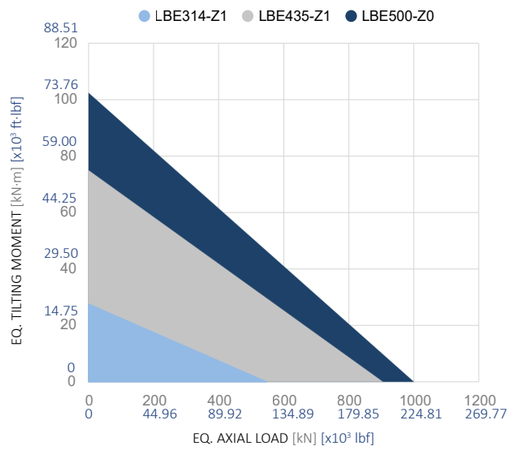
LBE314-Z1

LBE435-Z1

LBE500-Z0

MOMENT LOADING CHARTS





RATINGS

		LBE100-Z0	LBE236-Z1	LBE314-Z1	LBE435-Z1	LBE500-Z0
Min. input torque	N·m	2 - 3	2 - 10	2 - 10	2 - 10	2 - 10
	ft·lbf	1.48 - 2.21	1.48- 7.38	1.48- 7.38	1.48- 7.38	1.48- 7.38
Gear ratio		54:1	44:1	61:1	85:1	92:1
Efficieny		30 %	40 %	40 %	40 %	40 %
Max. torque	kN·m	0,64	6,50	9,10	12,30	16,20
	x10³ ft·lbf	0.47	4.79	6.71	9.07	11.95
Nominal torque	kN·m	0,25	3,38	4,48	10,20	12,00
	x10³ ft·lbf	0.18	2.49	3.30	7.52	8.85
Holding torque	kN·m	3,00	25,00	28,00	33,50	18,50
	x10³ ft·lbf	2.21	18.44	20.65	24.71	13.64
Tilting moment	kN·m	3,60	11,20	27,50	75,00	102,40
	x10³ ft·lbf	2.66	8.26	20.28	55.32	75.53
Radial static load	kN	18,10	94,00	204,00	338,00	380,00
	x10³ lbf	4.07	21.13	45.86	75.99	85.43
Axial static load	kN	10,20	290,00	547,00	905,00	1000,00
	x10³ lbf	2.29	65.19	122.97	203.45	224.81
Max. output speed	rpm	1	1	1	1	1
Weight	Kg	5,49	22,59	34,99	47,17	53,33
	lbs	12.1	49.8	77.14	103.99	117.57
Paint		RAL9005	RAL9005	RAL9005	RAL9005	RAL9005

TE AND TGE SERIES

DESCRIPTION

TE

Consists of a globoid screw worm and a helical slewing ring, providing a high contact ratio between the worm teeth and the slewing ring teeth. This allows the slew drive series to withstand high holding torques, which is critical for solar tracker applications where the drive must resist high loads due to wind gusts.
This series includes an external lip seal to provide higher protection against dust and water.

MAIN FEATURES

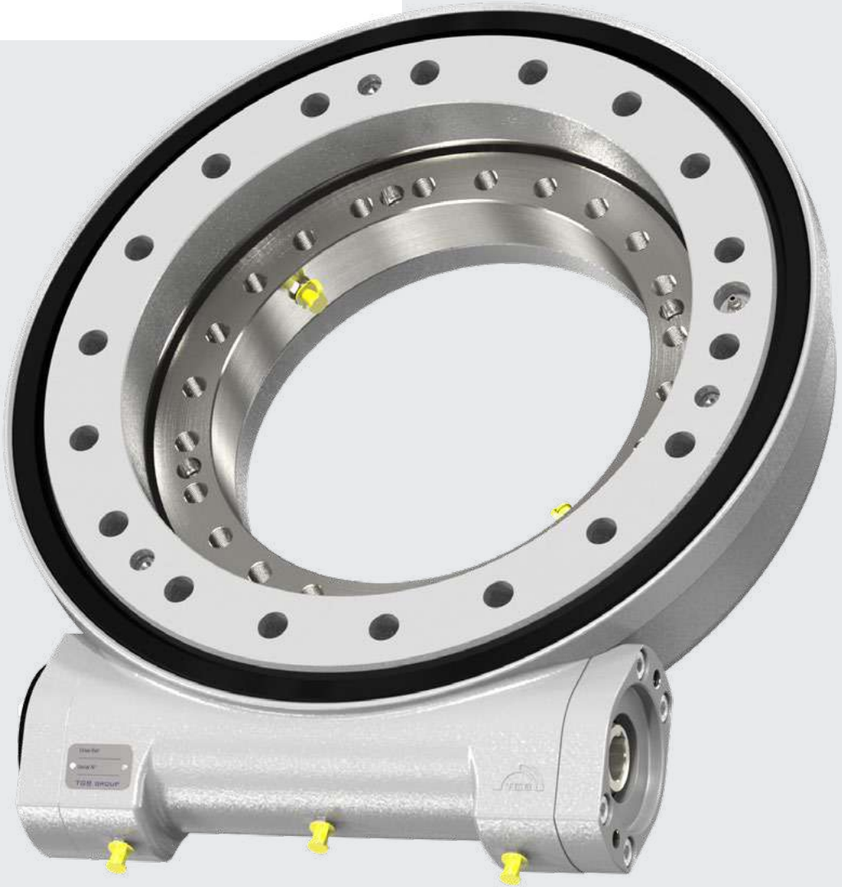
- Double worm option for higher torques
- NBR Lip Seal
- IP 65
- Supplied in different colors
- Supplied with paint for extra corrosion protection
- Sizes in Metric and Imperial
- Different shaft types (keyed or splined)

TGE

They are the most standard and cost-effective slew drives, featuring a basic seal to protect the internal components. These drives consist of a helical slewing ring combined with a globoid screw worm, which can withstand high loads due to the increased number of teeth in contact between both parts. They are suitable for standard applications where no special environmental protection is required.

MAIN FEATURES

- Supplied in different colors
- Supplied with paint for extra corrosion protection
- Sizes in Metric and Imperial
- Different shaft types (keyed or splined)



CODE DESCRIPTION

TE AND TGE SLEW DRIVES

Slew drive type	Model		Version		Motor position	
TE TGE	100 130 236 314 435 500 523 600 700 …	Nothing 2B 2 2-2B	Nothing 1.	Z 1 2 3 4 5 6 7 8 …	Nothing .1 .2 .3 .4 .5 .6 .7 …	Nothing L	R L	M I

Slewing ring thread type
M metric
I imperial

Motor position
R right side
L left side

Nothing relubricate before use
L ready to work

Nothing no paint color
.Number with paint color

Version

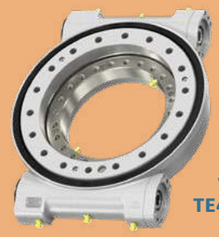
Nothing standard grease
1. low temperature grease

Nothing single ball row
2 double worm
2B double ball row
2-2B double worm and double ball row

Model

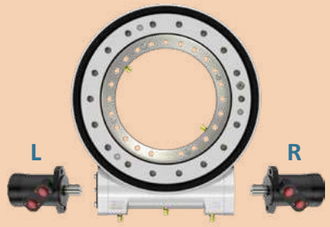
Slew drive type

Example

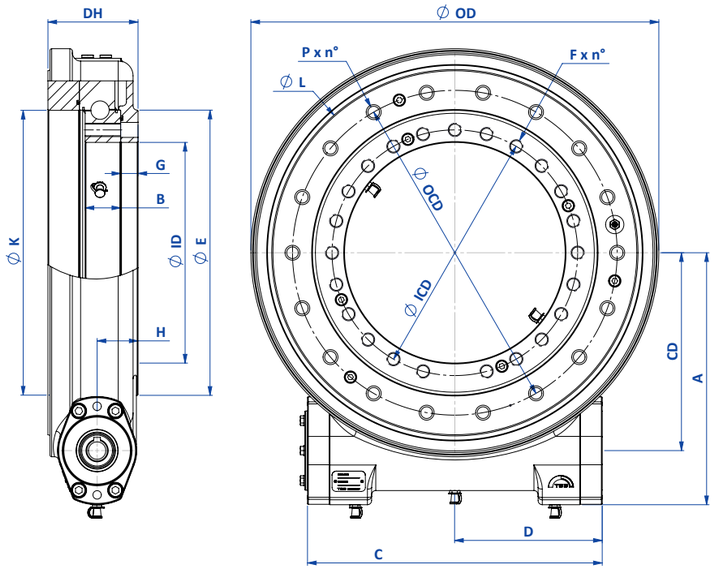


with double worm
TE436-2-Z1-RM

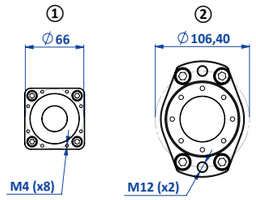
Motor position



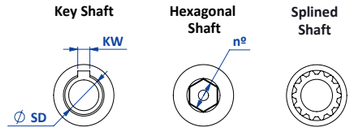
TE SERIES



FLANGE TYPES



SHAFT TYPES



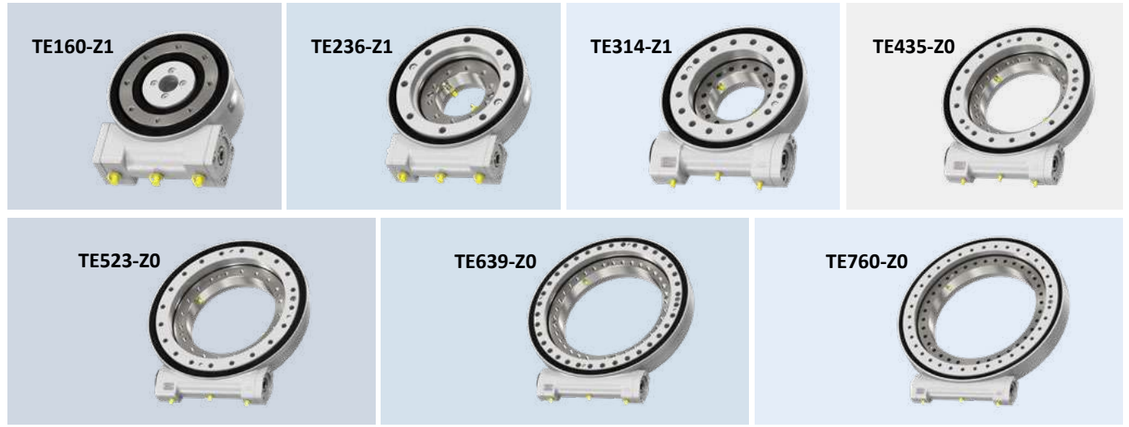
DIMENSIONS

	TE160-Z1		TE236-Z1		TE314-Z0		TE435-Z0		TE523-Z0		TE639-Z0		TE760-Z0	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Ø OD	188	7.40	268	10.55	370	14.57	490	19.29	580	22.83	672	26.46	795	31.30
Ø ID	30	1.18	98	3.86	145	5.71	265	10.43	324	12.76	432	17.01	512	20.16
Ø OCD	130	5.12	203,20	8.00	270	10.63	390	15.35	480	18.90	584	22.99	675	26.57
P x n°	M10 ↓20 mm x 8		M12 ↓25 mm x 8		M16 ↓30 mm x 16		M16 ↓32 mm x 18		M16 ↓32 mm x 20		M20 ↓40 mm x 36		M20 ↓35 mm x 36	
Ø ICD	155	6.10	120,60	4.75	175	6.89	295	11.61	365	14.37	465	18.31	565	22.24
F x n°	M10 ↓18 mm x 8		M12 x 10		M16 x (16-1)		M16 x (24-1)		M16 x 20		M20 x (36-1)		M20 x (36-1)	
DH	86,30	3.40	83,50	3.29	108	4.25	109	4.29	111,50	4.39	123	4.84	125	4.92
CD	93,70	3.69	132,70	5.22	174,16	6.86	237,59	9.35	275,47	10.84	339,10	13.35	401,89	15.82
A	127,70	5.03	166,70	6.56	238,66	9.40	302,09	11.89	339,97	13.39	403,60	15.89	466,39	18.36
B	-	-	36	1.42	44	1.73	43	1.69	48	1.89	57	2.24	60	2.36
C	184	7.24	204	8.03	339	13.35	354	13.94	390	15.35	429	16.89	474	18.66
D	92	3.62	102	4.02	169,50	6.67	177	6.97	195	7.68	214,50	8.45	237	9.33
Ø E	178	7.01	163	6.42	222,50	8.76	342,50	13.49	412	16.22	525	20.67	640	25.20
G	15,50	0.61	15	0.51	22	0.87	21	0.83	19,50	0.77	27	1.06	30	1.18
H	40,50	1.59	37,50	1.48	50	1.97	49,50	1.95	51,50	2.03	57,50	2.26	60	2.36
Ø K	110	4.33	163	6.42	222	8.74	342	13.46	422	16.61	525	20.67	630	24.80
Ø L	150	5.91	230	9.06	320	12.60	440	17.32	520	20.47	615	24.21	740	29.13

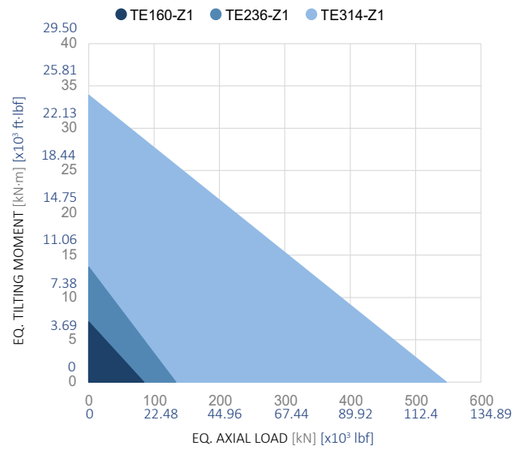
FLANGES and SHAFTS

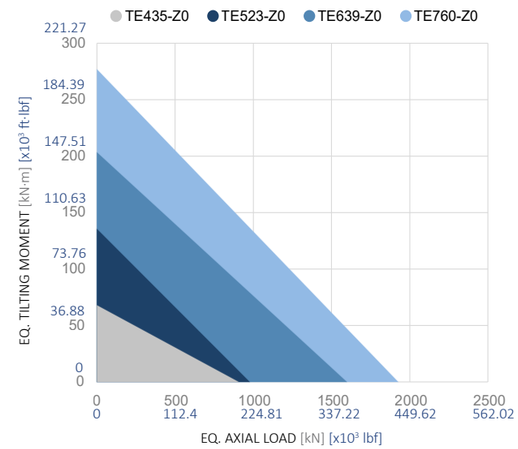
	TE160-Z1		TE236-Z1		TE314-Z0		TE435-Z0		TE523-Z0		TE639-Z0		TE760-Z0	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
KW	4	0.16	5	0.20	8	0.31	8	0.31	8	0.31	8	0.31	8	0.31
Ø SD	12	0.47	16	0.63	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98
Input	Flange ① Key Shaft		Flange ① Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft	
Output	See Drawing		Flange ① Hex. 10 mm Shaft		Flange ② Hex. 24 mm Shaft		Flange ② Hex. 24 mm Shaft		Flange ② Hex. 24 mm Shaft		Flange ② Hex. 24 mm Shaft		Flange ② Hex. 24 mm Shaft	

SIZES



MOMENT LOADING CHARTS

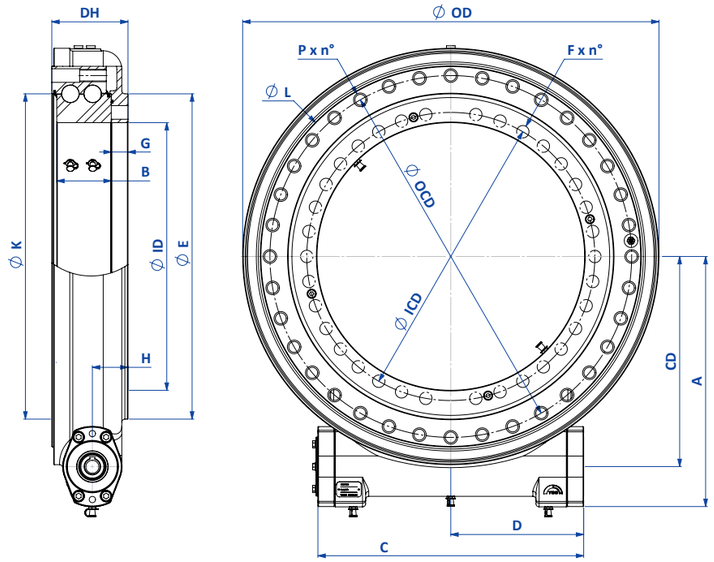




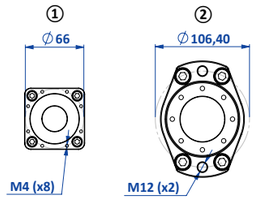
RATINGS

		TE160-Z1	TE236-Z1	TE314-Z0	TE435-Z0	TE523-Z0	TE639-Z0	TE760-Z0
Min. input torque	N·m	2 - 6	2 - 6	2 - 10	2 - 10	2 - 10	2 - 10	2 - 10
	ft·lbf	1.48 - 4.43	1.48 - 4.43	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48- 7.38	1.48 - 7.38
Gear ratio		62:1	71:1	61:1	85:1	102:1	125:1	150:1
Efficiency		30 %	40 %	40 %	40 %	40 %	40 %	40 %
Max. torque	kN·m	1,20	1,46	8,84	12,31	18,03	30,50	45,32
	x10³ ft·lbf	0.89	1.08	6.52	9.08	13.3	22.5	33.43
Nominal torque	kN·m	0,60	1,04	7,32	10,20	15,10	23,50	35,26
	x10³ ft·lbf	0.44	0.77	5.40	7.52	11.14	17.33	26.01
Holding torque	kN·m	5,00	9,40	35,00	43,20	65,10	95,20	142,50
	x10³ ft·lbf	3.69	6.93	25.81	31.86	48.02	70.22	105.10
Tilting moment	kN·m	7,10	13,60	33,90	67,80	135,60	203,40	277,00
	x10³ ft·lbf	5.24	10.03	25.00	50.01	100.01	150.02	204.30
Radial static load	kN	64,00	53,00	204,00	338,00	391,00	640,00	770,00
	x10³ lbf	14.39	11.91	45.86	75.99	87.90	143.88	173.10
Axial static load	kN	84,00	133,00	547,00	905,00	977,00	1598,00	1926,00
	x10³ lbf	18.88	29.90	122.97	203.45	219.64	359.24	432.98
Max. output speed	rpm	1	1	1	1	1	1	1
Weight	Kg	14,64	20,97	48,75	70,20	94,64	119,45	192,76
	lbs	32.28	46.23	107.48	154.76	208.65	263.34	424.96
Paint		RAL7040	RAL7040	RAL7040	RAL7040	RAL7040	RAL7040	RAL7040

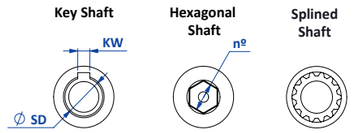
TE-2B SERIES



FLANGE TYPES



SHAFT TYPES



DIMENSIONS

	TE236-2B-Z0		TE639-2B-Z0	
	mm	in	mm	in
Ø OD	268	10.55	672	26.46
Ø ID	98	3.86	432	17.01
Ø OCD	203,20	8.00	584	22.99
P x n°	M12 ↓24 mm x 8		M20 x 36	
Ø ICD	120,60	4.75	465	18.31
F x n°	M12 ↓24 mm x 10		M20 ↓40 mm x (36-2)	
DH	85	3.29	123	4.84
CD	132,70	5.22	339,10	13.35
A	166,70	6.56	403,60	15.89
B	62	2.44	88	3.46
C	204	8.03	429	16.89
D	102	4.02	214,50	8.45
Ø E	163	6.42	525	20.67
G	15	0.59	27	1.06
H	37,50	1.48	57,50	2.26
Ø K	163	6.42	525	20.67
Ø L	230	9.06	615	24.21

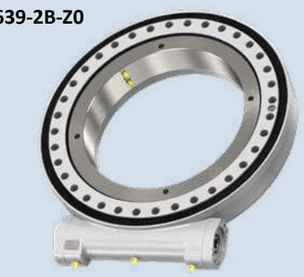
FLANGES and SHAFTS

	TE236-2B-Z0		TE639-2B-Z0	
	mm	in	mm	in
KW	5	0.20	8	0.31
Ø SD	16	0.63	25	0.98
Input	Flange ① Key Shaft		Flange ② Key Shaft	
Output	Flange ① Hex. 10 mm Shaft		Flange ② Hex. 24 mm Shaft	

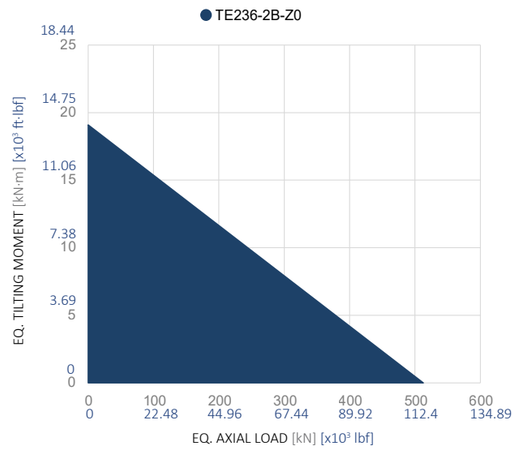
SIZES

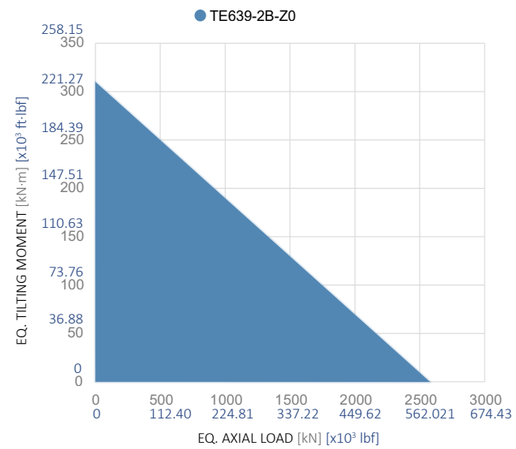
TE236-2B-Z0

TE639-2B-Z0



MOMENT LOADING CHARTS

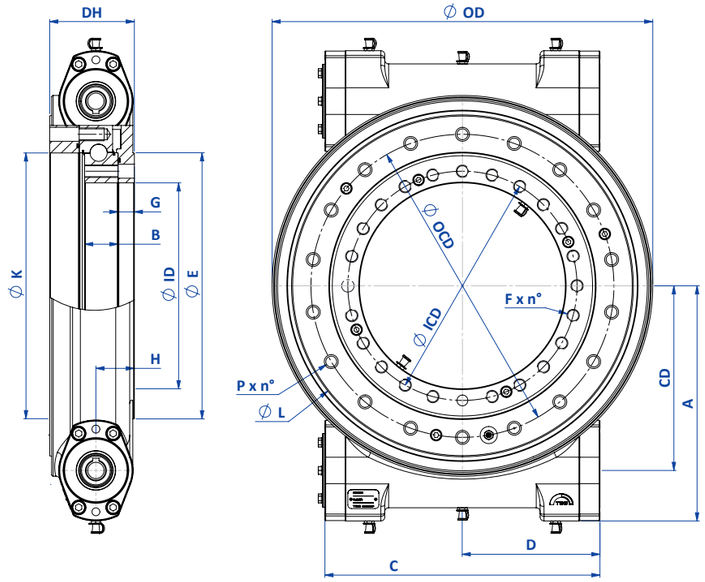




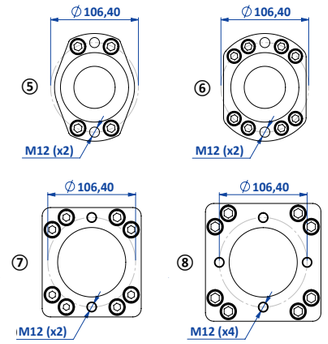
RATINGS

		TE160-Z1	TE236-Z1
Min. input torque	N·m	2 - 6	2 - 10
	ft·lbf	1.48 - 4.43	1.48 - 7.38
Gear ratio		71:1	125:1
Efficieny		40 %	40 %
Max. torque	kN·m	1,46	30,50
	x10³ ft·lbf	1.08	22.5
Nominal torque	kN·m	1,04	23,50
	x10³ ft·lbf	0.77	17.33
Holding torque	kN·m	9,40	95,20
	x10³ ft·lbf	6.93	70.22
Tilting moment	kN·m	19,10	310,00
	x10³ ft·lbf	14.09	228.64
Radial static load	kN	200,00	1300,00
	x10³ lbf	44.96	292.25
Axial static load	kN	513,00	2580,00
	x10³ lbf	115.33	580.01
Max. output speed	rpm	1	1
Weight	Kg	23,90	134,09
	lbs	52.69	295.62
Paint		RAL7040	RAL7040

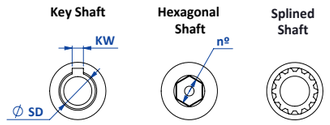
TE-2 SERIES



FLANGE TYPES



SHAFT TYPES



DIMENSIONS

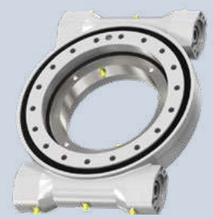
	TE436-2-Z0		TE524-2-Z0		TE638-2-Z0		TE770-2-Z0	
	mm	in	mm	in	mm	in	mm	in
Ø OD	480	18.90	570	22.44	639	25.16	832	32.76
Ø ID	265	10.43	332	13.07	425	16.73	512	20.16
Ø OCD	390	15.35	479,40	18.87	584,20	22.99	675	26.57
P x n°	M16 ↓30 mm x 18		M16 ↓32 mm x 20		M20 ↓40 x 36		M20 ↓40 mm x 36	
Ø ICD	295	11.61	365,10	14.37	466,70	18.37	560	22.05
F x n°	M16 ↓30 mm x (24-1)		M16 ↓32 mm x 20		M20 ↓40 x (36-1)		M20 ↓40 mm x 29	
DH	108	4.25	108	4.25	130	5.12	148	5.83
CD	240	9.45	285	11.22	350	13.78	416	16.38
A	304	11.97	349	13.74	415	16.34	466	18.35
B	44	1.73	47	1.85	36	1.42	65	2.56
C	380	14.96	407	16.02	482,50	18.99	538	21.18
D	190	7.48	203,50	8.01	245	9.65	272,50	10.73
Ø E	340	13.39	406	15.98	550	21.65	628	24.72
G	26	1.02	30	1.18	30	1.18	47	1.85
H	51	2.01	55	2.17	65	2.56	83,50	3.29
Ø K	342	13.46	430	16.93	540	21.26	630	24.80
Ø L	426	16.77	509	20.04	629	24.76	748	29.45

FLANGES and SHAFTS

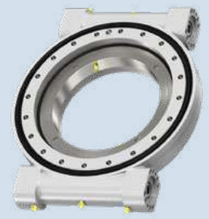
	TE436-2-Z0		TE524-2-Z0		TE638-2-Z0		TE760-2-Z0	
	mm	in	mm	in	mm	in	mm	in
KW	8	0.31	8	0.31	8	0.31	8	0.31
Ø SD	25	0.98	25	0.98	25	0.98	25	0.98
Input	Flange ⑤ Key Shaft		Flange ⑥ Key Shaft		Flange ⑦ Key Shaft		Flange ⑧ Key Shaft	
Output	Flange ⑤ Hex. 21 mm Shaft		Flange ⑥ Hex. 21 mm Shaft		Flange ⑦ Hex. 24 mm Shaft		Flange ⑧ Hex. 24 mm Shaft	

SIZES

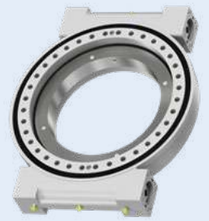
TE436-2-Z0



TE524-2-Z0

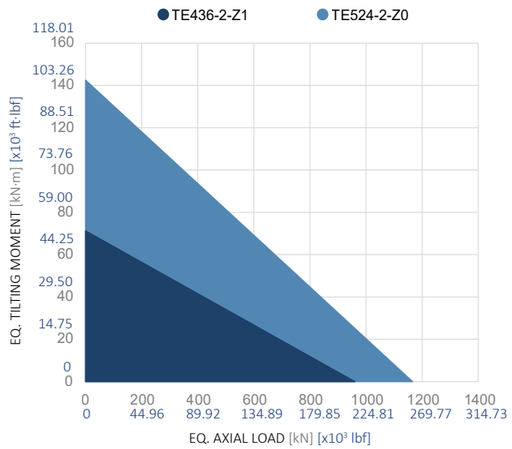


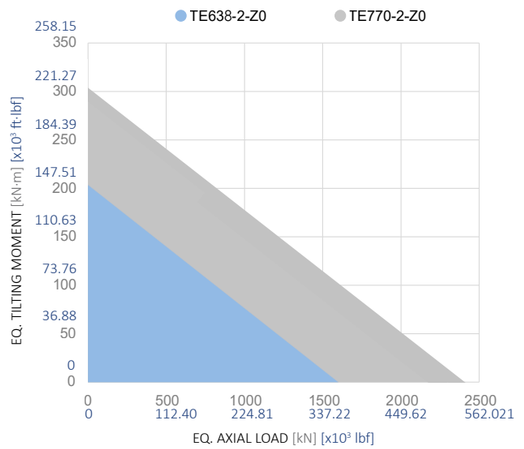
TE638-2-Z0



TE770-2-Z0

MOMENT LOADING CHARTS

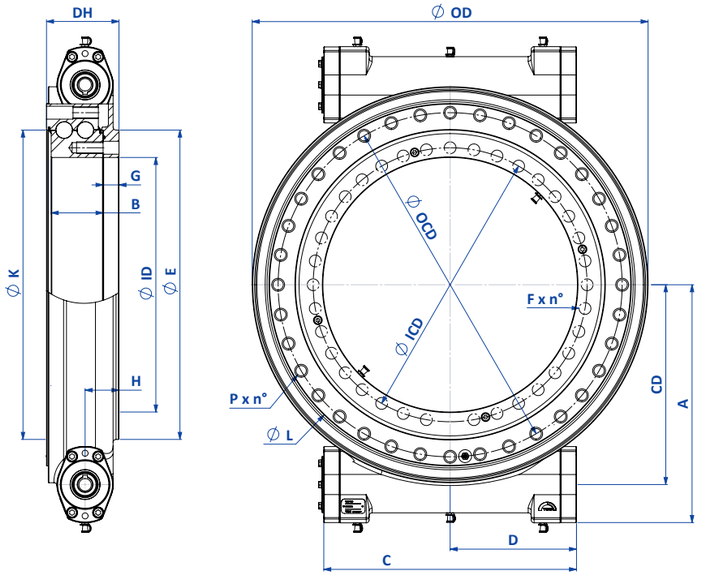




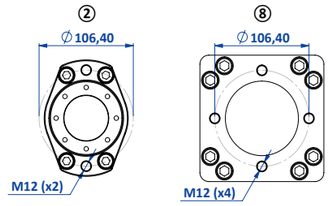
RATINGS

		TE436-2-Z0	TE524-2-Z0	TE638-2-Z0	TE770-2-Z0
Min. input torque	N·m	2 - 10	2 - 10	2 - 10	2 - 10
	ft·lbf	1.48 - 7.38	1.48 - 7.38	1.48- 7.38	1.48 - 7.38
Gear ratio		86:1	104:1	90:1	108:1
Efficieny		40 %	35 %	35 %	40 %
Max. torque	kN·m	-	19,44	48,00	58,00
	x10³ ft·lbf		14.34	35.40	42.78
Nominal torque	kN·m	16,20	16,34	-	-
	x10³ ft·lbf	11.95	12.05		
Holding torque	kN·m	74,00	110,00	181,00	275,00
	x10³ ft·lbf	54.58	81.13	133.55	202.83
Tilting moment	kN·m	71,20	142,40	203,00	310,00
	x10³ ft·lbf	52.51	105.03	149.79	228.64
Radial static load	kN	360,00	435,00	650,00	950,00
	x10³ lbf	80.93	97.79	146.13	213.57
Axial static load	kN	960,00	1166,00	1600,00	2400,00
	x10³ lbf	215.82	262.13	359.70	539.54
Max. output speed	rpm	1	1	1	< 1,50
Weight	Kg	-	-	-	-
	lbs				
Paint		RAL7040	RAL7040	RAL7040	RAL7040

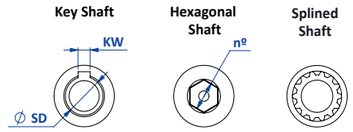
TE-2-2B SERIES



FLANGE TYPES



SHAFT TYPES



DIMENSIONS

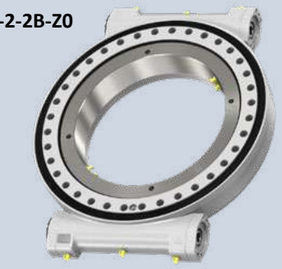
	TE639-2-2B-Z0		TE770-2-2B-Z0	
	mm	in	mm	in
Ø OD	672	26.46	832	32.76
Ø ID	432	17.01	512	20.16
Ø OCD	584	22.99	675	26.57
P x n°	M20 ↓40 mm x 36		M20 ↓40 mm x 36	
Ø ICD	465	18.31	560	22.05
F x nº	M20 ↓40 mm x (36-2)		M20 ↓40 mm x (30-1)	
DH	123	4.84	151	5.94
CD	339,10	13.35	416	16.38
A	403,60	15.89	486	19.13
B	88	3.46	90	3.54
C	429	16.89	538	21.18
D	214,50	8.45	272,50	10.73
Ø E	525	20.67	628	24.72
G	27	1.06	47	1.85
H	57,50	2.26	78	3.07
Ø K	525	20.67	620	24.41
Ø L	615	24.21	748	29.45

FLANGES and SHAFTS

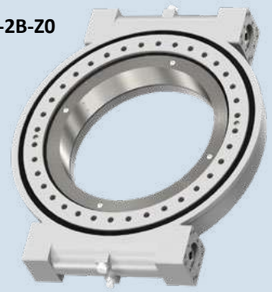
	TE639-2-2B-Z0		TE770-2B-Z0	
	mm	in	mm	in
KW	8	0.31	8	0.31
Ø SD	25	0.98	25	0.98
Input	Flange ② Key Shaft		Flange ⑧ Key Shaft	
Output	Flange ② Hex. 24 mm Shaft		Flange ⑧ Hex. 21 mm Shaft	

SIZES

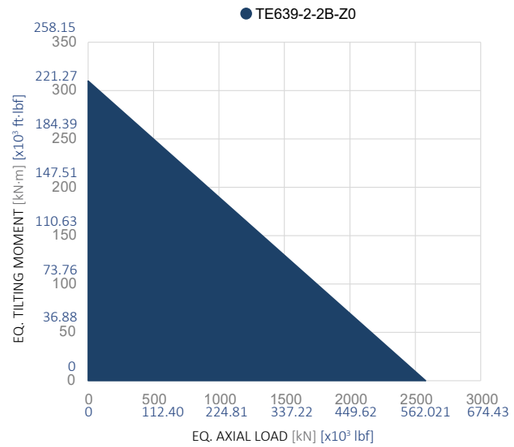
TE639-2-2B-Z0

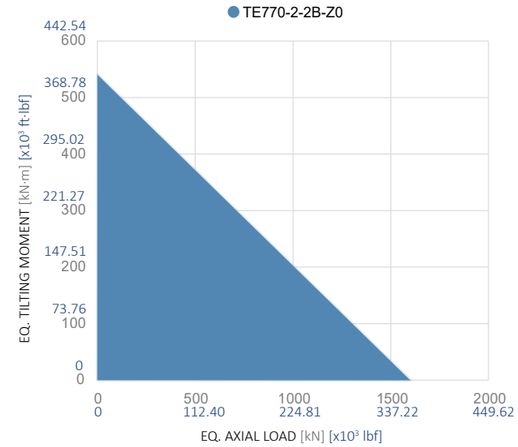


TE770-2-2B-Z0



MOMENT LOADING CHARTS

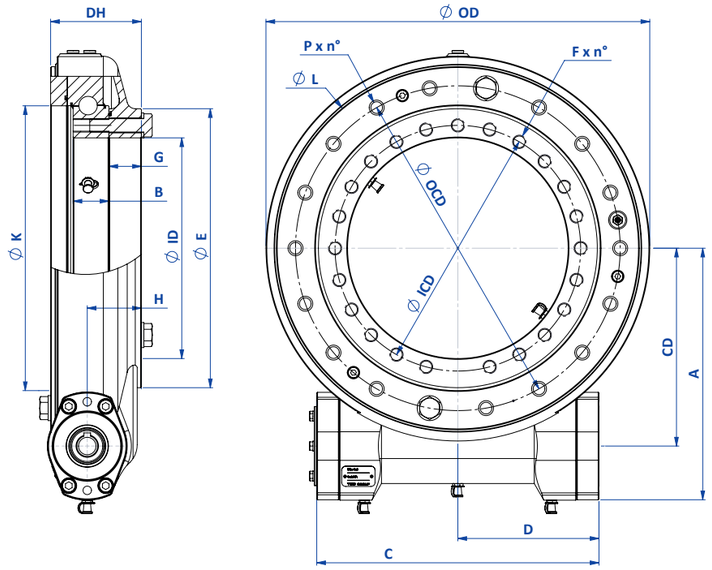




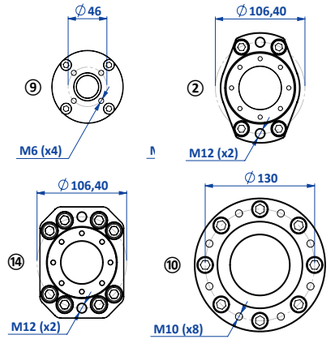
RATINGS

		TE639-2-2B-Z0	TE770-2-2B-Z0
Min. input torque	N·m	2 - 10	2 - 10
	ft·lbf	1.48 - 7.38	1.48 - 7.38
Gear ratio		125:1	108:1
Efficieny		40 %	40 %
Max. torque	kN·m	54,90	58,00
	x10³ ft·lbf	40.49	42.78
Nominal torque	kN·m	42,10	-
	x10³ ft·lbf	31.05	
Holding torque	kN·m	105,70	275,00
	x10³ ft·lbf	77.96	202.83
Tilting moment	kN·m	310,00	540,00
	x10³ ft·lbf	228.64	398.28
Radial static load	kN	1300,00	1600,00
	x10³ lbf	292.25	359.69
Axial static load	kN	2580,00	4000,00
	x10³ lbf	580.01	899.24
Max. output speed	rpm	1	< 1,50
Weight	Kg	149,55	-
	lbs	329.7	
Paint		RAL7040	RAL7040

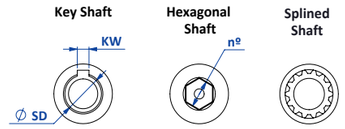
TGE SERIES



FLANGE TYPES



SHAFT TYPES



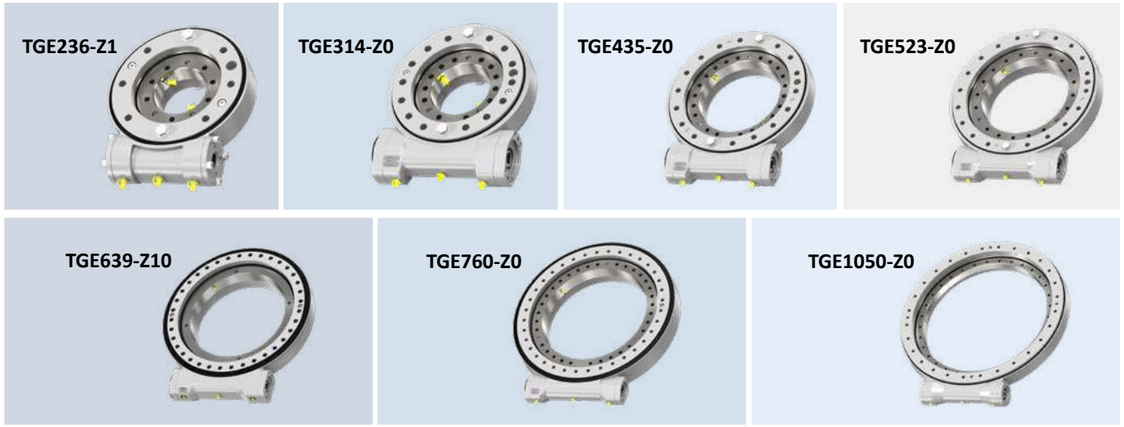
DIMENSIONS

	TGE236-Z1		TGE314-Z0		TGE435-Z0		TGE523-Z0		TGE639-Z10		TGE760-Z0		TGE1050-Z0	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Ø OD	257,60	10.14	345	13.58	461	18.15	550	21.65	668	26.30	792	31.18	1104	43.46
Ø ID	98	3.86	150	5.91	265	10.43	324	12.76	432	17.01	512	20.16	830	32.68
Ø OCD	203,20	8	270	10.63	390	15.35	480	18.90	584	22.99	675	26.57	1000	39.37
P x n°	M12 x 8		M16 x 16		M16 x 18		M16 x 20		M20 ↓40 x 36		M20 ↓35 mm x 36		M20 ↓40 x 28	
Ø ICD	120,65	4.75	175	6.89	295	11.61	365	14.37	465	18.31	565	22.24	870	34.25
F x n°	M12 x 10		M16 x (16-1)		M16 x (24-1)		M16 x 20		M20 ↓40 x (36-1)		M20 x (36-1)		M20 x 32	
DH	80,40	3.17	107,50	4.23	109	4.29	122,50	4.82	136	5.35	130	5.12	140,50	5.53
CD	133,62	5.26	174,16	6.86	237,59	9.35	275,47	10.84	339,10	13.35	401,89	15.82	567	22.32
A	176,12	6.56	238,66	9.40	302,09	11.89	339,97	13.39	404,10	15.91	466,39	18.36	645	25.39
B	34	1.34	44	1.73	43	1.69	48	1.89	57	2.24	60	2.36	52,50	2.07
C	184,50	7.26	323	12.72	339	13.35	390	15.35	429	16.89	468	18.42	550	21.65
D	92,25	3.63	161,50	6.36	169,50	6.67	195	7.68	214,50	8.44	234	9.21	275	10.83
Ø E	153	6.02	216	8.50	335	13.19	406	15.98	520	20.47	628	24.72	944	37.17
G	25,40	1	38	1.50	39	1.54	47	1.85	50	1.97	47	1.85	25	0.98
H	44,45	1.75	57	2.24	65	2.56	66	2.60	75	2.95	76,20	3	59,25	2.33
Ø K	163	6.42	222	8.74	342	13.46	422	16.61	520	20.47	630	24.80	935	36.81
Ø L	237,50	9.35	315	12.60	436	17.17	522	20.55	620	24.41	744	29.29	1080	42.52

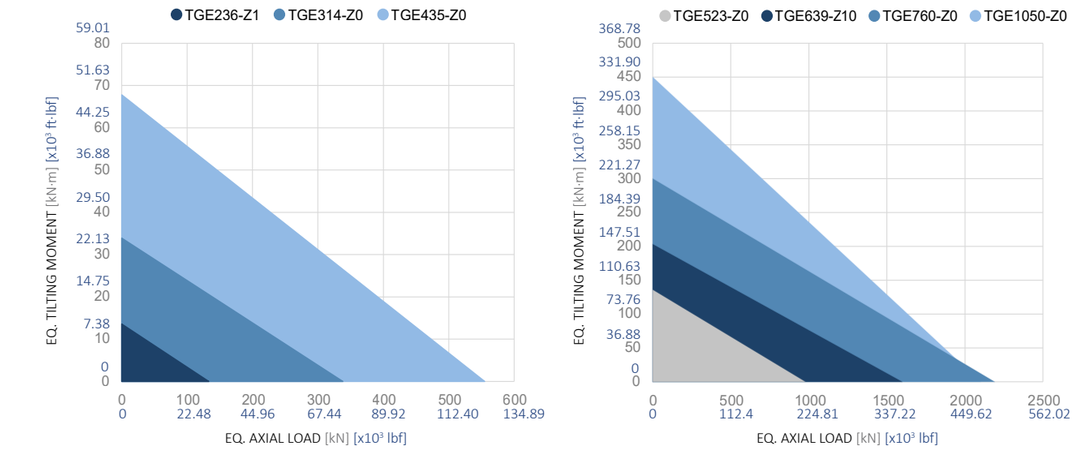
FLANGES and SHAFTS

	TGE236-Z1		TGE314-Z0		TGE435-Z0		TGE523-Z0		TGE639-Z10		TGE760-Z0		TGE1050-Z0	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
KW	5	0.20	8	0.31	8	0.31	8	0.31	8	0.31	8	0.31	8	0.31
Ø SD	16	0.63	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98
Input	Round Flange Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ⑭ Key Shaft		Flange ② Key Shaft		Flange ⑩ Key Shaft	
Output	Round Flange Hex. 16 mm Shaft		Flange ② Hex. 24 mm Shaft		Flange ② Hex. 24 mm Shaft		Flange ② Hex. 24 mm Shaft		Flange ⑭ Hex. 24 mm Shaft		Flange ② Hex. 24 mm Shaft		See Drawing	

SIZES



MOMENT LOADING CHARTS



RATINGS

		TGE236-Z1	TGE314-Z0	TGE435-Z0	TGE523-Z0	TGE639-Z10	TGE760-Z0	TGE1050-Z0
Min. input torque	N·m	2 - 6	2 - 10	2 - 10	2 - 10	2 - 10	2 - 10	2 - 10
	ft·lbf	1.48 - 4.43	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48- 7.38	1.48 - 7.38
Gear ratio		71:1	61:1	85:1	102:1	125:1	150:1	150:1
Efficieny		40 %	40 %	40 %	40 %	40 %	40 %	40 %
Max. torque	kN·m	1,46	8,84	12,31	18,03	23,50	45,32	36,00
	x10³ ft·lbf	1.08	6.52	9.08	13.3	17.33	33.43	26.55
Nominal torque	kN·m	1,04	7,32	10,20	15,10	20,50	35,26	30,00
	x10³ ft·lbf	0.77	5.40	7.52	11.14	15.12	26.01	22,13
Holding torque	kN·m	9,40	35,00	43,20	65,10	38,00	142,50	80,00
	x10³ ft·lbf	6.93	25.81	31.86	48.02	28.03	105.10	59.00
Tilting moment	kN·m	13,60	33,90	67,80	135,60	203,40	300,00	450,00
	x10³ ft·lbf	10.03	25.00	50.01	100.01	150.02	221.27	331.90
Radial static load	kN	53,00	135,00	222,00	391,00	640,00	832,00	800,00
	x10³ lbf	11.91	30.35	49.91	87.90	143.88	187.04	179.85
Axial static load	kN	133,00	338,00	555,00	977,00	1598,00	2190,00	2100,00
	x10³ lbf	29.90	75.99	124.77	219.64	359.24	492.33	472.10
Max. output speed	rpm	1	1	1	1	1	1	0,75
Weight	Kg	19,52	45,14	63,67	92,72	136,59	194,69	303,91
	lbs	43.03	99.52	140.37	204.40	301.10	429.20	670.00
Paint		RAL7040	RAL7040	RAL7040	RAL7040	RAL7040	RAL7040	RAL7040

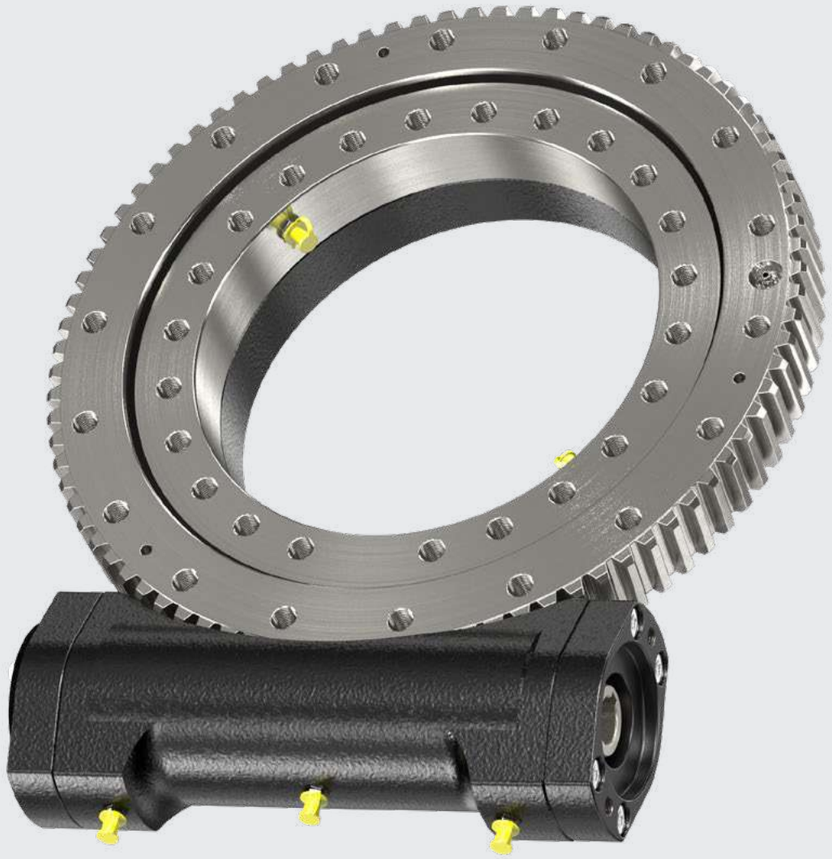
DESCRIPTION

TGO

This series is the open version of the TGE series, meaning the inner components remain the same. However, unlike the previous series, the housing does not cover the slewing ring.
It features a helical slewing ring combined with a globoid screw worm, allowing it to withstand high loads due to the increased number of teeth in contact between both parts. This makes it suitable for standard applications where no special environmental requirements are needed.

MAIN FEATURES

- Supplied in different colors
- Supplied with paint for extra corrosion protection
- Sizes in Metric and Imperial
- Different shaft types (keyed or splined)



CODE DESCRIPTION

TGO SLEW DRIVES

TGO | **100 130 236 314 435 500 523 600 700 …** | **Nothing 2B 2 2-2B** | **Nothing 1.** | **Z 1 2 3 4 5 6 7 8 …** | **Nothing .1 .2 .3 .4 .5 .6 .7 …** | **Nothing L** | **R L** | **M I**

Slew drive type

Model

Nothing single ball row
2 double worm
2B double ball row
2-2B double worm and double ball row

Version

Nothing standard grease
1. low temperature grease

Nothing no paint color
.Number with paint color

Nothing relubricate before use
L ready to work

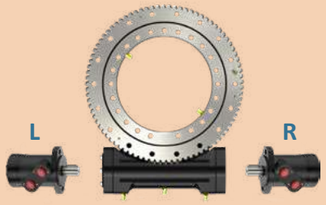
Motor position
R right side
L left side

Slewing ring thread type
M metric
I imperial

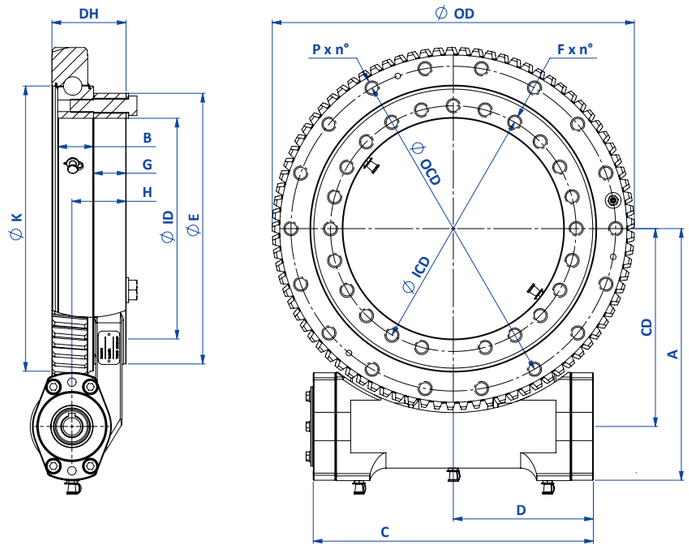
Example

TGO435-Z1-RM

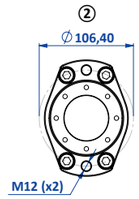
Motor position



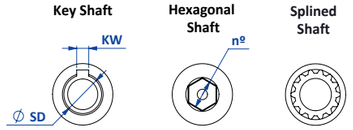
TGO SERIES



FLANGE TYPES



SHAFT TYPES



DIMENSIONS

	TGO400-Z0		TGO435-Z0		TGO523-Z0		TGO639-Z0		TGO920-Z1	
	mm	in	mm	in	mm	in	mm	in	mm	in
Ø OD	400,14	15.75	434,84	17.12	522,51	20.57	638,10	25.12	917,47	36.12
Ø ID	229	9.02	265	10.43	324	12.76	414	16.30	755	29.72
Ø OCD	358	14.09	390	15.35	480	18.90	584	22.99	868	34.17
P x n°	M16 x 18		M16 x 18		M16 x 20		M20 x 36		M12 x 20	
Ø ICD	259	10.20	295	11.61	365	14.37	465	18.31	782	30.79
F x n°	M16 x (20-1)		M16 x (24-1)		M16 x 20		M20 x (36-1)		Ø13 mm x (20)	
DH	89,50	3.52	89,10	3.51	103	4.06	106,50	4.19	72	2.83
CD	220	8.66	237,59	9.35	275,47	10.84	339,10	13.35	476,42	18.76
A	284,50	11.20	302,10	11.89	339,97	13.39	403,60	15.89	540,92	21.30
B	44	1.73	43	1.69	48	1.89	57	2.24	44	1.73
C	324,50	12.78	336,50	13.25	384,20	15.13	429	16.89	495	19.49
D	162,25	6.39	168,25	6.62	192,10	7.56	214,50	8.44	247,50	9.74
Ø E	290	11.42	324,50	12.78	420	16.54	533	20.98	830	32.68
G	38	1.50	39,10	1.54	47	1.85	41,50	1.63	20	0.79
H	65	2.56	65,10	2.56	66	2.60	69,50	2.74	50	1.97
Ø K	308	12.13	342,50	13.48	422	16.61	525	20.67	827	32.56

FLANGES and SHAFTS

	TGO400-Z0		TGO435-Z0		TGO523-Z0		TGO639-Z0		TGO920-Z1	
	mm	in	mm	in	mm	in	mm	in	mm	in
KW	8	0.31	8	0.31	8	0.31	8	0.31	8	0.31
Ø SD	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98
Input	Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft	
Output	Flange ② Hex. 24 mm Shaft		Flange ② Hex. 24 mm Shaft		Flange ② Hex. 24 mm Shaft		Flange ② Hex. 24 mm Shaft		Flange ② Key Shaft	

SIZES

TGO400-Z0

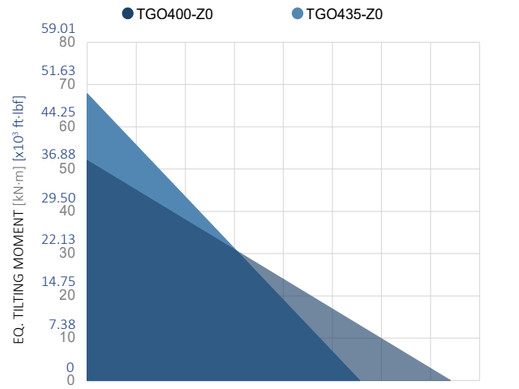
TGO435-Z0

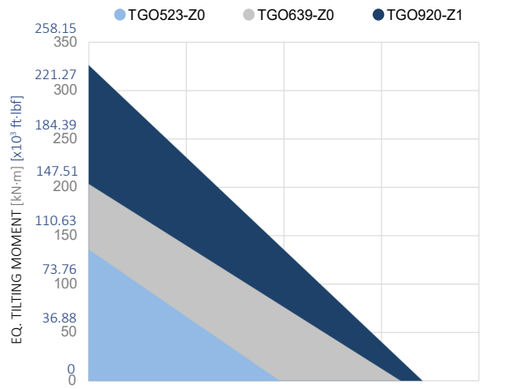
TGO523-Z0

TGO639-Z0

TGO920-Z1

MOMENT LOADING CHARTS





RATINGS

		TGO400-Z0	TGO435-Z0	TGO523-Z0	TGO639-Z0	TGO920-Z1
Min. input torque	N·m	2 - 10	2 - 10	2 - 10	2 - 10	2 - 10
	ft·lbf	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38
Gear ratio		78:1	85:1	102:1	125:1	180:1
Efficieny		40 %	40 %	40 %	40 %	40 %
Max. torque	kN·m	10,50	12,31	18,03	30,50	4,20
	x10³ ft·lbf	7.75	9.08	13.30	22.50	3.10
Nominal torque	kN·m	7,50	10,20	15,10	23,50	3,58
	x10³ ft·lbf	5.53	7.52	11.14	17.33	2.64
Holding torque	kN·m	37,00	43,20	65,10	95,20	5,05
	x10³ ft·lbf	27.29	31.86	48.02	70.22	3.72
Tilting moment	kN·m	52,00	67,80	135,60	203,40	326,00
	x10³ ft·lbf	38.35	50.01	100.01	150.02	240.45
Radial static load	kN	276,00	222,00	391,00	640,00	222,00
	x10³ lbf	62.05	49.91	87.90	143.88	49.91
Axial static load	kN	740,00	555,00	977,00	1598,00	1710,00
	x10³ lbf	166.36	124.77	219.64	359.24	384.42
Max. output speed	rpm	1	1	1	1	1
Weight	Kg	47,34	49,17	78,63	106,69	103,62
	lbs	104.37	104.37	173.35	235.20	228.44
Paint		RAL9005	RAL9005	RAL9005	RAL9005	RAL9005

GE AND LGE SERIES

DESCRIPTION

GE

It is a non-self-locking slew drive, which makes it more efficient and allows higher speeds. It includes an external lip seal, and is also a non-symmetrical module, thus preventing collisions with structures.

MAIN FEATURES

- NBR Lip Seal
- IP 65
- Supplied in different colors
- Supplied with paint for extra corrosion protection
- Sizes in Metric and Imperial
- Different shaft types (keyed or splined)

LGE

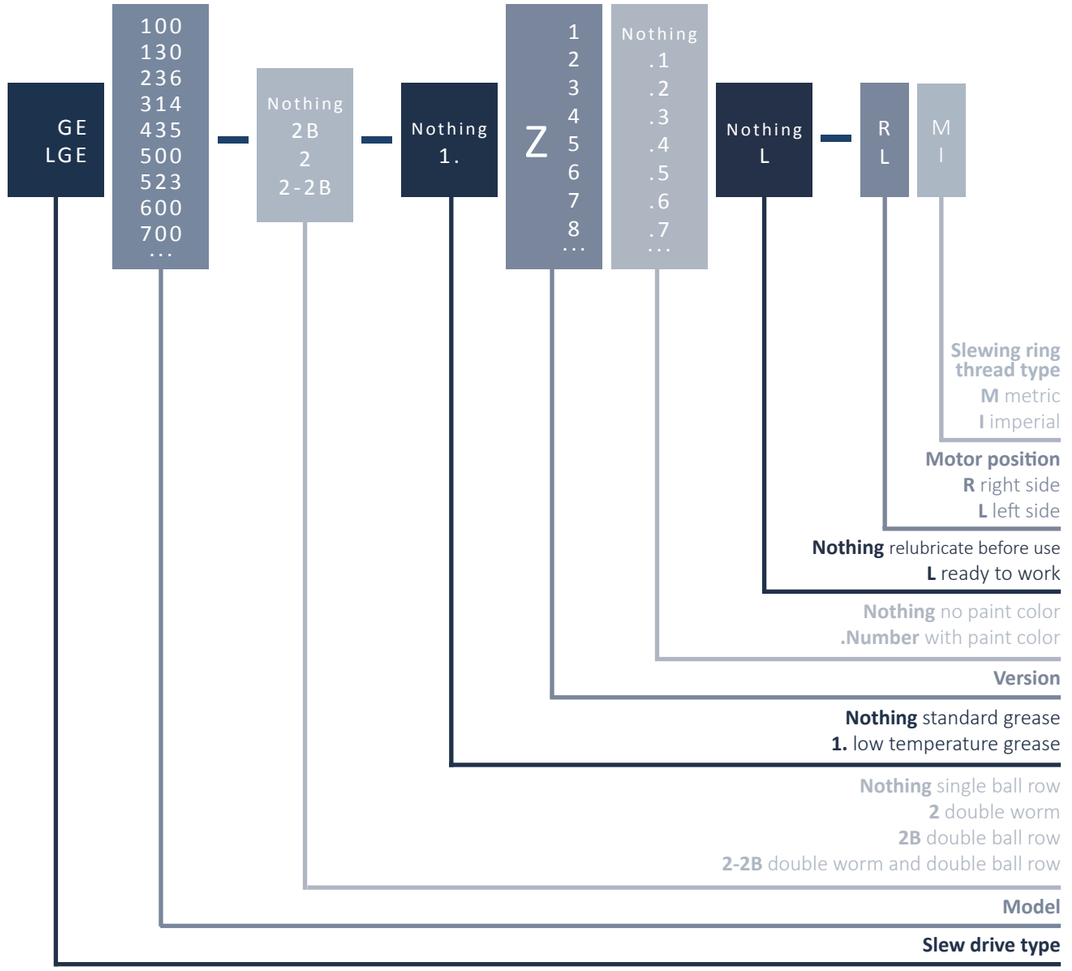
Low weight drives with same geometry and dimensions as the GE drives. It has a housing of aluminum, what reduces considerably the slew drive weight and allows using it in special applications where weight is critical. It also includes an external lip seal.

MAIN FEATURES

- Aluminum housing
- NBR Lip Seal
- IP 65
- Supplied in different colors
- Supplied with paint for extra corrosion protection
- Sizes in Metric and Imperial
- Different shaft types (keyed or splined)

CODE DESCRIPTION

GE AND LGE SLEW DRIVES

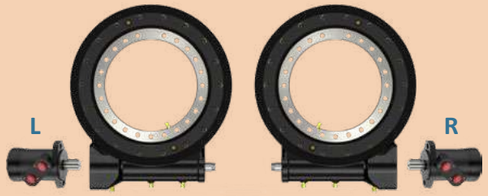


Example

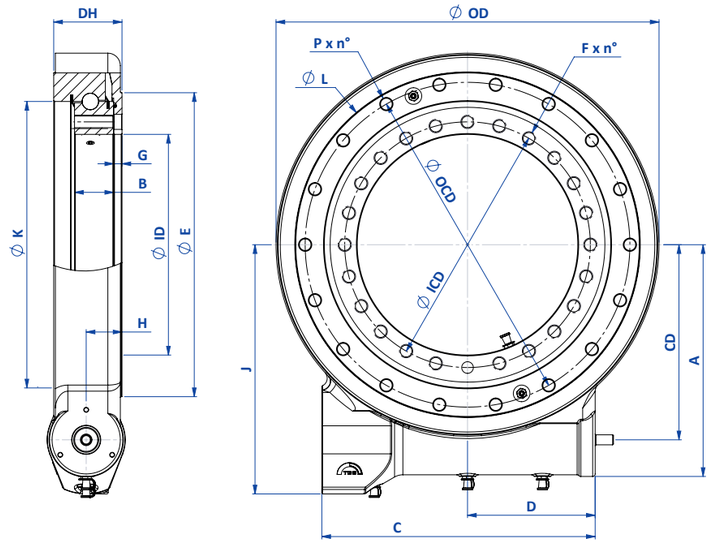
with paint specification and greased ready to work

GE435-Z1.2L-RM

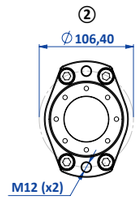
Motor position



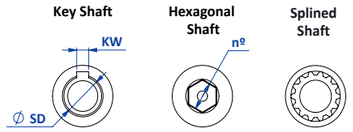
GE and LGE SERIES



FLANGE TYPES



SHAFT TYPES



DIMENSIONS

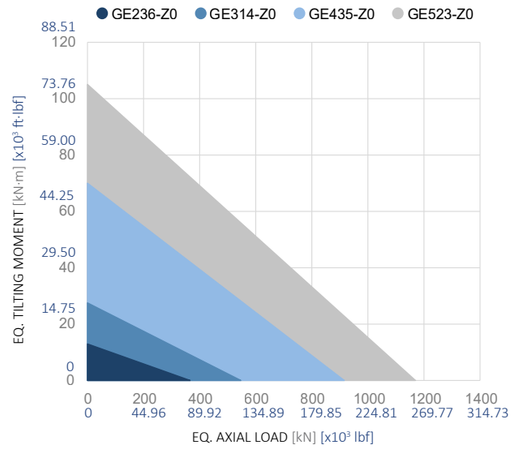
	GE236-Z0		GE314-Z0		GE435-Z0		GE523-Z0		LGE236-Z0		LGE314-Z0		LGE435-Z0	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Ø OD	268	10.55	342	13.46	460	18.11	550	21.65	268	10.55	342	13.46	460	18.11
Ø ID	92	3.62	145	5.71	265	10.43	324	12.76	92	3.62	145	5.71	265	10.43
Ø OCD	196	7.72	270	10.63	390	15.35	479	18.86	196	7.72	270	10.63	390	15.35
P x n°	M12 ↓25 mm x 12		M16 ↓35 mm x 16		M16 ↓35 mm x 18		M16 ↓35 mm x 20		M12 ↓25 mm x 12		M16 ↓35 mm x 16		M16 ↓35 mm x 18	
Ø ICD	114	4.49	175	6.89	295	11.61	365	14.37	114	4.49	175	6.89	295	11.61
F x n°	Ø14 mm x (12)		M16 x (16-1)		M16 x (24-1)		M16 x (20-1)		Ø14 mm x (12)		M16 x (16-1)		M16 x (24-1)	
DH	82	3.23	82	3.23	82	3.23	82	3.23	82	3.23	82	3.23	82	3.23
CD	135	5.31	173,75	6.84	234,29	9.22	279,50	11.00	135	5.31	173,75	6.84	234,29	9.22
A	179	7.05	217,75	8.57	278,29	10.96	323,50	12.74	179	7.05	217,75	8.57	278,29	10.96
B	47	1.85	47	1.85	47	1.85	47	1.85	47	1.85	47	1.85	47	1.85
C	318	12.52	318	12.52	350,30	13.79	328,30	12.93	318	12.52	318	12.52	350,30	13.79
D	138	5.43	138	5.43	153,30	6.04	153,30	6.04	138	5.43	138	5.43	153,30	6.04
Ø E	175	6.89	250	9.84	365	14.37	424	16.69	175	6.89	250	9.84	365	14.37
G	10	0.39	10	0.39	10	0.39	10	0.39	10	0.39	10	0.39	10	0.39
H	43	1.69	43	1.69	43	1.69	43	1.69	43	1.69	43	1.69	43	1.69
Ø K	158	6.22	225	8.86	344	13.54	435	17.13	158	6.22	225	8.86	344	13.54
Ø L	217	8.54	294	11.57	414	16.29	505	19.88	217	8.54	294	11.57	414	16.29

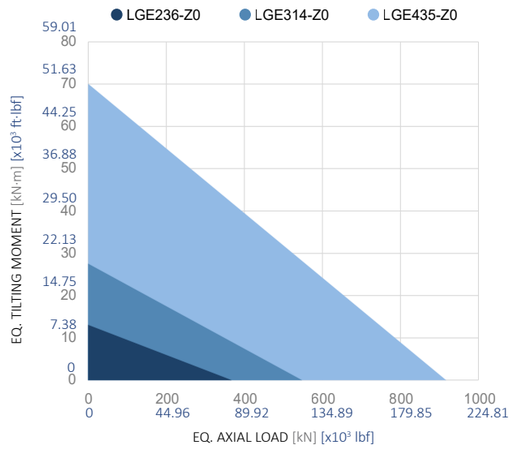
FLANGES and SHAFTS

	GE236-Z0		GE314-Z0		GE435-Z0		GE523-Z0		LGE236-Z0		LGE314-Z0		LGE435-Z0	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
KW	8	0.31	8	0.31	8	0.31	8	0.31	8	0.31	8	0.31	8	0.31
Ø SD	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98
Input	Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft		Flange ② Key Shaft	
Output	See Drawing Hex. 19 mm Shaft		See Drawing Hex. 19 mm Shaft		See Drawing Ø12 Shaft		See Drawing Ø12 Shaft		See Drawing Hex. 19 mm Shaft		See Drawing Hex. 19 mm Shaft		See Drawing Hex. 19 mm Shaft	

SIZES

MOMENT LOADING CHARTS





RATINGS

		GE236-Z0	GE314-Z0	GE435-Z0	GE523-Z0	LGE236-Z0	LGE314-Z0	LGE435-Z0	UL435-Z0
Min. input torque	N·m	2 - 6	2 - 10	2 - 10	2 - 10	2 - 6	2 - 10	2 - 10	2 - 10
	ft·lbf	1.48 - 4.43	1.48 - 7.38	1.48 - 7.38	1.48 - 7.38	1.48 - 4.43	1.48- 7.38	1.48 - 7.38	1.48 - 7.38
Gear ratio		46:1	61:1	85:1	103:1	46:1	61:1	85:1	85:1
Efficieny		40 %	40 %	50 %	50 %	40 %	40 %	40 %	-
Max. torque	kN·m	3,28	9,10	12,60	15,30	3,28	9,10	12,60	12,60
	x10³ ft·lbf	2.42	6.71	9.29	11.28	2.42	6.71	9.29	9.29
Nominal torque	kN·m	2,52	4,48	6,25	7,57	2,52	4,48	6,25	10,20
	x10³ ft·lbf	1.86	3.30	4.61	5.58	1.86	3.30	4.61	7.53
Holding torque	kN·m	-	-	15,00	18,30	-	-	12,60	15,00
	x10³ ft·lbf			11.06	13.50			9.29	11.06
Tilting moment	kN·m	13,00	27,50	70,00	105,00	13,00	27,50	70,00	75,00
	x10³ ft·lbf	9.59	20.28	51.63	77.44	9.59	20.28	51.63	55.32
Radial static load	kN	156,00	204,00	341,00	413,00	156,00	204,00	341,00	338,00
	x10³ lbf	35.07	45.86	76.66	92.85	35.07	45.86	76.66	75.99
Axial static load	kN	366,00	547,00	916,00	1170,00	366,00	547,00	916,00	905,00
	x10³ lbf	82.28	122.97	205.93	263.03	82.28	122.97	205.93	203.42
Max. output speed	rpm	1	-	2	1,75	1	1	1	1
Weight	Kg	29,80	40,60	55,24	73,68	21,43	30,36	43,22	36,43
	lbs	65.70	89.50	121.78	162.44	47.25	66.93	95.28	80.30
Paint		RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005

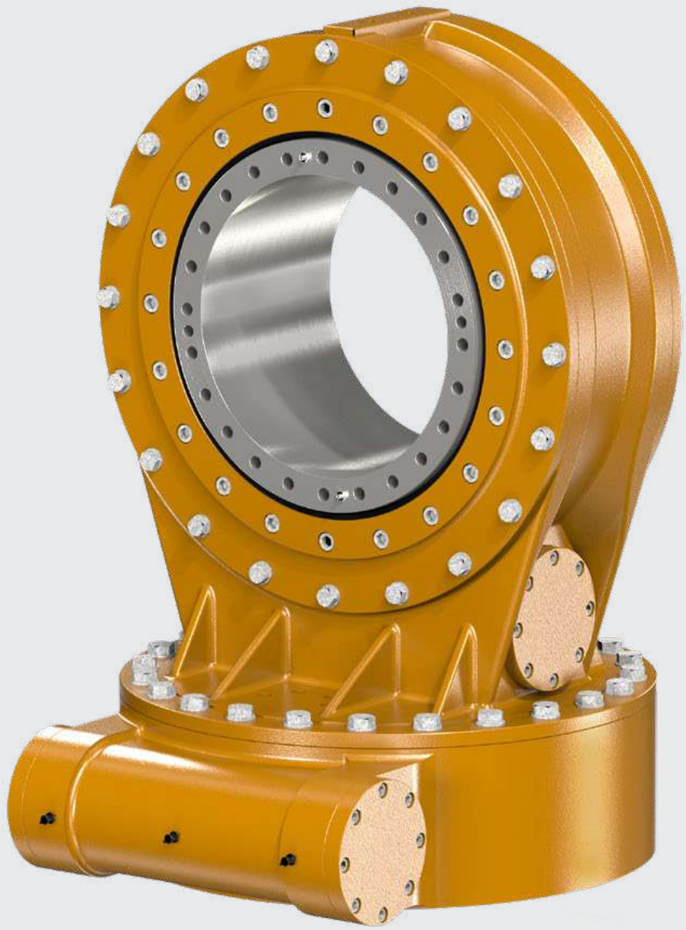
DESCRIPTION

DAD

This is the Dual Axis Drive series. It consists of a combination of a vertical and horizontal slew drive, allowing movement on both axes so that the entire unit can perform all the required motions of a solar tracker. This type of slew drive includes an external lip seal, providing enhanced protection against dust and water.

MAIN FEATURES

- NBR Lip Seal
- IP 65
- Supplied in different colors
- Supplied with paint for extra corrosion protection
- Sizes in Metric and Imperial
- Different shaft types (keyed or splined)



CODE DESCRIPTION

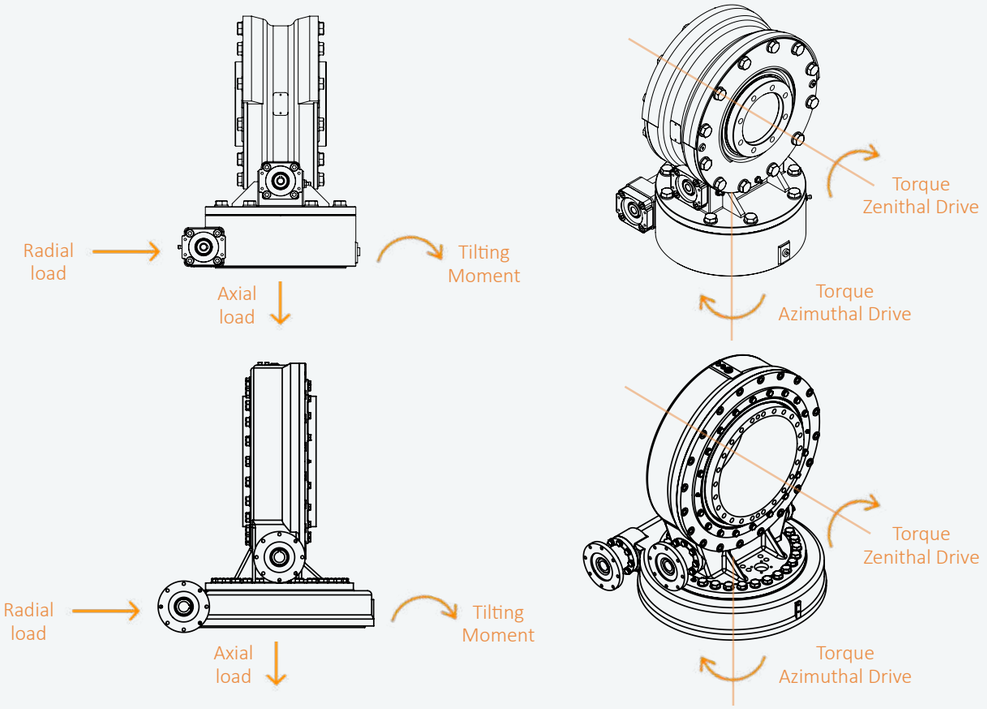
DAD SLEW DRIVES

DAD System Overview

The DAD system consists of two slew drives: the DADA and the DADZ.

— **DADA** (DADAzimuthal): This module provides azimuthal rotation, allowing precise horizontal movement.
— **DADZ** (DADZenithal): This module enables zenithal rotation, controlling vertical movement with accuracy.

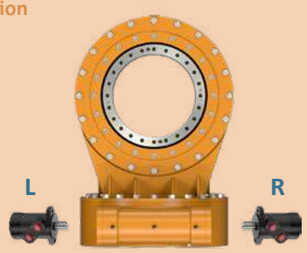
Together, these components ensure smooth and reliable positioning for various applications.



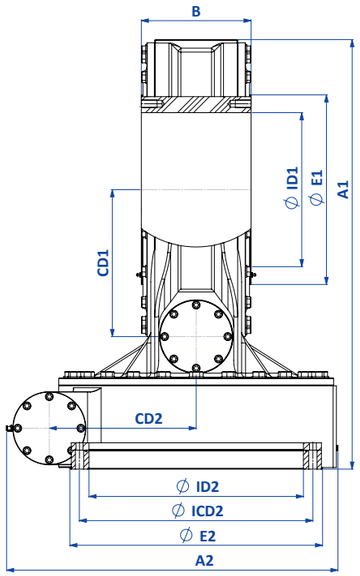
Example

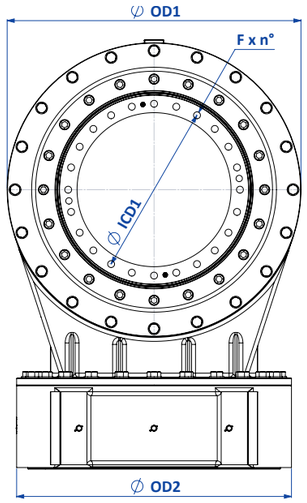
DAD5-Z1-LM

Motor position

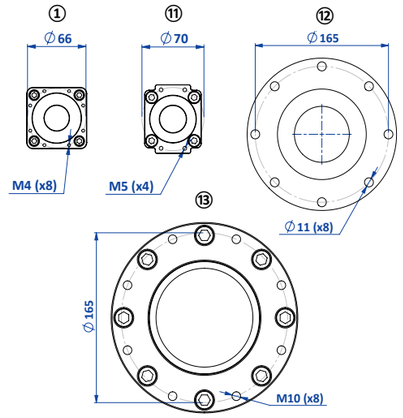


DAD SERIES

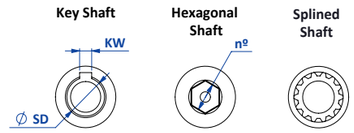




FLANGE TYPES



SHAFT TYPES



DIMENSIONS

	DAD160-Z0		DAD5-Z1		DAD6-Z0		DAD8S-Z0	
	mm	in	mm	in	mm	in	mm	in
Ø OD1	188	7.40	308	12.13	708	27.87	744	29.29
Ø OD2	184	7.24	264	10.39	680	26.77	696	27.40
Ø ID1	50	1.97	98	3.86	400	15.75	390	15.35
Ø ID2	30	1.18	96	3.78	431,80	17.00	543	21.38
Ø ICD1	70	2.76	120	4.72	435	17.13	435	17.13
F x n°	M10 ↓20 mm x 8 (both sides)		M12 ↓24 mm x 8 (both sides)		M20 ↓40 mm x 24 (both sides)		M20 ↓40 mm x 24 (both sides)	
Ø ICD2	130	5.12	203	7.99	582	22.91	591	23.27
A1	346	13.62	442	17.40	952,50	37.50	1087,50	42.81
A2	231,70	9.12	319	12.56	777,50	30.61	830,50	32.70
B	99	3.90	160	6.30	264	10.39	278	10.94
CD1	100,50	3.95	135	5.31	345	13.58	372	14.65
CD2	93,70	3.69	135	5.31	345	13.58	372	14.65
Ø E1	85	3.35	148	5.83	470	18.50	480	18.90
Ø E2	150	5.91	230	9.06	615	24.21	640	25.20

FLANGES and SHAFTS

	DAD160-Z0		DAD5-Z1		DAD6-Z0		DAD8S-Z0	
	mm	in	mm	in	mm	in	mm	in
KW	4	0.16	4	0.16	10	0.39	10	0.39
Ø SD	12	0.47	12	0.47	38	1.50	38	1.50
Azimuthal	Flange ① Key Shaft		Flange ⑪ Key Shaft		Flange ⑫ Key Shaft		Flange ⑬ Key Shaft	
Zenithal	Flange ① Key Shaft		Flange ⑪ Key Shaft		Flange ⑫ Key Shaft		Flange ⑬ Key Shaft	

SIZES

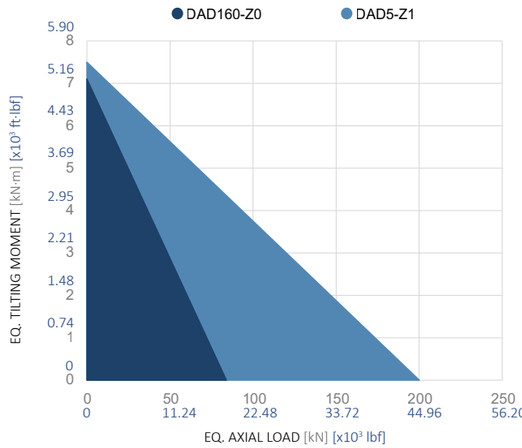
DAD160-Z0

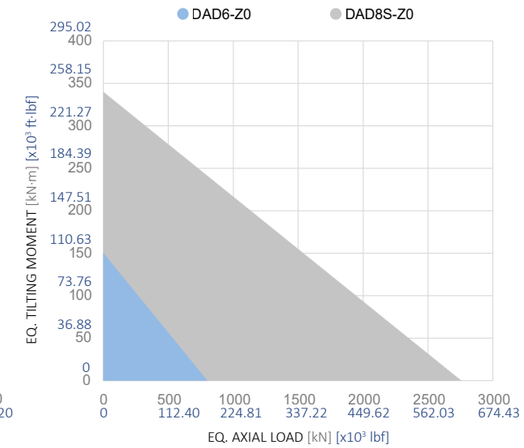
DAD5-Z1

DAD6-Z0

DAD8S-Z0

MOMENT LOADING CHARTS





RATINGS

		DAD160-Z0	DAD5-Z1	DAD6-Z0	DAD8S-Z0
Min. input torque	N·m	2 - 10	2 - 10	2 - 10	2 - 10
	ft·lbf	1.48 - 7.38	1.48 - 7.38	1.48- 7.38	1.48 - 7.38
Gear ratio		62:1	46:1	102:1	80:1
Efficieny		30 %	40 %	34 %	30 %
Max. torque	kN·m	1,20	5,68	50,00	50,00
	x10³ ft·lbf	0.89	4.19	36.88	36.88
Nominal torque	kN·m	0,60	2,80	-	28,00
	x10³ ft·lbf	0.44	2.07		20.65
Holding torque	kN·m	5,00	10,80	84,00	105,00
	x10³ ft·lbf	3.69	7.97	61.95	77.44
Tilting moment	kN·m	7,10	7,50	150,00	340,00
	x10³ ft·lbf	5.24	5.53	110.63	250.77
Radial static load	kN	64,00	75,00	315,00	1242,00
	x10³ lbf	14.36	16.86	70.91	279.78
Axial static load	kN	84,00	200,00	800,00	2755,00
	x10³ lbf	18.86	44.96	44.96	619.33
Max. output speed	rpm	1	1	1	1
Weight	Kg	32,56	89,70	596,41	928,58
	lbs	71.81	197.89	1312.71	2047.31
Paint		RAL7040	RAL7040	RAL7040	RAL2005

DESCRIPTION

PRO

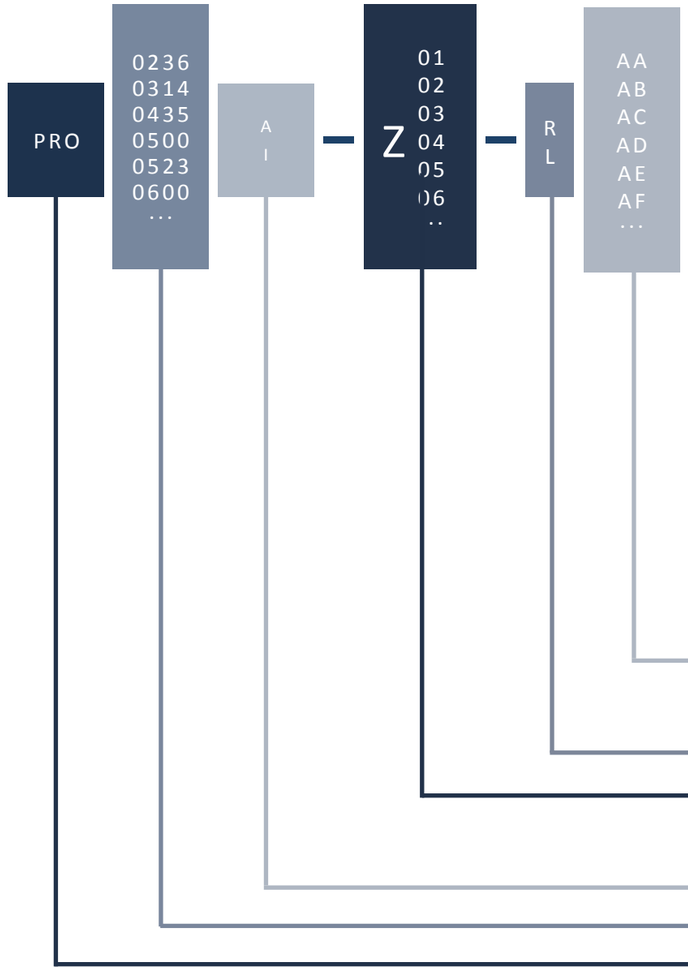
The new generation of slew drives has a helical slewing ring combined with a globoid screw worm.
It provides a better sealing and tightness, and is more geometrically robust.
It has only one grease point, as the slewing ring and tapered bearings are maintenance-free.
It is ideally interchangeable with the BE series.

MAIN FEATURES

- NBR Lip Seal
- IP 65
- Supplied with in colors
- Supplied with paint for extra corrosion protection
- Sizes in Metric and Imperial

CODE DESCRIPTION

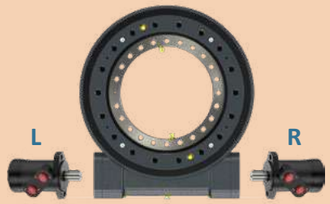
PRO SLEW DRIVES

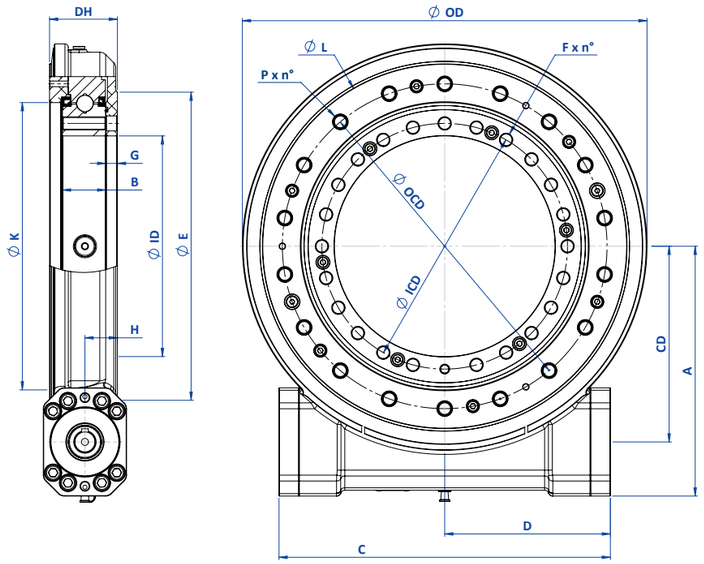


Example

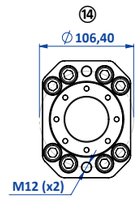
PRO0435A-Z01-RAA

Motor position

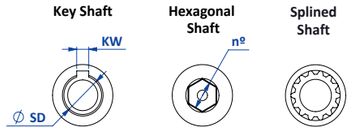




FLANGE TYPES



SHAFT TYPES



DIMENSIONS

	PRO0236A-Z01-RAA		PRO0314A-Z01-RAA		PRO0435A-Z01-RAA		PRO0500A-Z02-RAB	
	mm	in	mm	in	mm	in	mm	in
Ø OD	286	11.26	364	14.33	486	19.13	520	20.47
Ø ID	98	3.86	145	5.71	265	10.43	300	11.81
Ø OCD	190	7.48	270	10.63	390	15.35	420	16.54
P x n°	M12 ↓22 mm x 8		M16 ↓28 mm x 16		M16 ↓28 mm x 18		M16 ↓28 mm x 24	
Ø ICD	120,50	4.74	175	6.89	295	11.61	330	12.99
F x n°	M12 x 10		M16 x (16-1)		M16 x (24-1)		Ø17,50 mm x (24)	
DH	82	3.23	81,50	3.21	81,50	3.21	97,50	3.84
CD	135	5.31	175	6.89	235	9.25	253	9.96
A	200	7.87	240	9.45	300	11.81	318	12.52
B	51	2.01	52	2.05	52	2.05	52	2.05
C	333	13.11	353	13.90	399	15.71	434	17.09
D	166,50	6.56	176,50	6.95	199	7.83	217	8.54
Ø E	187	7.36	250	9.84	370	14.57	400	15.75
G	14	0.55	14	0.55	14	0.55	30	1.18
H	39	1.54	39	1.54	39	1.54	55	2.17
Ø K	150	5.91	220	8.66	345	13.58	378	14.88
Ø L	238	9.37	320	12.60	438	17.24	472	18.58

FLANGES and SHAFTS

	PRO0236A-Z01-RAA		PRO0314A-Z01-RAA		PRO0435A-Z01-RAA		PRO0500A-Z02-RAB	
	mm	in	mm	in	mm	in	mm	in
KW	8	0.31	8	0.31	8	0.31	8	0.31
Ø SD	25	0.98	25	0.98	25	0.98	25	0.98
Input	Flange ⑭ Key Shaft		Flange ⑭ Key Shaft		Flange ⑭ Key Shaft		Flange ⑭ Key Shaft	
Output	Flange ⑭ Key Shaft		Flange ⑭ Key Shaft		Flange ⑭ Key Shaft		Flange ⑭ Key Shaft	

SIZES

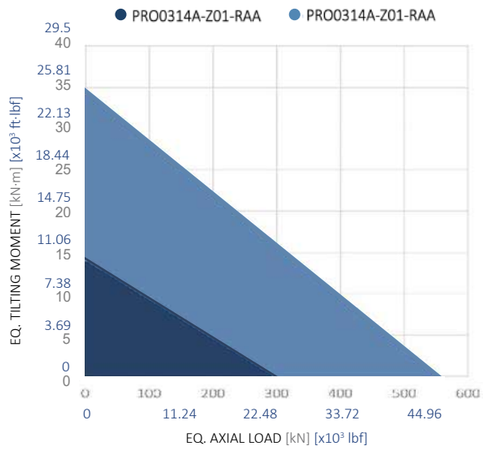
PRO0236A-Z01-RAA

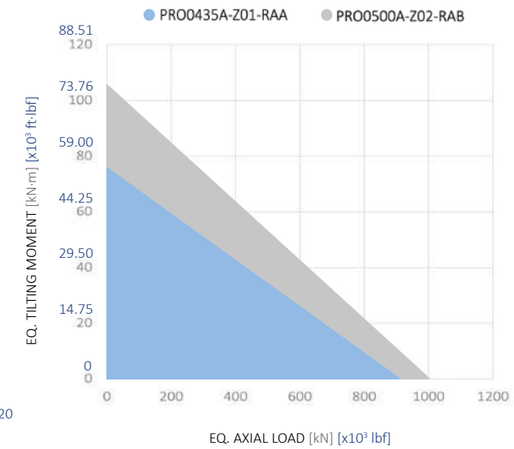
PRO0314A-Z01-RAA

PRO0435A-Z01-RAA

PRO0500-Z02-RAB

MOMENT LOADING CHARTS





RATINGS

		PRO0236A-Z01-RAA	PRO0314A-Z01-RAA	PRO0435A-Z01-RAA	PRO0500A-Z02-RAB
Min. input torque	N·m	2 - 6	2 - 10	2 - 10	2 - 10
	ft·lbf	1.48 - 4.43	1.48 - 7.38	1.48- 7.38	1.48 - 7.38
Gear ratio		44:1	61:1	85:1	92:1
Efficieny		48 %	52 %	44 %	42 %
Max. torque	kN·m	6,50	9,30	12,90	16,20
	x10³ ft·lbf	4.79	6.86	9.51	11.94
Nominal torque	kN·m	5,50	7,90	10,90	13,70
	x10³ ft·lbf	4.06	5.83	8.05	10.10
Holding torque	kN·m	25,00	30,00	38,00	46,00
	x10³ ft·lbf	18.44	22.13	28.04	33.92
Tilting moment	kN·m	14,00	27,50	75,00	103,00
	x10³ ft·lbf	10.32	20.28	55.32	75.92
Radial static load	kN	94,00	204,00	338,00	380,00
	x10³ lbf	21.11	45.88	75.99	85.26
Axial static load	kN	290,00	547,00	905,00	1000,00
	x10³ lbf	65.12	123.58	203.35	224.81
Max. output speed	rpm	1	1	1	1
Weight	Kg	24,11	33,59	46,35	52,59
	lbs	53.14	74.06	102.18	115.96
Paint		RAL9005	RAL9005	RAL9005	RAL905

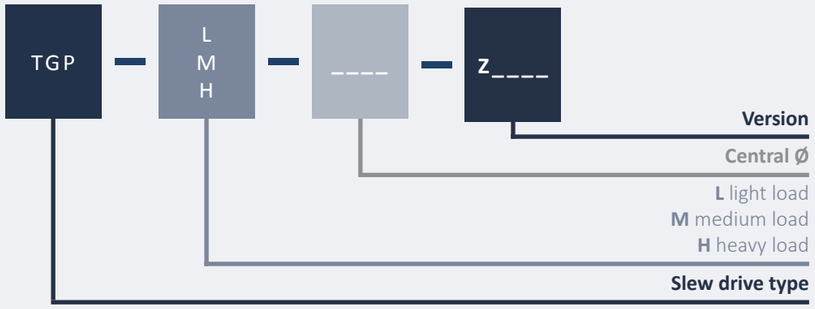
TGP

Slew Drive for High-Speed Rotation Applications

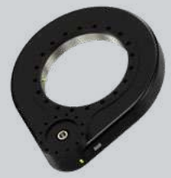
PINION-DRIVEN SLEW DRIVES

The motor-driven system allows for greater efficiency in power transmission and results in higher speeds. Although pinion systems generally do not have the self-locking feature like worm gear systems, they can offer very precise control and can be equipped with brakes and other mechanisms to maintain position.

PINION-DRIVEN SLEW DRIVE



Example



TGP-L-0541-Z1000

TRP

Compact-Enclosed Slew Drive with a Pinion

SLEW DRIVE WITH OUTPUT PINION

A compact enclosed-gearing slewing drive designed to function as a high-speed drive component for slew bearing systems. Supplied with an integrated pinion and mounting interface for seamless installation, ensuring efficient and reliable connection with the slew bearing assembly.

ACCESSORIES

MOTOR CAPS, ADAPTER SHAFTS, ADAPTER FLANGES AND TOP PLATES

PINIONS

AC / DC / HYDRAULIC MOTORS / REDUCERS / ENCODERS

INQUIRY FORM

Comercial	Date	Client

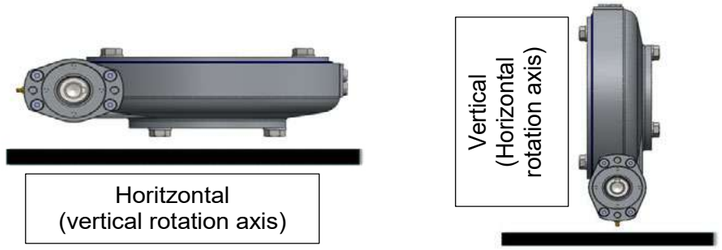
Target slew ring	Ref.		E ☐ I ☐ SD ☐	
Target slew drive				
Working position	Horizontal ☐ Vertical ☐			
Output torque	Nominal			[kNm]
	Maximum			[kNm]
	Holding			[kNm]
Output speed	Nominal (continous)			[rpm]
	Maximum (intermittent)			[rpm]
Combined nominal loads	Axial			[kN]
	Radial			[kN]
	Tilting moment			[kNm]
Combined maximum loads	Axial			[kN]
	Radial			[kN]
	Tilting moment			[kNm]
Desired lifetime [hours]				
Working conditions	Minimum temperature			[ºC]
	Maximum temperature			[ºC]
	Site / Location			

Load case 1 (Dynamic)	Load	[kN o kNm]	Working time	Number of starts per hour	*The sum of all percentages must equal 100%. Add more load cases if required.*
	Output torque				
	Axial				
	Radial		%:		
	Tilting moment		h:		
Load case 2 (Dynamic)	Load	[kN o kNm]	Working time	Number of starts per hour	
	Output torque				
	Axial				
	Radial		%:		
	Tilting moment		h:		
Load case 3 (Static)	Load	[kN o kNm]	Working time	Number of starts per hour	
	Output torque				
	Axial				
	Radial		%:		
	Tilting moment		h:		

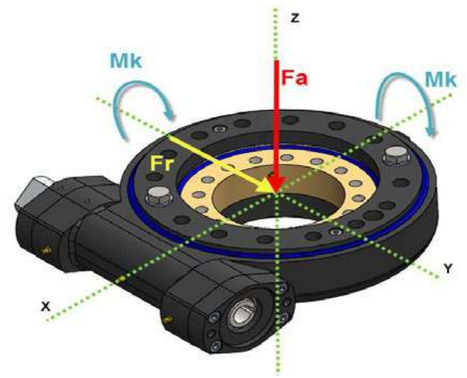
Motorization	AC ☐ DC ☐ Hydraulic ☐ Comments:
Pinion	

	Width	Length	Height
Limit dimensions			

Comments

Working position

Nominal torque
Is the output torque that the slew drive must be working with during at least the 90% of the working time. Is a dynamic torque
Maximum torque
Is the output torque that the slew drive must be working with during at least the 10% of the working time. Is a dynamic torque
Holding torque
Is the torque applied from the slew ring to the worm due to a external load. Is a static torque. It can be higher than the maximum toque

Nominal output speed
Desired speed for the application at the nominal conditions
Maximum output speed
Maximum desired speed for the application

Combined loads	
It is necessary to know the combined loads (loads that are applied together to the slew drive/slew ring). The result of axial, radial and tilting moment acting together is not the same that the same loads acting separately.	
	**Axial load** A load in z direction (perpendicular to the top plate). It must be known and noted whether the load is applied in the center of the rotation or not. **Radial load** A load in any direction contained in the plane parallel to the top plate. It must be known and noted whether the load is applied in the center of the rotation or not. **Tilting moment** Is a moment due to the eccentricity of either an axial or a radial load.

Desired lifetime
Is the target total amount of working hours for the slew drive/slew ring

Working conditions
The working conditions refer to the place in where the drive is intended to be used. Minimum and maximum temperature are used to verify if the grease is appropriate. The site/location allows TGB to ensure if the drive is properly sealed or protected (for example: dusty environments)

NOTES

OTHER TGB PRODUCTS

Over the years, TGB Group has established itself as one of the world's largest manufacturers of high-precision parts for a wide variety of applications. Our patented slewing units, as well as all of our hydraulic products, are a benchmark for our customers.

SLEW DRIVES

A wide range of slew drives for industrial and solar applications.

SLEWING RINGS

External / internal gearing, plain / stamped steel, with balls / rollers, single / double row. Custom options available.

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Essential components for precise control and motion: hydraulic motors, planetary gearboxes, swivel joints, and rotary actuators.

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