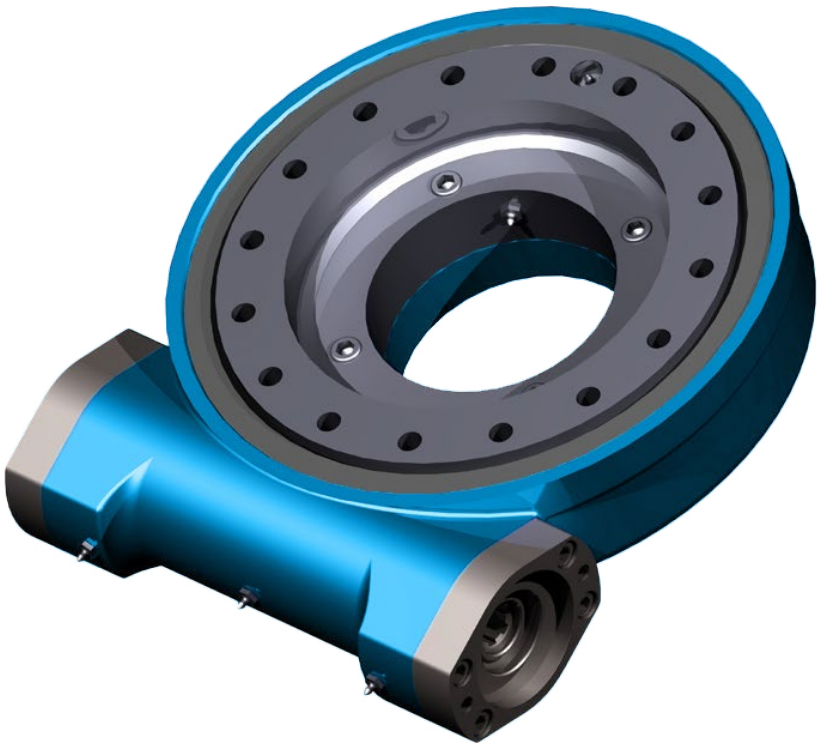
TRANSDRIVE®

DRIVE PERFORMANCE



Slewing Drives

transdrive.com.au

TRANSDRIVE®

DRIVE PERFORMANCE

TransDrive was established to bring together our passion and experience in power transmission by being able to offer affordable, high-quality products to the power transmission and bearing market. Built on the philosophy of improving performance and quality of all of our TransDrive products.

Transdrive products have been manufactured and tested to meet ISO standards and the tough, working conditions of heavy industries.

Our team have experience in power transmission and bearings. Every product we design and manufacture is backed by years of industry knowledge and an understanding of what our customers and the market need.

At TransDrive, our goal is simple: to provide accessible, high-quality products at affordable pricing. With an unwavering commitment to excellence, TransDrive operates with a focus on providing innovative industry solutions.

Whether it is through our custom products, the standard range of pulleys, slew drives, chains and sprockets, TransDrive is dedicated to delivering effective solutions for the trades that offer increased productivity and reliability.

TransDrive exclusively supply to Resellers, Wholesalers and Original Equipment Manufacturers (OEMs) only.

Distributors

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E salesqld@chainanddrives.com.au

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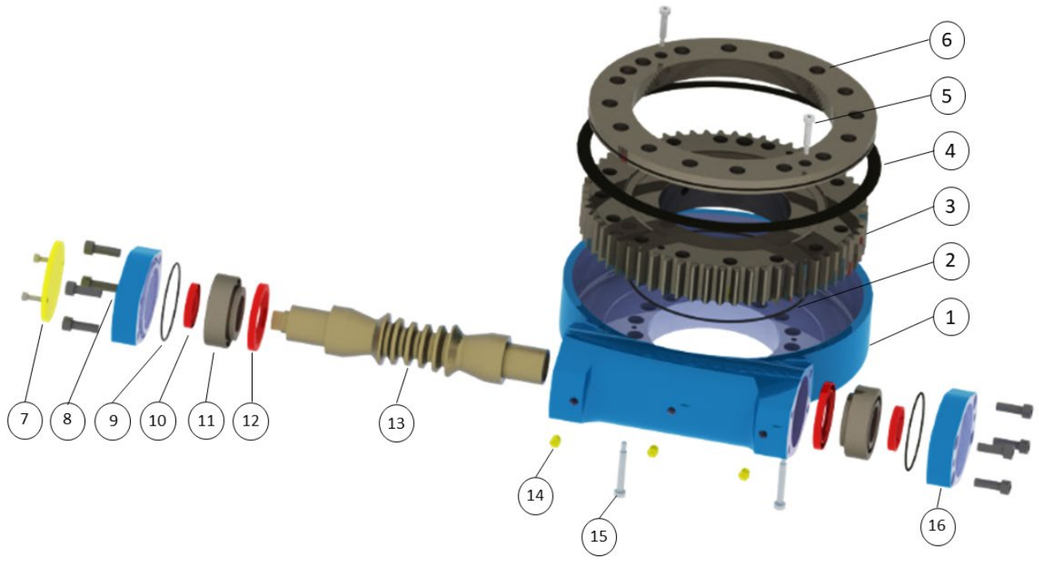
Components of a Slewing Drive



1. Enclosed Housing
2. Large O-ring
3. Slewing Ring
4. Top plate seal
5. Upper positioning bolts
6. Top plate
7. Non-drive end cover
8. End cap and bolts
9. End cap O-rings
10. Outer oil seals
11. Taper roller bearing
12. Inner oil seals
13. Worm shaft
14. Grease nipples
15. Lower positioning bolts
16. Drive end adaptor cap

Horizontal Installation

It is advised to mount the slewing drives upside down on the azimuth axis in solar applications for better protection and add protection for the elevation axis. For other applications, the mounting directions shall be based on the evaluation of the protection level and it shall be better for better protection.

Vertical Installation

It is advised to mount the slewing drives referring to attached drawing upside in solar applications for better protection. For other applications, the mounting directions shall be based on the evaluation of the protection level and it shall be better for better protection.

Transport, Storage & Mounting Preparation

To ensure slewing drives last as long as possible and perform optimally, follow these guidelines:

- Always transport and store slewing drives horizontally to prevent damage.
- Avoid shock loads to protect the raceways from harm.
- Be careful not to dislodge seals or grease fittings when moving the drives.

In humid conditions, light to mild surface corrosion might occur, but it can be easily removed from the external surfaces. It's crucial to keep the raceways well-greased to prevent rust. TransDrive slewing drives are coated with epoxy in RAL 5005 Blue for added protection.

When stacking unwrapped bearings vertically, use wooden or rubber spacers to avoid surface damage. Protect exposed gear teeth from impact damage.

Do not suspend slewing rings from a crane with a single sling, and avoid placing them on the ground vertically, as they may deform under their own weight.

Flatness Defects

Under load, flatness defects must remain within the specified limits to prevent tight spots or seizure, both of which can reduce the ring's operating life. The listed values pertain to "long wave deviations" around the circumference. It's important to note that X-roller bearings require finer tolerances than ball bearings for smooth operation.

Shorter wave defects (e.g., between two bolt holes) must not exceed 25% of this value.

Radial direction defects, known as "conicity," must not exceed 0.05 mm/m based on the raceway diameter.

Raceway	7	9	12	14	17	19	21	25
Flatness deviation in	0.04"	0.12"	0.15"	0.15"	0.15"	0.17"	0.20"	0.20"

Tracking Accuracy

Under load, flatness defects must remain within the specified limits to prevent tight spots or seizure, both of which can reduce the ring's operating life. The listed values pertain to "long wave deviations" around the circumference. It's important to note that X-roller bearings require finer tolerances than ball bearings for smooth operation.

Shorter wave defects (e.g., between two bolt holes) must not exceed 25% of this value.

Radial direction defects, known as "conicity," must not exceed 0.05 mm/m based on the raceway diameter.

Lubrication

TransDrive slewing drives are factory filled with a satisfactory grease. The re-greasing period is best determined by the environment in which the drive itself is kept. During re-greasing it is best to rotate the bearing to ensure the lubricant is evenly lubricated.

Environment	Recommended period
Dry, clean workshop	1000hrs duty or 12 months
Outside, exposed	500hrs duty or 6 months
Aggressive	50hrs duty or 2 months
Extreme	Continuous

The amount of grease required is given in the following table:

Raceway	3	5	7	9	12	14	17	19	21	25
Raceway	-	15	20	35	50	60	75	105	130	150
Worm Gear	35	60	65	100	110	110	120	130	140	150
Worm support brgs	7	7	7	10	10	10	10	10	10	10

Measurements are in grains

The responsibilty remains with the client to ensure the bearing is sufficiently and freshly lubricated at time of installation. Below are some brands and their greases that are highly recommended.

Brand	Grease	Operating temp range
Kluber	Isoflex NBU 15	-20 to +120 C
Mobil	Mobiltemp SHC 100	-20 to +120 C
Cougar	CG 8100	-40 to +200 C

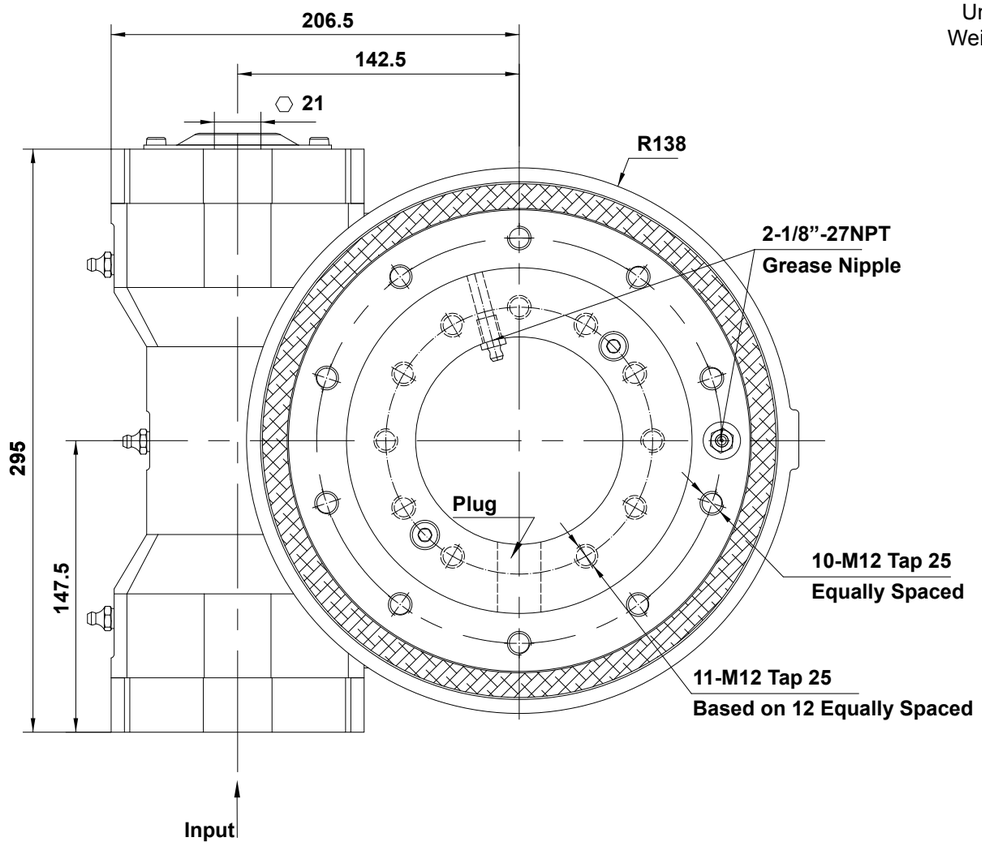
FWA Series

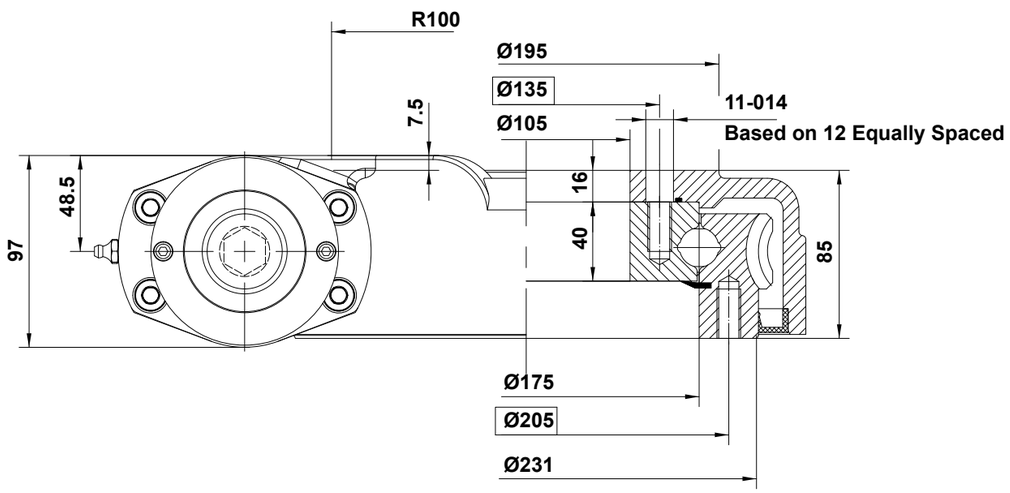
The FWA Series slewing drives are robust, sealed, and high-precision rotary actuators, ideal for demanding outdoor and industrial applications. Their advanced design offers enhanced strength, environmental protection, and reliability over traditional slewing drives

Our range

- FWA7
- FWA9
- FWA12
- FWA14
- FWA14-2
- FWA17
- FWA17-2
- FWA19
- FWA21
- FWA21-2
- FWA25
- FWA25-2

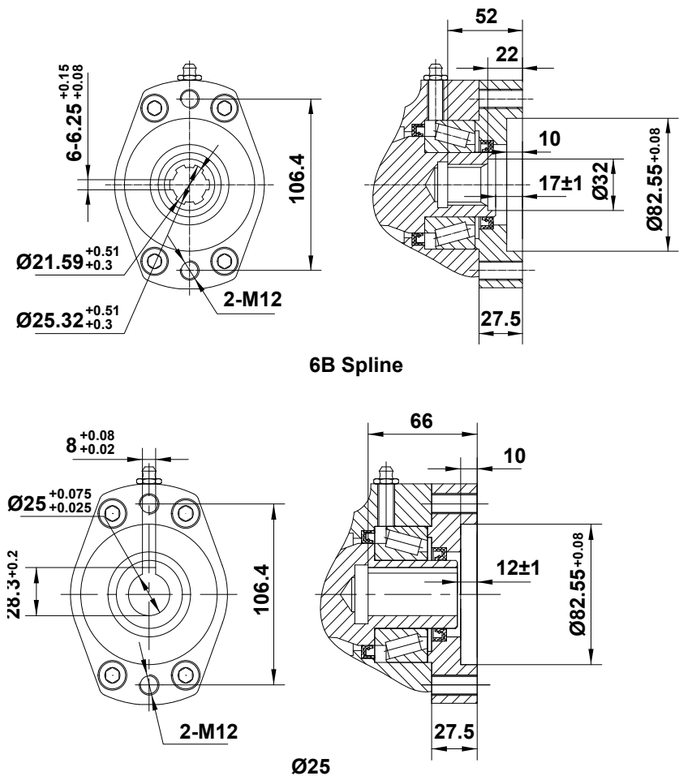
Units: mm
Weight: 35kg





FWA Series
FWA7
TRANSDRIVE® DRIVE PERFORMANCE

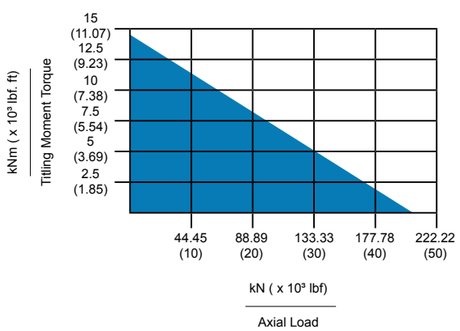
INPUT



FWA7 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA7	3.5kNm	14.7kNm	20.6kNm	227kN	92.7kN	47:1	≤0.15°	35kg
	2583lbf.ft	10.8 x 10^3lbf.ft	15.2 x 10^3lbf	51 x 10^3lbf	20.8 x 10^3lbf			

FWA7 - Moment Load Chart



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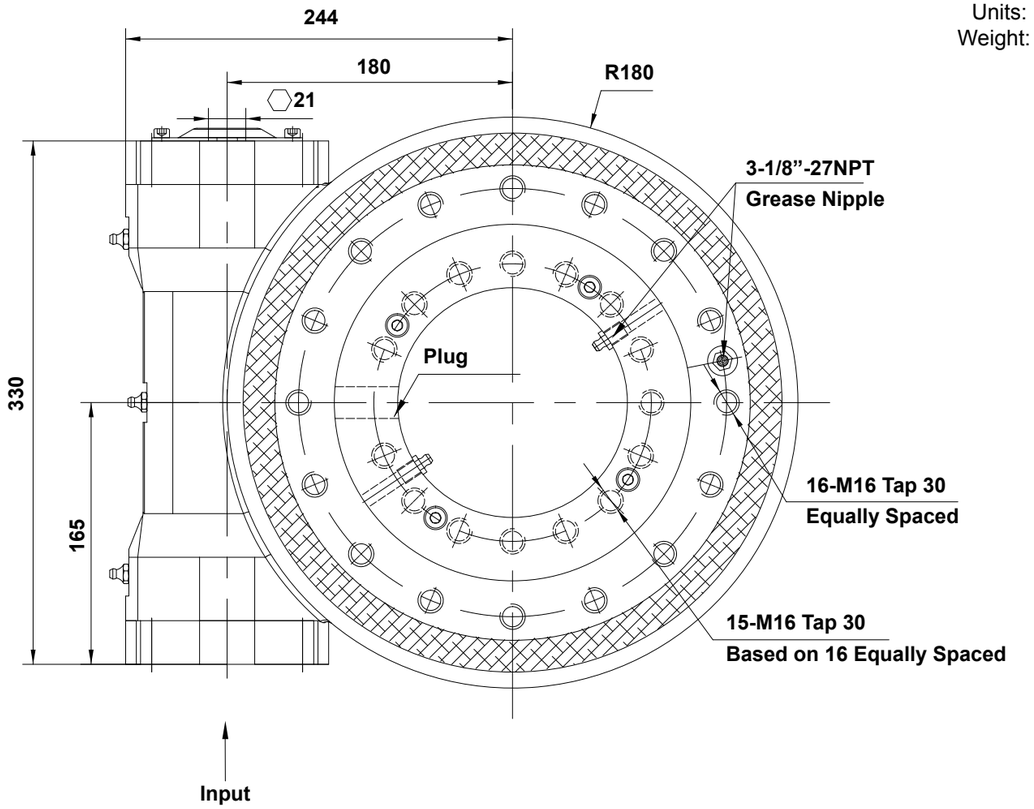
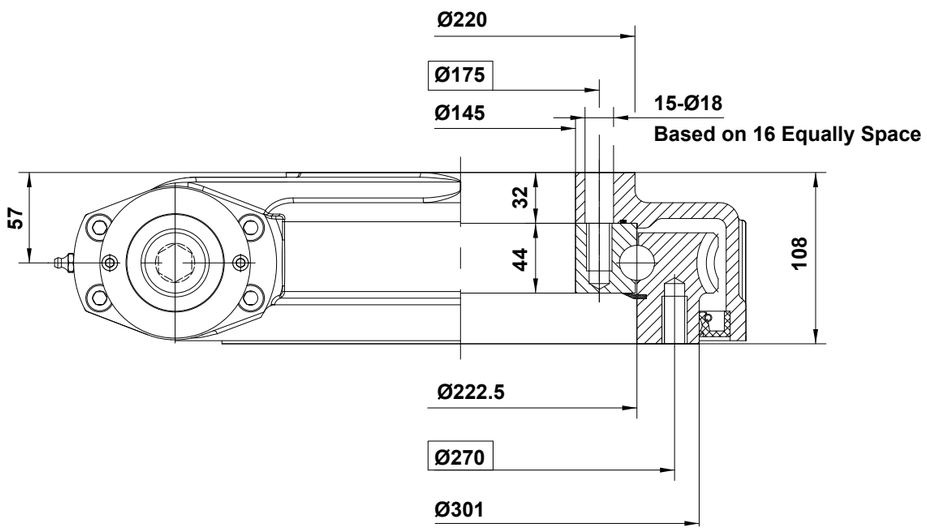
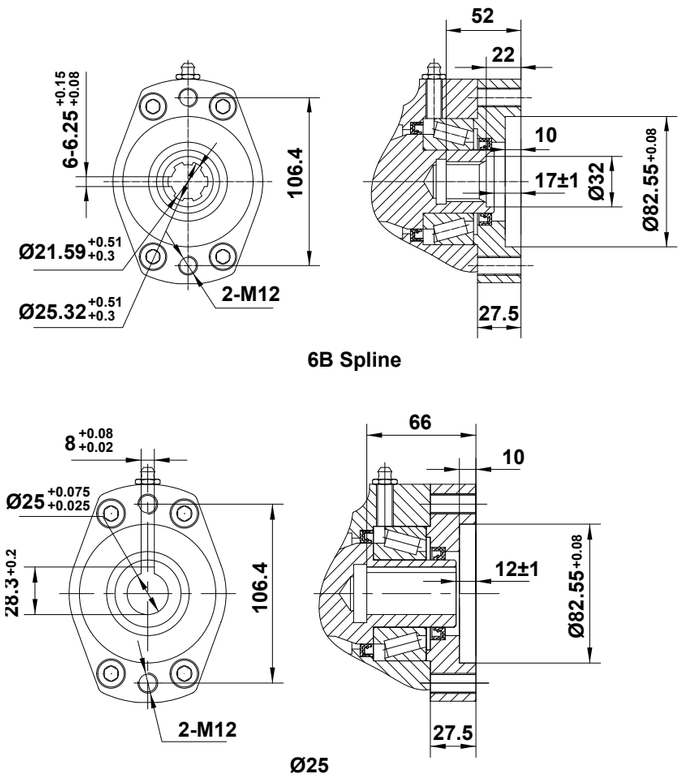
Units: mm
Weight: 52kg





FWA Series
FWA9
TRANSDRIVE® DRIVE PERFORMANCE

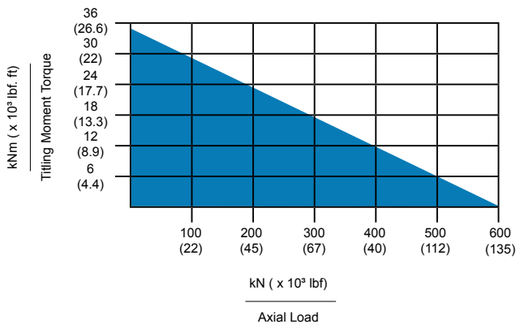
INPUT



FWA9 - Slewing Drive Performance Parameters

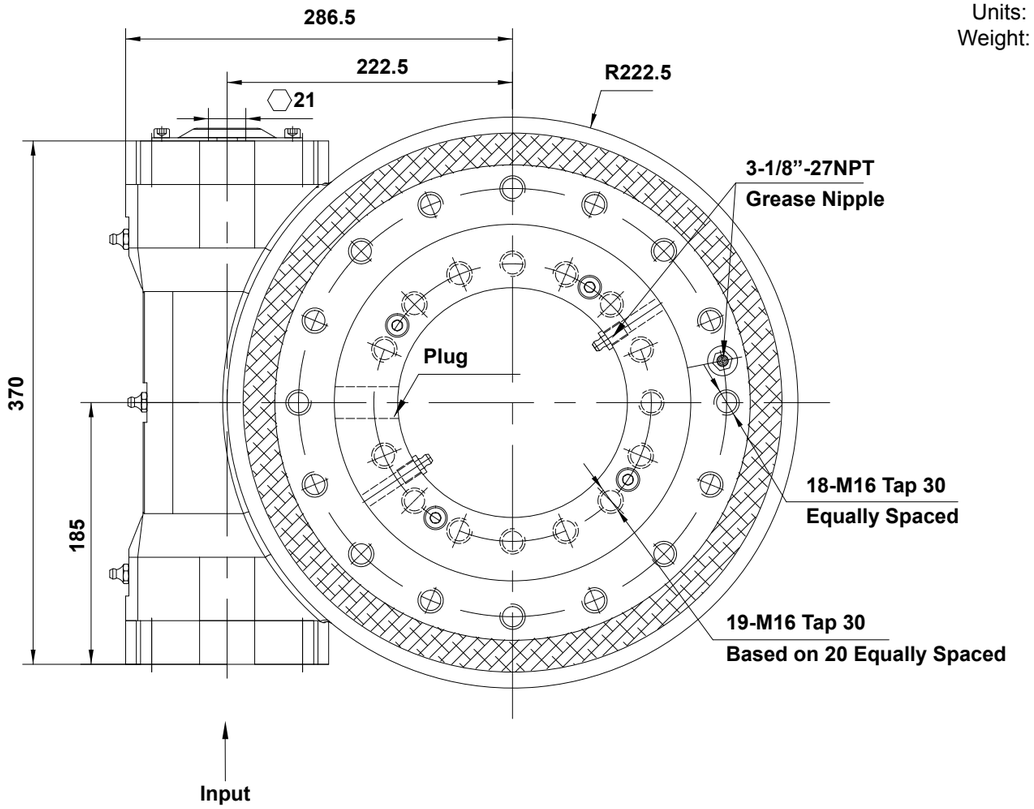
Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA9	8kNm	35.6kNm	39.8kNm	550kN	220kN	62:1	≤0.15°	52kg
	5904lbf.ft	26.3 x 10^3lbf.ft	29.37 x 10^3lbf	130.3 x 10^3lbf	49.4 x 10^3lbf			

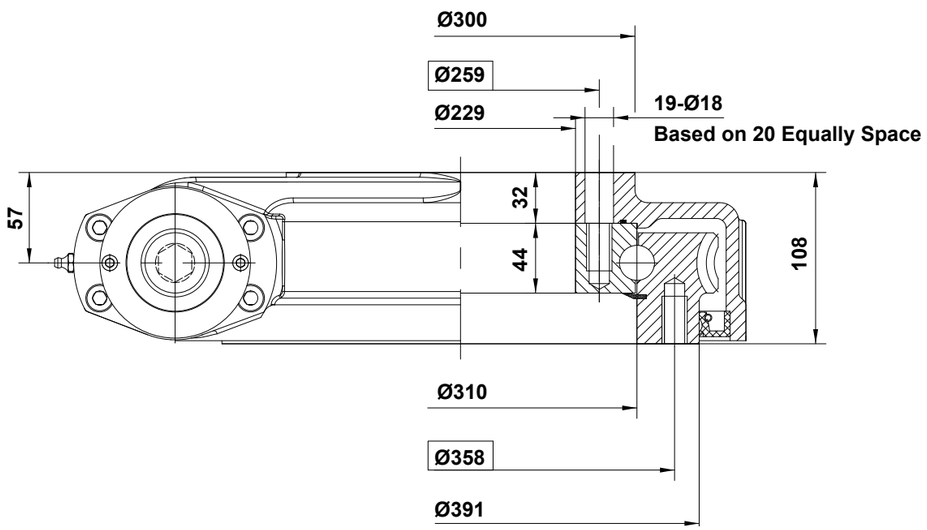
FWA9 - Moment Load Chart



Notice: Please be sure to remain under this curve.

Units: mm
Weight: 67kg





FWA Series
FWA12
TRANSDRIVE® DRIVE PERFORMANCE

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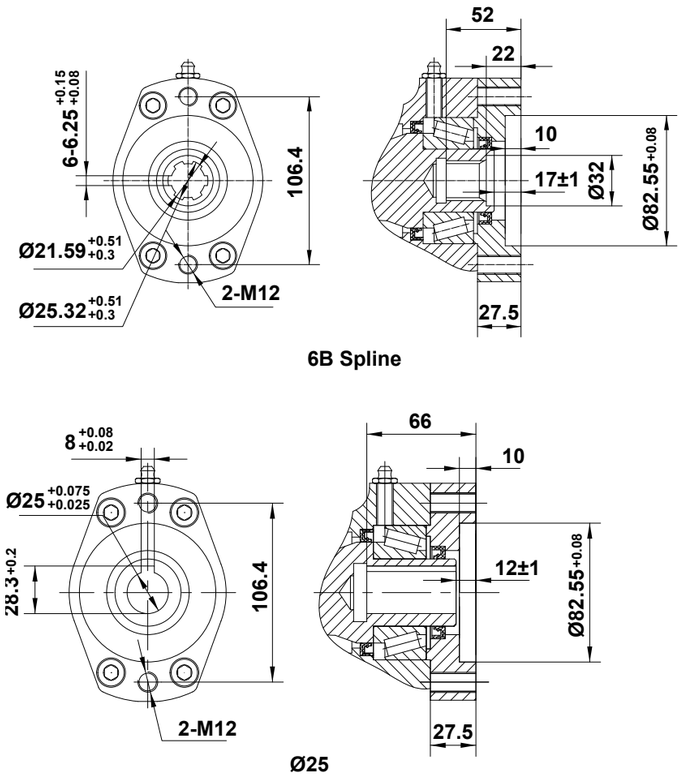
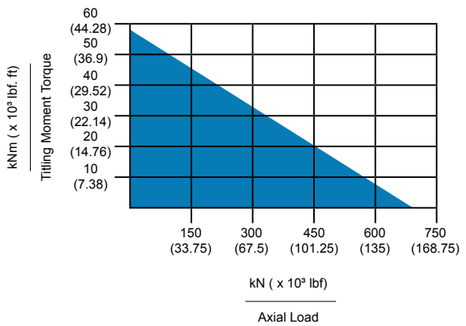


FWA12 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA12	9.5kNm	57kNm	44.3kNm	760kN	280kN	79:1	≤0.15°	67kg
	7011lbf.ft	41.2 x 10^3lbf.ft	32.7 x 10^3lbf	171.1 x 10^3lbf	62.9 x 10^3lbf			

FWA12 - Moment Load Chart



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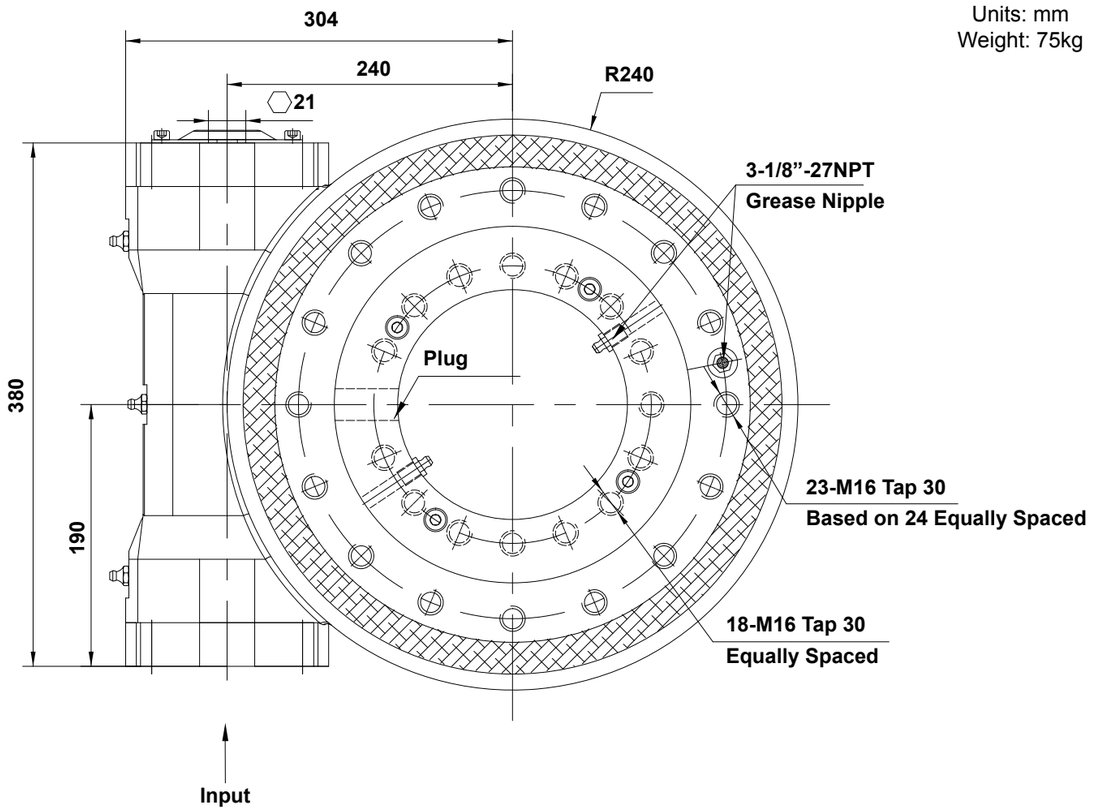
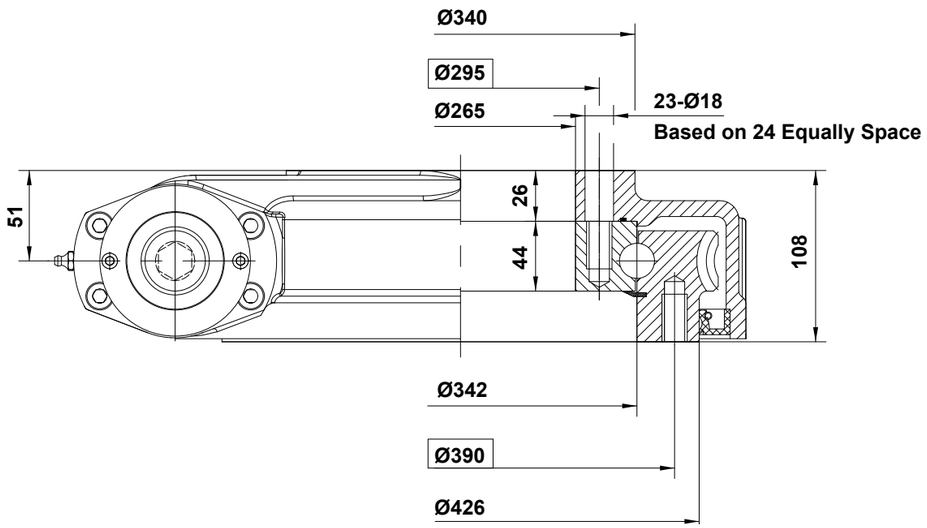


Units: mm
Weight: 75kg



FWA Series
FWA14
TRANSDRIVE® DRIVE PERFORMANCE

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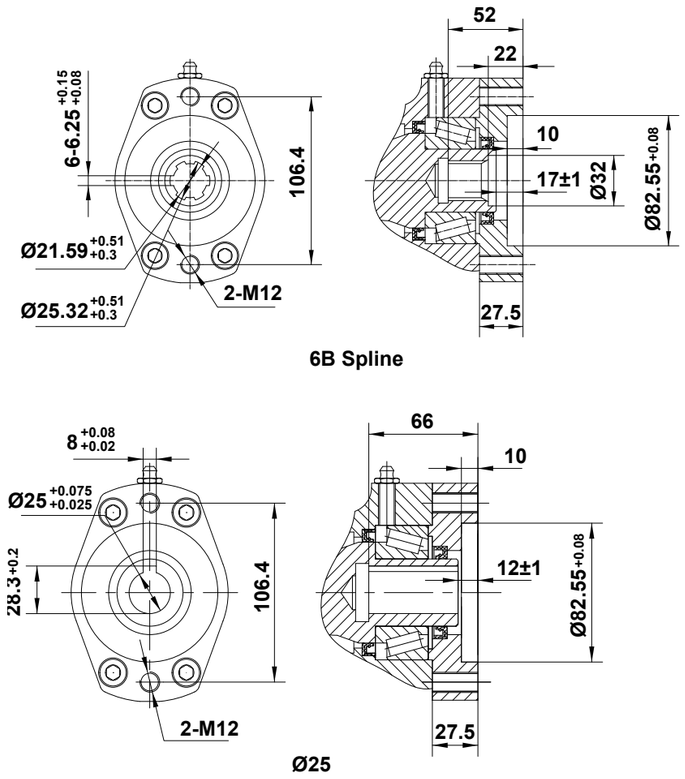
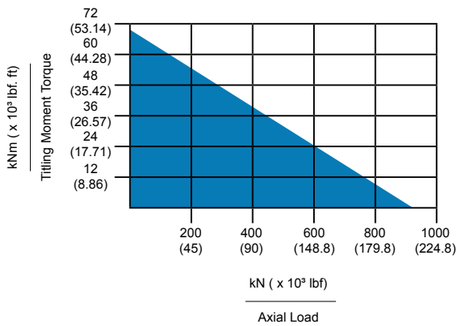


FWA14 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA14	10.8kNm	71.2kNm	49.5kNm	960kN	360kN	86:1	≤0.15°	75kg
	7970lbf.ft	52.5 x 10^3lbf.ft	36.5 x 10^3lbf	215.8 x 10^3lbf	80.9 x 10^3lbf			

FWA14 - Moment Load Chart



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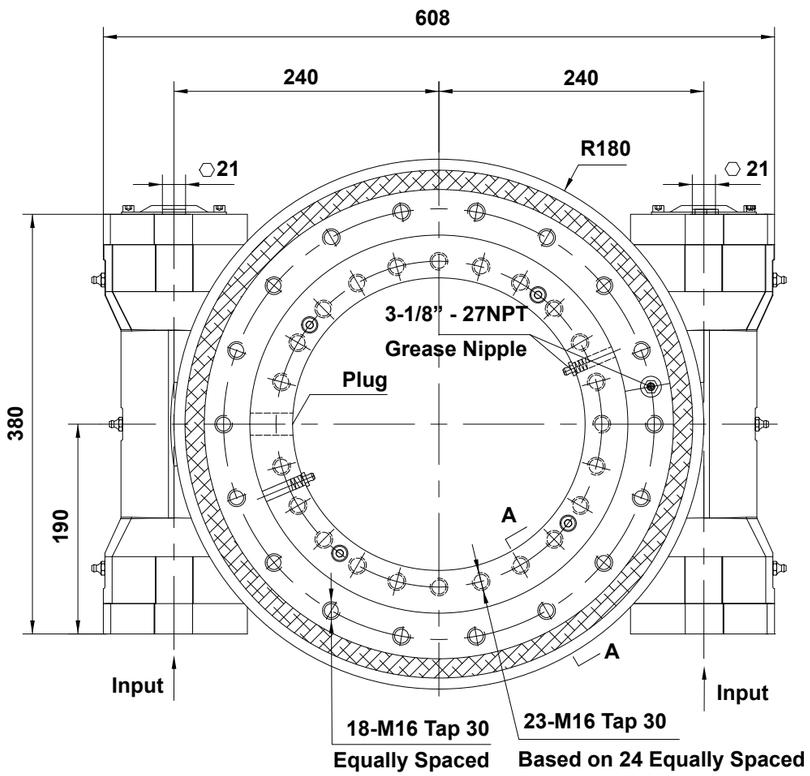

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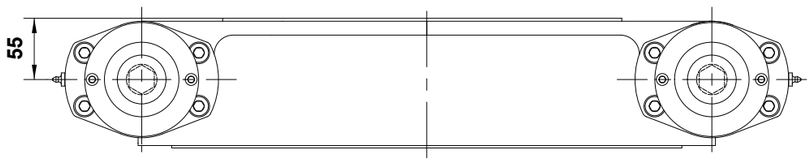
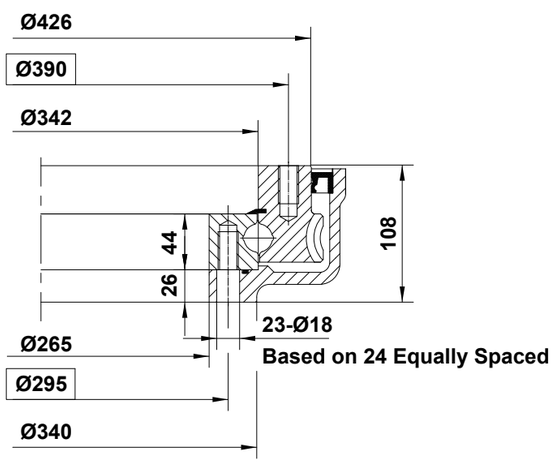
Weight: 90kg





FWA Series
FWA14-2
TRANSDRIVE® DRIVE PERFORMANCE

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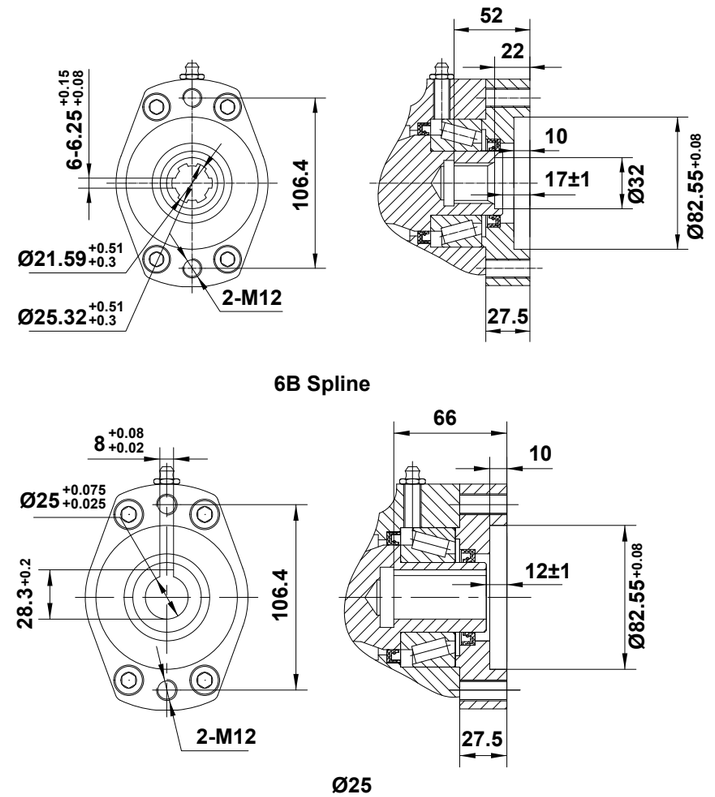
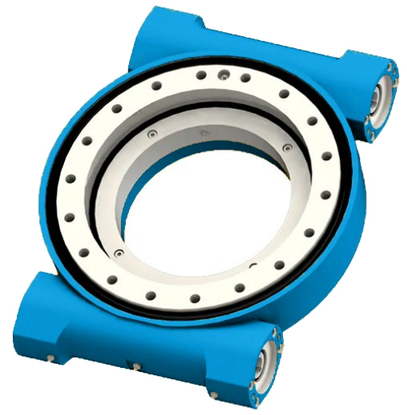
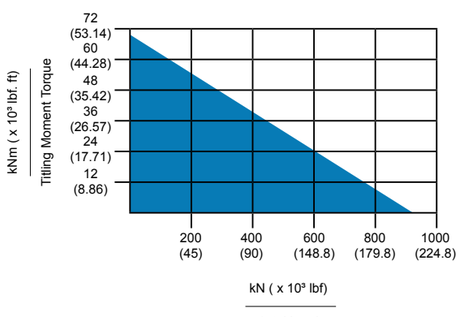




FWA14-2 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA14-2	16.2kNm	71.2kNm	74kNm	956kN	363kN	86:1	≤0.17°	90kg
	11956lbf.ft	62.6 x 10^3lbf.ft	54.6 x 10^3lbf	216.9 x 10^3lbf	81.6 x 10^3lbf			

FWA14-2 - Moment Load Chart



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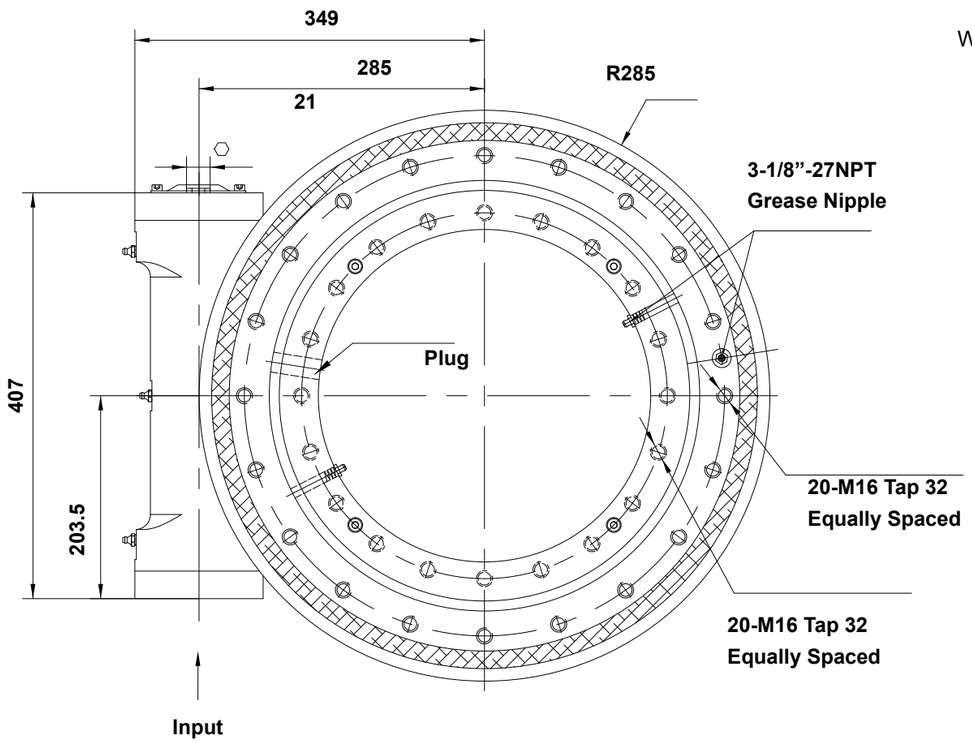
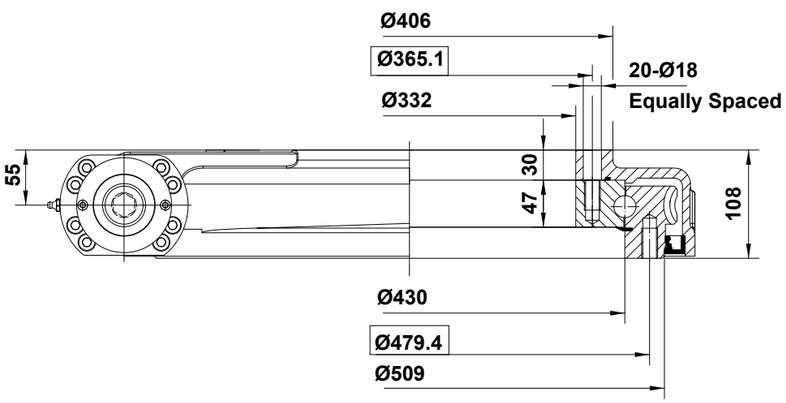
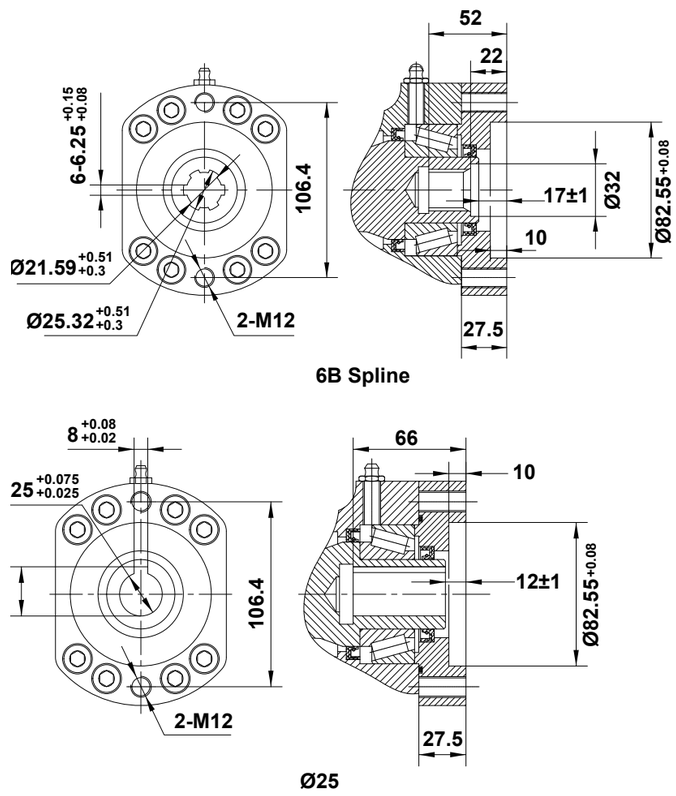


Units: mm
Weight: 97kg



FWA Series
FWA17
TRANSDRIVE® DRIVE PERFORMANCE

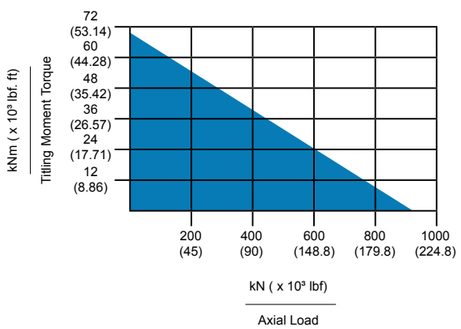
INPUT



FWA17 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA17	12.96kNm	142.4kNm	74kNm	1166kN	435kN	104:1	≤0.1°	97kg
	9564lbf.ft	105 x 10^3lbf.ft	54.6 x 10^3lbf	262 x 10^3lbf	97.8 x 10^3lbf			

FWA17 - Moment Load Chart



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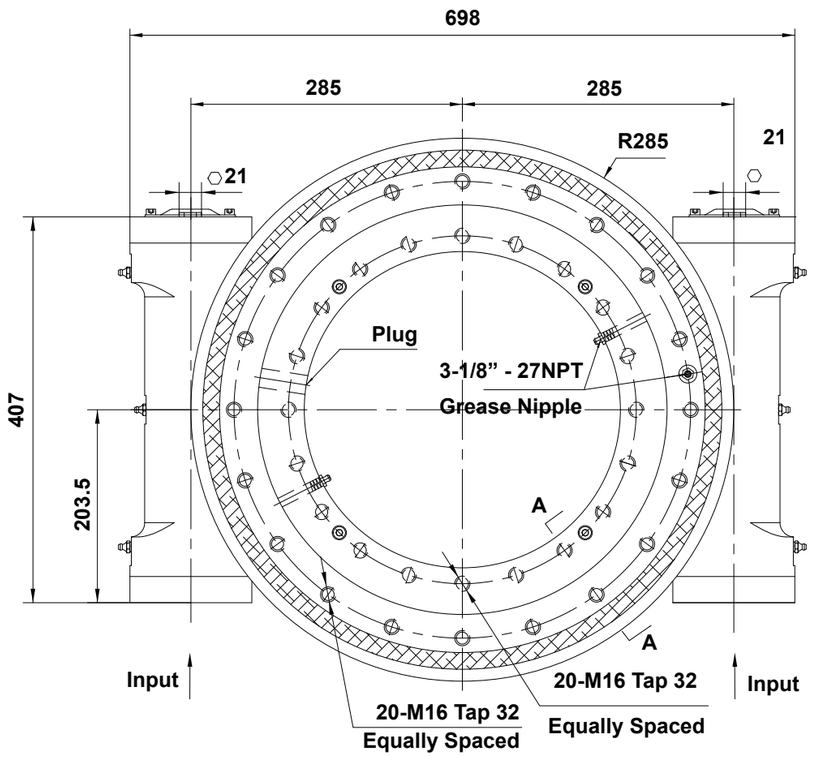
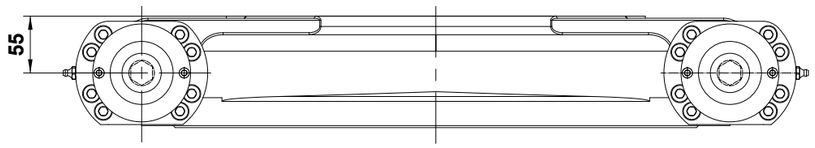
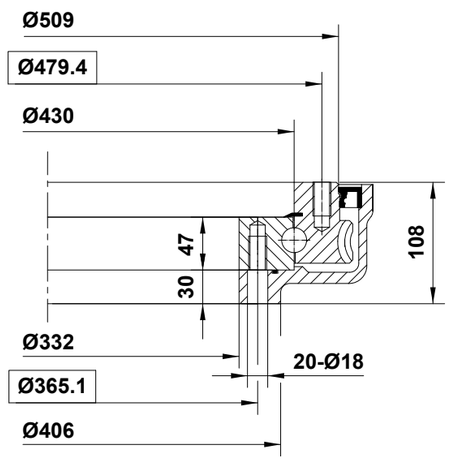


Units: mm
Weight: 115kg





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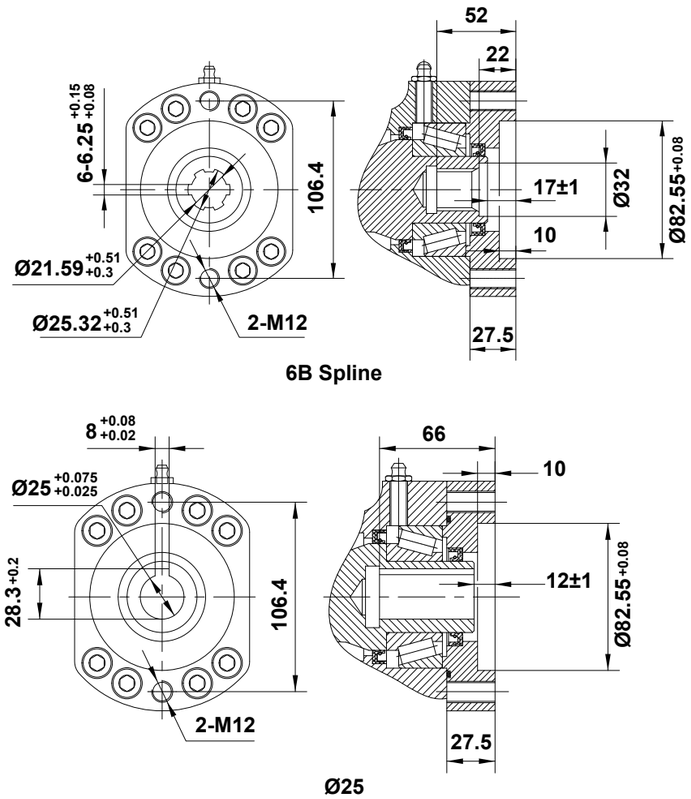
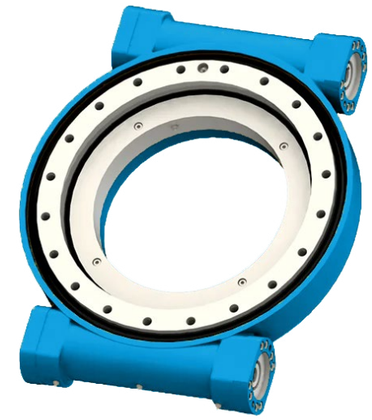
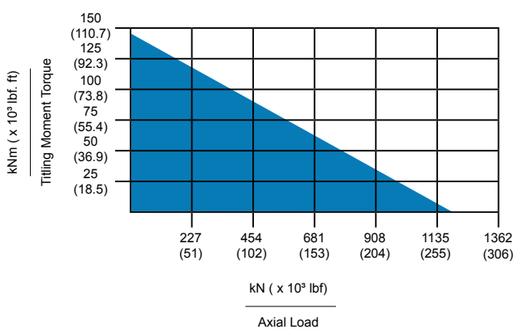




FWA17-2 - Slewing Drive Performance Parameters

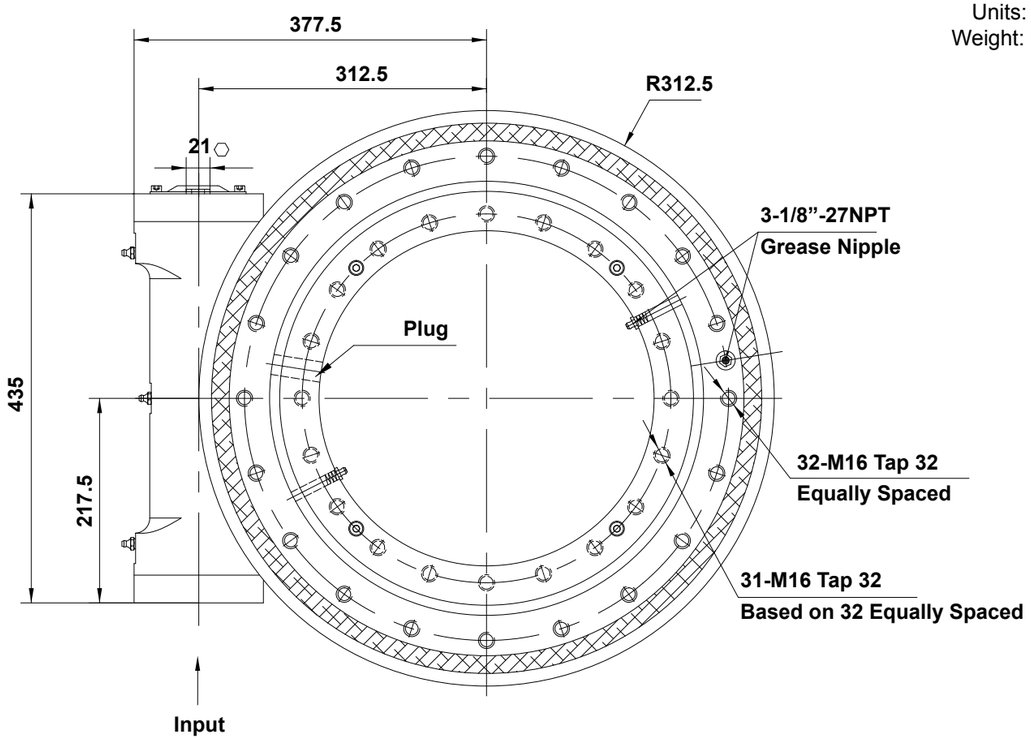
Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA17-2	19.44kNm	142.4kNm	110kNm	1166kN	435kN	104:1	≤0.15°	115kg
	14347lbf.ft	105 x 10^3lbf.ft	81.2 x 10^3lbf	262 x 10^3lbf	97.8 x 10^3lbf			

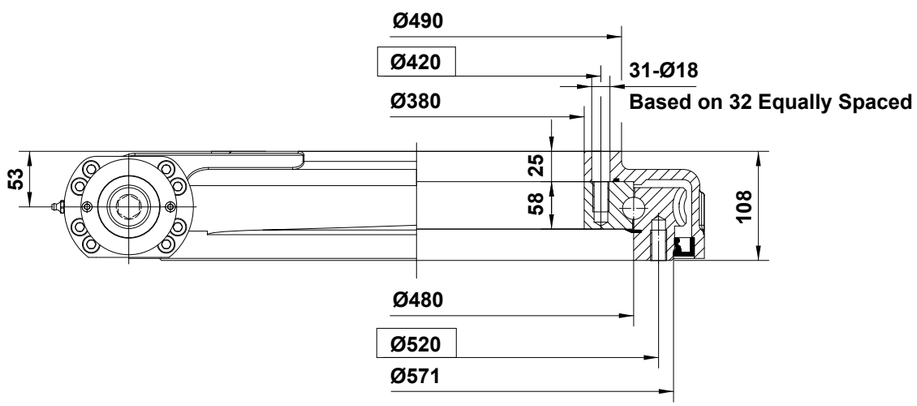
FWA17-2 - Moment Load Chart



Notice: Please be sure to remain under this curve.

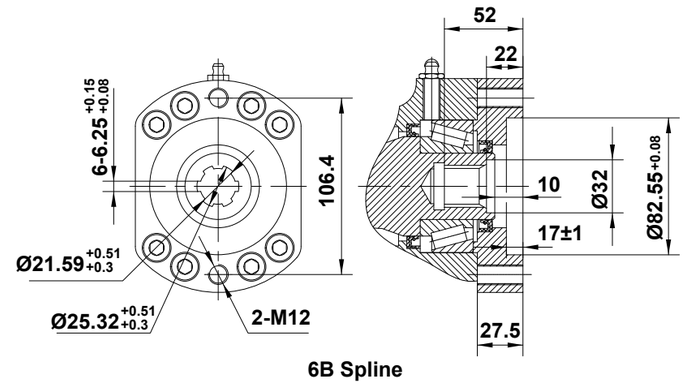
Units: mm
Weight: 120kg

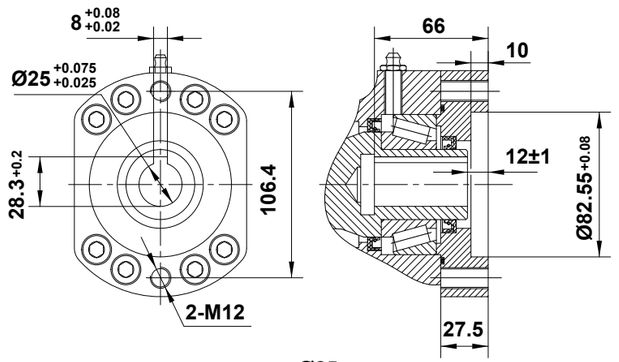


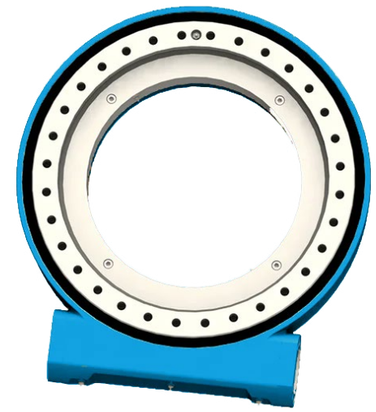


FWA Series
FWA19
TRANSDRIVE® DRIVE PERFORMANCE

INPUT



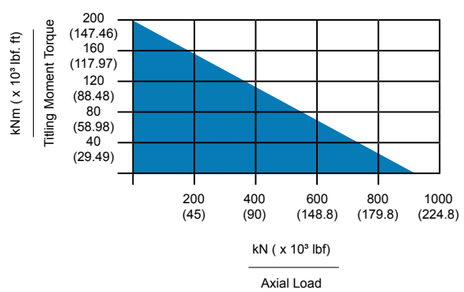




FWA19 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA19	18.5kNm	196kNm	82kNm	1810kN	675kN	94:1	≤0.1°	120kg
	13640lbf.ft	144.5 x 10^3lbf.ft	60.5 x 10^3lbf	406 x 10^3lbf	151.7 x 10^3lbf			

FWA19 - Moment Load Chart



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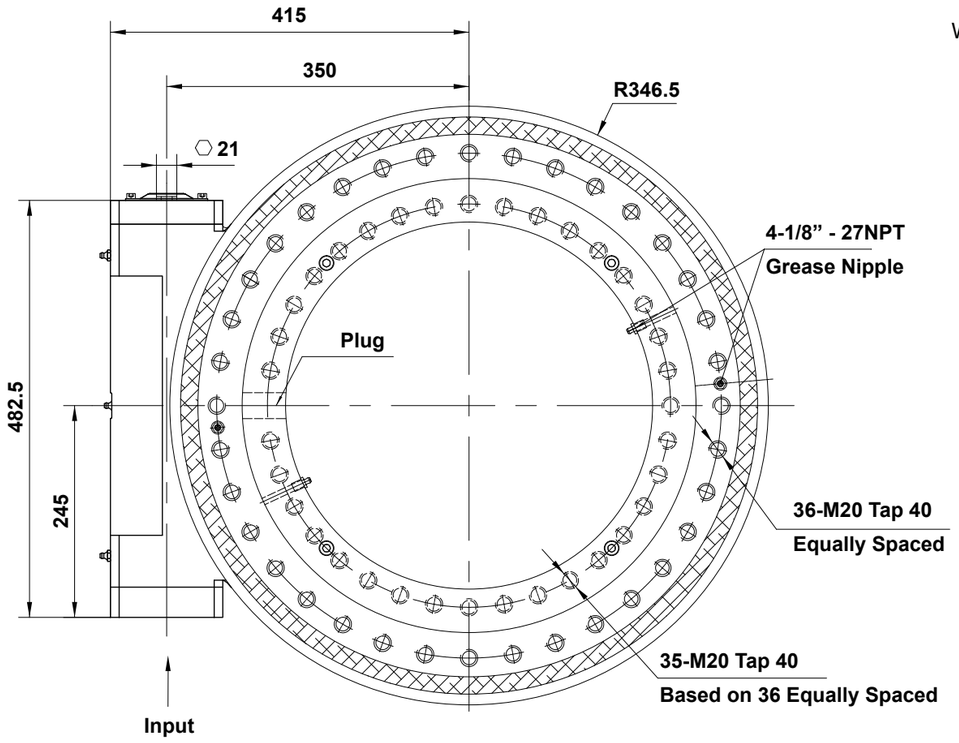
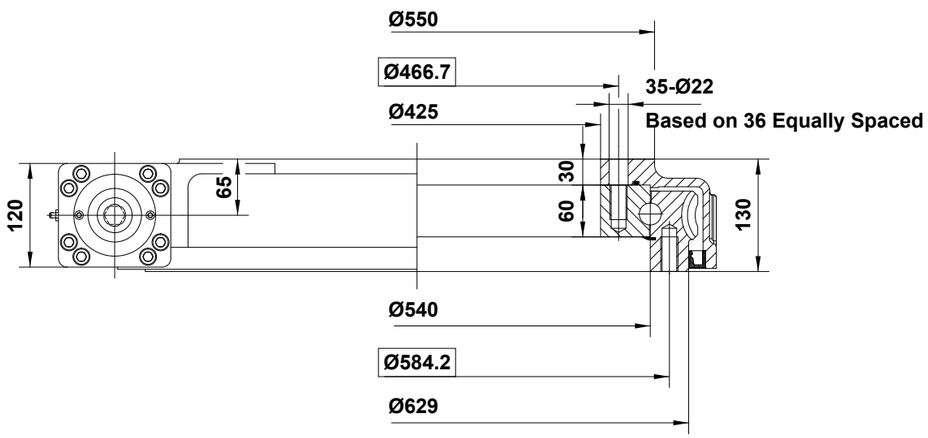
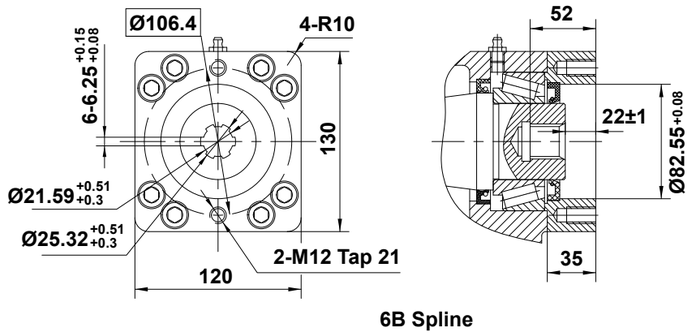


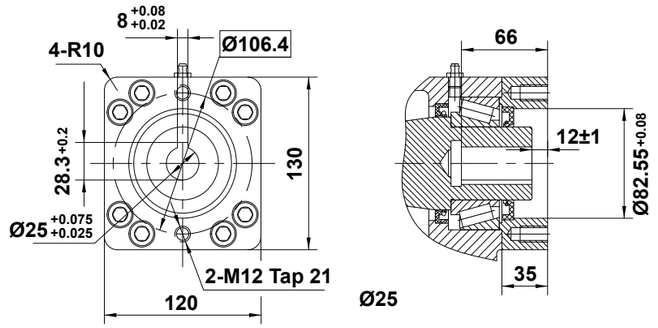
Units: mm
Weight: 170kg

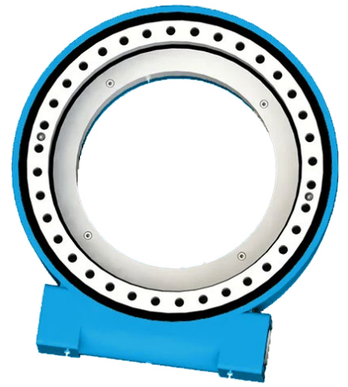


FWA Series
FWA21
TRANSDRIVE® DRIVE PERFORMANCE

INPUT



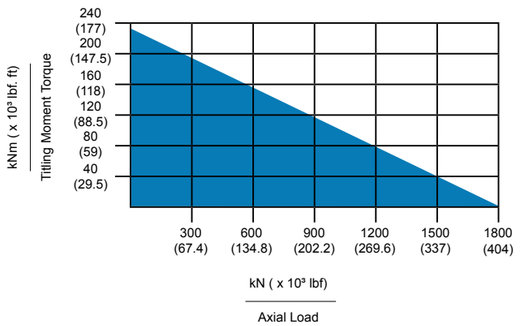




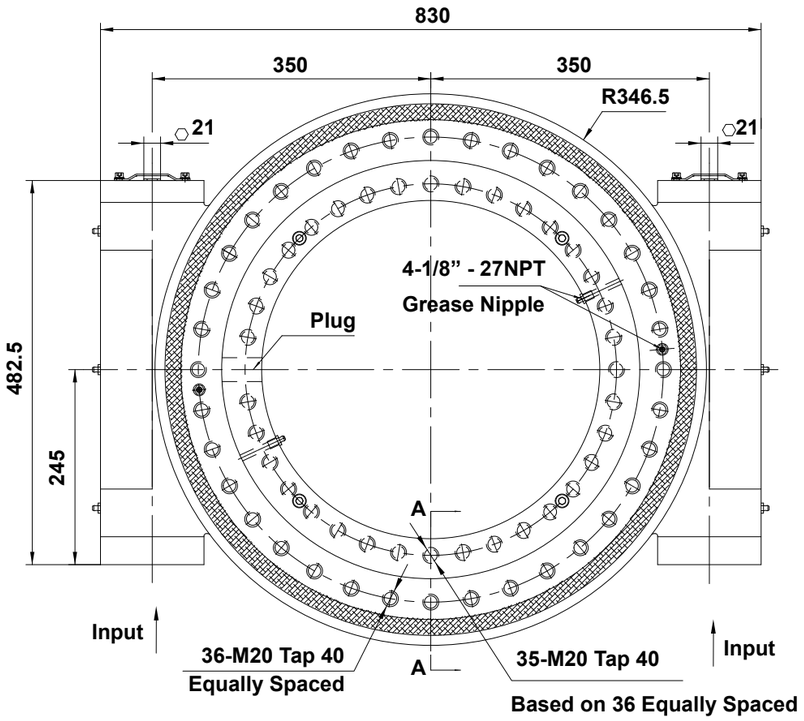
FWA21 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA21	28.7kNm	203kNm	107kNm	1600kN	650kN	90:1	≤0.1°	170kg
	21180lbf.ft	150 x 10^3lbf.ft	78.9 x 10^3lbf	359.7 x 10^3lbf	146 x 10^3lbf			

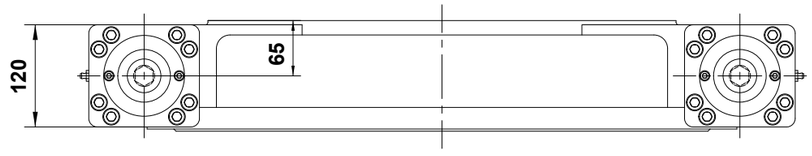
FWA21 - Moment Load Chart

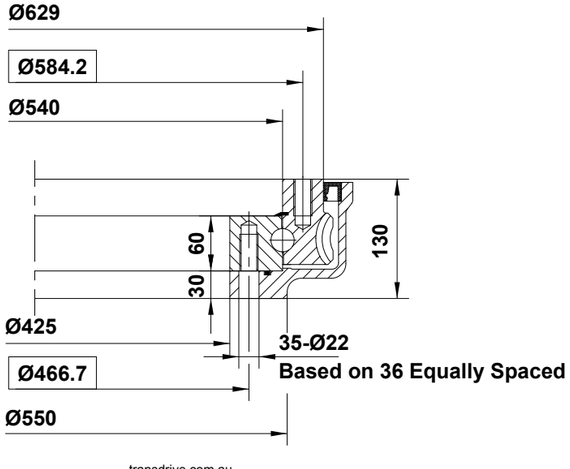


Notice: Please be sure to remain under this curve.



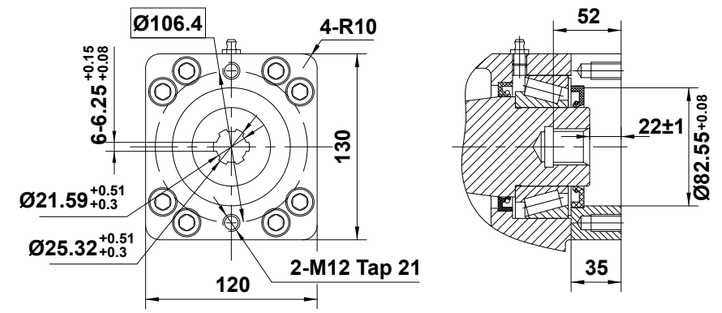
Units: mm
Weight: 200kg



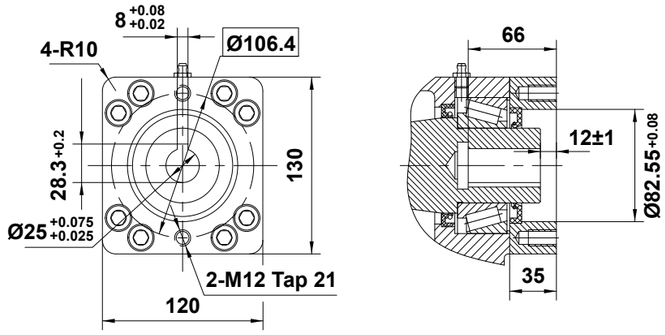


FWA Series
FWA21-2
TRANSDRIVE® DRIVE PERFORMANCE

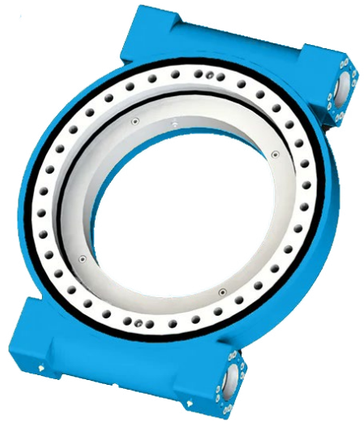
INPUT



6B Spline



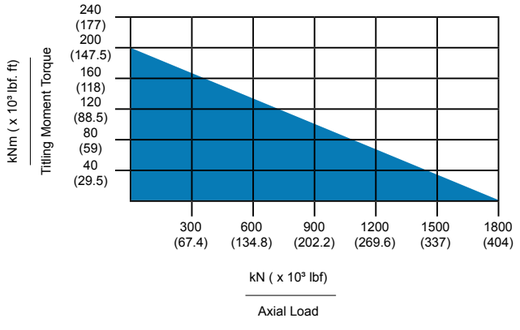
Ø25



FWA21-2 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA21-2	48kNm	203kNm	181kNm	1600kN	650kN	90:1	≤0.13°	200kg
	35400lbf.ft	150 x 10^3lbf.ft	141 x 10^3lbf	359.7 x 10^3lbf	146 x 10^3lbf			

FWA21-2 - Moment Load Chart



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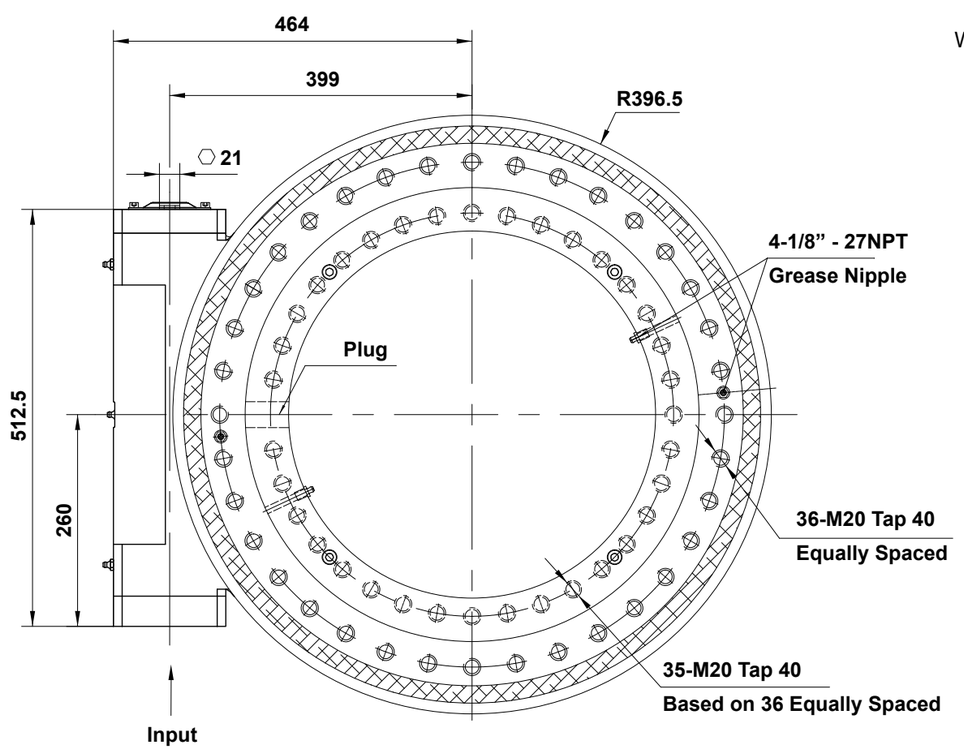
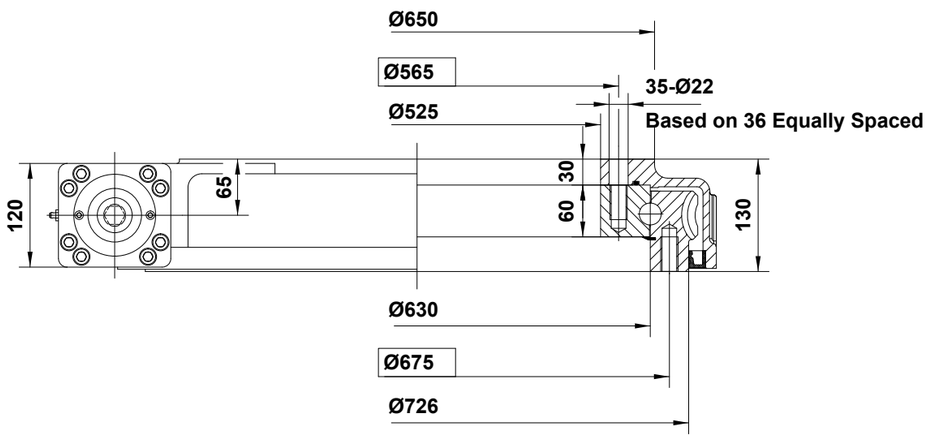
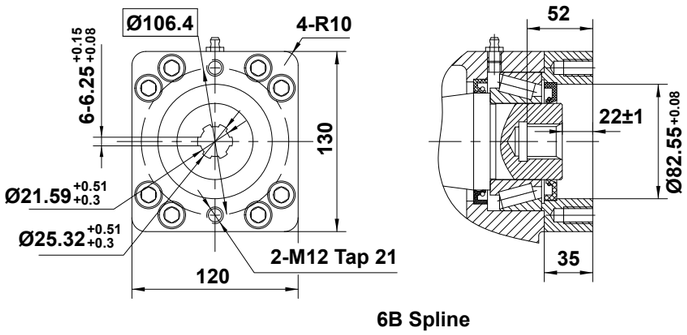


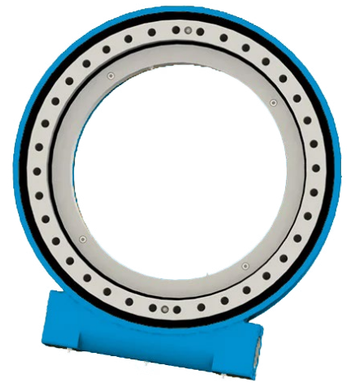
Units: mm
Weight: 200kg

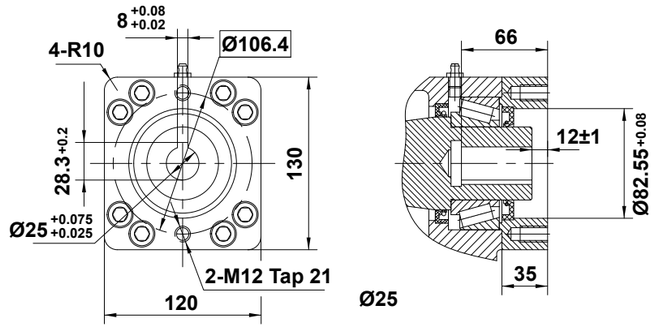


FWA Series
FWA25
TRANSDRIVE® DRIVE PERFORMANCE

INPUT



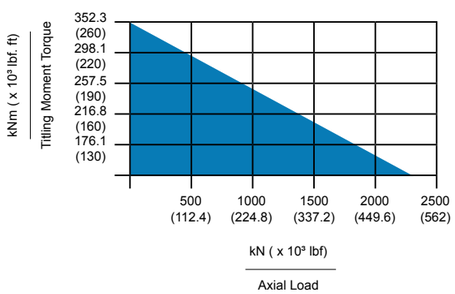




FWA25 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA25	34.2kNm	310kNm	160kNm	2400kN	950kN	104:1	≤0.1°	200kg
	25240lbf.ft	229 x 10³lbf.ft	118 x 10³lbf	539.5 x 10³lbf	213.6 x 10³lbf			

FWA25 - Moment Load Chart



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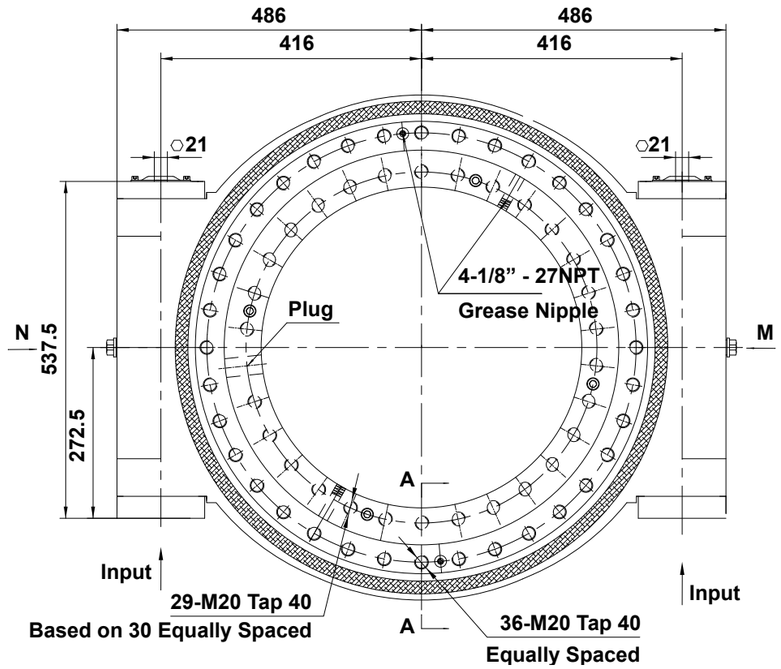
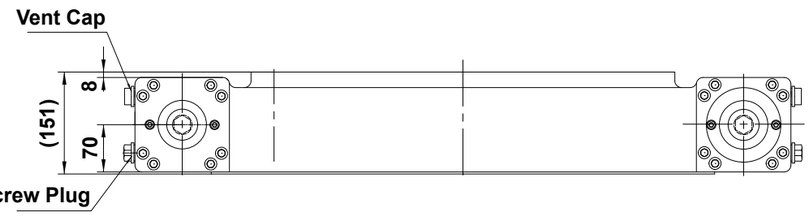
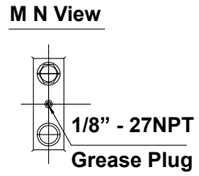
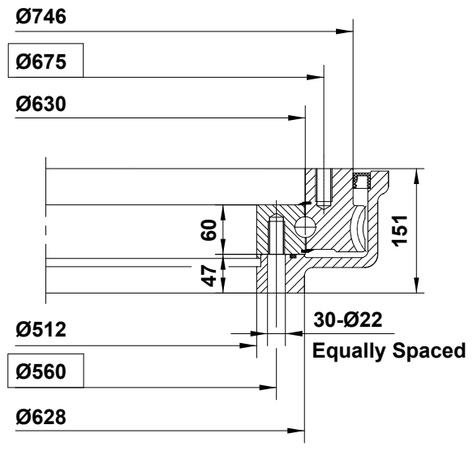


Units: mm
Weight: 270kg

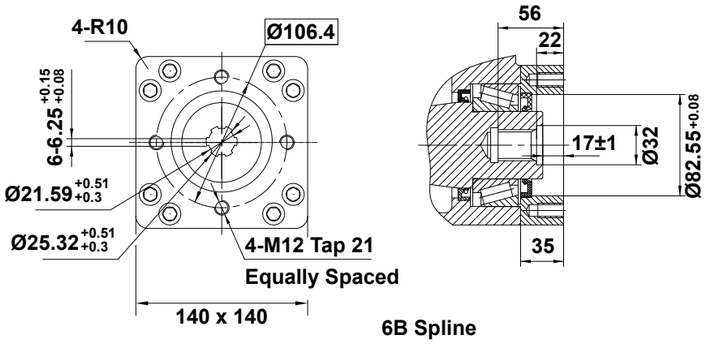


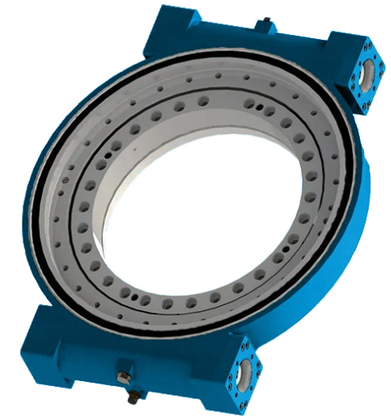


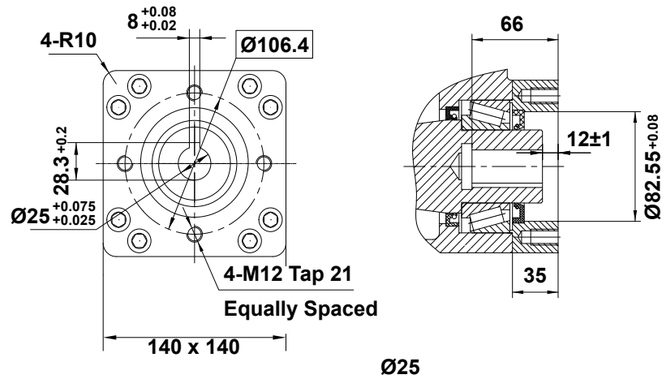


FWA Series
FWA25-2
TRANSDRIVE® DRIVE PERFORMANCE

INPUT



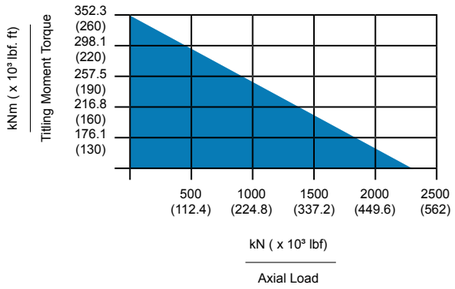




FWA25-2 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Axial Load	Radial Load	Ratio	Backlash	Weight
FWA25-2	58kNm	310kNm	275kNm	2400kN	950kN	108:1	≤0.13°	270kg
	42800lbf.ft	229 x 10^3lbf.ft	203 x 10^3lbf	539.5 x 10^3lbf	213.6 x 10^3lbf			

FWA25-2 - Moment Load Chart



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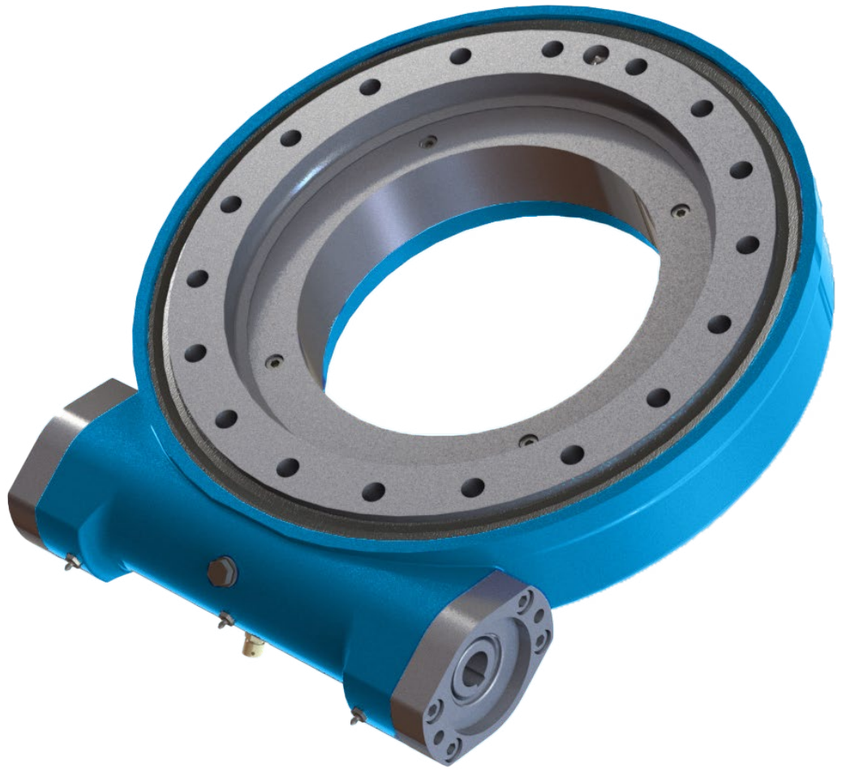
HSE Series

The HSE (High Speed Enclosed) Series features enclosed gearing for enhanced drive performance. This design offers superior protection against dust, moisture, and debris, increasing the drive system's durability and longevity.

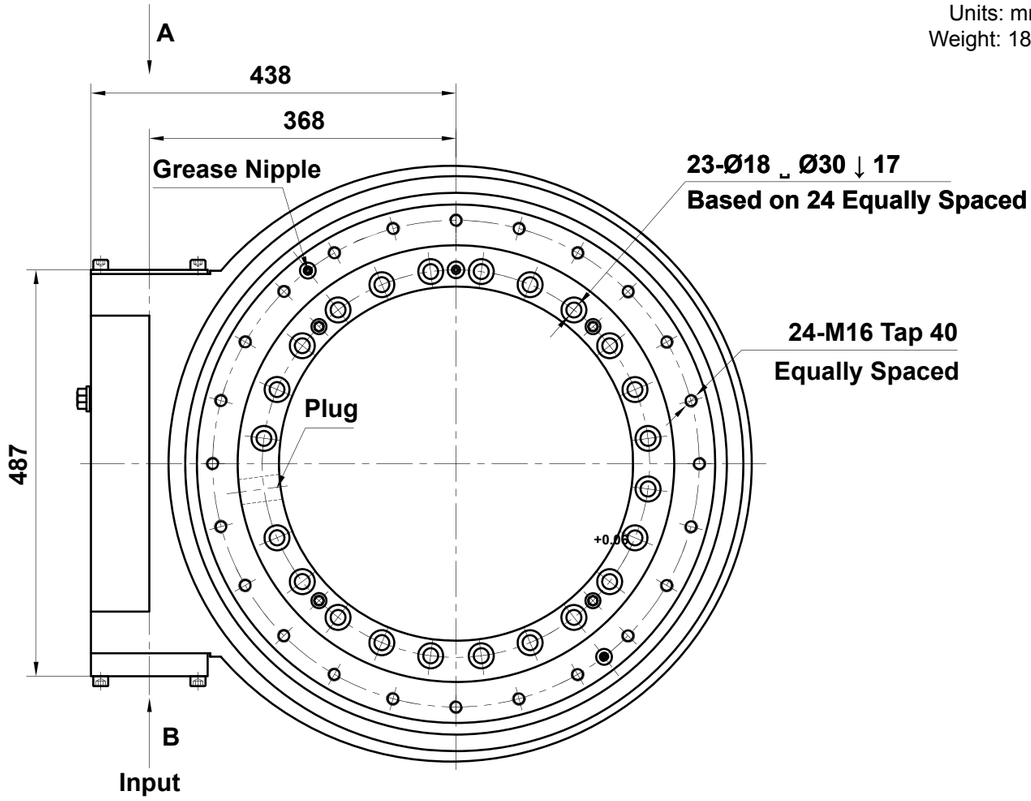
The improved performance ensures smoother, more efficient operation, reducing wear and maintenance needs. Ideal for demanding applications, the HSE Series delivers reliable functionality in tough conditions

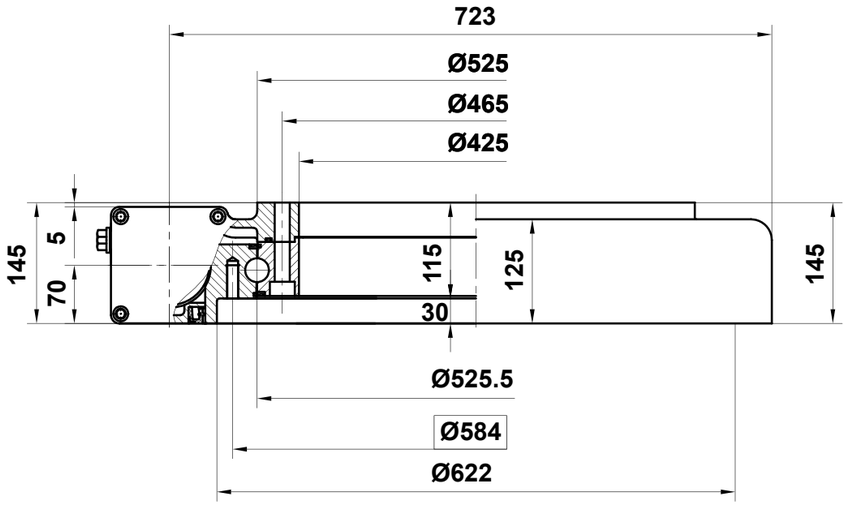
Our range

- HSE21
- HSE21-2
- HSE25
- HSE25-2



Units: mm
Weight: 186kg



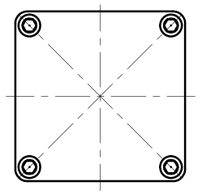


Ø40

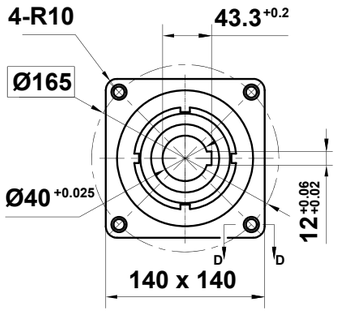
NORMAL

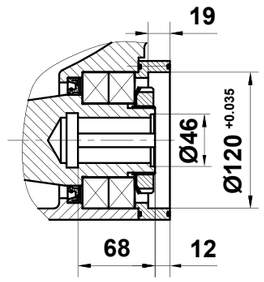
VIEW A

END CAP

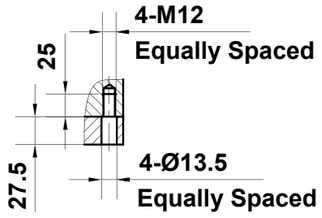


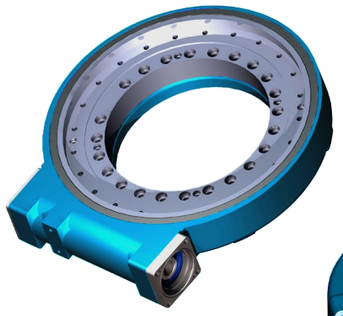
VIEW B

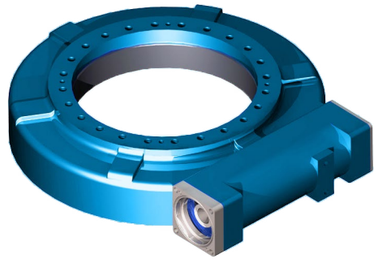




D-D



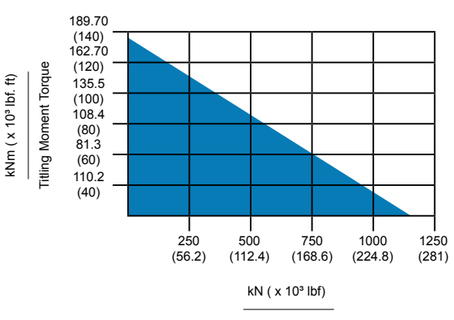




HSE21 - Worm Drive Performance Parameters

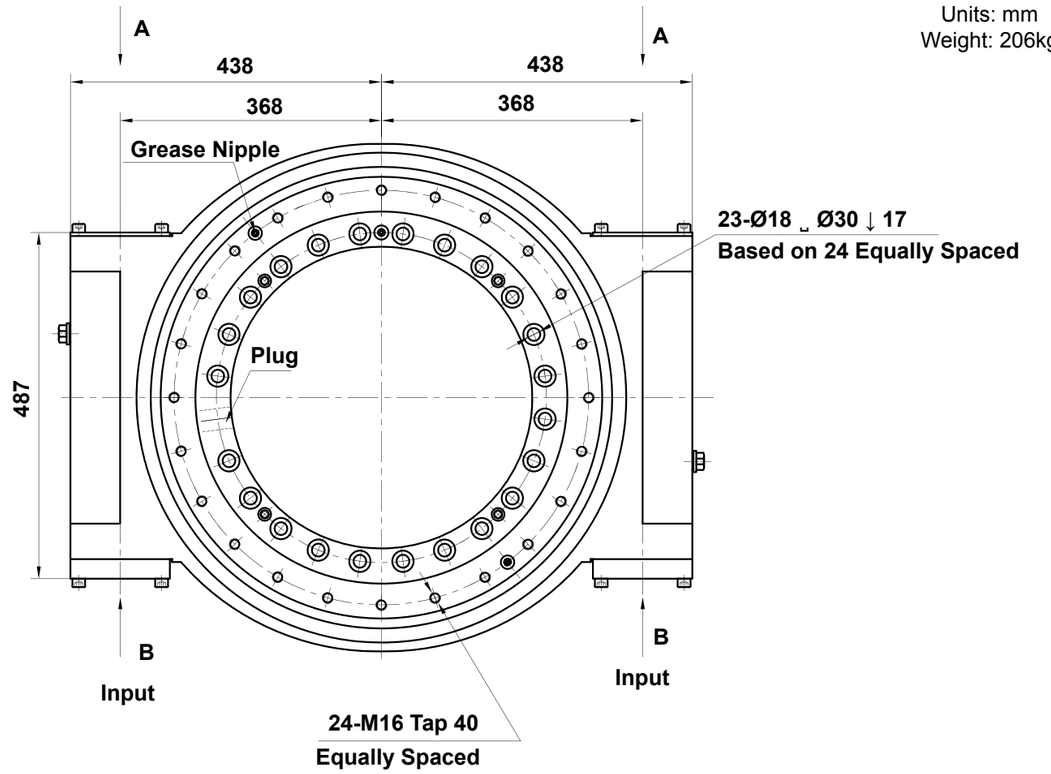
Model	Output Torque	Max Output Torque	Tilting Moment Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
HSE21	21.8kNm	26.6kNm	167kNm	1058kN	421kN	265kN	216kN	82:1	≤0.15°	186kg
	16078lbf.ft	19618lbf.ft	125 x 10^3lbf.ft	238 x 10^3lbf	95 x 10^3lbf	60 x 10^3lbf	49 x 10^3lbf			

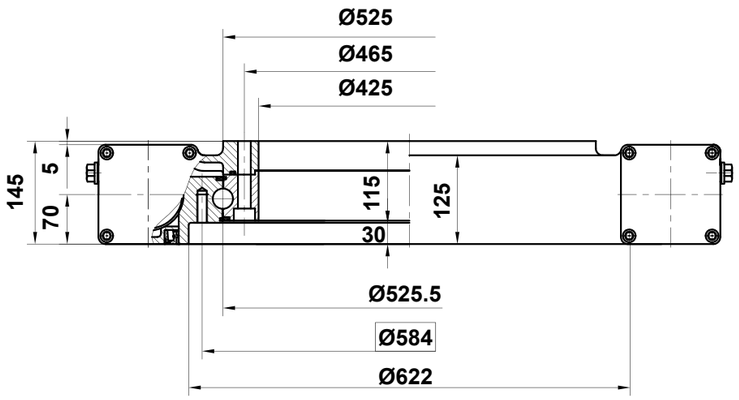
HSE21 - Moment Load Chart



Notice: Please be sure to remain under this curve.

Units: mm
Weight: 206kg



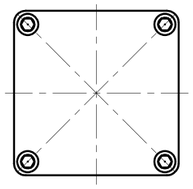


Ø40

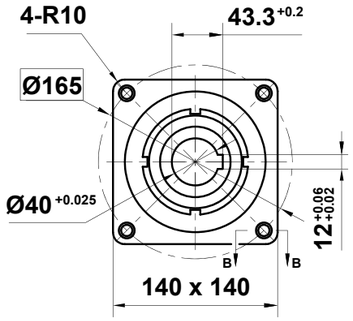
☐ NORMAL

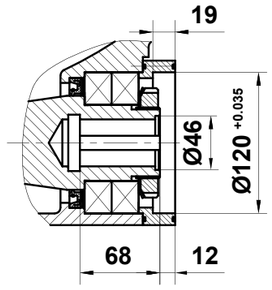
VIEW A OPTION

END CAP

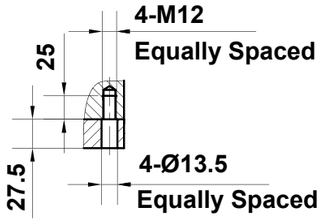


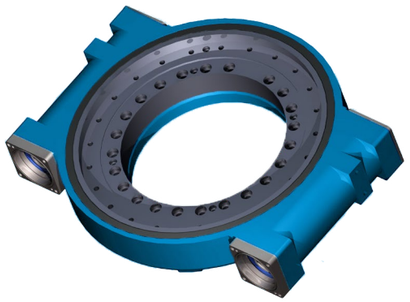
VIEW B OPTION

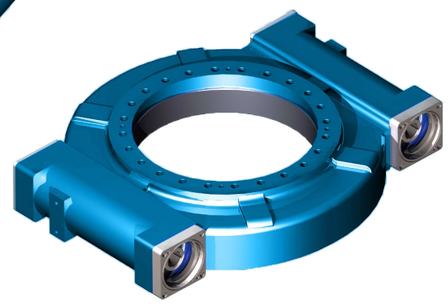




D-D



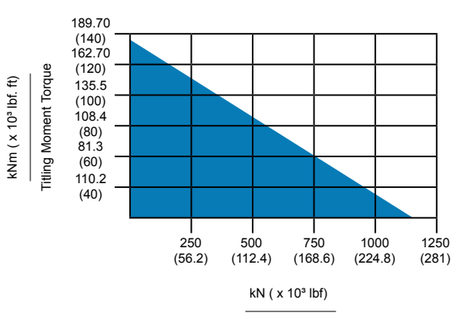




HSE21-2 - Worm Drive Performance Parameters

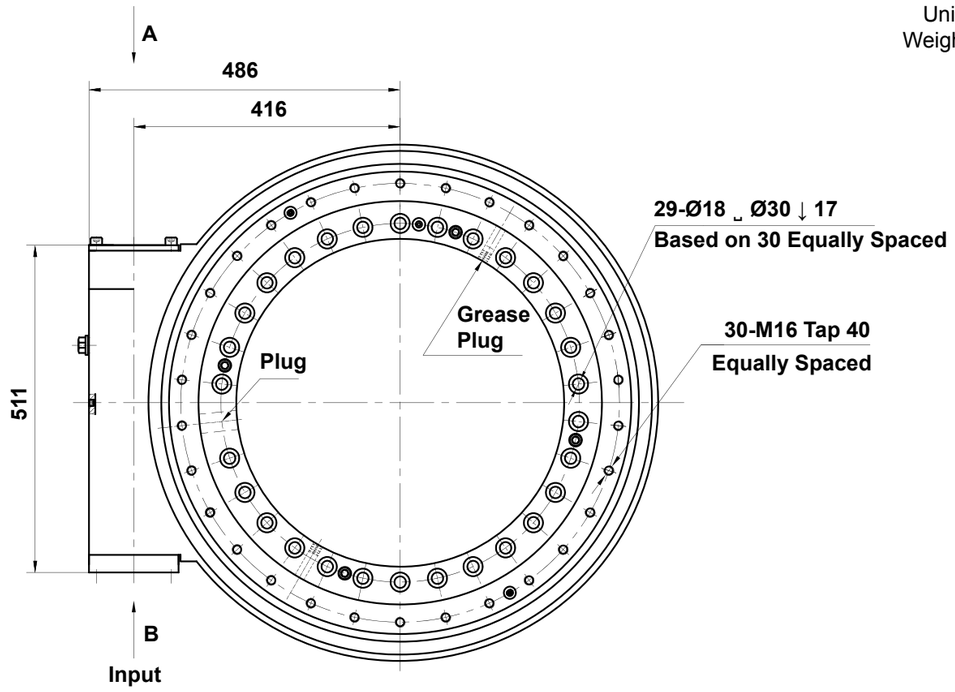
Model	Output Torque	Max Output Torque	Tilting Moment Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
HSE21-2	43.6kNm	52.3kNm	167kNm	1058kN	421kN	265kN	216kN	82:1	≤0.15°	206kg
	32264lbf.ft	38702lbf.ft	125 x 10^3lbf.ft	238 x 10^3lbf	95 x 10^3lbf	60 x 10^3lbf	49 x 10^3lbf			

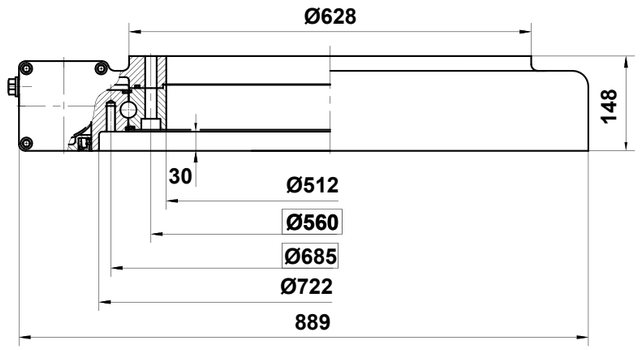
HSE21-2 - Moment Load Chart



Notice: Please be sure to remain under this curve.

Units: mm
Weight: 255kg

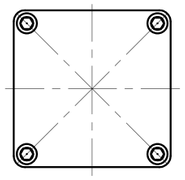




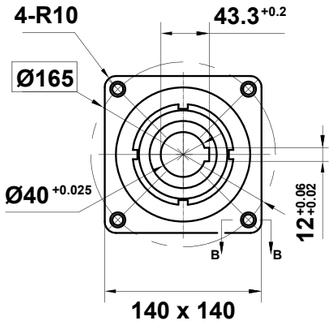
Ø40
NORMAL

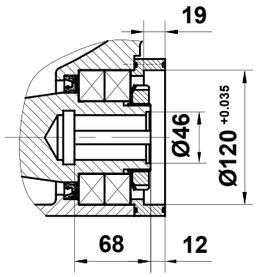
VIEW A

END CAP

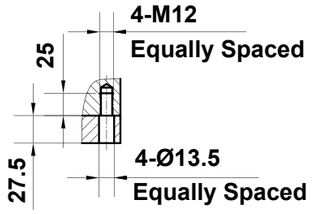


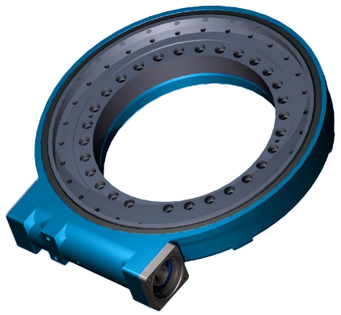
VIEW B

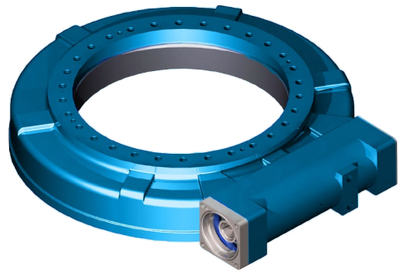




B-B



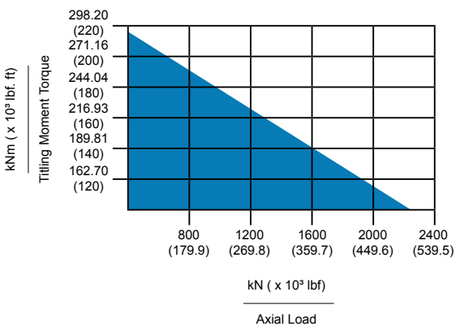




HSE25 - Worm Drive Performance Parameters

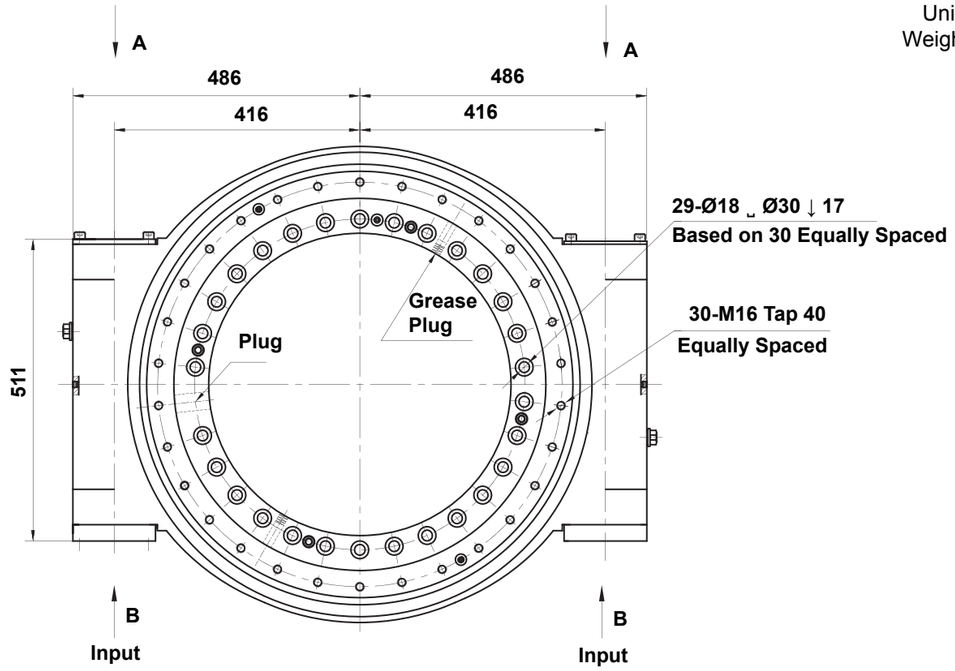
Model	Output Torque	Max Output Torque	Tilting Moment Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
HSE25	25kNm	30kNm	271kNm	1360kN	945kN	590kN	470kN	94:1	≤0.15°	255kg
	18439lbf.ft	22140lbf.ft	200 x 10^3lbf.ft	531 x 10^3lbf	212 x 10^3lbf	133 x 10^3lbf	106 x 10^3lbf			

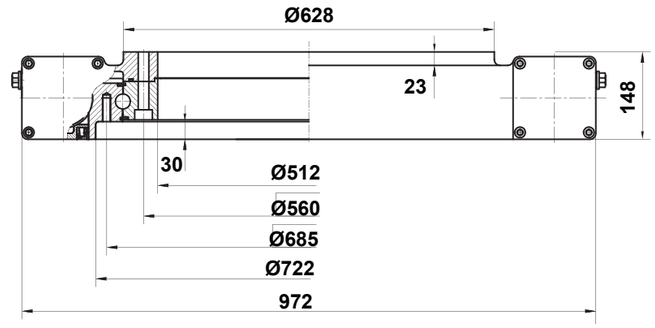
HSE25 - Moment Load Chart



Notice: Please be sure to remain under this curve.

Units: mm
Weight: 255kg





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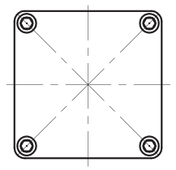
☐ NORMAL

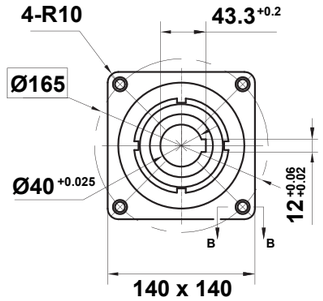
TRANSDRIVE®
DRIVE PERFORMANCE

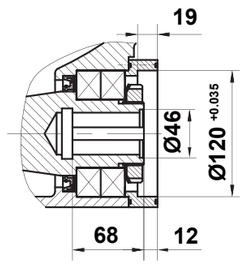
VIEW A OPTION

END CAP

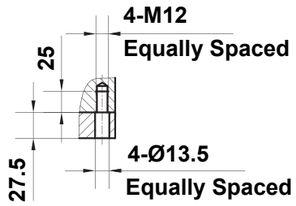


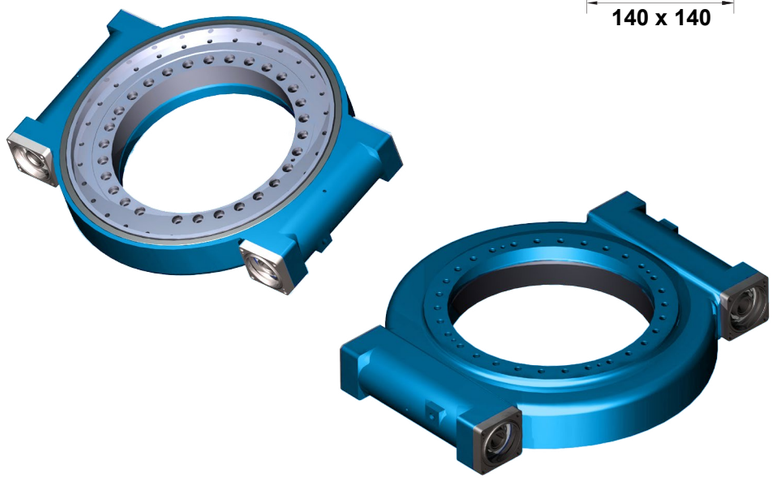
VIEW B OPTION





B-B

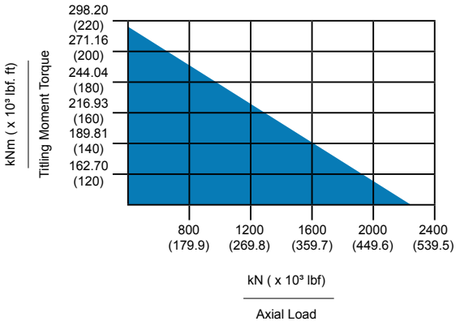




HSE25-2 - Worm Drive Performance Parameters

Model	Output Torque	Max Output Torque	Tilting Moment Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
HSE25	50kNm	60kNm	271kNm	1360kN	945kN	590kN	470kN	94:1	≤0.15°	275kg
	36878lbf.ft	44280lbf.ft	200 x 10³lbf.ft	531 x 10³lbf	212 x 10³lbf	133 x 10³lbf	106 x 10³lbf			

HSE25-2 - Moment Load Chart



Notice: Please be sure to remain under this curve.

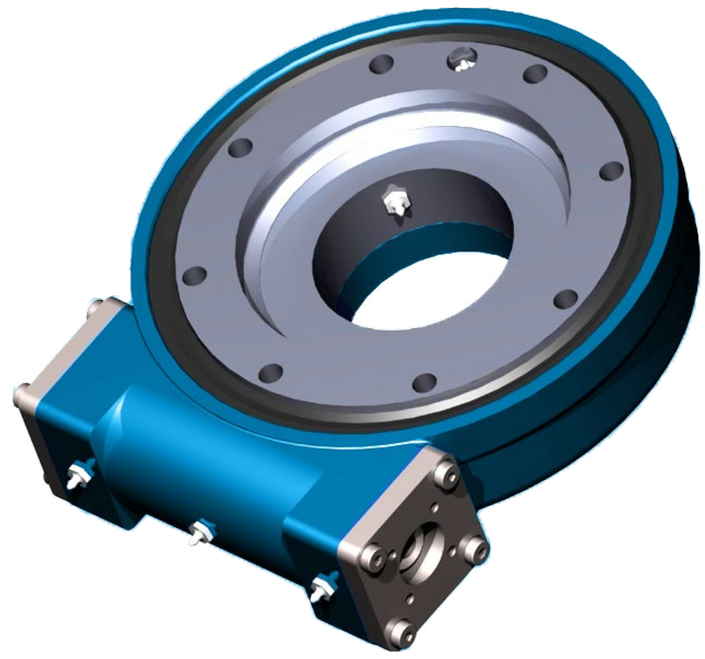
SE Series

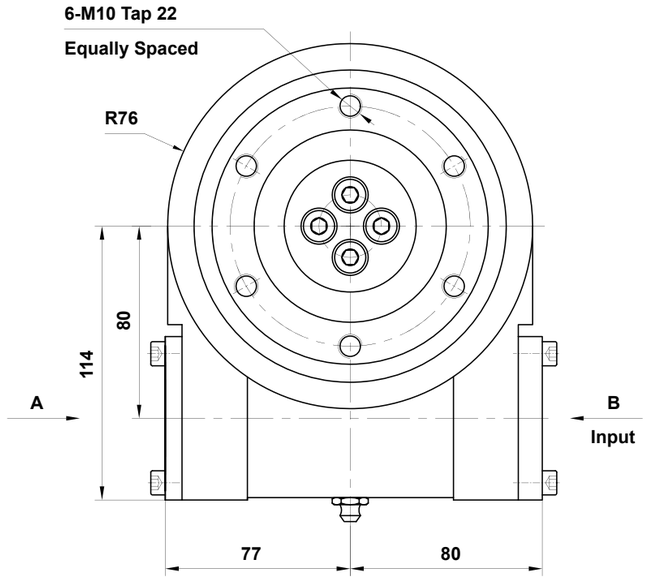
The SE (Slewing Enclosed) Series Slewing Drive is a compact and efficient solution designed to handle axial, radial, and tilting moment loads. It features an enclosed housing, slewing ring, worm, and support parts, allowing for precise rotation control and high torque capacity. The drive can be powered by either a hydraulic or electric motor, enabling clockwise and anticlockwise rotation.

The design allows for simple installation and easy maintenance, making it suitable for a wide range of applications such as solar energy, wind energy, construction, and manufacturing, where precise positioning and load handling are crucial

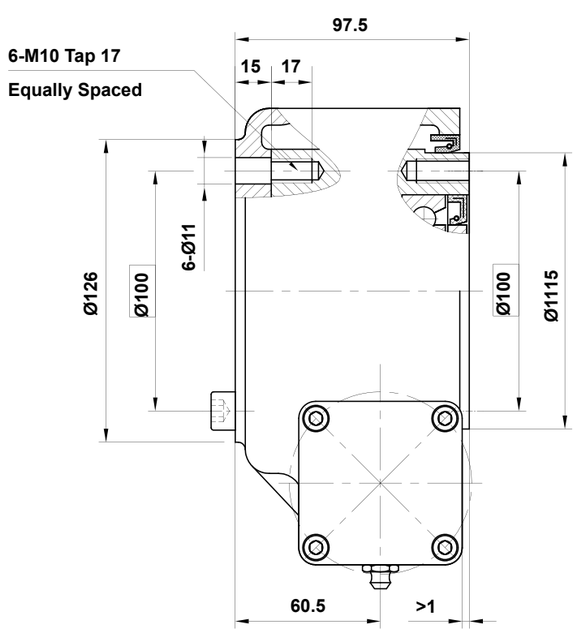
Our range

- SE3C/PE3C/ZE3C
- SE5A/PE5A/ZE5A
- SE5C/PE5C
- SE7/PE7/ZE7
- SE7A/PE7A
- SE9A/PE9A/ZE9A
- SE12A/PE12A/ZE12A
- SE14A/PE14A/ZE14A
- SE14-2/S14-2
- SE17A/PE17A
- SE17-2/S17-2
- SE21/PE21
- SE21-2/S21-2
- SE25/PE25
- SE25-2/S25-2



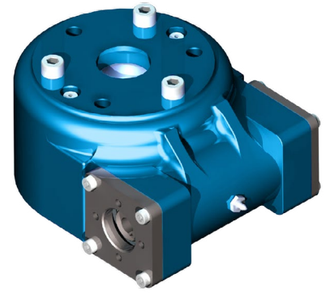


Units: mm
Weight: 12kg



SE Series
SE3C/PE3C/ZE3C
TRANSDRIVE® DRIVE PERFORMANCE

VIEW A



VIEW B

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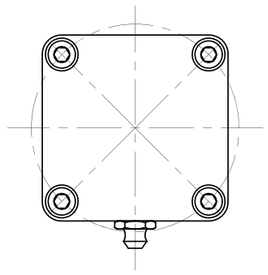
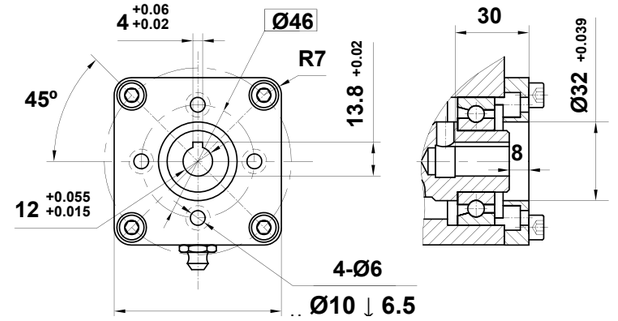
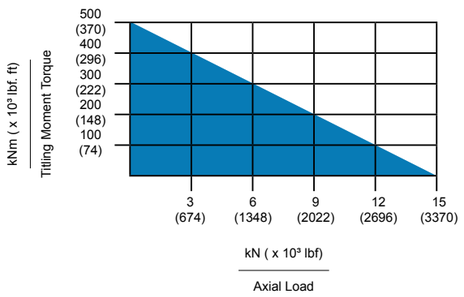




SE3C/PE3C/ZE3C - Slewing Drive Performance Parameters

Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision			Weight
								SDE3	PDE3	ZDE3	
400Nm	500Nm	2000Nm	30kN	15kN	9.6kN	8.4kN	62:1	≤0.2°	I: ≤0.08° II: ≤0.12° III: ≤0.15°	0o	32kg
295lbf.ft	369lbf.ft	1475lbf.ft	6477lbf	3372lbf	2158lbf	1888lbf					

SE3C/PE3C/ZE3C - Moment Load Chart



Notice: Please be sure to remain under this curve.

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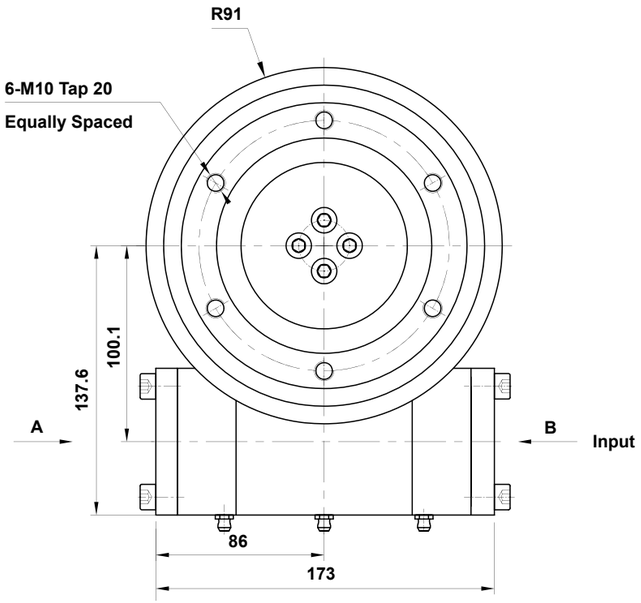
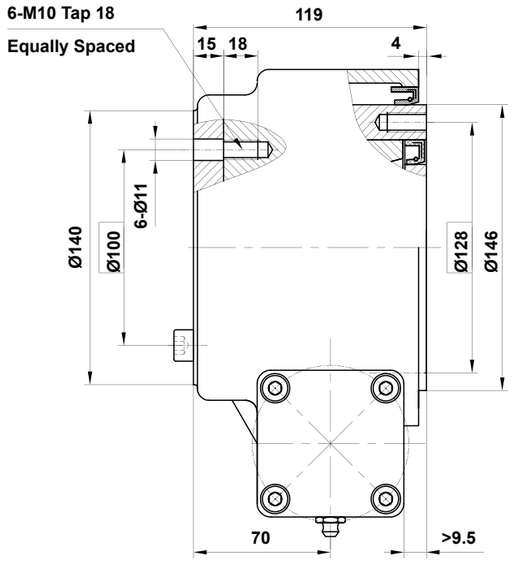
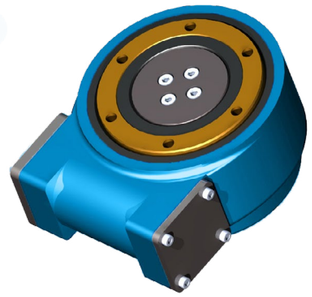


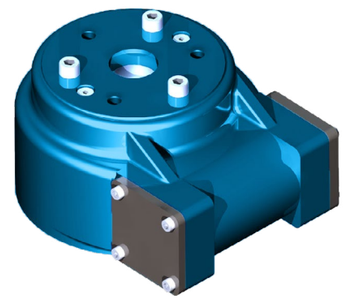
Units: mm
Weight: 20kg



SE Series
SE5A/PE5A/ZE5A
TRANSDRIVE® DRIVE PERFORMANCE



VIEW A



VIEW B

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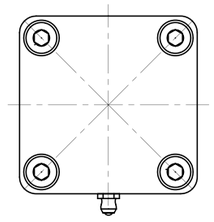
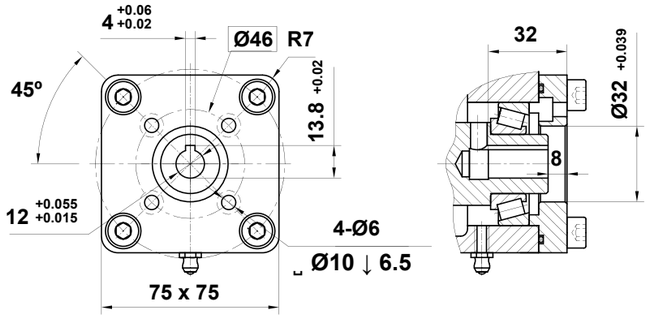
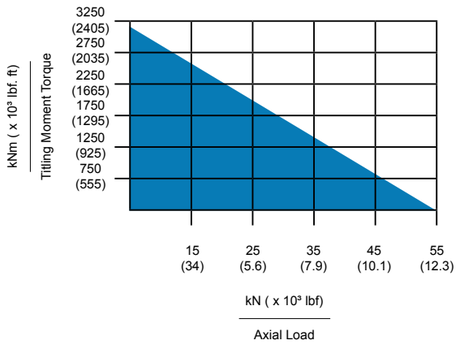




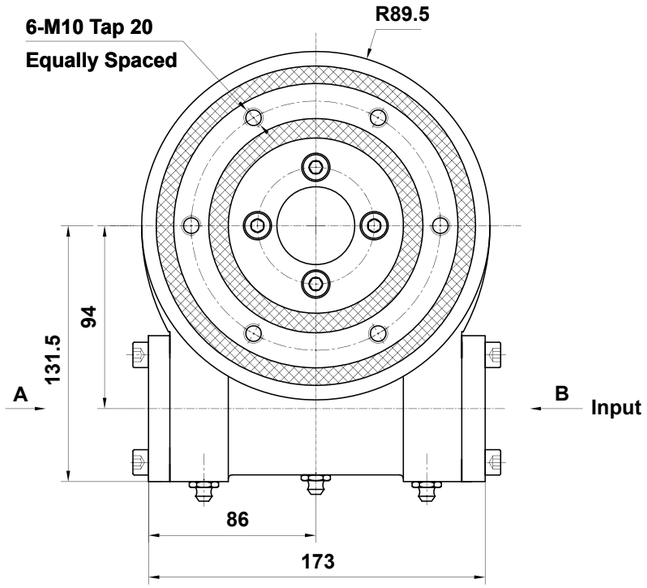
SE5A/PE5A/ZE5A - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE5A	600Nm	3000Nm	5500Nm	45kN	22kN	14.4kN	11.1kN	62:1	≤0.2°	20kg
	442.5lbf.ft	2212.5lbf.ft	4056.25lbf.ft	10116lbf	4945.6lbf	3237.1lbf	2495.³lbf			
PE5A	600Nm	3000Nm	5500Nm	45kN	22kN	14.4kN	11.1kN	62:1	I: ≤0.08° II: ≤0.12° III: ≤0.15°	20kg
	442.5lbf.ft	2212.5lbf.ft	4056.25lbf.ft	10116lbf	4945.6lbf	3237.1lbf	2495.³lbf			
ZE5A	360Nm	3000Nm	5500Nm	45kN	22kN	14.4kN	11.1kN	62:1	0o	20kg
	265.5lbf.ft	2212.5lbf.ft	4056.25lbf.ft	10116lbf	4945.6lbf	3237.1lbf	2495.³lbf			

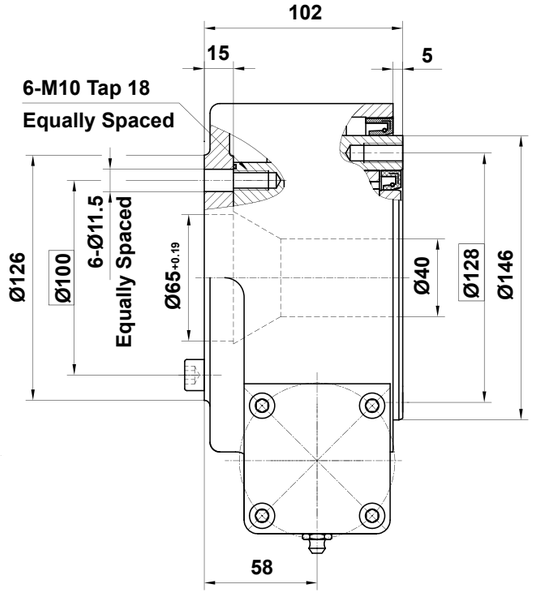
SE5A/PE5A/ZE5A - Moment Load Chart



Notice: Please be sure to remain under this curve.

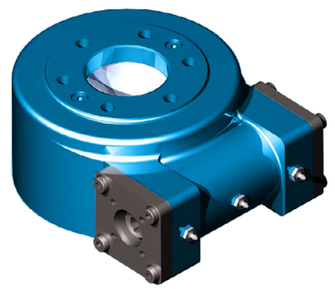


Units: mm
Weight: 16kg



SE Series
SE5C/PE5C
TRANSDRIVE® DRIVE PERFORMANCE

VIEW A



VIEW B

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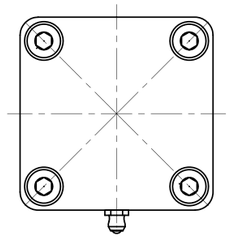
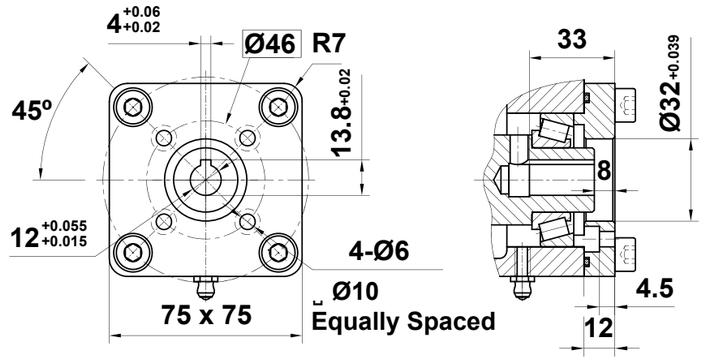
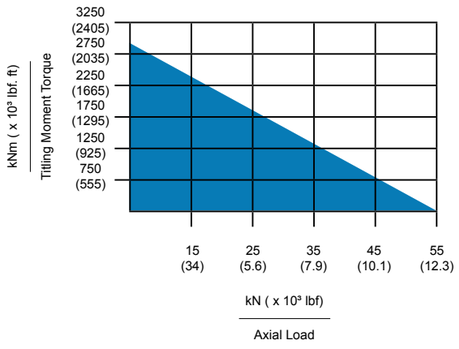




SE5C/PE5C - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE5A	600Nm	3000Nm	5500Nm	45kN	22kN	14.4kN	11.1kN	62:1	≤0.2°	20kg
	442.5lbf.ft	2212.5lbf.ft	4056.25lbf.ft	10116lbf	4945.6lbf	3237.1lbf	2495.³lbf			
PE5A	600Nm	3000Nm	5500Nm	45kN	22kN	14.4kN	11.1kN	62:1	I: ≤0.08° II: ≤0.12° III: ≤0.15°	20kg
	442.5lbf.ft	2212.5lbf.ft	4056.25lbf.ft	10116lbf	4945.6lbf	3237.1lbf	2495.³lbf			

SE5C/PE5C - Moment Load Chart



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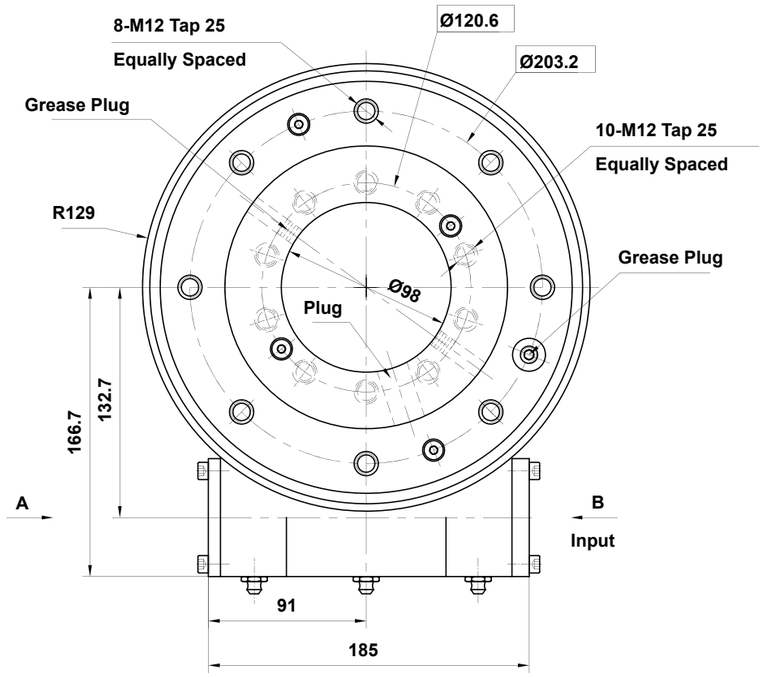
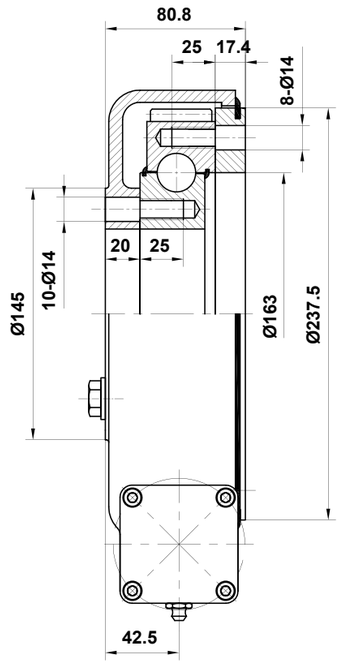
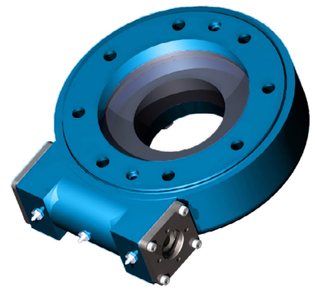


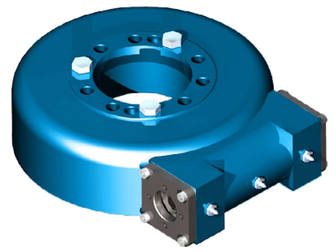
Units: mm
Weight: 21kg



SE Series
SE7/PE7/ZE7
TRANSDRIVE® DRIVE PERFORMANCE



VIEW A OPTION



VIEW B

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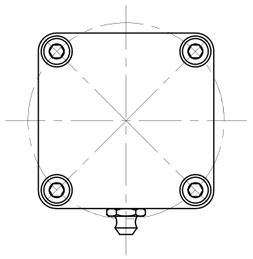
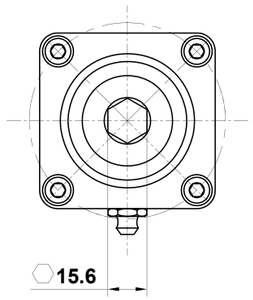
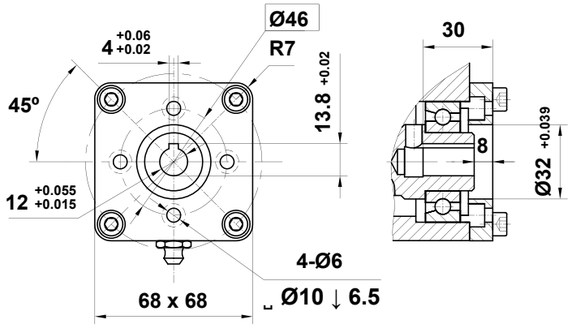


WITH HEX

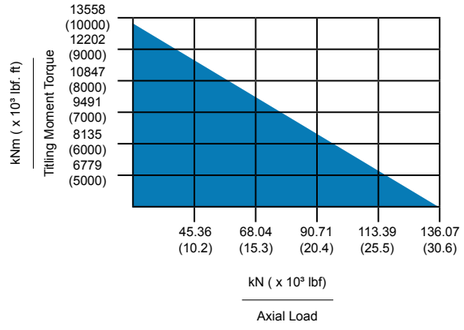




SE7/PE7/ZE7 - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE7	1500Nm	13500Nm	10400Nm	133kN	53kN	32kN	28kN	73:1	≤0.2°	21kg
	1107lbf.ft	9957lbf.ft	7671lbf.ft	29900lbf	11915lbf	7194lbf	6295lbf			
PE7	1500Nm	13500Nm	10400Nm	133kN	53kN	32kN	28kN	73:1	I: ≤0.05° II: ≤0.07° III: ≤0.11°	21kg
	1107lbf.ft	9957lbf.ft	7671lbf.ft	29900lbf	11915lbf	7194lbf	6295lbf			
ZE7	600Nm	13500Nm	10400Nm	133kN	53kN	32kN	28kN	73:1	0o	20kg
	44³lbf.ft	9957lbf.ft	7671lbf.ft	29900lbf	11915lbf	7194lbf	6295lbf			

SE7/PE7/ZE7 - Moment Load Chart



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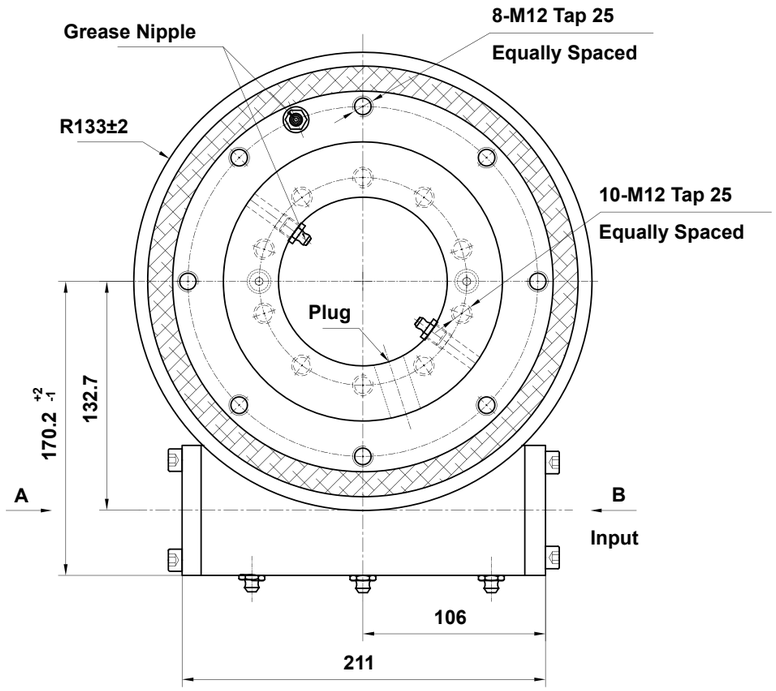
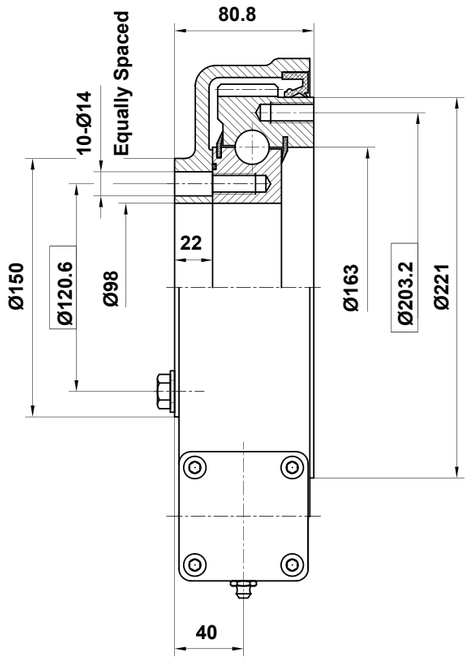
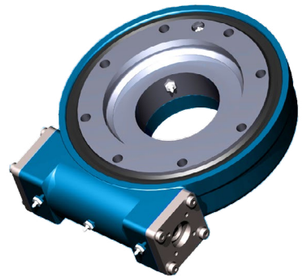


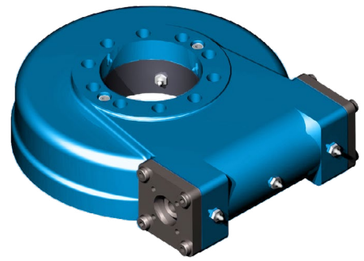
Units: mm
Weight: 25kg



SE Series
SE7A/PE7A
TRANSDRIVE® DRIVE PERFORMANCE

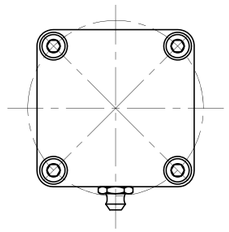


VIEW A OPTION

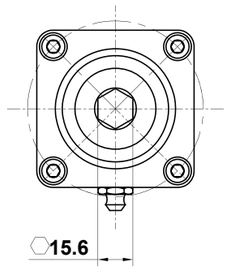


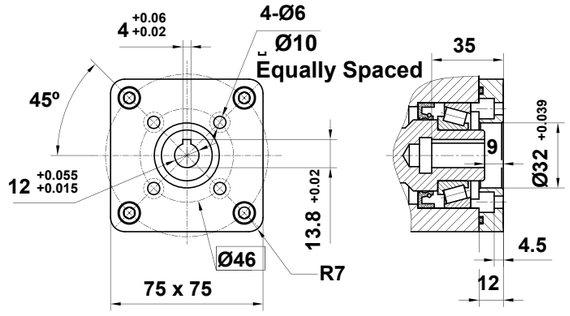
VIEW B

END CAP



WITH HEX

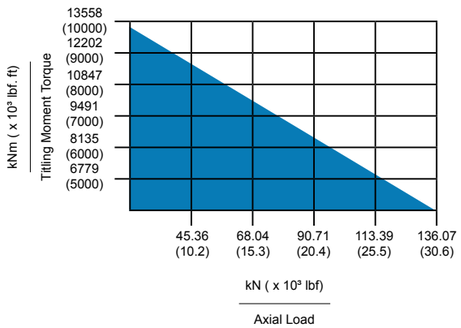




SE7A/PE7A - Slewing Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE7	1500Nm	13500Nm	10400Nm	133kN	53kN	32kN	28kN	73:1	≤0.2°	25kg
	1107lbf.ft	9957lbf.ft	7671lbf.ft	29900lbf	11915lbf	7194lbf	6295lbf			
PE7	1500Nm	13500Nm	10400Nm	133kN	53kN	32kN	28kN	73:1	I: ≤0.05° II: ≤0.07° III: ≤0.11°	25kg
	1107lbf.ft	9957lbf.ft	7671lbf.ft	29900lbf	11915lbf	7194lbf	6295lbf			

SE7A/PE7A- Moment Load Chart



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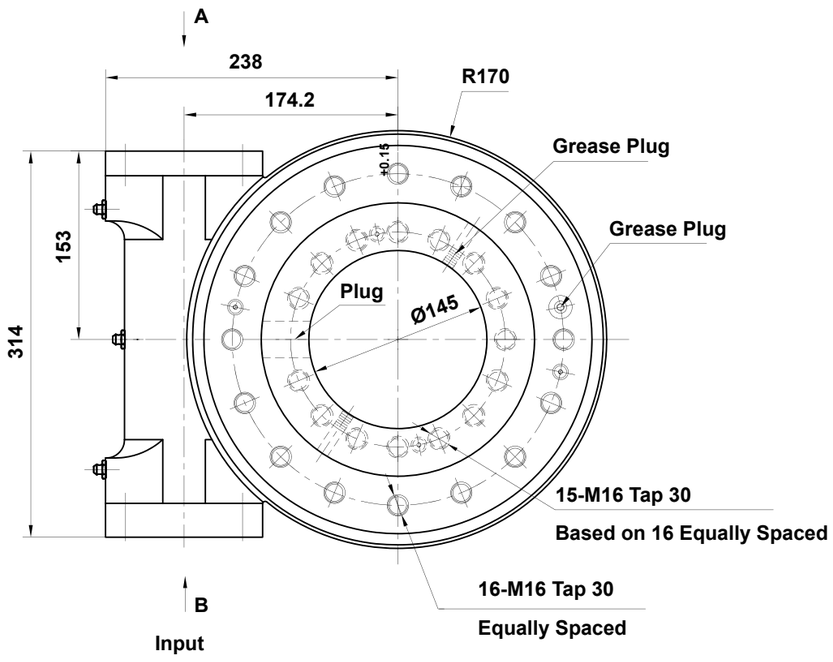
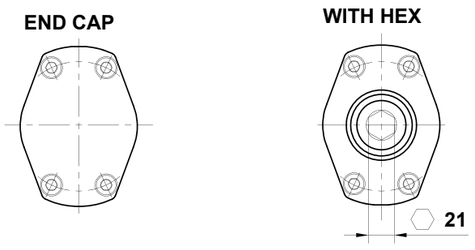
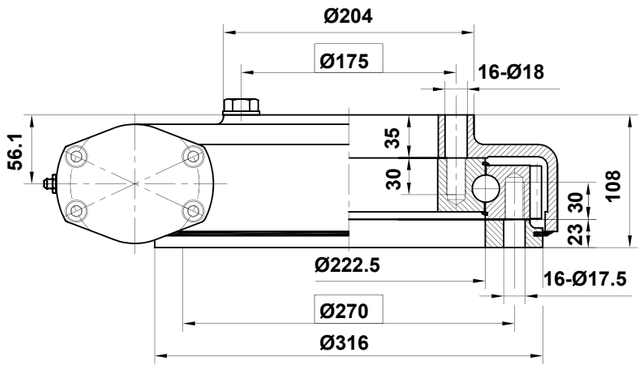
Units: mm
Weight: 49kg

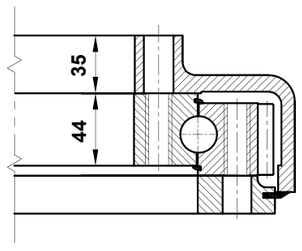


VIEW A OPTION





THRU HOLE OPTION



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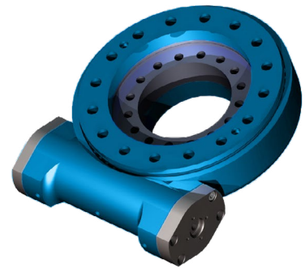
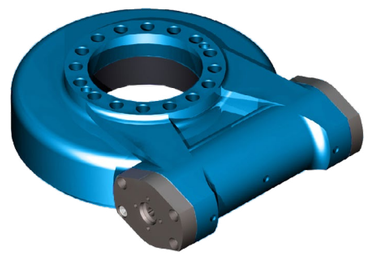
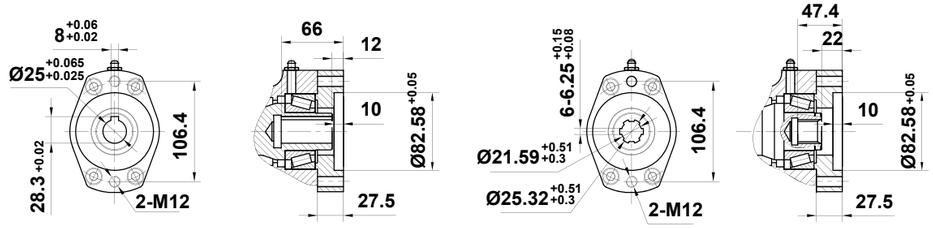
SE Series
SE9A/PE9A/ZE9A
TRANSDRIVE® DRIVE PERFORMANCE





VIEW B OPTION



Ø12 Ø14 Ø16 Ø20 **Ø25**

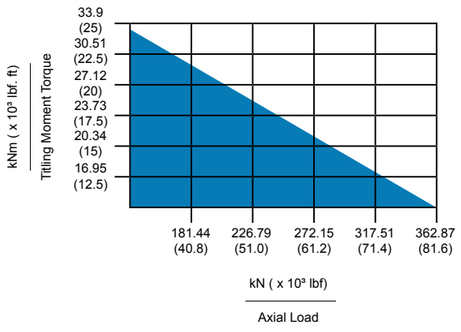
☐ NORMAL

6B SPLINE

SE9A/PE9A/ZE9A - Worm Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE9A	6.5kNm	33.9kNm	38.7kNm	338kN	135kN	81kN	71kN	61:1	≤0.17°	49kg
	4794lbf.ft	25 x 10^3lbf.ft	29 x 10^3lbf.ft	76 x 10^3lbf	30 x 10^3lbf	18 x 10^3lbf	16 x 10^3lbf			
PE9A	6.5kNm	33.9kNm	38.7kNm	338kN	135kN	81kN	71kN	61:1	I: ≤0.05° II: ≤0.07° III: ≤0.09°	49kg
	4794lbf.ft	25 x 10^3lbf.ft	29 x 10^3lbf.ft	76 x 10^3lbf	30 x 10^3lbf	18 x 10^3lbf	16 x 10^3lbf			
ZE9A	3.9kNm	33.9kNm	38.7kNm	338kN	135kN	81kN	71kN	61:1	0o	49kg
	2876lbf.ft	25 x 10^3lbf.ft	29 x 10^3lbf.ft	76 x 10^3lbf	30 x 10^3lbf	18 x 10^3lbf	16 x 10^3lbf			

SE9A/PE9A/ZE9A - Moment Load Chart



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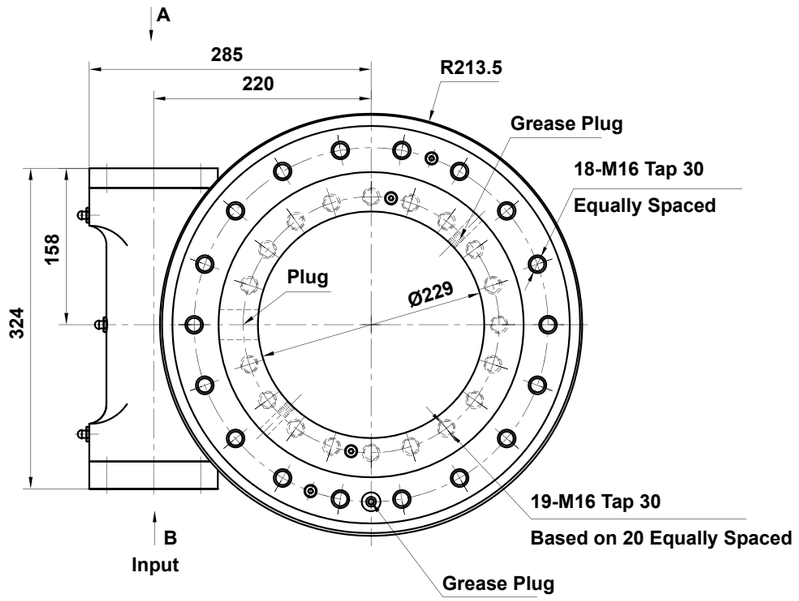
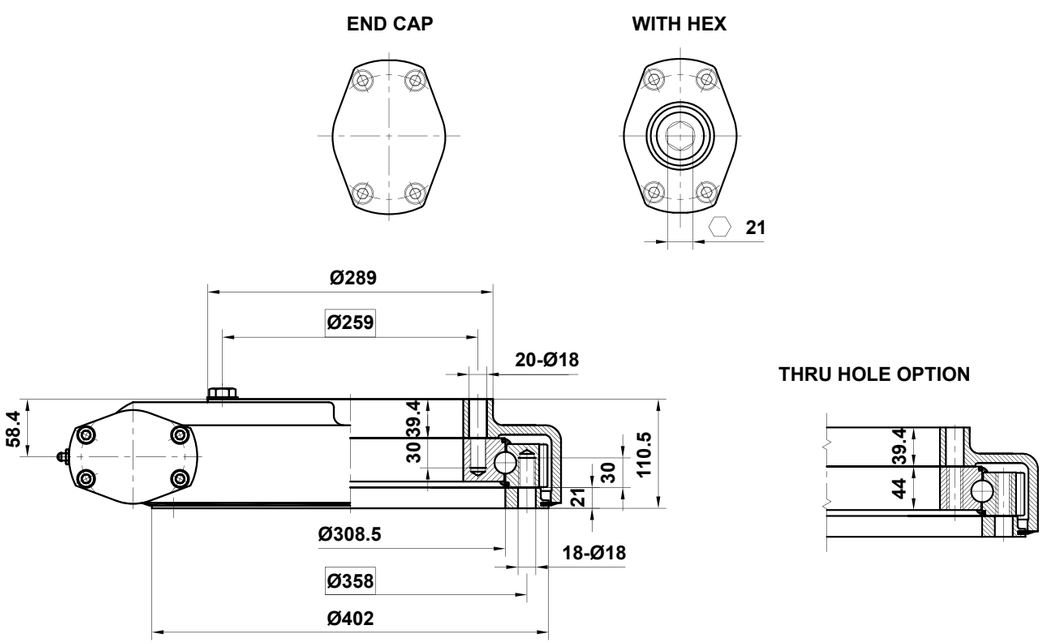
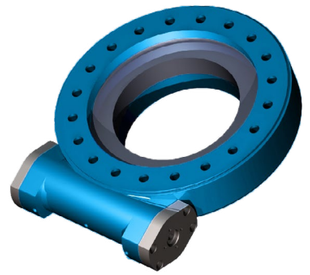
Units: mm
Weight: 61kg

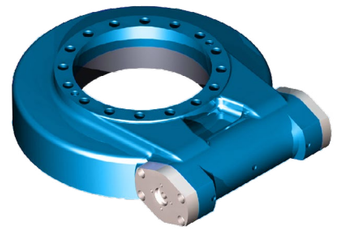


VIEW A OPTION

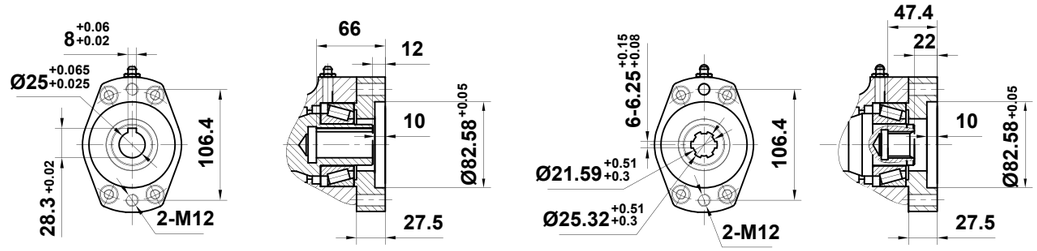


THRU HOLE OPTION





VIEW B OPTION



Ø12 Ø14Ø16Ø20
☐ NORMAL

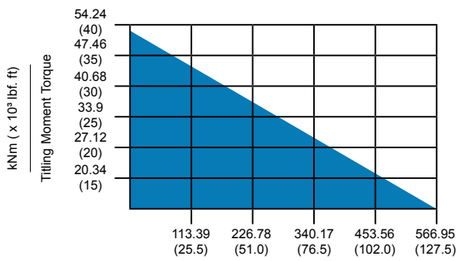
Ø25

6B SPLINE

SE12A/PE12A/ZE12A - Worm Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE12A	7.5kNm	54.3kNm	43kNm	475kN	190kN	114kN	100kN	78:1	≤0.17°	61kg
	5532lbf.ft	40 x 10³lbf.ft	32 x 10³lbf.ft	107 x 10³lbf	43 x 10³lbf	26 x 10³lbf	23 x 10³lbf			
PE12A	7.5kNm	54.3kNm	43kNm	475kN	190kN	114kN	100kN	78:1	I: ≤0.03o II: ≤0.05° III: ≤0.09°	61kg
	5532lbf.ft	40 x 10³lbf.ft	32 x 10³lbf.ft	107 x 10³lbf	43 x 10³lbf	26 x 10³lbf	23 x 10³lbf			
ZE12A	4.5kNm	54.3kNm	43kNm	475kN	190kN	114kN	100kN	78:1	0o	61kg
	3319lbf.ft	40 x 10³lbf.ft	32 x 10³lbf.ft	107 x 10³lbf	43 x 10³lbf	26 x 10³lbf	23 x 10³lbf			

SE12A/PE12A/ZE12A - Moment Load Chart



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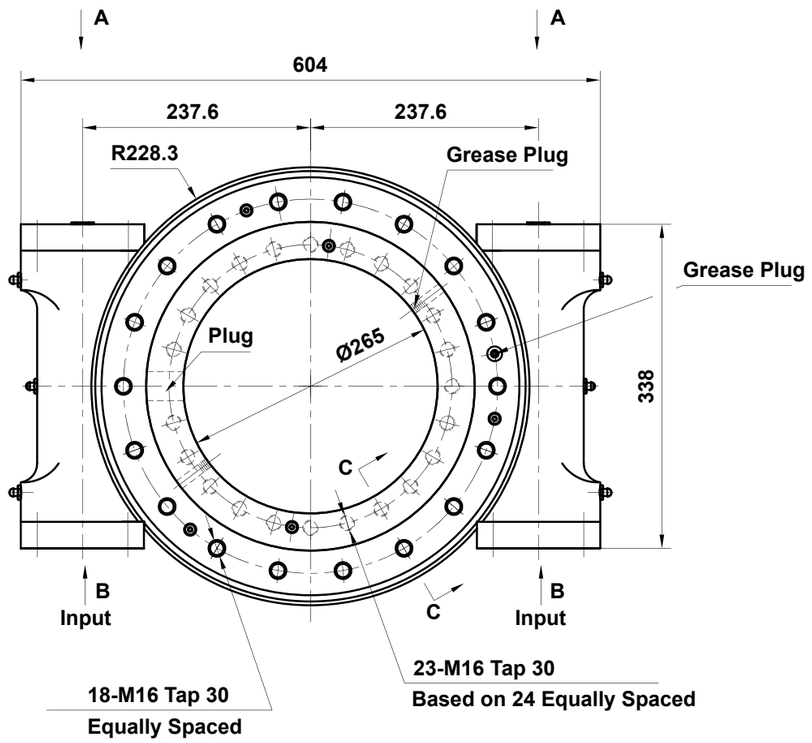
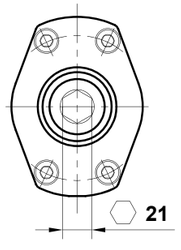


Units: mm
Weight: 64kg

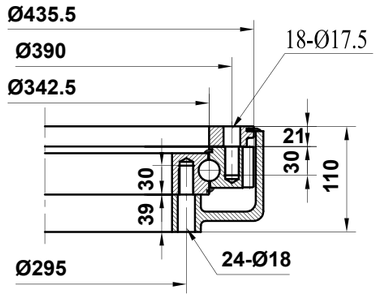
VIEW A OPTION

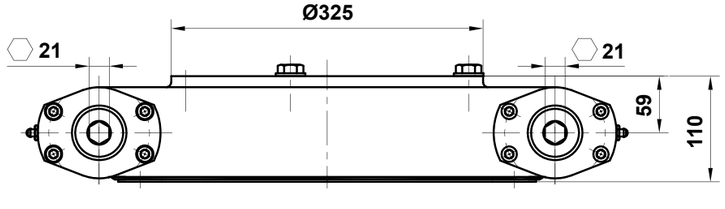
WITH HEX



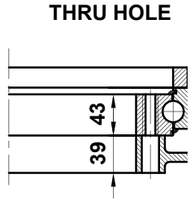
SECTION C

BLIND HOLE

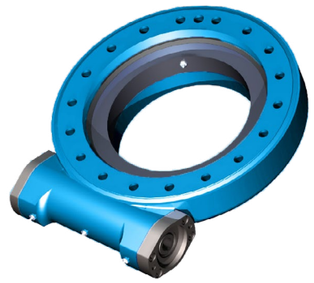


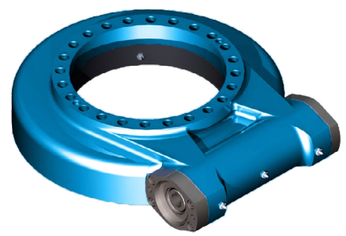


THRU HOLE

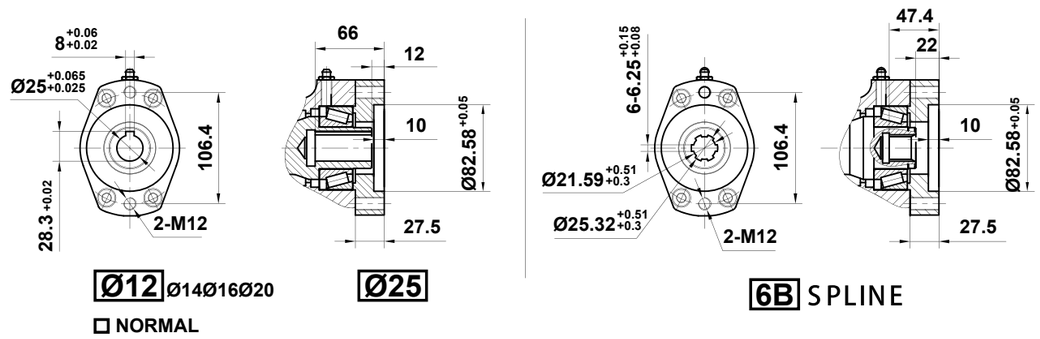


SE Series
SE14A/PE14A/ZE14A
TRANSDRIVE® DRIVE PERFORMANCE





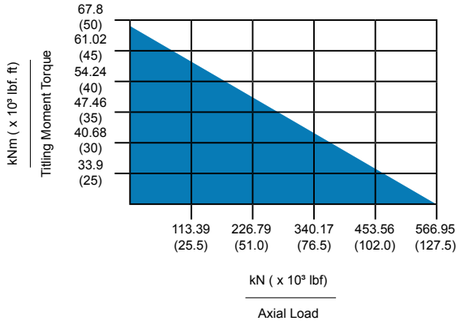
VIEW B OPTION



SE14A/PE14A/ZE14A - Worm Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE14A	8kNm	67.8kNm	48kNm	555kN	222kN	133kN	117kN	85:1	≤0.17°	64kg
	5900lbf.ft	50 x 10³lbf.ft	35 x 10³lbf.ft	125 x 10³lbf	50 x 10³lbf	30 x 10³lbf	26 x 10³lbf			
PE14A	8kNm	67.8kNm	48kNm	555kN	222kN	133kN	117kN	85:1	I: ≤0.03o II: ≤0.05° III: ≤0.07° IV: ≤0.09°	64kg
	5900lbf.ft	50 x 10³lbf.ft	35 x 10³lbf.ft	125 x 10³lbf	50 x 10³lbf	30 x 10³lbf	26 x 10³lbf			
ZE14A	4.8kNm	67.8kNm	48kNm	555kN	222kN	133kN	117kN	85:1	0o	64kg
	3500lbf.ft	50 x 10³lbf.ft	35 x 10³lbf.ft	125 x 10³lbf	50 x 10³lbf	30 x 10³lbf	26 x 10³lbf			

SE14A/PE14A/ZE14A - Moment Load Chart



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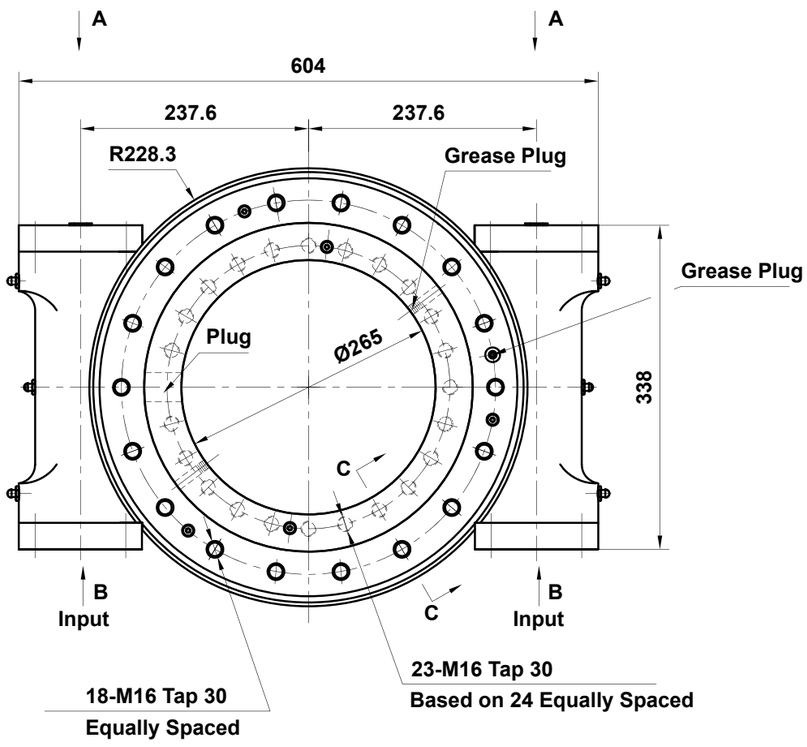
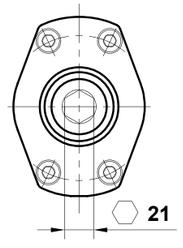
Units: mm
Weight: 76kg



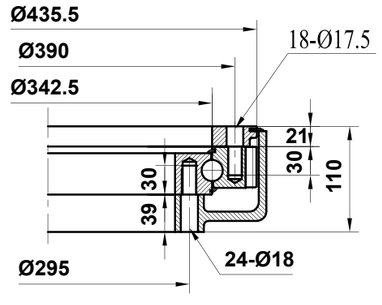
VIEW A OPTION

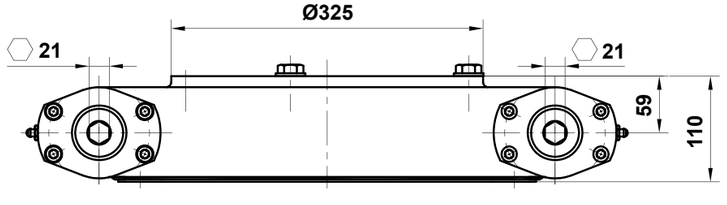
WITH HEX



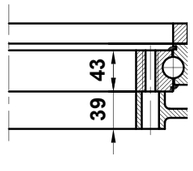
SECTION C

BLIND HOLE

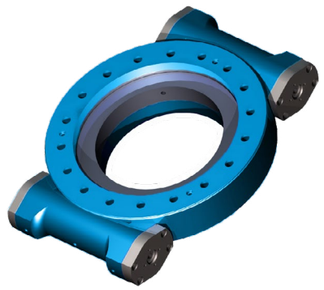


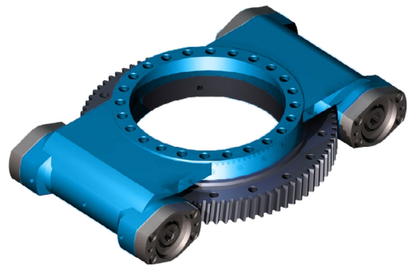


THRU HOLE

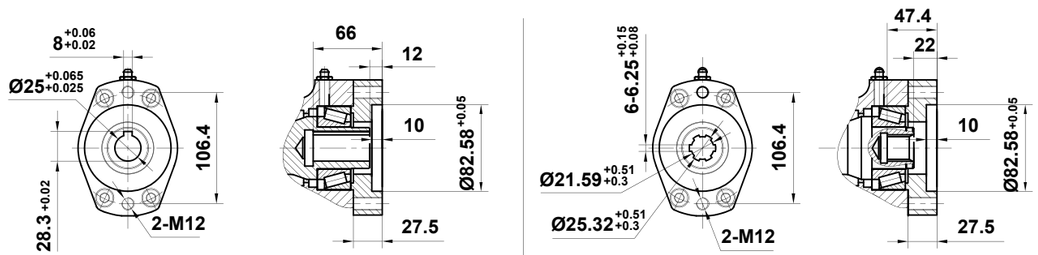


SE Series
SE14-2/S14-2
TRANSDRIVE® DRIVE PERFORMANCE





VIEW B OPTION



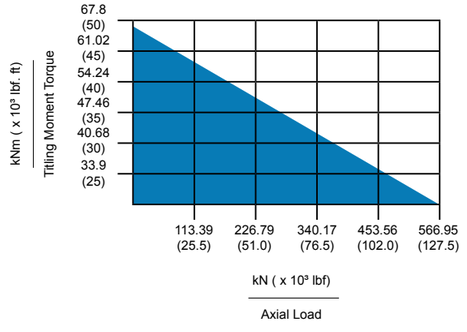
Ø12 Ø14Ø16Ø20 Ø25 6B SPLINE

☐ NORMAL

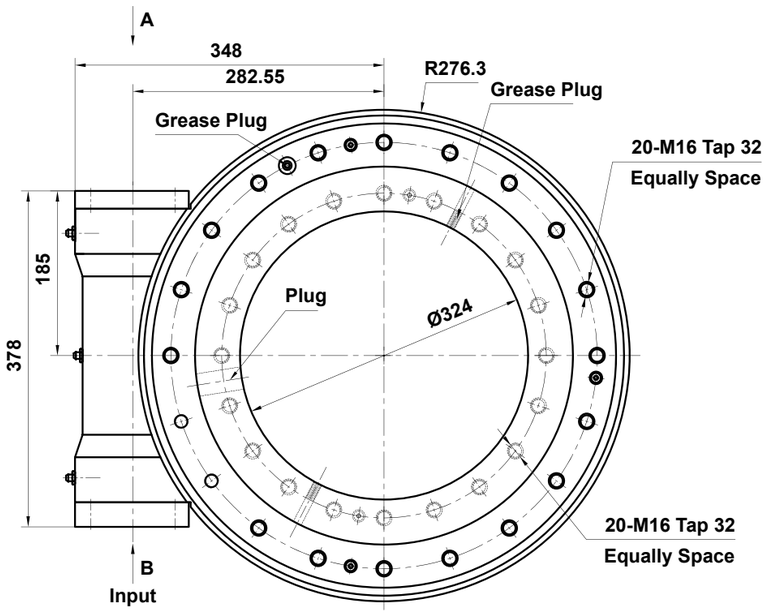
SE14-2/S14-2 - Worm Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE14-2	12kNm	67.8kNm	48kNm	555kN	222kN	133kN	117kN	85:1	≤0.17°	76kg
	8851lbf.ft	50 x 10³lbf.ft	35 x 10³lbf.ft	125 x 10³lbf	50 x 10³lbf	30 x 10³lbf	26 x 10³lbf			
S14-2	8kNm	67.8kNm	48kNm	555kN	222kN	133kN	117kN	85:1	≤0.17°	76kg
	5900lbf.ft	50 x 10³lbf.ft	35 x 10³lbf.ft	125 x 10³lbf	50 x 10³lbf	30 x 10³lbf	26 x 10³lbf			

SE14-2/S14-2 - Moment Load Chart



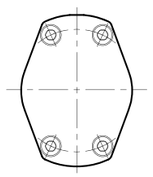
Notice: Please be sure to remain under this curve.



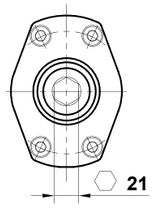
Units: mm
Weight: 105kg

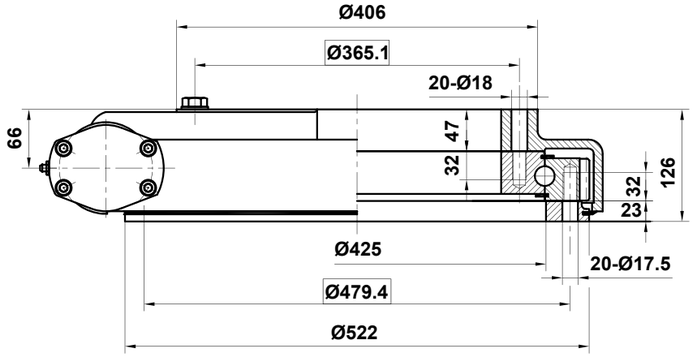
VIEW A OPTION

END CAP

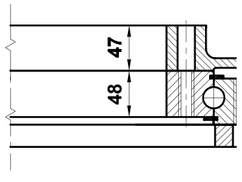


WITH HEX

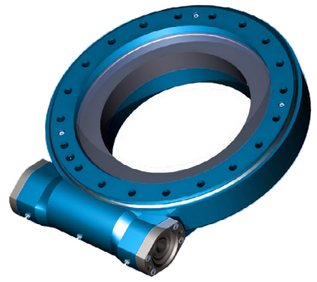


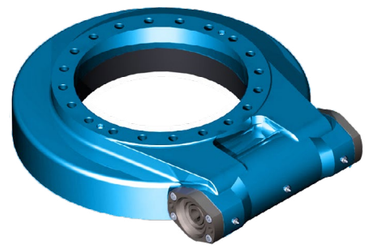


THRU HOLE OPTION

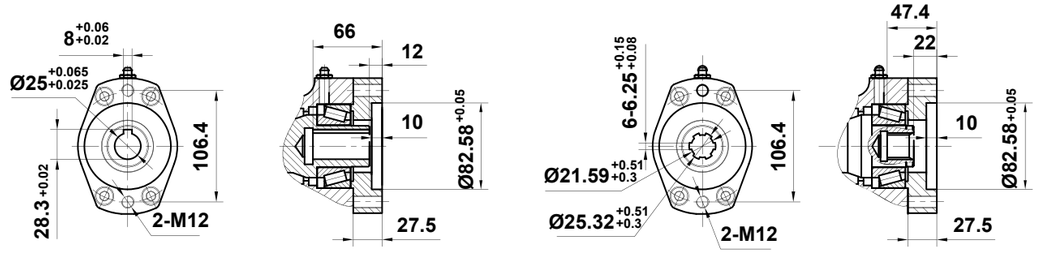


SE Series
SE17A/PE17A
TRANSDRIVE® DRIVE PERFORMANCE





VIEW B OPTION



Ø12 Ø14Ø16Ø20
☐ NORMAL

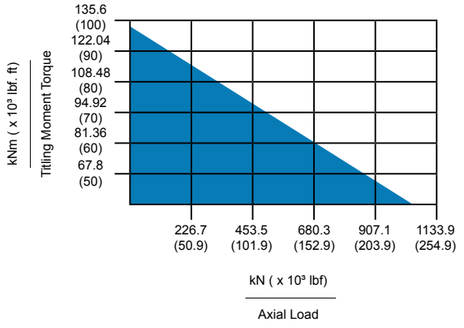
Ø25

6B SPLINE

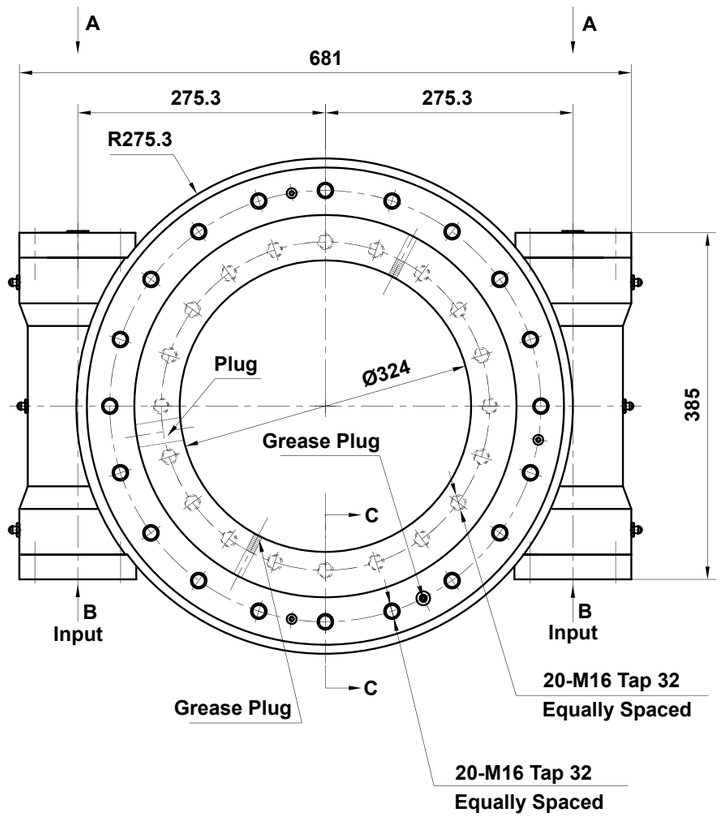
SE17A/PE17A - Worm Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE17A	10kNm	135.6kNm	72.3kNm	970kN	390kN	235kN	205kN	102:1	≤0.15°	105kg
	7400lbf.ft	100 x 10^3lbf.ft	53 x 10^3lbf.ft	218 x 10^3lbf	88 x 10^3lbf	53 x 10^3lbf	46 x 10^3lbf			
PE17A	10kNm	135.6kNm	72.3kNm	970kN	390kN	235kN	205kN	102:1	≤0.15°	105kg
	7400lbf.ft	100 x 10^3lbf.ft	53 x 10^3lbf.ft	218 x 10^3lbf	88 x 10^3lbf	53 x 10^3lbf	46 x 10^3lbf			

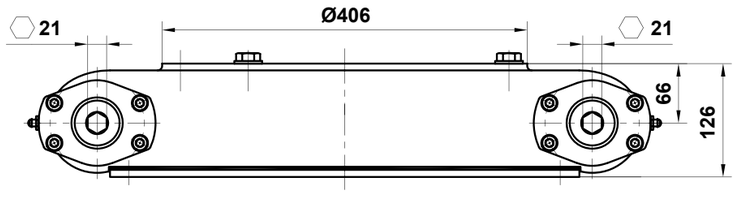
SE17A/PE17A - Moment Load Chart



Notice: Please be sure to remain under this curve.

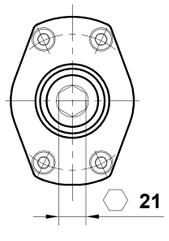


Units: mm
Weight: 119kg



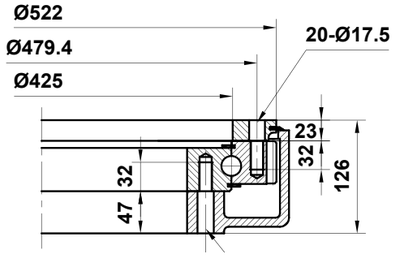
VIEW A OPTION

WITH HEX

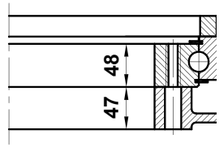


SECTION C

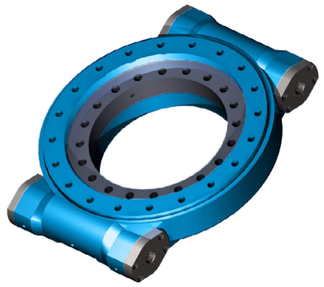
BLIND HOLE

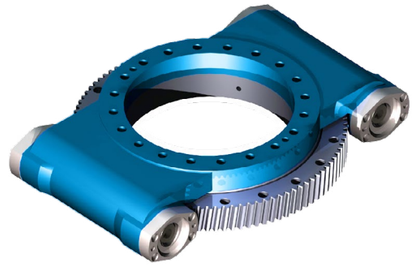


THRU HOLE

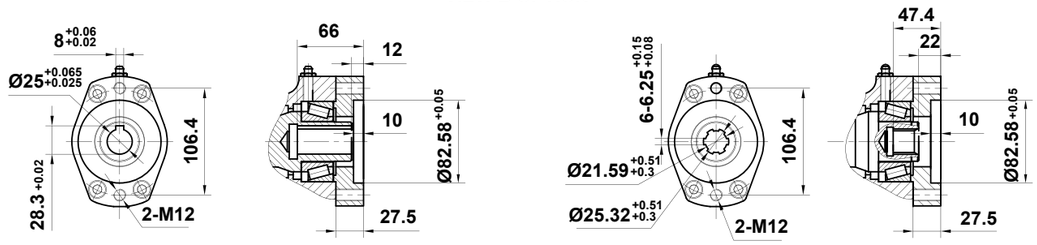


SE Series
SE17-2/S17-2
TRANSDRIVE® DRIVE PERFORMANCE





VIEW B OPTION



Ø12 Ø14Ø16Ø20 Ø25

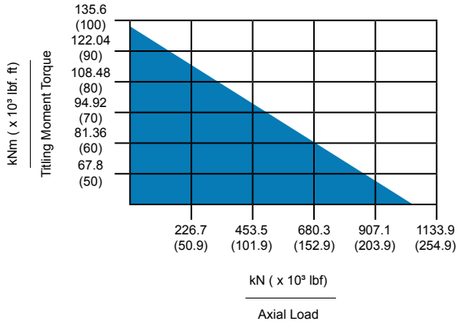
□ NORMAL

6B SPLINE

SE17A/PE17A - Worm Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE17-2	16.8kNm	135.6kNm	72.3kNm	970kN	390kN	235kN	205kN	102:1	≤0.15°	119kg
	12391lbf.ft	100 x 10^3lbf.ft	53 x 10^3lbf.ft	218 x 10^3lbf	88 x 10^3lbf	53 x 10^3lbf	46 x 10^3lbf			
S17-2	10kNm	135.6kNm	72.3kNm	970kN	390kN	235kN	205kN	102:1	≤0.15°	102kg
	7400lbf.ft	100 x 10^3lbf.ft	53 x 10^3lbf.ft	218 x 10^3lbf	88 x 10^3lbf	53 x 10^3lbf	46 x 10^3lbf			

SE17A/PE17A - Moment Load Chart



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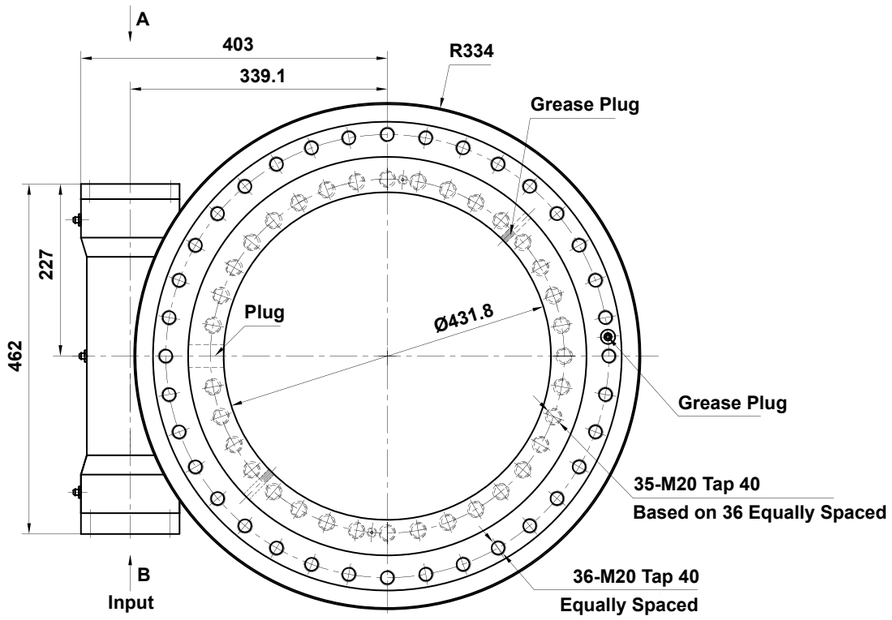
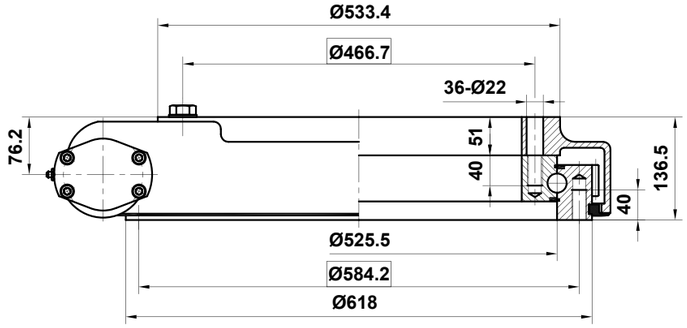
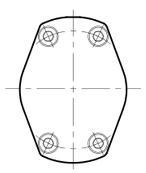


Units: mm
Weight: 149kg

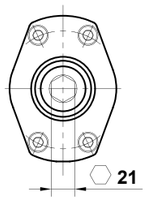


VIEW A OPTION

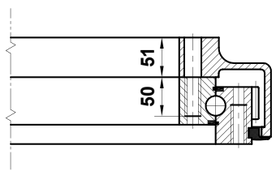
END CAP



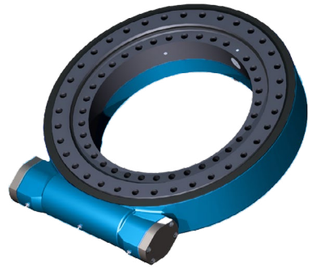
WITH HEX

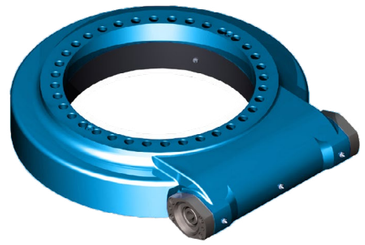


THRU HOLE OPTION

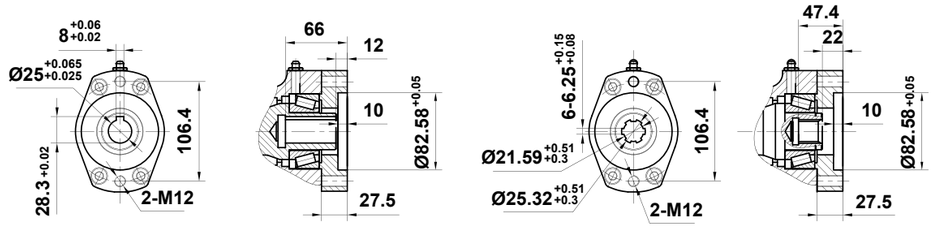


SE Series
SE21/PE21
TRANSDRIVE® DRIVE PERFORMANCE





VIEW B OPTION



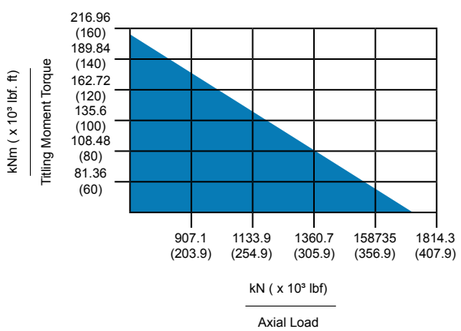
Ø12 Ø14Ø16Ø20 **Ø25** **6B** SPLINE

☐ NORMAL

SE21/PE21 - Worm Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE21	15kNm	203kNm	105.8kNm	1598kN	640kN	385kN	335kN	125:1	≤0.15°	149kg
	11000lbf.ft	150 x 10^3lbf.ft	78 x 10^3lbf.ft	359 x 10^3lbf	144 x 10^3lbf	87 x 10^3lbf	75 x 10^3lbf			
PE21	15kNm	203kNm	105.8kNm	1598kN	640kN	385kN	335kN	125:1	≤0.15°	149kg
	11000lbf.ft	150 x 10^3lbf.ft	78 x 10^3lbf.ft	359 x 10^3lbf	144 x 10^3lbf	87 x 10^3lbf	75 x 10^3lbf			

SE21/PE21 - Moment Load Chart



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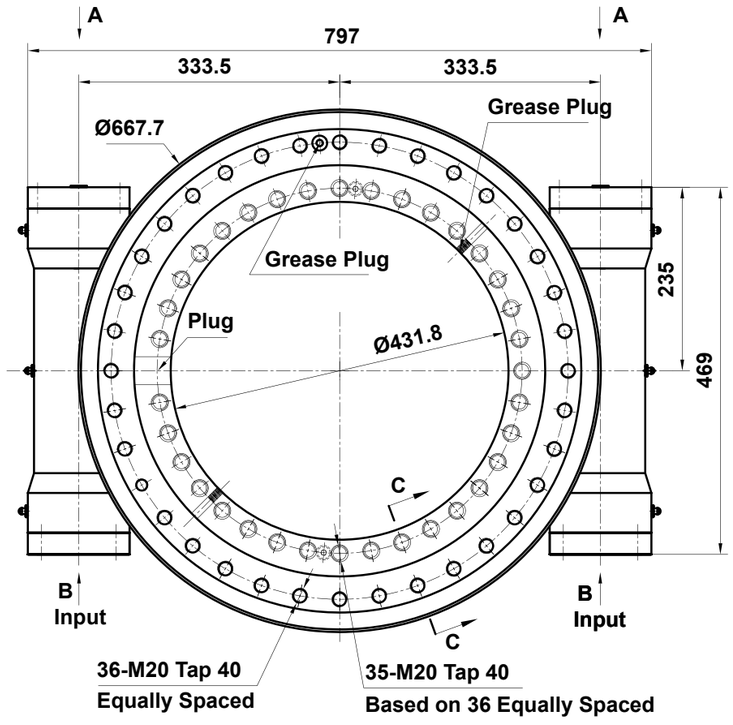
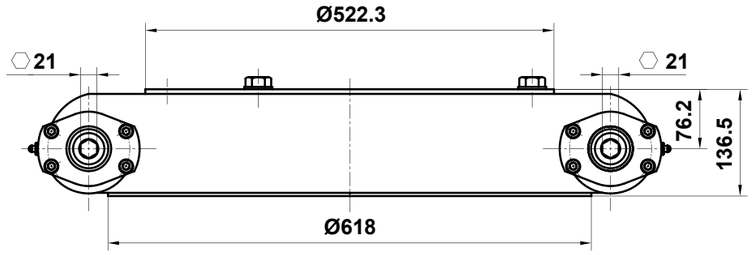


Units: mm
Weight: 161kg



VIEW A OPTION

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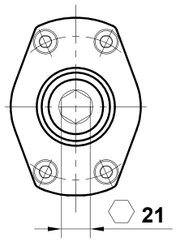
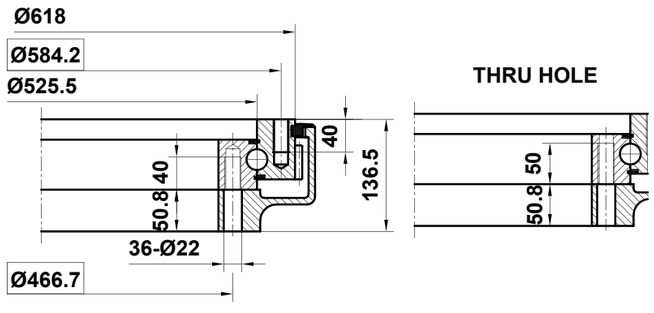


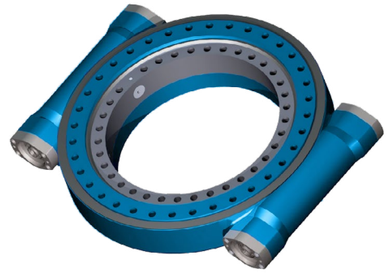
SECTION C

BLIND HOLE

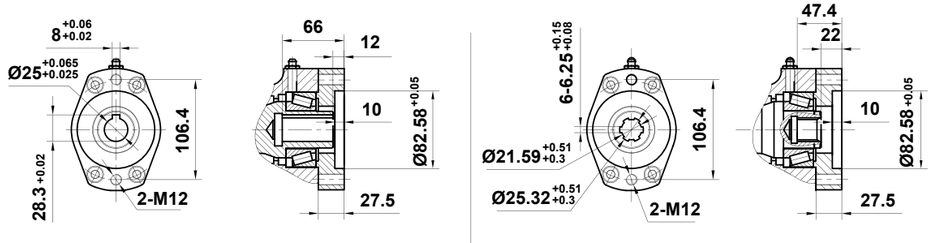


THRU HOLE

SE Series
SE21-2/S21-2
TRANSDRIVE® DRIVE PERFORMANCE



VIEW B OPTION



Ø12 Ø14Ø16Ø20
☐ NORMAL

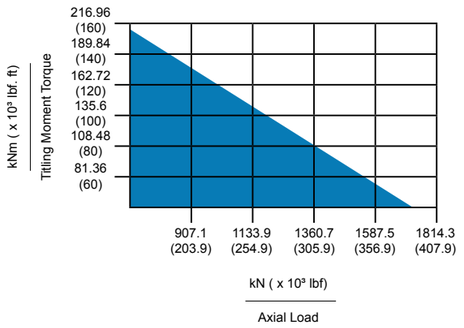
Ø25

6B SPLINE

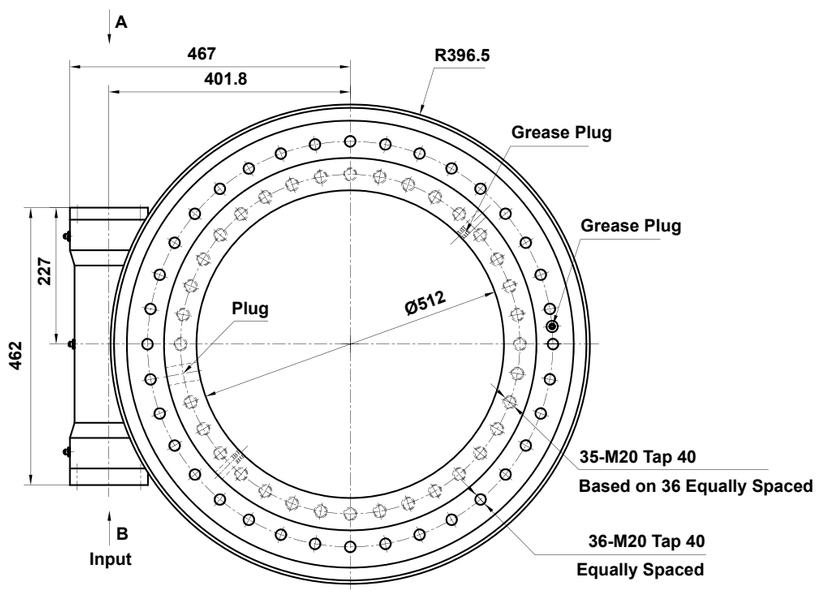
SE21-2/S21-2 - Worm Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE21-2	20.6kNm	203kNm	105.8kNm	1598kN	640kN	385kN	335kN	125:1	≤0.15°	149kg
	15194lbf.ft	150 x 10^3lbf.ft	78 x 10^3lbf.ft	359 x 10^3lbf	144 x 10^3lbf	87 x 10^3lbf	75 x 10^3lbf			
S21-2	20.6kNm	203kNm	105.8kNm	1598kN	640kN	385kN	335kN	125:1	≤0.15°	149kg
	15194lbf.ft	150 x 10^3lbf.ft	78 x 10^3lbf.ft	359 x 10^3lbf	144 x 10^3lbf	87 x 10^3lbf	75 x 10^3lbf			

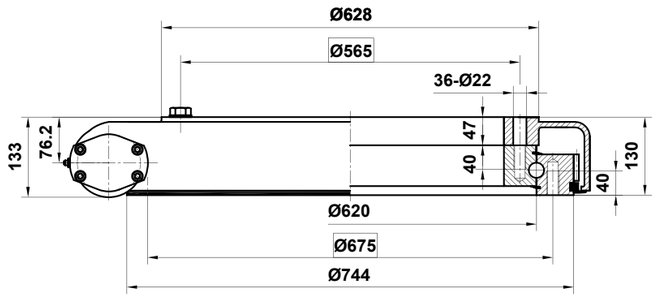
SE21-2/S21-2 - Moment Load Chart



Notice: Please be sure to remain under this curve.

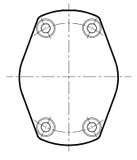


Units: mm
Weight: 204kg

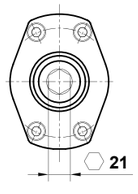


VIEW A OPTION

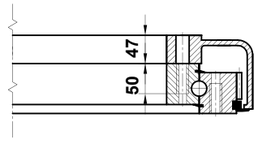
END CAP



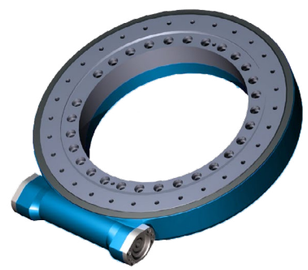
WITH HEX

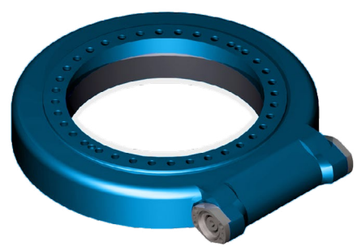


THRU HOLE OPTION

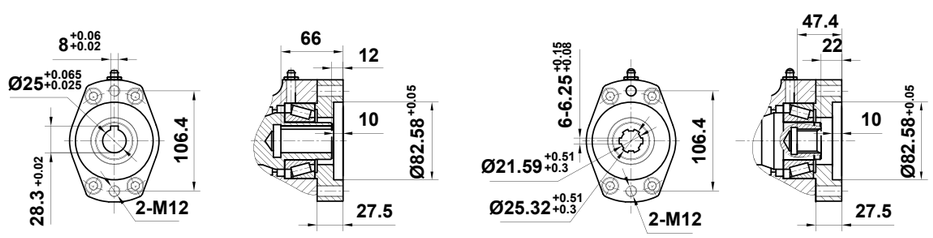


SE Series
SE25/PE25
TRANSDRIVE® DRIVE PERFORMANCE





VIEW B OPTION

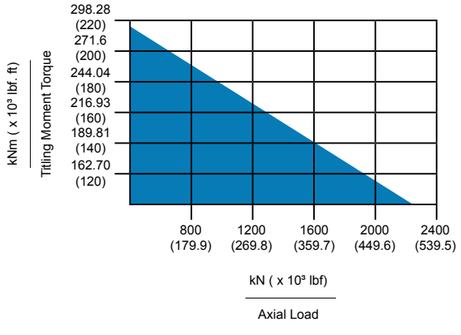


☒ Ø12 Ø14Ø16Ø20 ☒ Ø25 ☒ 6B SPLINE
☐ NORMAL

SE25/PE25 - Worm Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE25	18kNm	271kNm	158.3kNm	2360kN	945kN	590kN	470kN	150:1	≤0.15°	204kg
	13300lbf.ft	200 x 10³lbf.ft	117 x 10³lbf.ft	531 x 10³lbf	212 x 10³lbf	133 x 10³lbf	106 x 10³lbf			
PE25	18kNm	271kNm	158.3kNm	2360kN	945kN	590kN	470kN	150:1	I: ≤0.03o II: ≤0.05° III: ≤0.07° IV: ≤0.09°	204kg
	13300lbf.ft	200 x 10³lbf.ft	117 x 10³lbf.ft	531 x 10³lbf	212 x 10³lbf	133 x 10³lbf	106 x 10³lbf			

SE25/PE25 - Moment Load Chart



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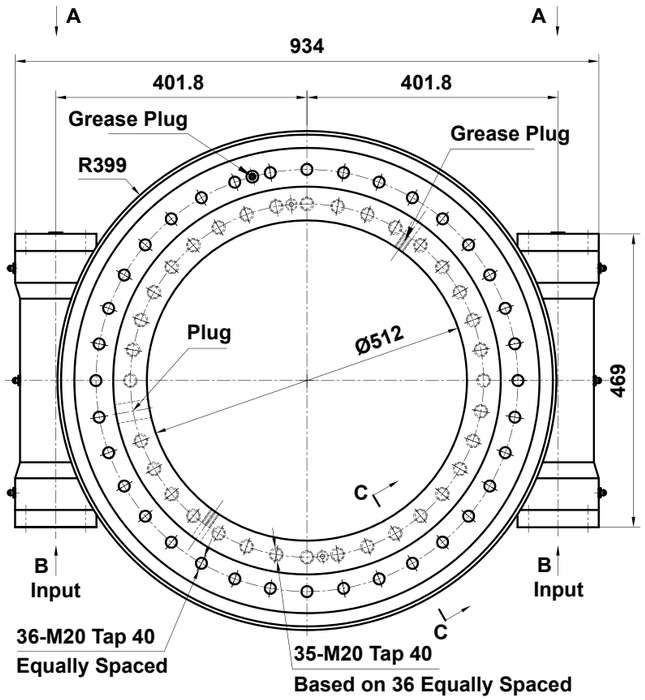

Units: mm
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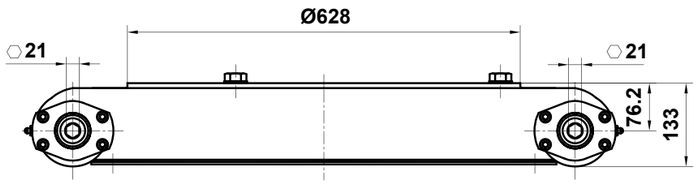
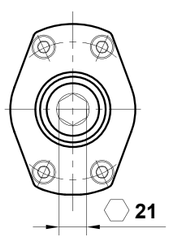
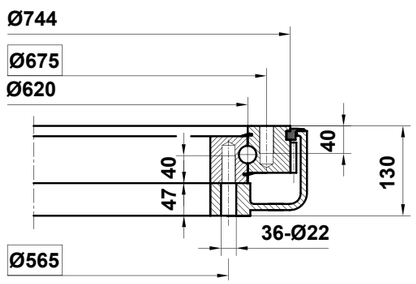


VIEW A OPTION

WITH HEX

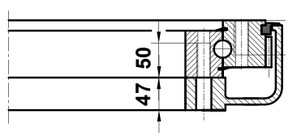


BLIND HOLE

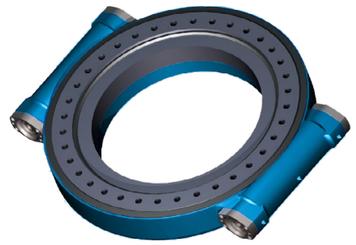


SECTION C

THRU HOLE



SE Series
SE25-2/S25-2
TRANSDRIVE® DRIVE PERFORMANCE



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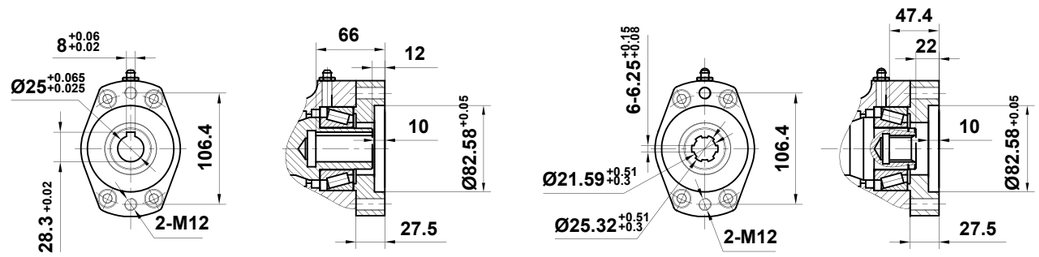


Ø12 Ø14Ø16Ø20
NORMAL

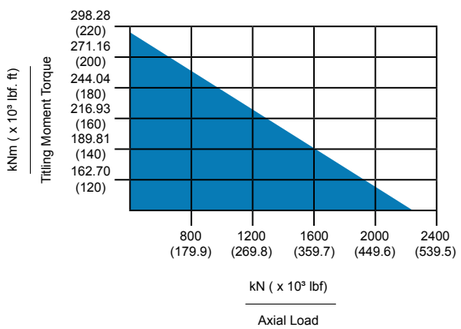
Ø25

6B SPLINE

SE25-2/S25-2 - Worm Drive Performance Parameters

Model	Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
SE25-2	28kNm	271kNm	158.3kNm	2360kN	945kN	590kN	470kN	150:1	≤0.15°	222kg
	20652lbf.ft	200 x 10^3lbf.ft	117 x 10^3lbf.ft	531 x 10^3lbf	212 x 10^3lbf	133 x 10^3lbf	106 x 10^3lbf			
S25-2	28kNm	271kNm	158.3kNm	2360kN	945kN	590kN	470kN	150:1	≤0.15°	204kg
	20652lbf.ft	200 x 10^3lbf.ft	117 x 10^3lbf.ft	531 x 10^3lbf	212 x 10^3lbf	133 x 10^3lbf	106 x 10^3lbf			

SE25-2/S25-2 - Moment Load Chart



Notice: Please be sure to remain under this curve.

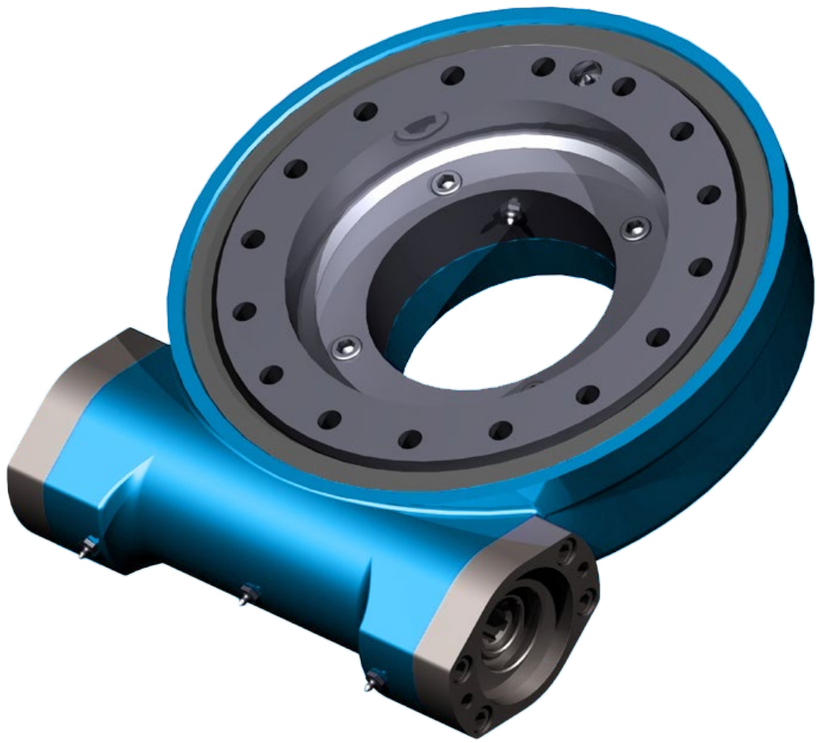
WEA Series

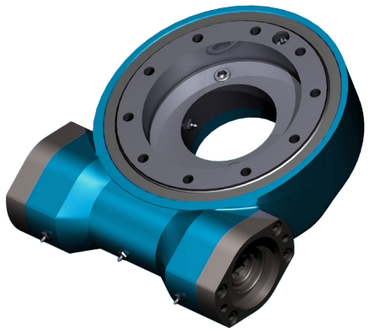
The WEA (Worm Enclosed Advanced) Series combines robust construction with enclosed gearing for superior protection and performance. Designed to withstand harsh environments, the WEA Series offers excellent durability and longevity by shielding against dust, moisture, and debris. This series ensures efficient, reliable operation, making it perfect for heavy-duty applications where consistent performance is crucial.

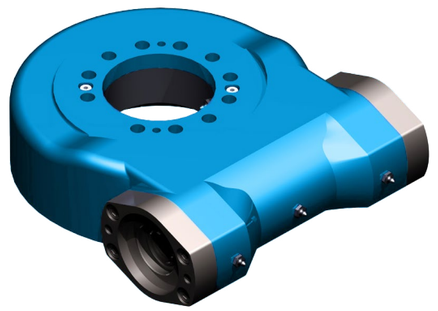
The key advantages of worm drives include their high reduction ratios, compact size, quiet operation, and the ability to provide a self-locking feature, which makes them suitable for applications where backdriving (reversing the direction of power flow) needs to be prevented.

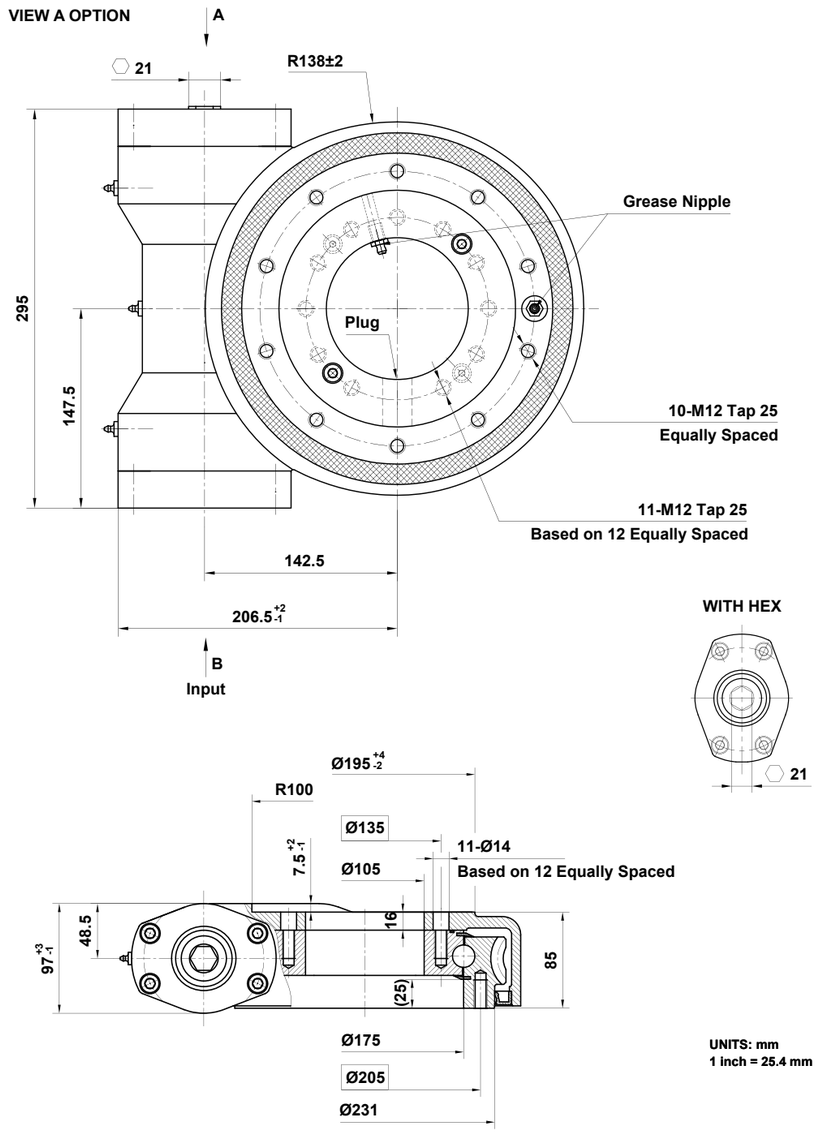
Our range

- WEA7
- WEA9
- WEA12
- WEA14
- WEA17
- WEA19
- WEA21
- WEA25

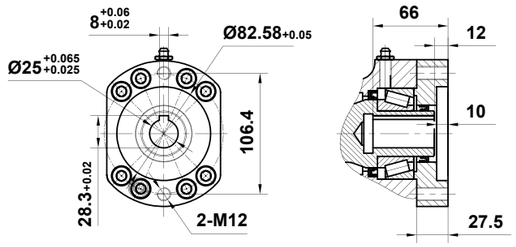








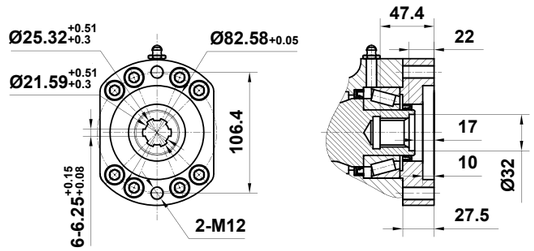
VIEW B OPTION



Ø12 Ø14 Ø16 Ø20 Ø25

☐ NORMAL

UNITS: mm
1 inch = 25.4 mm

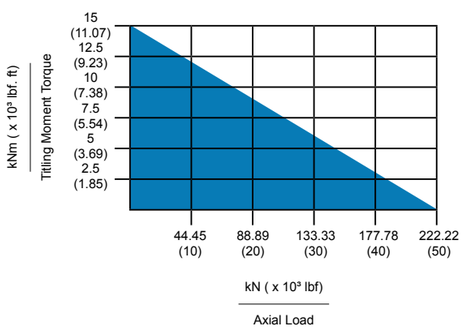


6B SPLINE

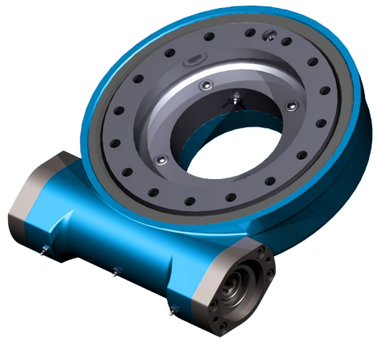
WEA7 - Worm Drive Performance Parameters

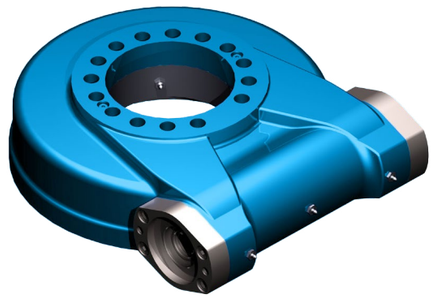
Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
3.5 kN.m	14.2 kN.m	20 kN.m	220 kN	90 kN	63 kN	48 kN	47:1	≤ 0.15o	35kg
2583 lbf.ft	10.5 x 10³ lbf.ft	14.8 x 10³ lbf.ft	49.5 x 10³ lbf	20.2 x 10³ lbf	14.2 x 10³ lbf	10.8 x 10³ lbf			

WEA7 - Moment Load Chart

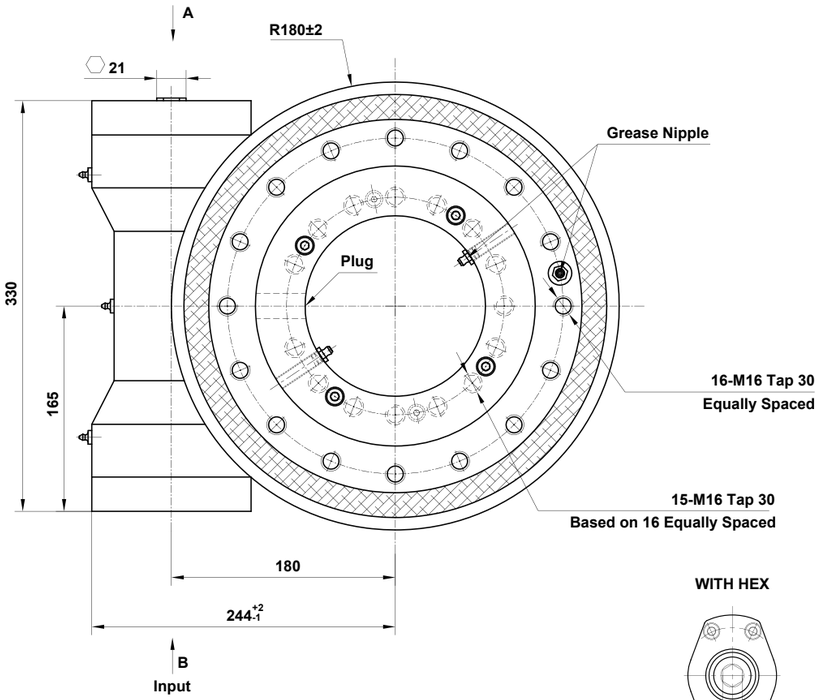


Notice: Please be sure to remain under this curve.





VIEW A OPTION



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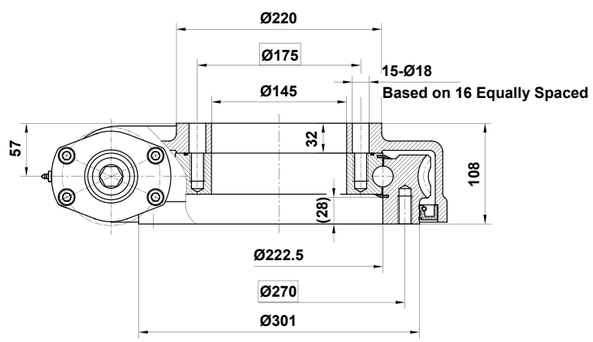
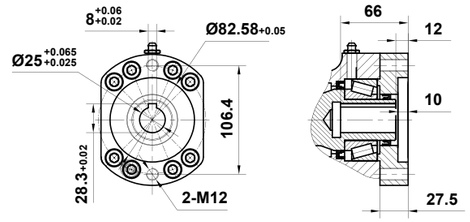


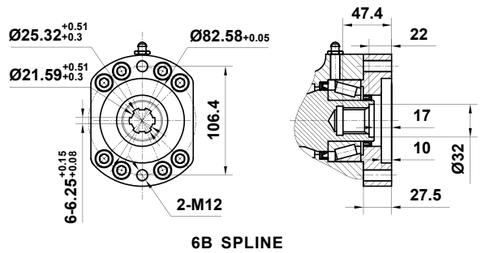
UNITS: mm
1 inch = 25.4 mm

VIEW B OPTION



Ø12 Ø14 Ø16 Ø20 Ø25

☐ NORMAL



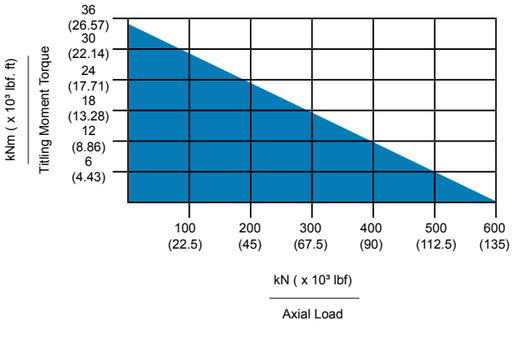
6B SPLINE

UNITS: mm
1 inch = 25.4 mm

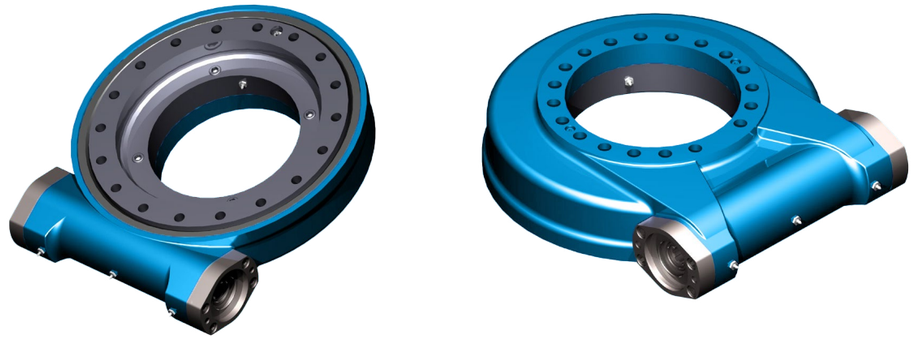
WEA9 - Worm Drive Performance Parameters

Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
8 kN.m	35.6 kN.m	38.7 kN.m	578 kN	215 kN	136 kN	115 kN	62:1	≤ 0.15o	53kg
5904 lbf.ft	26.3 x 10³ lbf.ft	29 x 10³ lbf.ft	129.9 x 10³ lbf	48.3 x 10³ lbf	30.6 x 10³ lbf	25.9 x 10³ lbf			

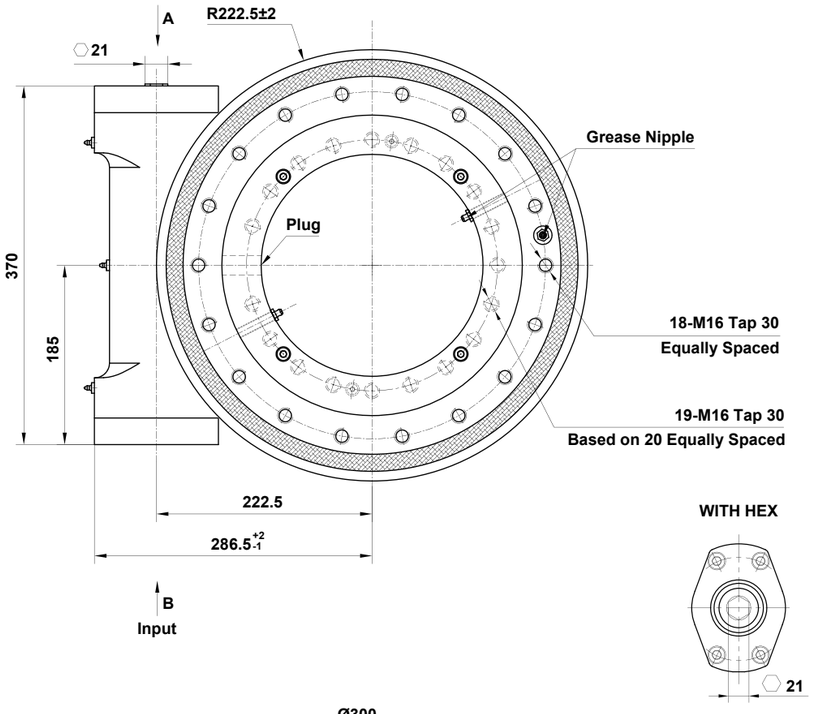
WEA9 - Moment Load Chart

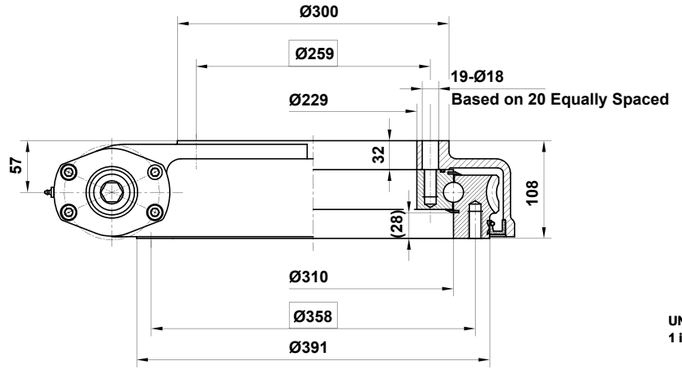


Notice: Please be sure to remain under this curve.



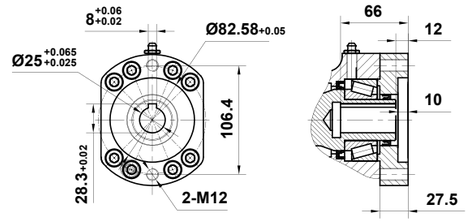
VIEW A OPTION





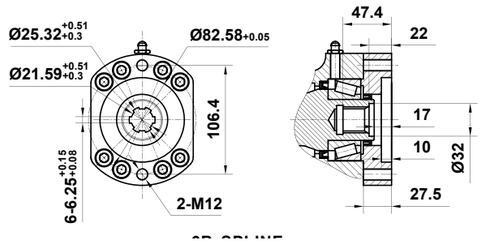
UNITS: mm
1 inch = 25.4 mm

VIEW B OPTION



Ø12 Ø14 Ø16 Ø20 Ø25

☐ NORMAL

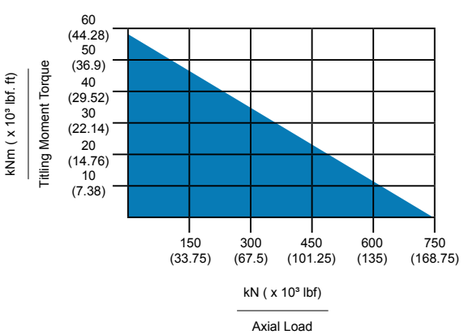


UNITS: mm
1 inch = 25.4 mm

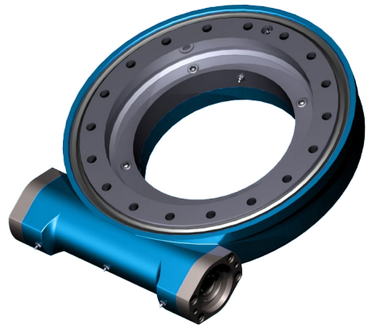
WEA12 - Worm Drive Performance Parameters

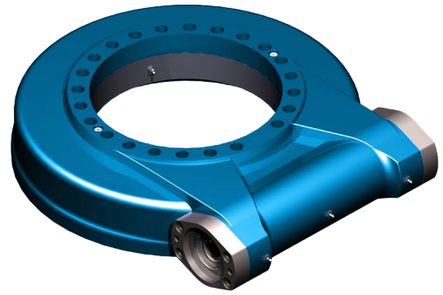
Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
9.5 kN.m	57 kN.m	43 kN.m	760 kN	280 kN	190 kN	148 kN	79:1	≤ 0.15o	66.8kg
7011 lbf.ft	42.1 x 10^3 lbf.ft	32 x 10^3 lbf.ft	171.1 x 10^3 lbf	62.9 x 10^3 lbf	42.7 x 10^3 lbf	33.3 x 10^3 lbf			

WEA12 - Moment Load Chart

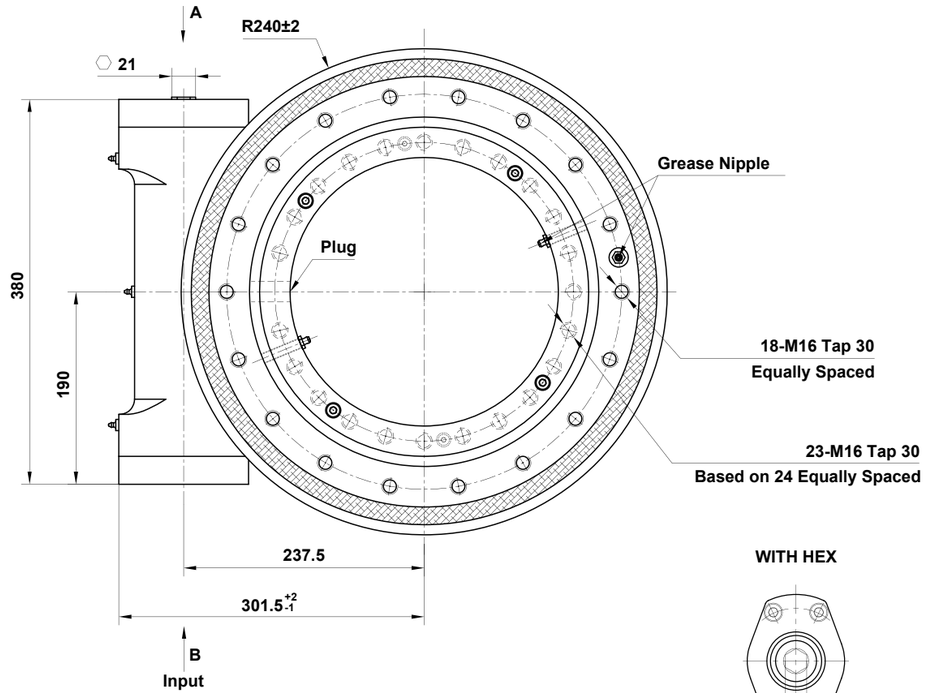


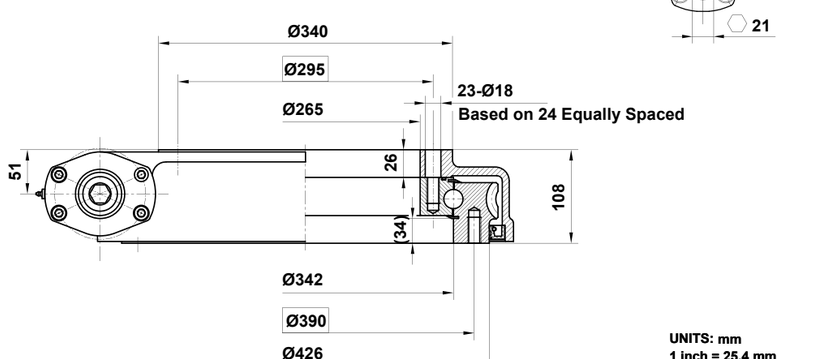
Notice: Please be sure to remain under this curve.





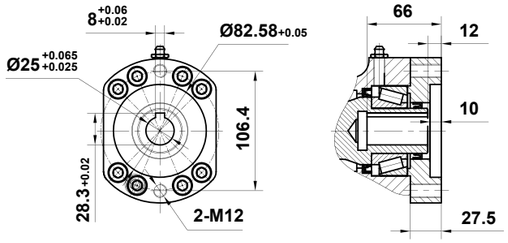
VIEW A OPTION





UNITS: mm
1 inch = 25.4 mm

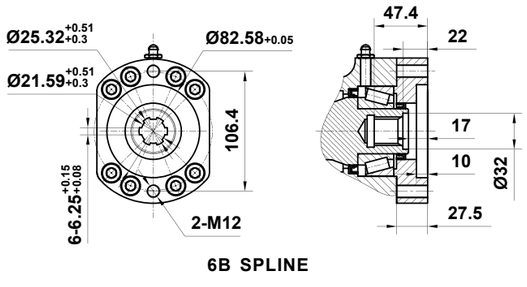
VIEW B OPTION



Ø12 Ø14 Ø16 Ø20 Ø25

☐ NORMAL

UNITS: mm
1 inch = 25.4 mm

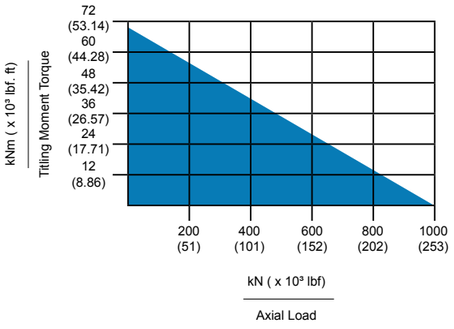


6B SPLINE

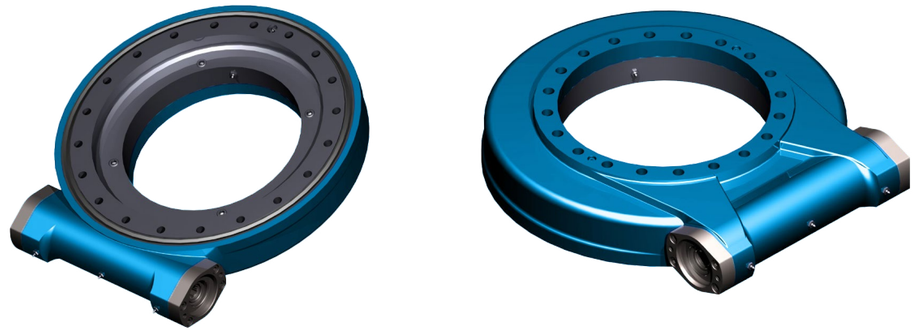
WEA14 - Worm Drive Performance Parameters

Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
10.8 kN.m	71.2 kN.m	48 kN.m	960 kN	360 kN	230 kN	200 kN	62:1	≤ 0.15o	53kg
7970 lbf.ft	52.6 x 10³ lbf.ft	35 x 10³ lbf.ft	215.8 x 10³ lbf	80.9 x 10³ lbf	51.7 x 10³ lbf	44.9 x 10³ lbf			

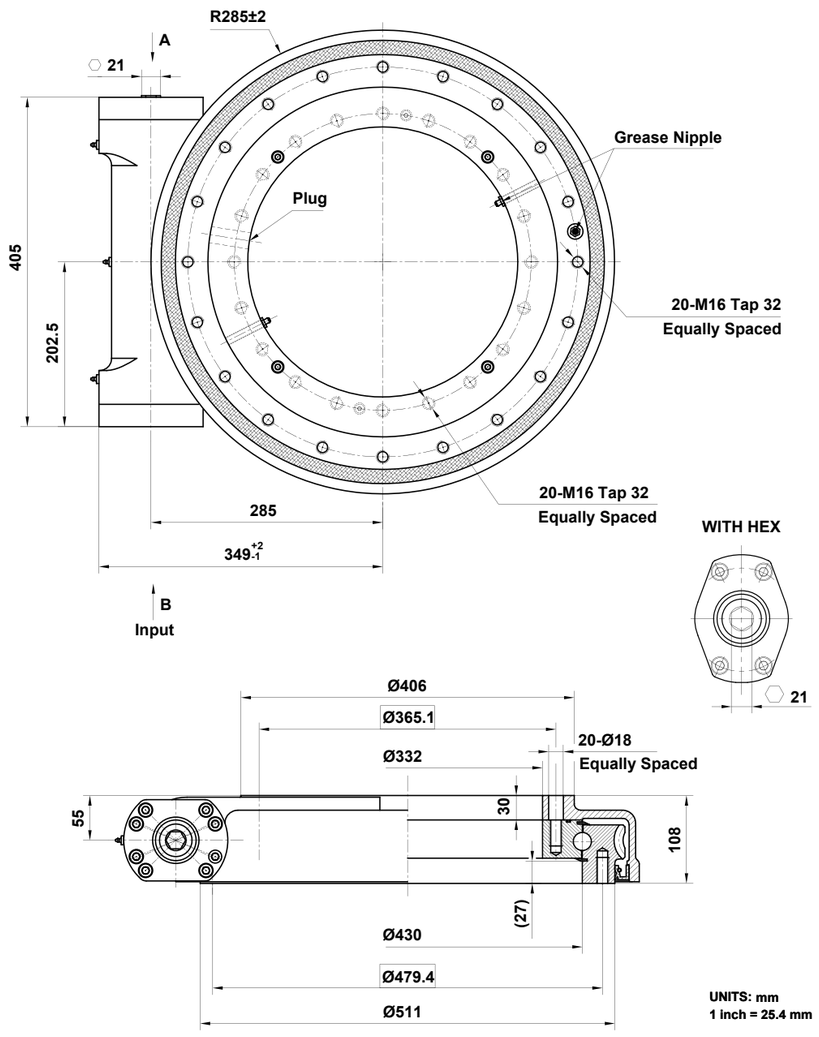
WEA14 - Moment Load Chart



Notice: Please be sure to remain under this curve.

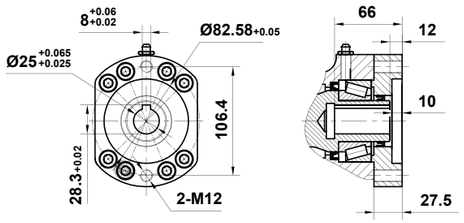


VIEW A OPTION



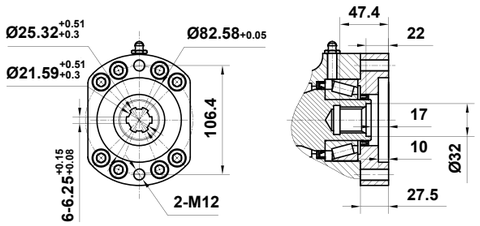
UNITS: mm
1 inch = 25.4 mm

VIEW B OPTION



Ø12 Ø14 Ø16 Ø20 Ø25

☐ NORMAL



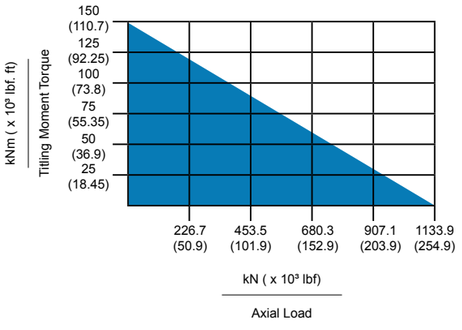
6B SPLINE

UNITS: mm
1 inch = 25.4 mm

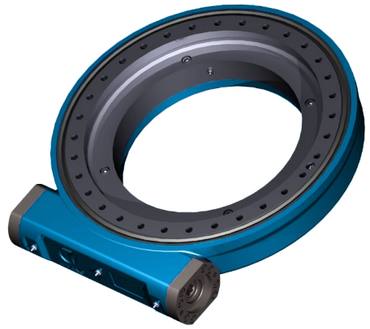
WEA17 - Worm Drive Performance Parameters

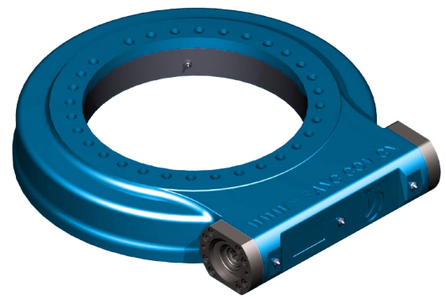
Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
12.96 kN.m	142.4 kN.m	72.3 kN.m	1166 kN	435 kN	280 kN	231 kN	104:1	≤ 0.1o	96kg
9564 lbf.ft	105 x 10³ lbf.ft	53.4 x 10³ lbf.ft	262 x 10³ lbf	97.8 x 10³ lbf	62.9 x 10³ lbf	51.9 x 10³ lbf			

WEA17 - Moment Load Chart

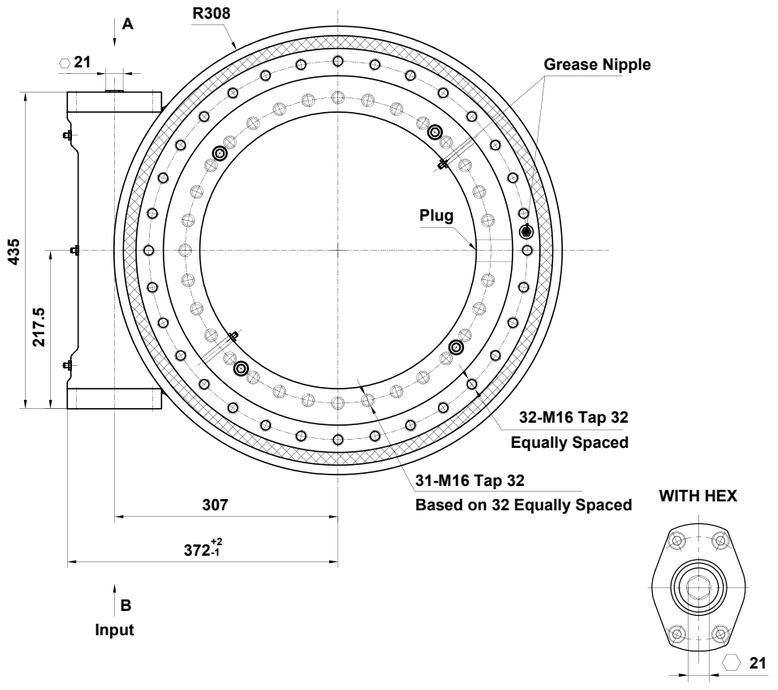


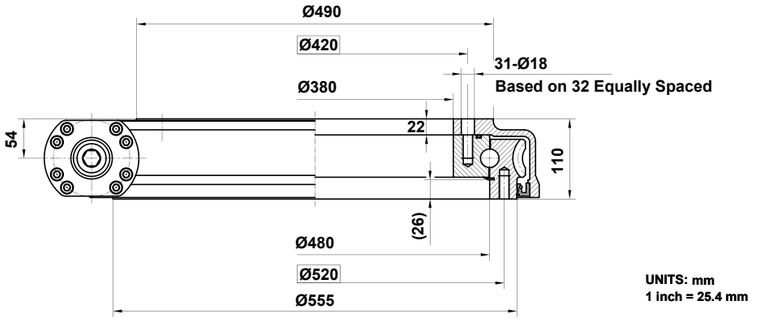
Notice: Please be sure to remain under this curve.





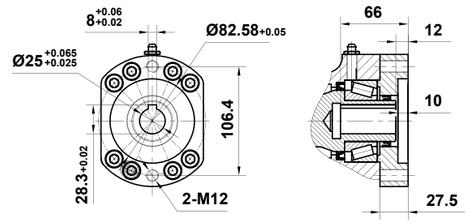
VIEW A OPTION





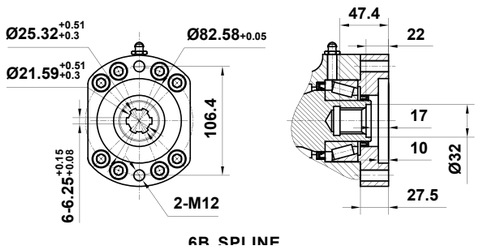
UNITS: mm
1 inch = 25.4 mm

VIEW B OPTION



Ø12 Ø14 Ø16 Ø20 Ø25

☐ NORMAL



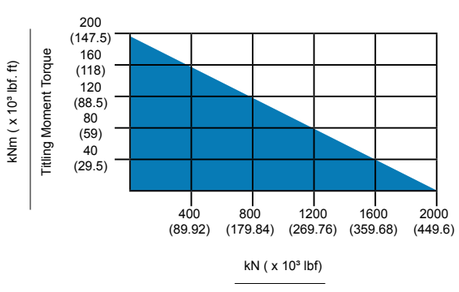
6B SPLINE

UNITS: mm
1 inch = 25.4 mm

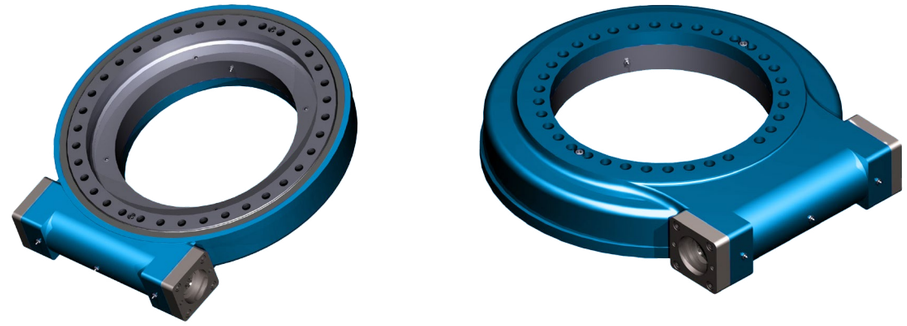
WEA19 - Worm Drive Performance Parameters

Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
18.5 kN.m	196 kN.m	86.7 kN.m	1800 kN	675 kN	290 kN	250 kN	93:1	≤ 0.1o	130kg
13653 lbf.ft	144.6 x 10³ lbf.ft	64 x 10³ lbf.ft	404.6 x 10³ lbf	151.7 x 10³ lbf	65.2 x 10³ lbf	56.2 x 10³ lbf			

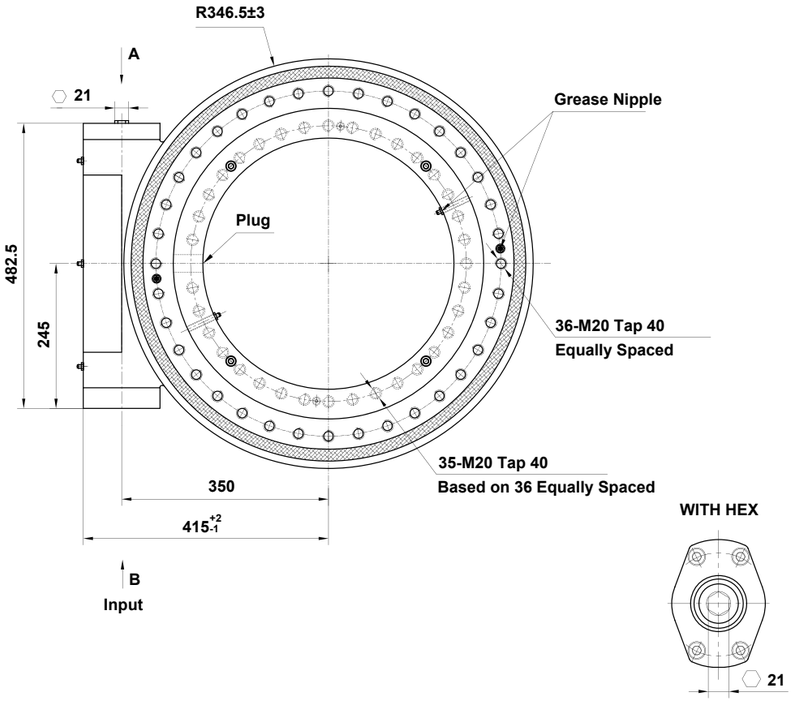
WEA19 - Moment Load Chart

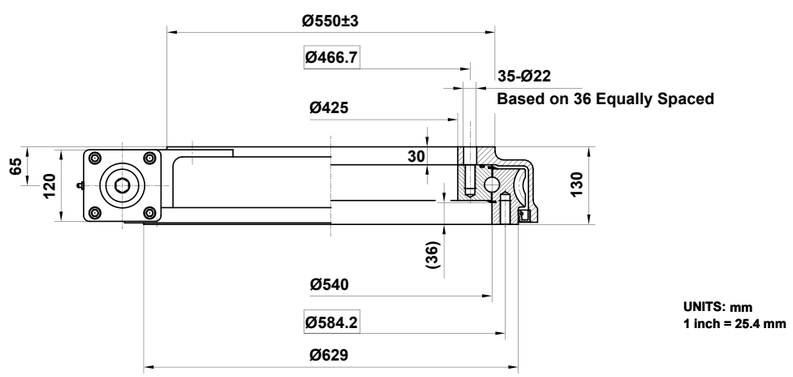


Notice: Please be sure to remain under this curve.



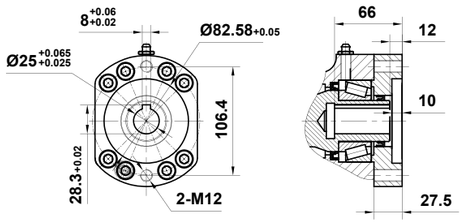
VIEW A OPTION





UNITS: mm
1 inch = 25.4 mm

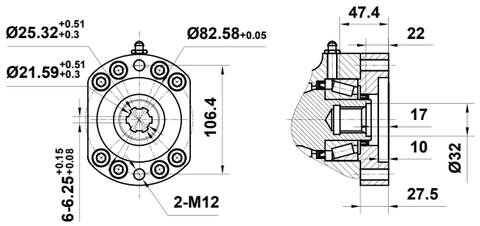
VIEW B OPTION



Ø12 Ø14 Ø16 Ø20 Ø25

☐ NORMAL

UNITS: mm
1 inch = 25.4 mm

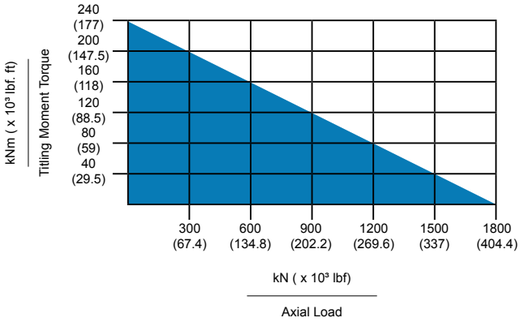


6B SPLINE

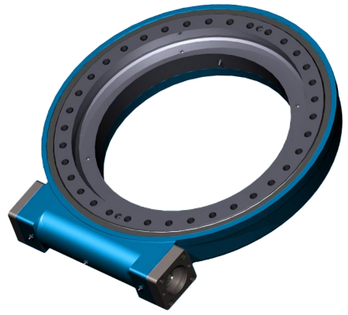
WEA21 - Worm Drive Performance Parameters

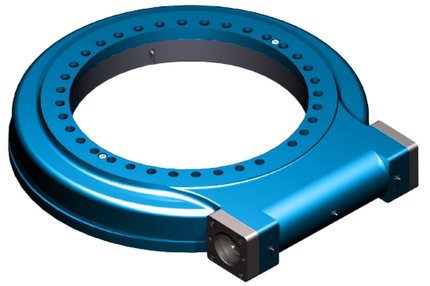
Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
28.7 kN.m	203 kN.m	105.8 kN.m	1598 kN	640 kN	385 kN	335 kN	90:1	≤ 0.1o	172kg
21180 lbf.ft	150 x 10^3 lbf.ft	78.1 x 10^3 lbf.ft	359 x 10^3 lbf	144 x 10^3 lbf	87 x 10^3 lbf	75 x 10^3 lbf			

WEA21 - Moment Load Chart

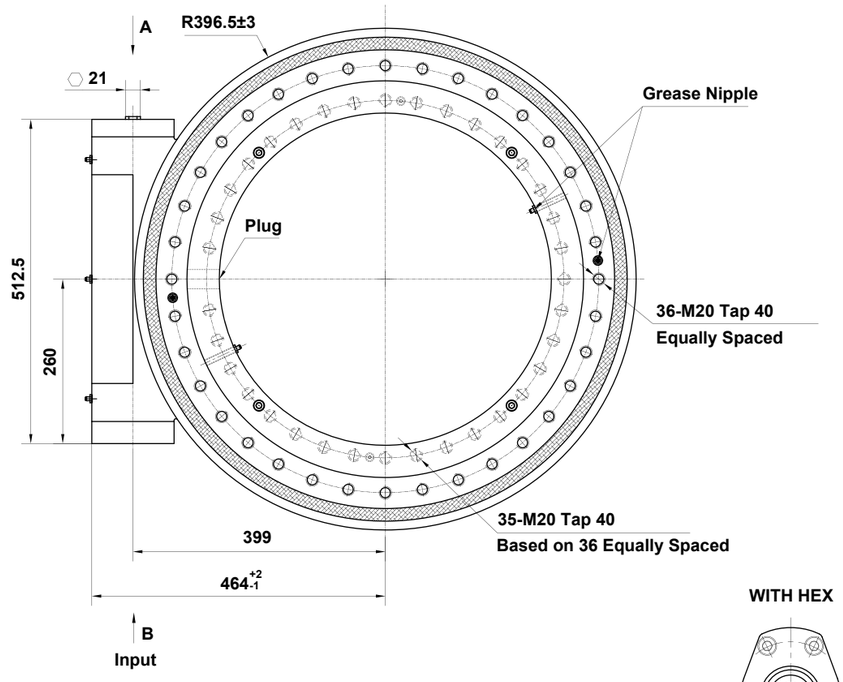


Notice: Please be sure to remain under this curve.

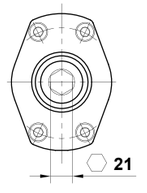


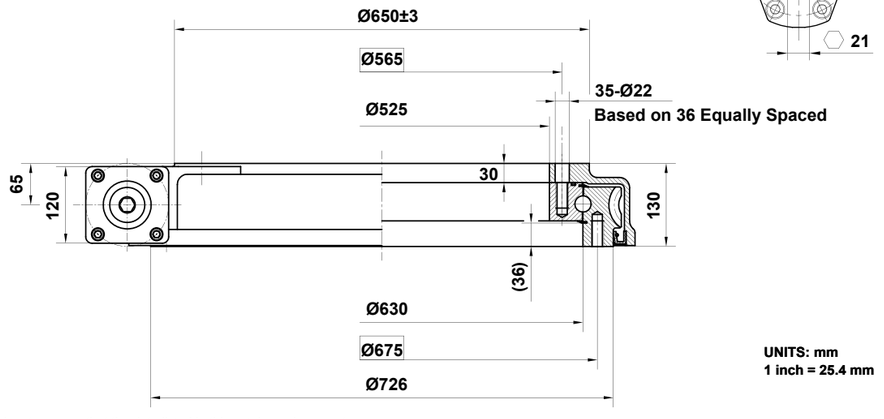


VIEW A OPTION



WITH HEX





UNITS: mm
1 inch = 25.4 mm

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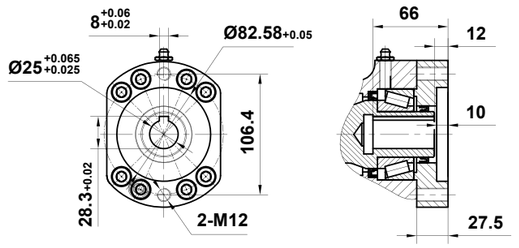
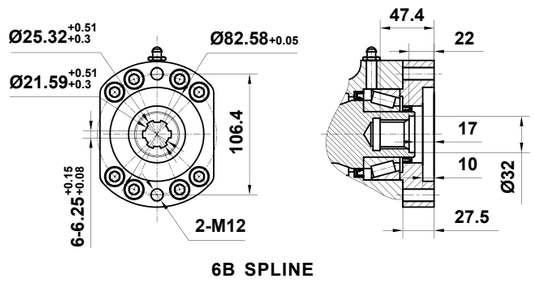
VIEW B OPTION



Ø12 Ø14 Ø16 Ø20 Ø25

☐ NORMAL

UNITS: mm
1 inch = 25.4 mm

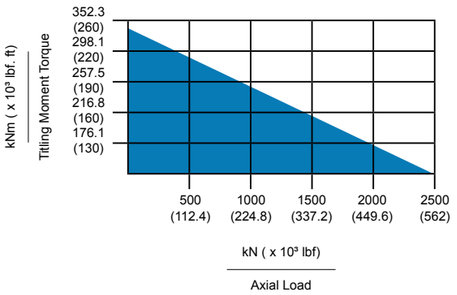


6B SPLINE

WEA25 - Worm Drive Performance Parameters

Output Torque	Tilting Moment Torque	Holding Torque	Static Axial Rating	Static Radial Rating	Dynamic Axial Rating	Dynamic Radial Rating	Gear Ratio	Tracking Precision	Weight
34.2 kN.m	310 kN.m	158.3 kN.m	2360 kN	945 kN	590 kN	470 kN	93:1	≤ 0.1o	130kg
25240 lbf.ft	229 x 10³ lbf.ft	117 x 10³ lbf.ft	531 x 10³ lbf	212 x 10³ lbf	133 x 10³ lbf	106 x 10³ lbf			

WEA25 - Moment Load Chart



Notice: Please be sure to remain under this curve.

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