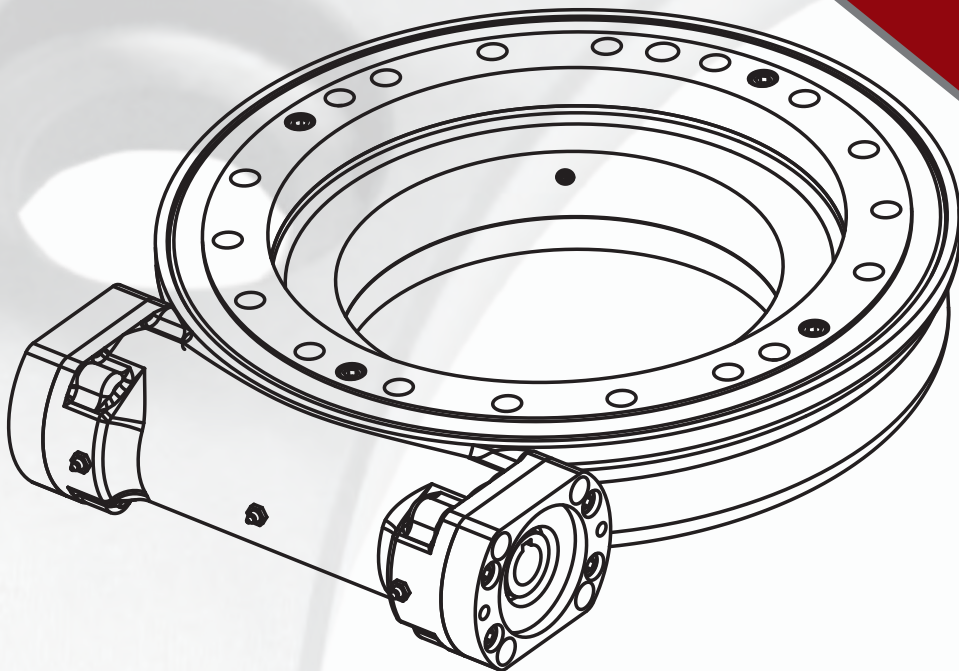


Slewing Drive Gearbox



Catalogo Tecnico Generale
General Technical catalogue



Il Gruppo AMA/AMA Group

Con oltre 50 anni di esperienza, **AMA** è leader nella fornitura di soluzioni e componenti per l'allestimento e la manutenzione di Off-Highway Vehicles (OHV), macchine agricole e per la cura del verde. Presente in 90 Paesi, l'azienda serve 80.000 clienti con un catalogo di oltre 525.000 referenze, rispondendo alle esigenze di costruttori e del mercato Aftermarket.

Con una rete industriale e commerciale composta da 16 stabilimenti produttivi in Italia, 5 stabilimenti produttivi nel mondo, 17 filiali distributive e 5 uffici commerciali, AMA garantisce qualità, innovazione e un servizio capillare per supportare l'evoluzione del settore.

*With over 50 years of experience, **AMA** is a leader in providing solutions and components for the outfitting and maintenance of Off-Highway Vehicles (OHV), agricultural machinery, and green care equipment. Operating in 90 countries, the company serves 80,000 customers with a catalog of over 525,000 references, meeting the needs of manufacturers and the Aftermarket sector.*

With an industrial and commercial network consisting of 16 production plants in Italy, 5 production plants worldwide, 17 distribution branches, and 5 commercial offices, AMA ensures quality, innovation, and a widespread service to support the evolution of the sector.



Business Unit

La produzione è organizzata in 8 Business Unit, che coprono un'ampia gamma di componenti: Cabina, Sedili e Volanti, Oleodinamica, Componenti agricoli, Lavorazione del suolo, Materiali compositi, Ricambi a catalogo per l'Aftermarket e Macchine e ricambi per il giardinaggio.

Production is organized into 8 Business Units, covering a wide range of components: Cabin, Seats and Steering Wheels, Hydraulics, Agricultural Components, Soil Working, Composite Materials, Aftermarket Catalog Spare Parts, and Gardening Machines and Spare Parts.

Componenti Agri/Agri components

Scatole ingranaggi, Alberi Cardanici, Snodi e Attacchi a 3 punti, Parti plastiche ad iniezione

Gearboxes, Cardan shafts, Ball ends and 3-point linkages, Injection moulded plastic parts

Oleodinamica/Hydraulic

Cilindri Idraulici, Componenti Refluid per centraline ed impianti Oleodinamici

Hydraulic cylinders, Refluid components for hydraulic power packs and systems

Catalogo/Catalogue

Articoli Agri, Consumer, Technic, Refluid ed Elettrico

Agri, Consumer, AMA Technic, Hydraulic and Electrical products

Sedili e volanti/Seats and steering wheels

Sedili conducente OHV, Sedili passeggero, Volanti

OHV driver seats, Passenger seats, Steering wheels

Lavorazione suolo/Soil working

Corpi aranti, Ricambi e attrezzature lavorazione terreno, Media carpenteria

Plough bodies, Spare parts and equipment for soil working, Medium metalwork fabrication

Garden

Macchine AMA per la cura del verde, Accessori e Ricambi

AMA garden machines, Accessories and spare parts

Cabine/Cabins

Colonne e piantoni sterzo, Strumentazione analogica e digitale, Componenti elettrici ed elettronici

Steering columns and steering systems, Analogue and digital instrumentation, Electrical and electronic components

Compositi/Composites

Prodotti termoformati in ABS e in materiali compositi, pannelli isolanti per edilizia.

OHV interior trims and panelling, insulating panels for building and construction

Sedi e Stabilimenti della Business Unit Agricoltura/*Sites and Plants of the Agriculture Business Unit*

Il **Gruppo AMA** opera con una solida rete di 23 stabilimenti produttivi tra Italia ed estero, lavorando in sinergia per offrire soluzioni complete per il settore OHV e garden. In Italia, AMA conta 17 stabilimenti produttivi, mentre altri 6 sono distribuiti a livello internazionale.

Per essere sempre più vicini ai clienti, AMA ha sviluppato una presenza globale con 16 filiali distributive e 5 uffici commerciali, garantendo supporto diretto e attenzione alle specificità di ogni mercato.

*The **AMA Group** operates with a solid network of 23 production plants across Italy and abroad, working in synergy to provide complete solutions for the OHV and garden sectors. In Italy, AMA has 17 production plants, while an additional 6 are located internationally.*

To stay closer to its customers, AMA has established a global presence with 16 distribution branches and 5 commercial offices, ensuring direct support and attention to the specific needs of each market.



Divisione Cardan di AMA S.p.A. - Casoli (CH), Italia

Lo stabilimento di Casoli (CH) è il cuore della produzione AMA Cardan, specializzato in trasmissioni cardaniche standard e omocinetiche. Con un'ampia gamma di componenti e soluzioni omologate, risponde alle esigenze del settore agricolo e industriale.

AMA S.p.A. Cardan Division - Casoli (CH), Italy

The Casoli (CH) plant is the heart of AMA Cardan's production, specializing in standard and constant velocity PTO shafts. With a wide range of components and certified solutions, it meets the needs of the agricultural and industrial sectors.



Seat Plastic S.r.l. - Mancasale (RE), Italia

Seat Plastic, specializzata nello stampaggio a iniezione e nella costruzione di stampi, offre un servizio completo dalla progettazione alla produzione di componenti in plastica per macchine agricole e industriali. Innovazione e velocità produttiva sono i suoi punti di forza.

Seat Plastic S.r.l. - Mancasale (RE), Italy

Seat Plastic specializes in injection molding and mold construction, offering a complete service from component design to the production of plastic parts for agricultural and industrial machinery. Innovation and production speed are its key strengths.



Divisione Lo Snodo di AMA S.p.A. - Rolo (RE), Italia

La Divisione Lo Snodo di AMA S.p.A. è specializzata nella produzione di bracci 3° punto, snodi per i settori agricolo e industriale, tiranti filettati e tenditori per l'agricoltura e l'edilizia.

Lo Snodo Division of AMA S.p.A. - Rolo (RE), Italy

Lo Snodo Division of AMA S.p.A. specializes in the production of 3-point linkages and joints for the agricultural and industrial sectors, tie rods, turnbuckles, and components designed for applications requiring structural load analysis and design validation.



**AMA India Enterprises Pvt. Ltd-
Ludhiana, Punjab, India**

AMA India è specializzata nella produzione di attacchi a 3 punti e componenti metallici per macchine agricole.

**AMA India Enterprises Pvt. Ltd-
Ludhiana, Punjab, India**

AMA India specializes production of top link assembly and metal parts for agricultural machines.



**CMR Agriculture member of AMA
Group - Borzano di Albinera (RE), Italia**

**CMR Agriculture member of AMA
Group - Borzano di Albinera (RE), Italy**



CMR Agriculture member of AMA Group - Taizhou (Cina)

Taizhou CMR Machinery è lo stabilimento produttivo di CMR Agriculture dedicato ai riduttori agricoli. Con un reparto R&D e oltre 300 operai, garantisce qualità, innovazione e competitività per il mercato globale.

CMR Agriculture member of AMA Group - Taizhou (China)

Taizhou CMR Machinery is the production facility of CMR Agriculture dedicated to agricultural gear reducers. With an R&D department and over 300 workers, it ensures quality, innovation, and competitiveness for the global market.



AMA S.p.A. , Logistic center - Prato di Correggio (RE), Italia

Il centro logistico di Prato (RE) è il fulcro delle operazioni di Logistica & Customer Service, garantendo spedizioni rapide e complete. Dotato di infrastrutture per la preparazione automatizzata degli ordini, ottimizza il servizio per i clienti dei settori Agri e Garden.

AMA S.p.A. , Logistic center - Prato di Correggio (RE), Italy

The Prato (RE) logistics center is the hub of Logistics & Customer Service operations, ensuring fast and complete shipments. Equipped with automated order preparation infrastructure, it optimizes service for customers in the Agri and Garden sectors.

CMR Agriculture member of AMA Group

La sede di CMR Agriculture a Borzano di Albinea (RE), copre 7.000 m², con 600 m² di uffici, 3.400 m² di magazzini e il resto destinato a carico/scarico e stoccaggio. Specializzata in alberi cardanici, ricambi e scatole ingranaggi, l'azienda gestisce ideazione, progettazione, produzione e distribuzione.

Grazie a tecnologie avanzate, offre soluzioni standard e personalizzate con massima flessibilità.

Il supporto commerciale, basato su competenze tecniche garantisce risposte rapide ed efficaci.

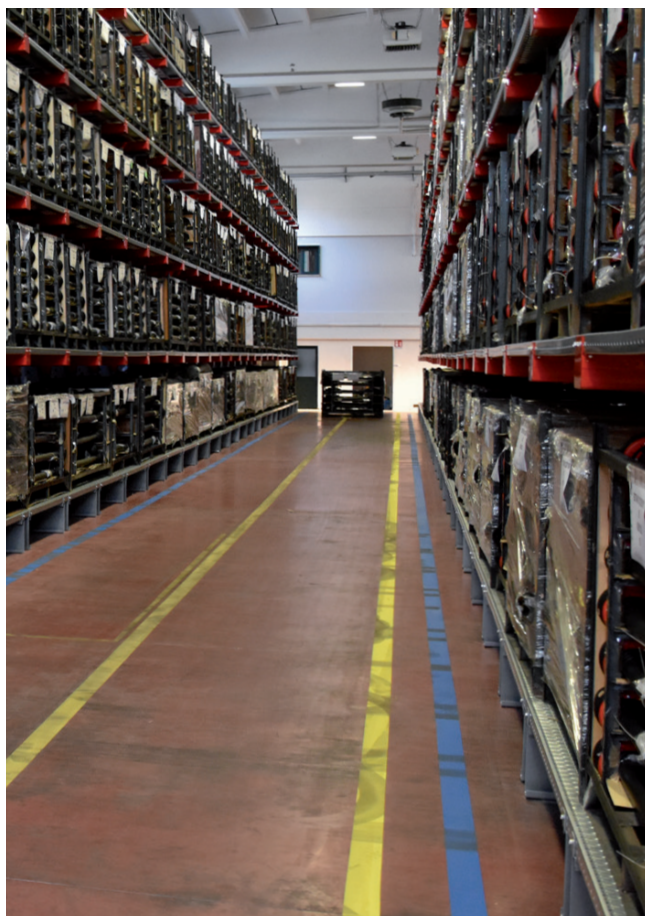
The headquarters of CMR Agriculture in Borzano di Albinea (RE), covers 7,000 m², with 600 m² of offices, 3,400 m² of warehouses, and the remaining space dedicated to loading/unloading and storage.

Specializing in cardan shafts, spare parts, and gearboxes, the company manages design, engineering, production, and distribution.

Thanks to advanced technologies, it offers standard and customized solutions with maximum flexibility.

Its commercial support, based on technical expertise, ensures quick and effective responses.

Magazzini Warehouses



Magazzini Warehouses



Progettazione e produzione *Engineering and production*

CMR Agriculture unisce competenze, professionalità e tecnologie avanzate per sviluppare prodotti su misura, partendo dall'analisi e progettazione del disegno tecnico.

Le sue soluzioni personalizzate trovano applicazione nel settore agricolo e in diversi ambiti.

L'azienda gestisce l'intero processo, dalla progettazione alla produzione, includendo anche il supporto tecnico commerciale post-produzione.

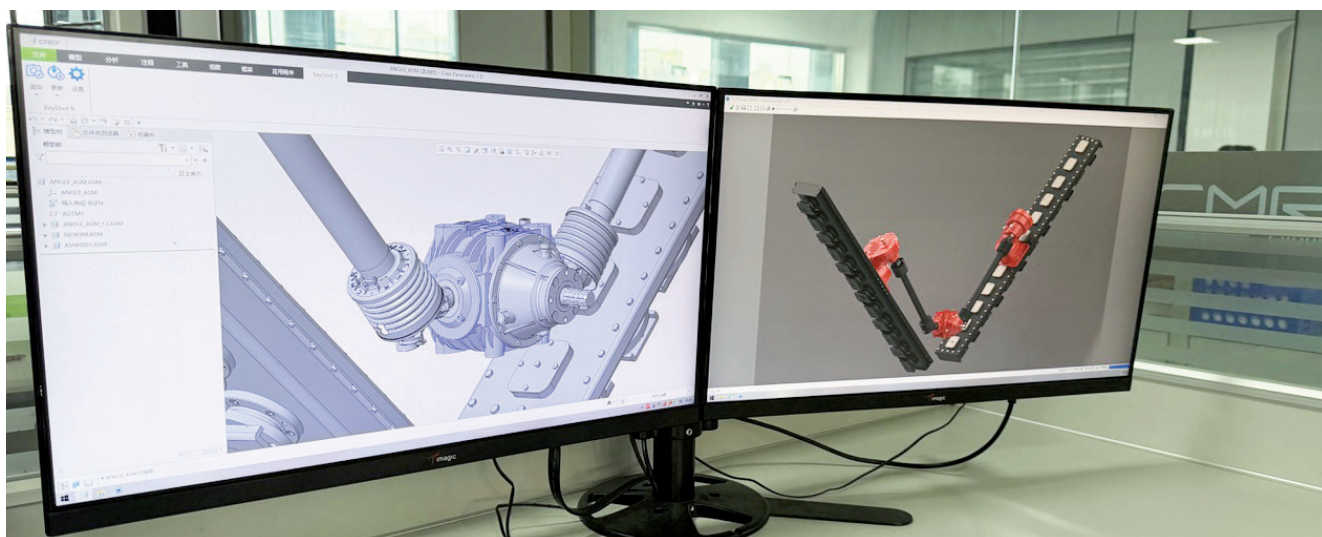
Tutte le fasi sono interne, garantendo qualità e controllo completo.

CMR Agriculture combines expertise, professionalism, and advanced technologies to develop customized products, starting from the analysis and design of technical drawings.

Its tailored solutions are applied in the agricultural sector and various other industries. The company manages the entire process, from design to production, including technical commercial support post-production.

All phases are handled internally, ensuring complete quality and control.

Ufficio Tecnico e progettazione *Technical and design department*



Trattamenti termici *Heat treatments*



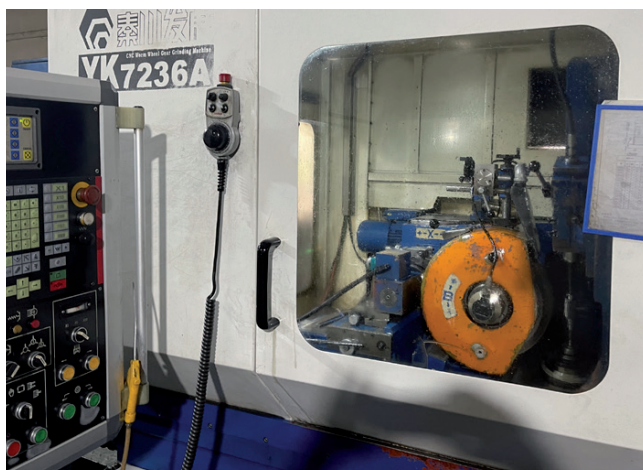
**Progettazione e
realizzazione completa
dei prodotti.**

***Full products development
from design to
manufacturing.***

Reparto elettrotricalcatura
Electrical upsetting presses



Macchina per rettifica CNC
Grinding machine CNC



Centro freni per controllo coppie
Torque control brake center



Processi produttivi interni

Internal production processes

L'intero ciclo produttivo avviene interamente all'interno dei nostri stabilimenti:

- produzioni
- lavorazioni meccaniche
- rettifiche
- verniciatura
- trattamenti termici
- controlli dimensionali
- controlli qualità

The entire production cycle takes place in our plants:

- productions
- mechanical machining
- grinding
- coating
- heat treatments
- dimensional checks
- quality controls

Centri di lavoro CNC

CNC machining center



Standard qualitativi elevati, prodotti just in time, rapidità, puntualità e interessanti savings.

High quality standard, products to be supplied on just in time, rapidly, promptly with interesting savings.

Linea assemblaggio
Assembly line



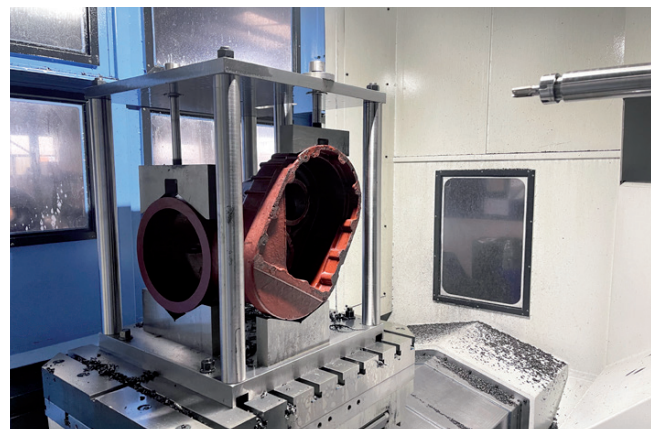
CNC orizzontali
Horizontal CNC



Centri di lavoro CNC
CNC machining center



Centri di lavoro CNC
CNC machining center



Dentatrice CNC
CNC gear cutting machine



Dentatrice CNC
CNC gear cutting machine



Qualità/Quality

“Qualità imprescindibile” non è solo uno motto, ma un valore fondante, un impegno costante che definisce la cultura aziendale di CMR Agriculture sin dalla sua nascita. Nei moderni laboratori di Controllo Qualità, presenti sia nei siti produttivi che presso la sede, vengono eseguiti rigorosi test per garantire la piena conformità dei prodotti agli standard richiesti. Ogni fase della produzione è affiancata da controlli statici, volti ad assicurare affidabilità e precisione.

L'azienda si avvale di strumentazione all'avanguardia, dotata di certificazione di taratura conforme alle normative di Qualità, tra cui:

- Braccio meccanico tridimensionale
- Evolventimetro
- Altimetro
- Durometro
- Rugosimetro
- Tamponi lisci e filettati P/NP
- Calibri
- Micrometri

La certificazione del Sistema Qualità ISO 9001, mantenuta da anni, testimonia l'impegno costante di CMR Agriculture nella ricerca dell'eccellenza e nel rispetto dei più elevati standard qualitativi.

“Essential Quality” is not just a motto but a core value, a constant commitment that has defined the corporate culture of CMR Agriculture since its inception. In the modern Quality Control laboratories, located both at production sites and headquarters, rigorous tests are conducted to ensure full compliance with required standards. Every stage of production is accompanied by static checks to guarantee reliability and precision.

The company utilizes state-of-the-art equipment, certified for calibration in accordance with Quality regulations, including:

- *Three-dimensional mechanical arm In-volutometer*
- *Altimeter*
- *Hardness tester*
- *Roughness tester*
- *Smooth and threaded P/NP gauges*
- *Calipers*
- *Micrometers*

The ISO 9001 Quality System certification, maintained for years, demonstrates CMR Agriculture's continuous commitment to excellence and adherence to the highest quality standards.

Braccio meccanico tridimensionale Three-dimensional mechanical arm



**Da oltre 50 anni
progettiamo
e realizziamo
componentistica
meccanica di alto
livello qualitativo e
prestazionale.**

***For over fifty years we design
and manufacture high quality
and performance mechanical
components.***

Test di trazione
Traction test



Durometro
Durometer



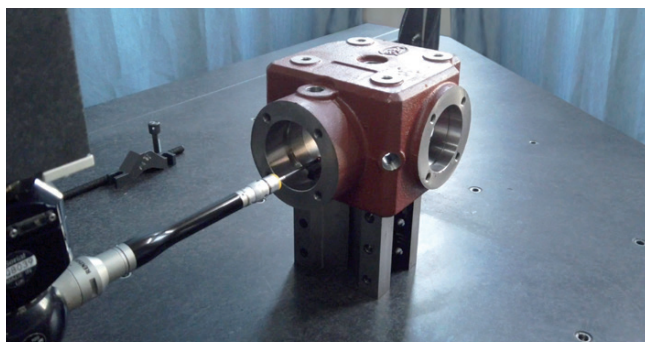
Controllo qualità
Quality control



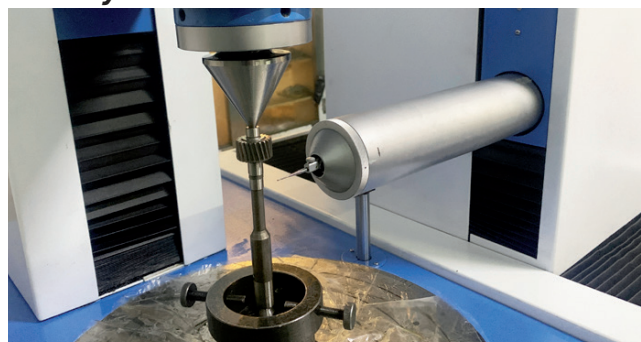
Controllo qualità
Quality control



Controllo tridimensionale
Three-dimensional control



Controllo qualità
Quality control



La logistica/*The logistic*

I magazzini automatizzati di ultima generazione permettono di stoccare simultaneamente grandi volumi di prodotti di diversa tipologia, ottimizzando i tempi di prelievo dei materiali. Questa ampia capacità di stoccaggio consente di migliorare il servizio offerto, rispondendo tempestivamente alle esigenze della clientela e garantendo una gestione dei processi aziendali in linea con i principi del lean management e dell'Industry 4.0.

The latest generation of automated warehouses makes it possible to store large volumes of different types of products at the same time, reducing material retrieval times. This high storage capacity improves service quality, allowing for a quick response to customer needs and ensuring efficient business process management in line with lean management and Industry 4.0 principles.

Principali servizi per i nostri Clienti *Main services for our Customers*



Spedizioni H24
H24 shipments



Supporto Clienti
Customers support



Pianificazione ordini
Orders planning



Verifica origine
Inspection at source



Confezionamenti personalizzati
Customized packaging



Progettazione personalizzata
Customized design



Tracciabilità
Traceability

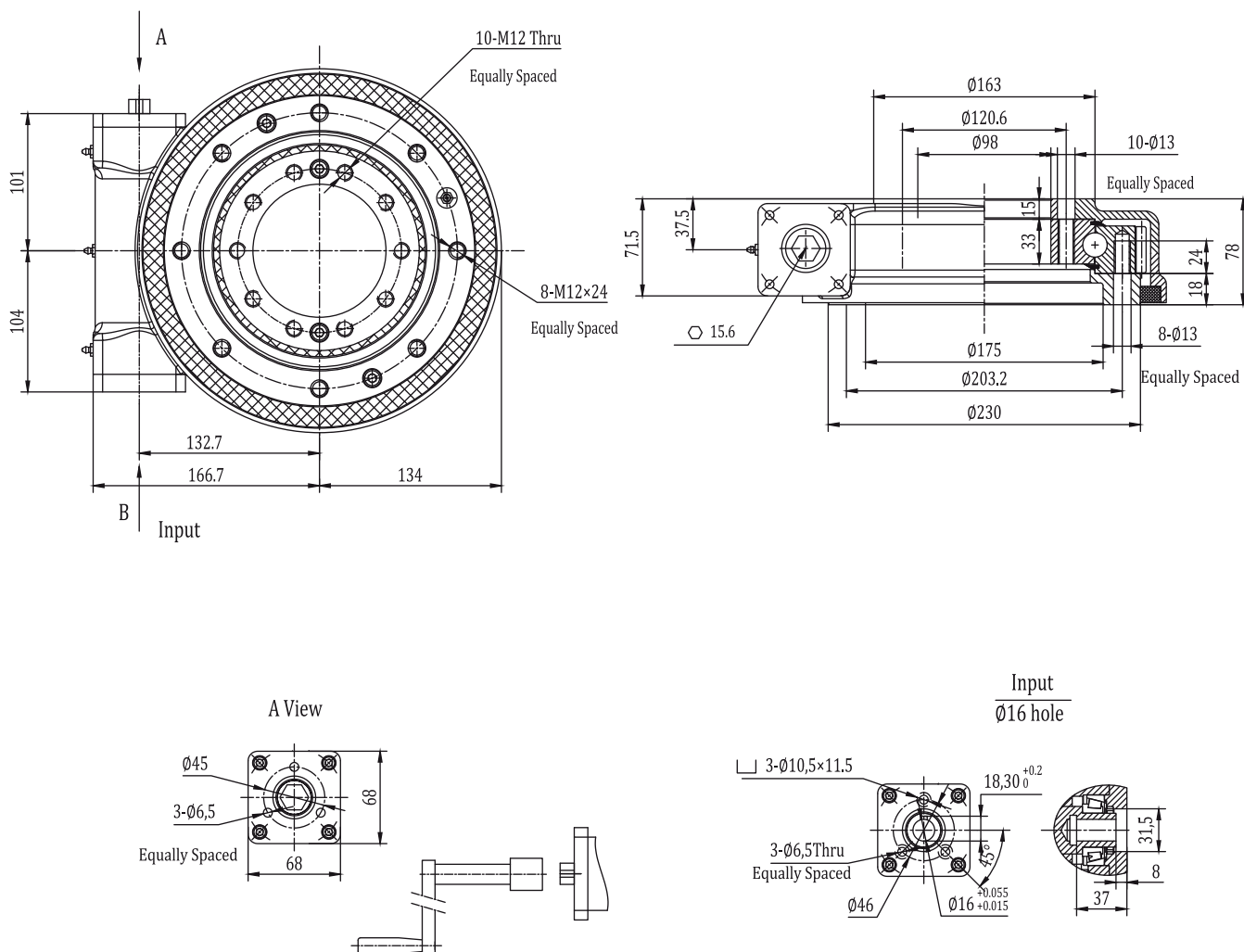


Gestione corrieri
Management of carries



Disponibilità a magazzino
Wide range in stock

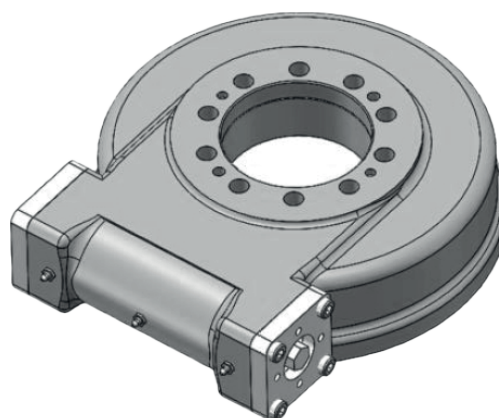
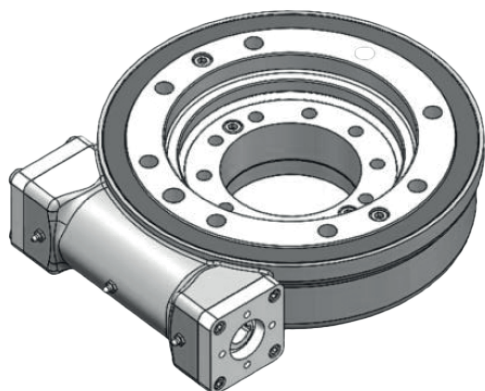
Dimensions



19 kg

Units: mm
1 inch=25.4mm

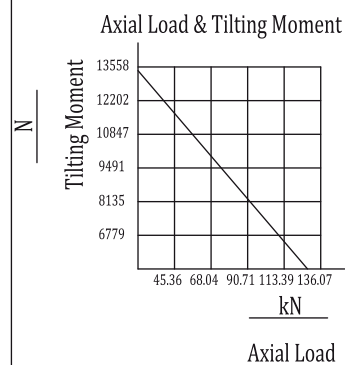
Technical Data



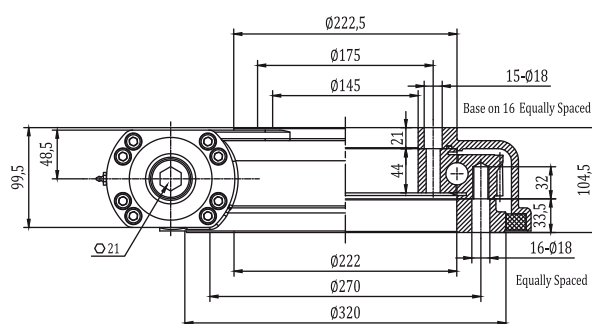
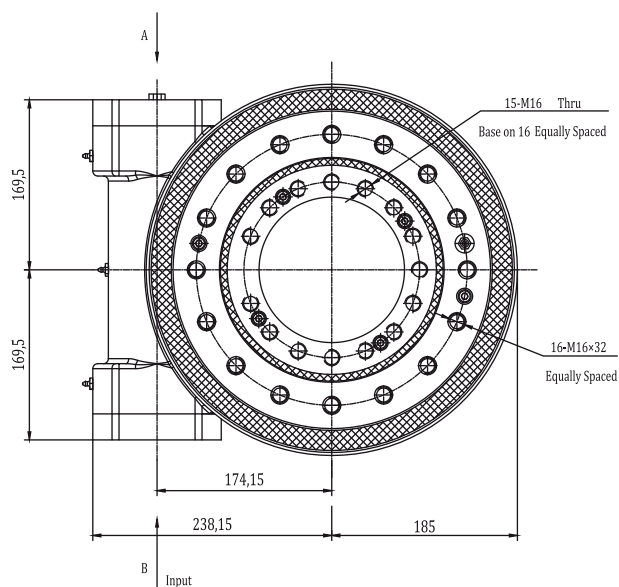
SC7 Slewing Drive Performance Parameters

Gear Ratio	71:1	
Output Torque (max.)	3.5 kN.m	2.58×10 ³ lbf.ft
Tilting Moment (max.)	13.5 kN.m	9.96×10 ³ lbf.ft
Holding Torque	10.4 kN.m	7.67×10 ³ lbf.ft
Static Axial Load Rating	133 kN	30×10 ³ lbf
Static Radial Load Rating	53 kN	11.9×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

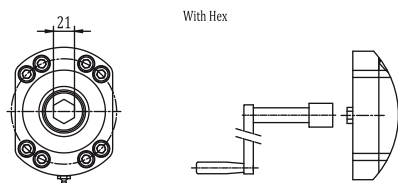
MOMENT LOAD CHART



Dimensions

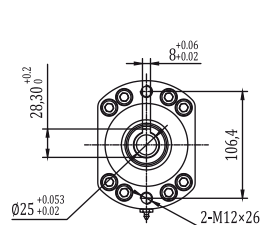


/A View

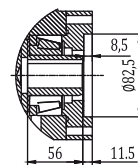


With Hex

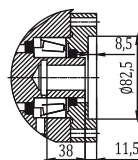
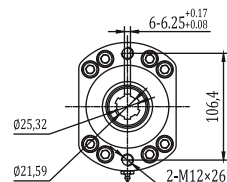
/B View



Input
Ø25 Hole

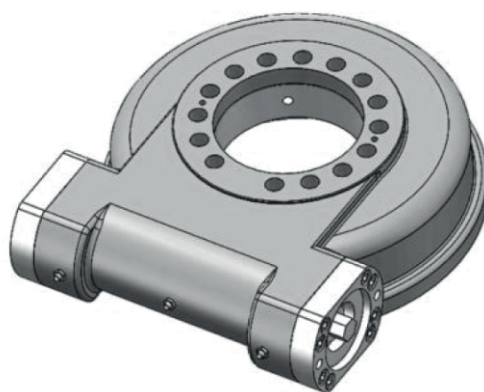
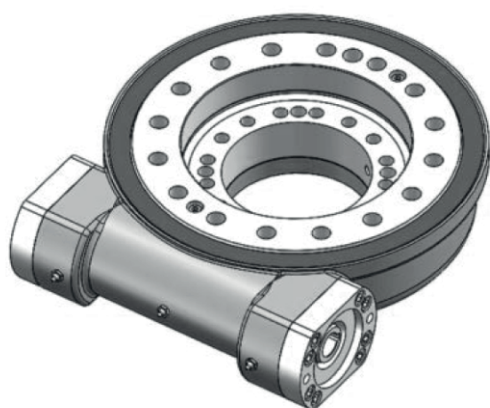


Input
6B Spline



Units: mm
1 inch=25.4mm

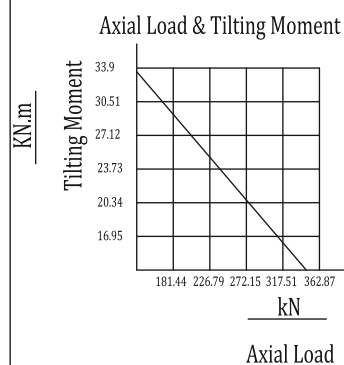
Technical Data



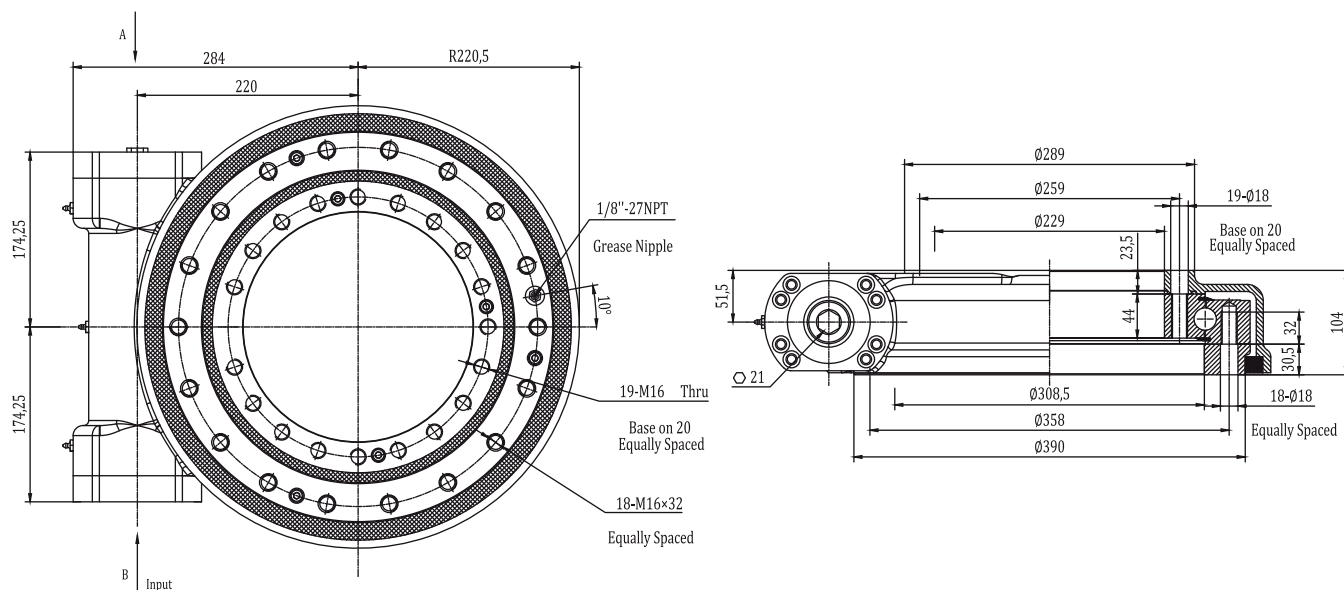
SC9 Slewing Drive Performance Parameters

Gear Ratio	61:1	
Output Torque (max.)	12.2 kN.m	$9,0 \times 10^3$ lbf.ft
Tilting Moment (max.)	33.9 kN.m	25×10^3 lbf.ft
Holding Torque	38.7 kN.m	28.5×10^3 lbf.ft
Static Axial Load Rating	338 kN	20.3×10^3 lbf
Static Radial Load Rating	135 kN	15.9×10^3 lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	$\leq 0.2^\circ$	
IP Class	IP65	

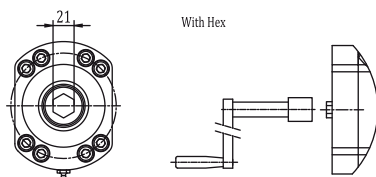
MOMENT LOAD CHART



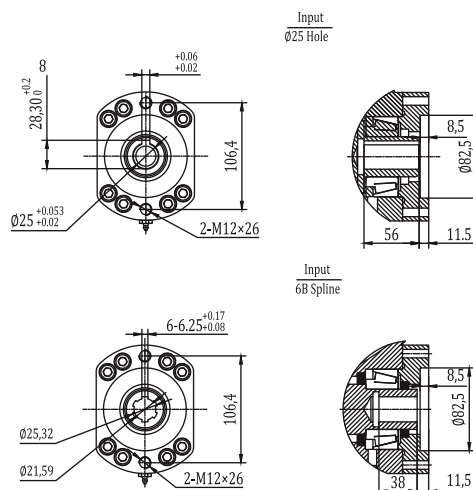
Dimensions



/A View

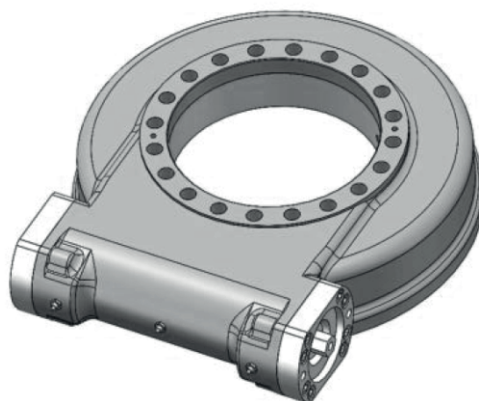
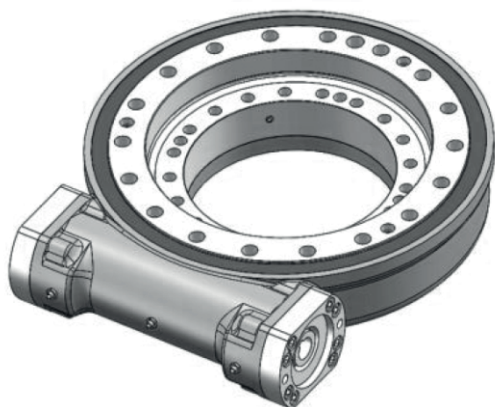


/B View



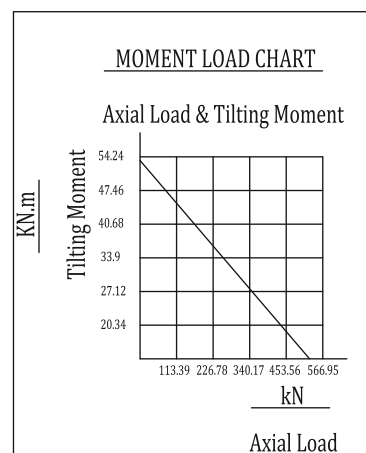
Units: mm
1 inch=25.4mm

Technical Data

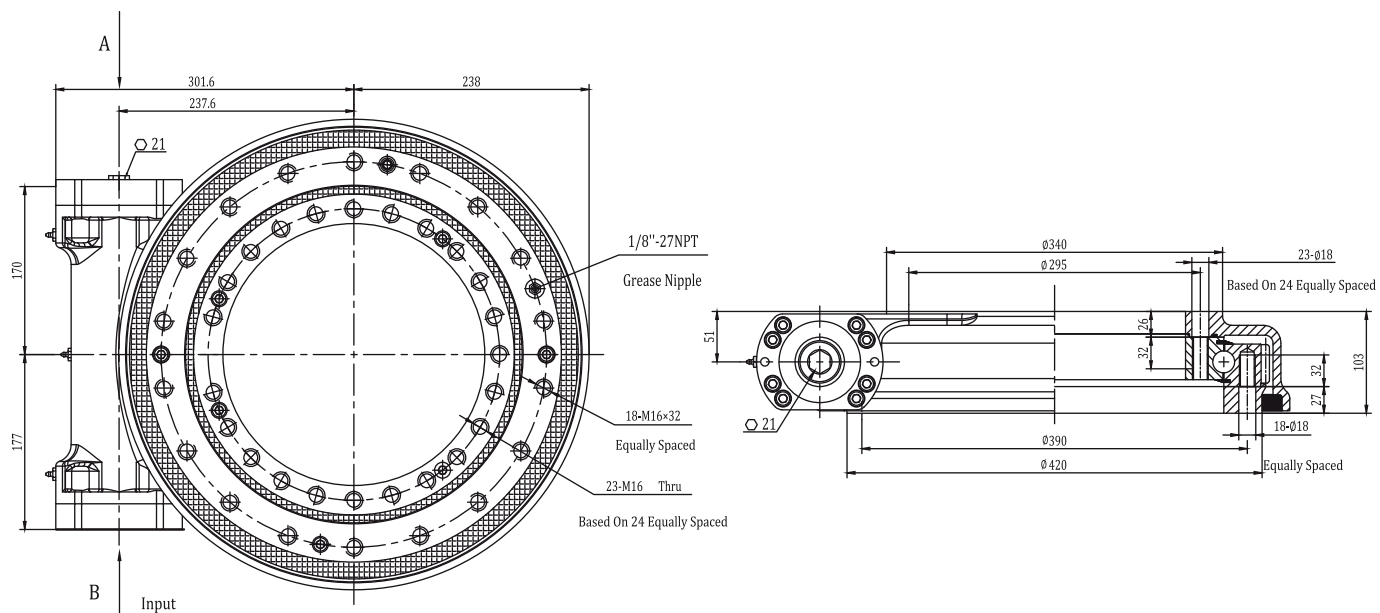


SC12 Slewing Drive Performance Parameters

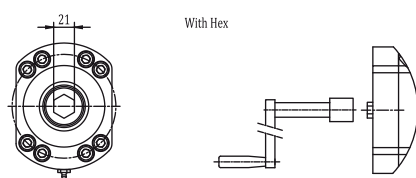
Gear Ratio	78:1	
Output Torque (max.)	15.6 kN.m	11.5×10 ³ lbf.ft
Tilting Moment (max.)	54.3 kN.m	40×10 ³ lbf.ft
Holding Torque	43 kN.m	31.7×10 ³ lbf.ft
Static Axial Load Rating	475 kN	106.8×10 ³ lbf
Static Radial Load Rating	190 kN	42.7×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	



Dimensions

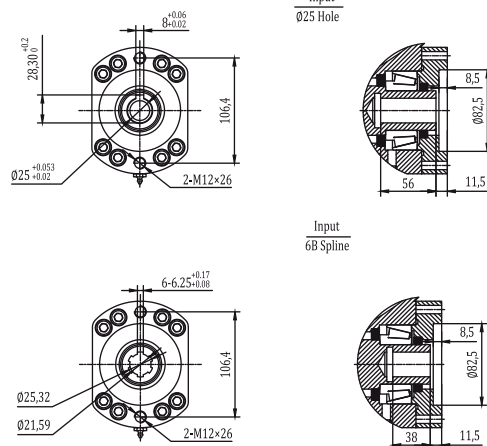


/A View



With Hex

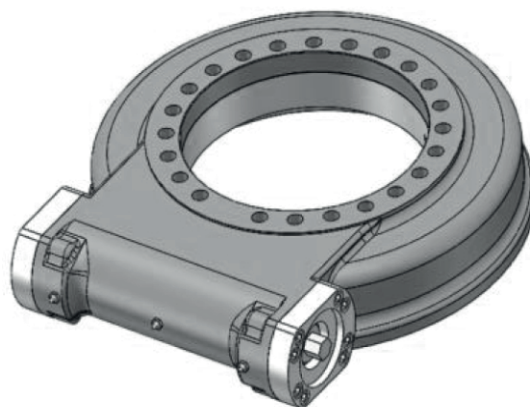
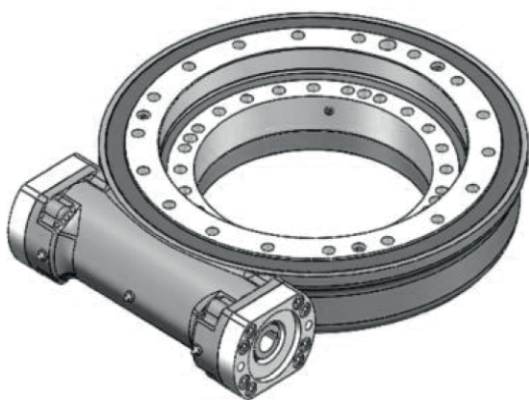
/B View



65 kg

Units: mm
1 inch=25.4mm

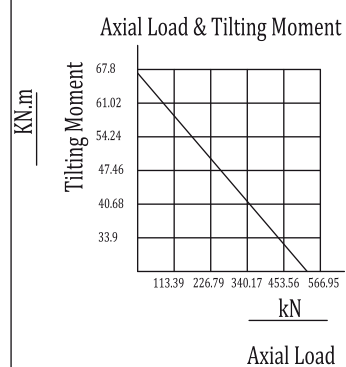
Technical Data



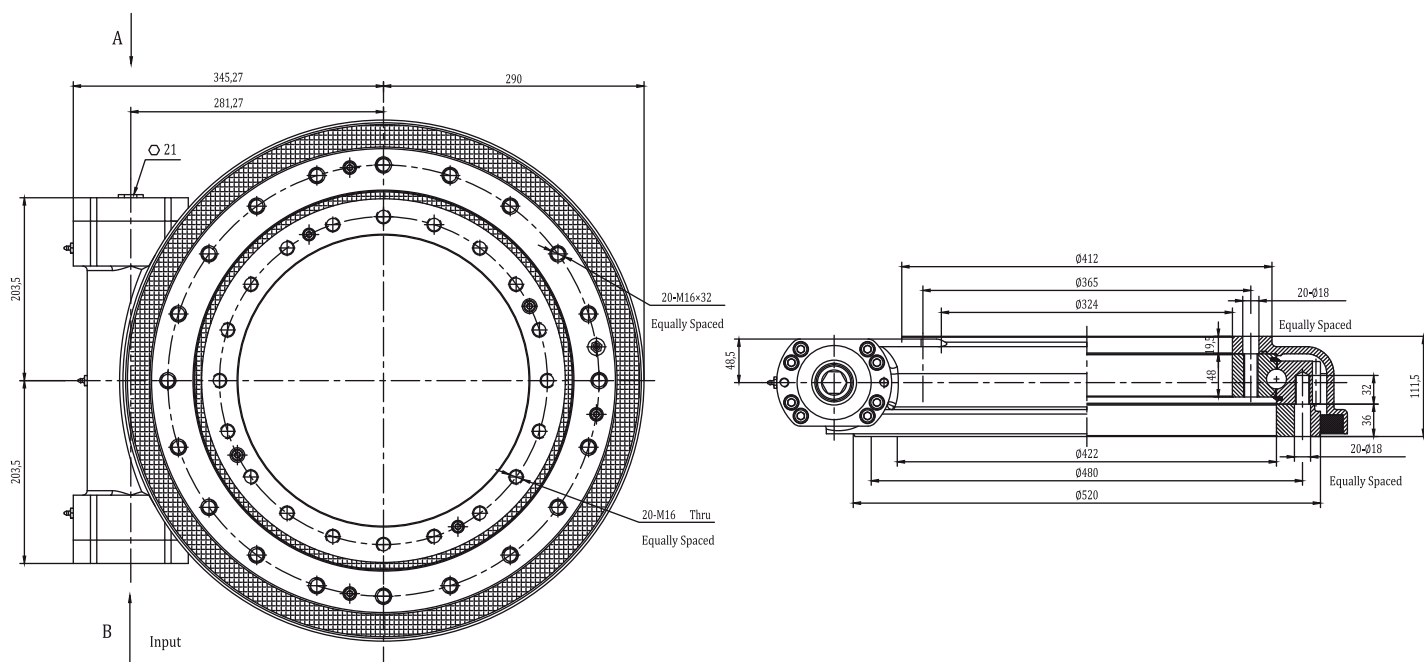
SC14 Slewing Drive Performance Parameters

Gear Ratio	85:1	
Output Torque (max.)	17 kN.m	12.5×10 ³ lbf.ft
Tilting Moment (max.)	67.8 kN.m	50×10 ³ lbf.ft
Holding Torque	48 kN.m	42×10 ³ lbf.ft
Static Axial Load Rating	555 kN	124.9×10 ³ lbf
Static Radial Load Rating	222 kN	49.9×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

MOMENT LOAD CHART

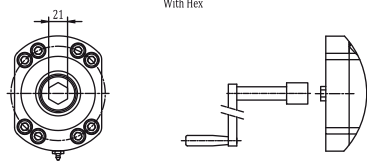


Dimensions



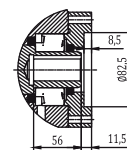
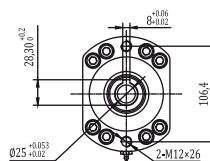
/A View

With Hex

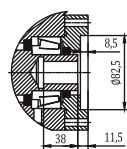
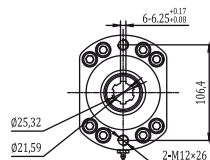


/B View

Input
Ø25 Hole

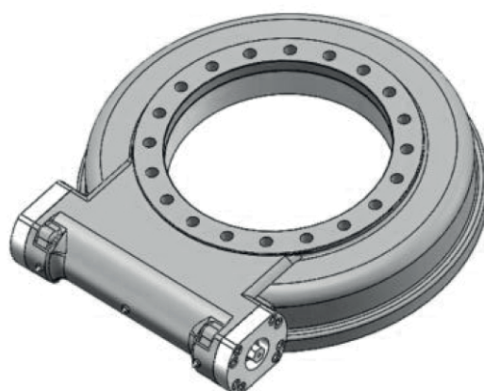
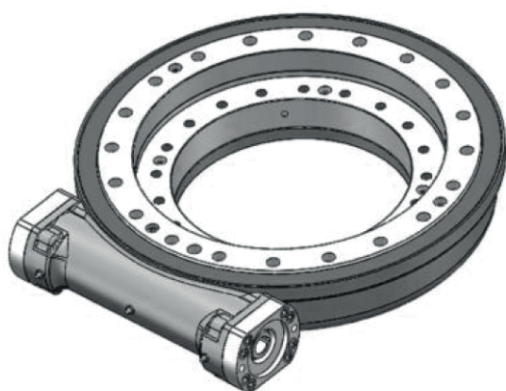


Input
68 Spline



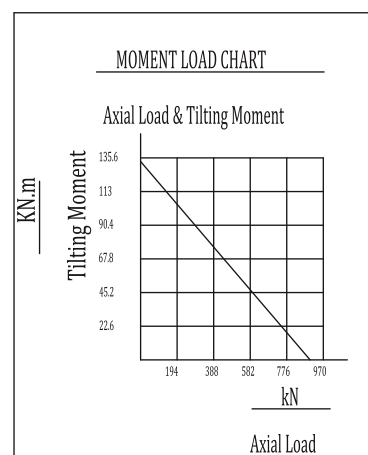
Units: mm
1 inch=25.4mm

Technical Data

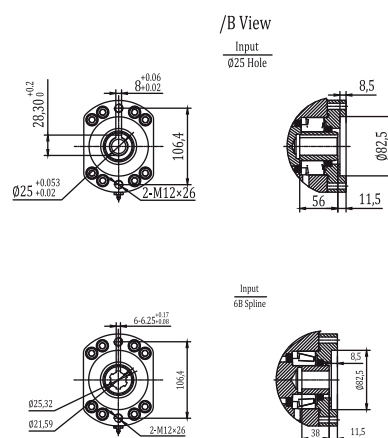
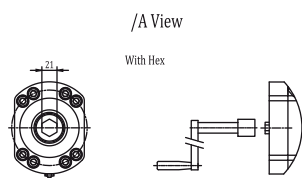
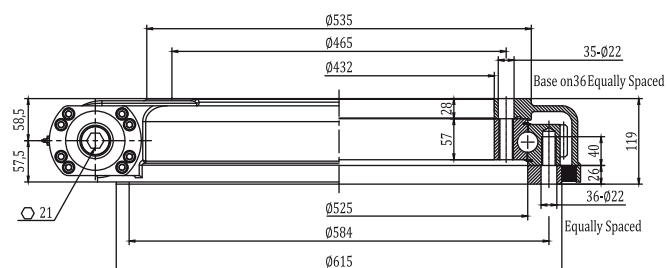
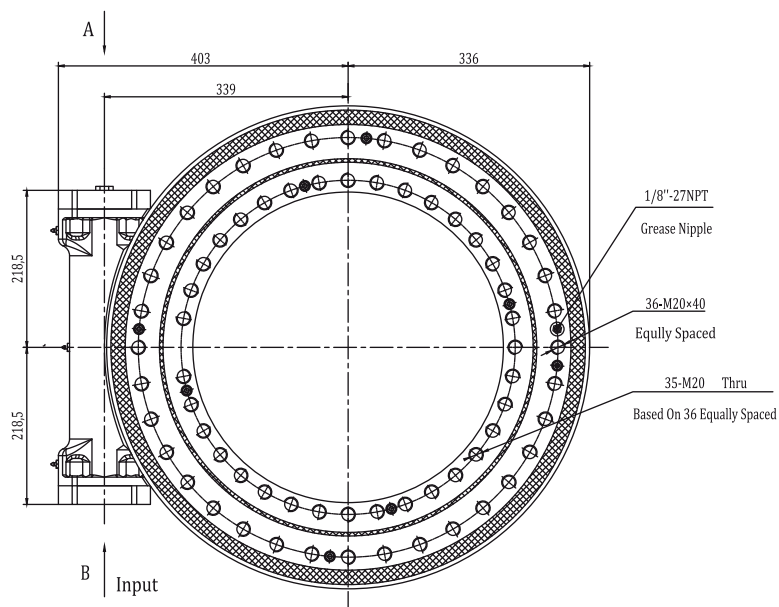


SC17 Slewing Drive Performance Parameters

Gear Ratio	102:1	
Output Torque (max.)	20.4 kN.m	15.1×10 ³ lbf.ft
Tilting Moment (max.)	135.6 kN.m	100×10 ³ lbf.ft
Holding Torque	72.3 kN.m	53×10 ³ lbf.ft
Static Axial Load Rating	970 kN	218×10 ³ lbf
Static Radial Load Rating	390 kN	88×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

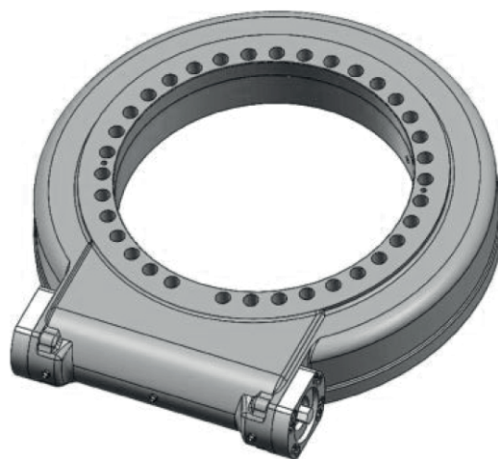
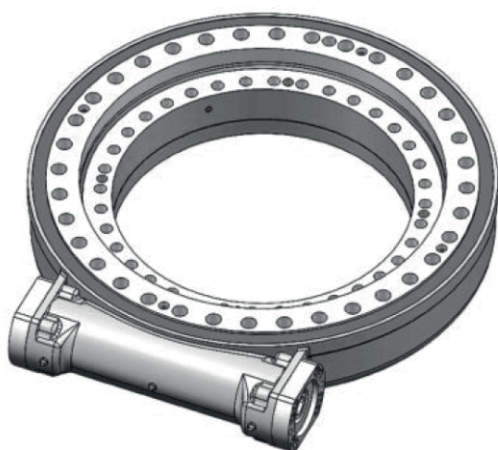


Dimensions



Units: mm
1 inch=25.4mm

Technical Data

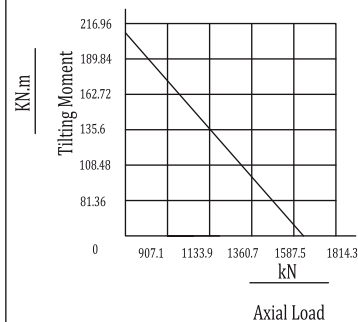


SC21 Slewing Drive Performance Parameters

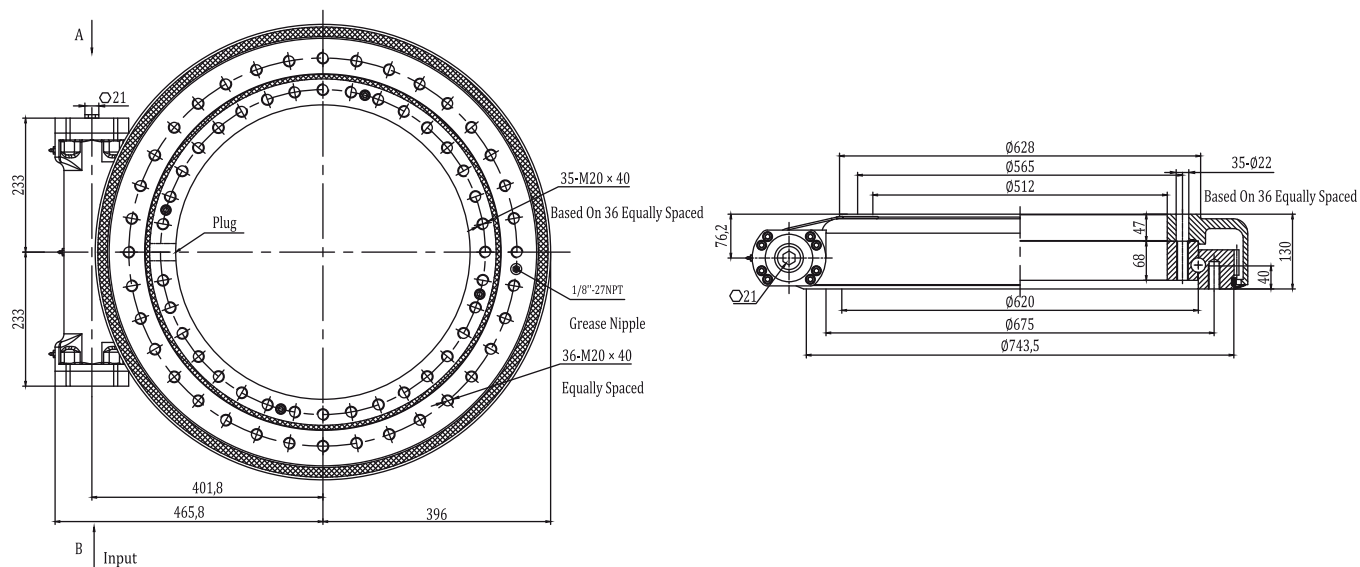
Gear Ratio	125:1	
Output Torque (max.)	25 kN.m	18.5×10 ³ lbf.ft
Tilting Moment (max.)	203 kN.m	149.7×10 ³ lbf.ft
Holding Torque	105.8 kN.m	78×10 ³ lbf.ft
Static Axial Load Rating	1598 kN	359.6×10 ³ lbf
Static Radial Load Rating	640 kN	144×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

MOMENT LOAD CHART

Axial Load & Tilting Moment



Dimensions



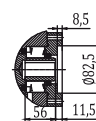
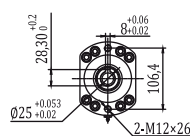
/A View

With Hex

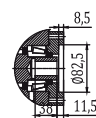
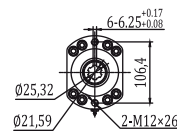


/B View

Input
Ø25 Hole

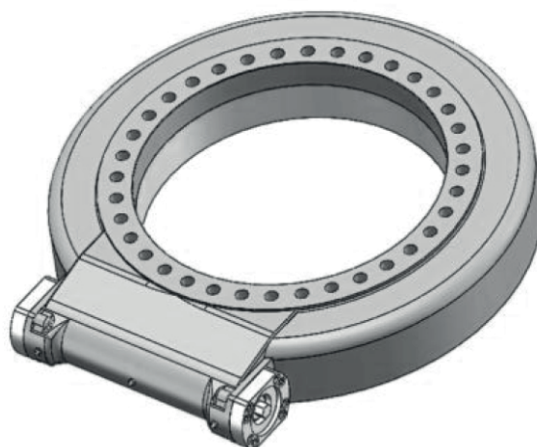
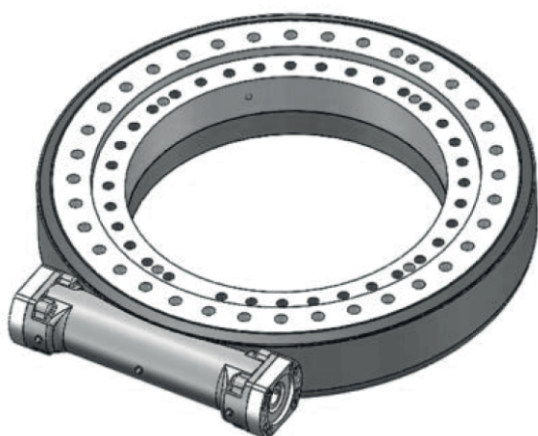


Input
6B Spline



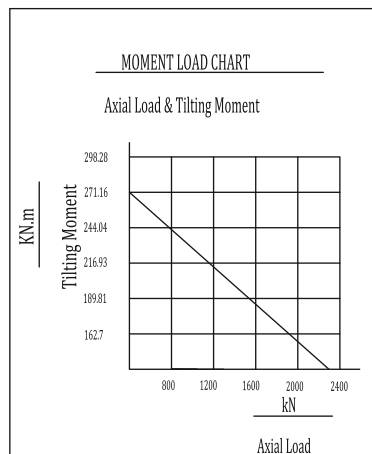
Units: mm
1 inch=25.4mm

Technical Data

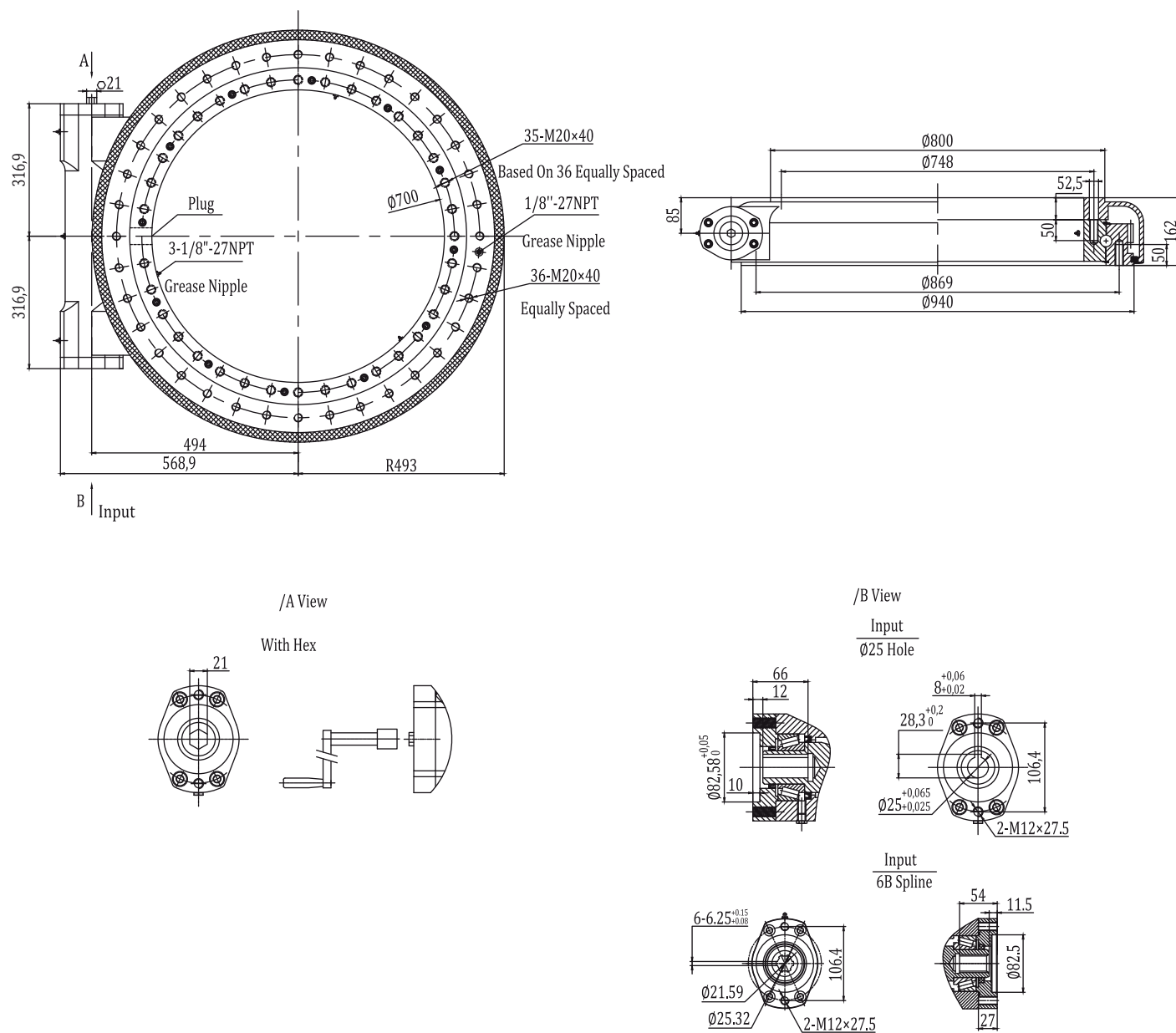


SC25 Slewing Drive Performance Parameters

Gear Ratio	150:1	
Output Torque (max.)	30 kN.m	22.1×10 ³ lbf.ft
Tilting Moment (max.)	203 kN.m	199.9×10 ³ lbf.ft
Holding Torque	158.3 kN.m	116.8×10 ³ lbf.ft
Static Axial Load Rating	2360 kN	531×10 ³ lbf
Static Radial Load Rating	945 kN	212.6×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	



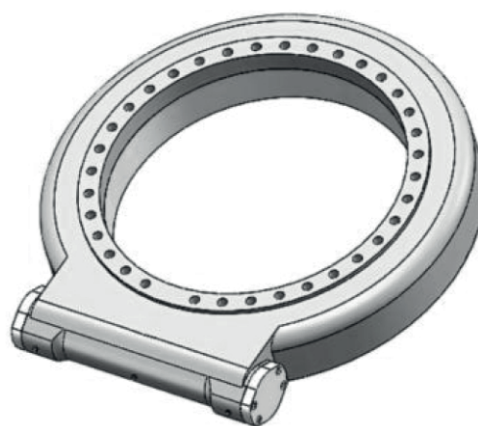
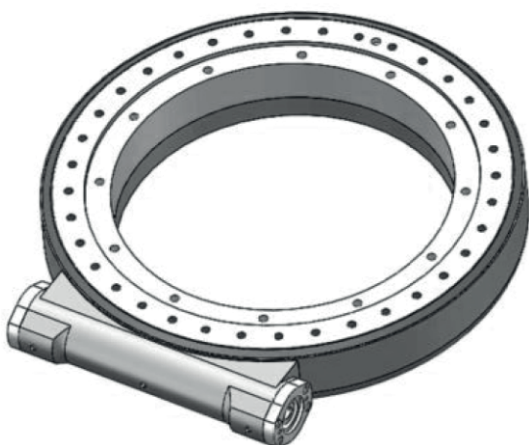
Dimensions



240 kg

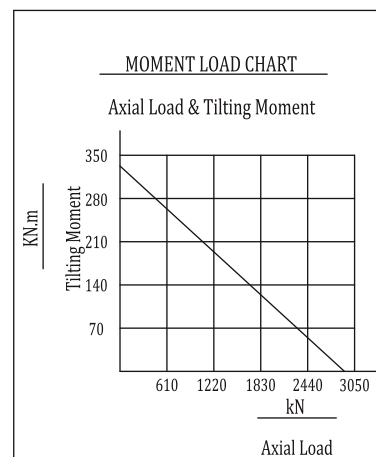
Units: mm
1 inch=25.4mm

Technical Data

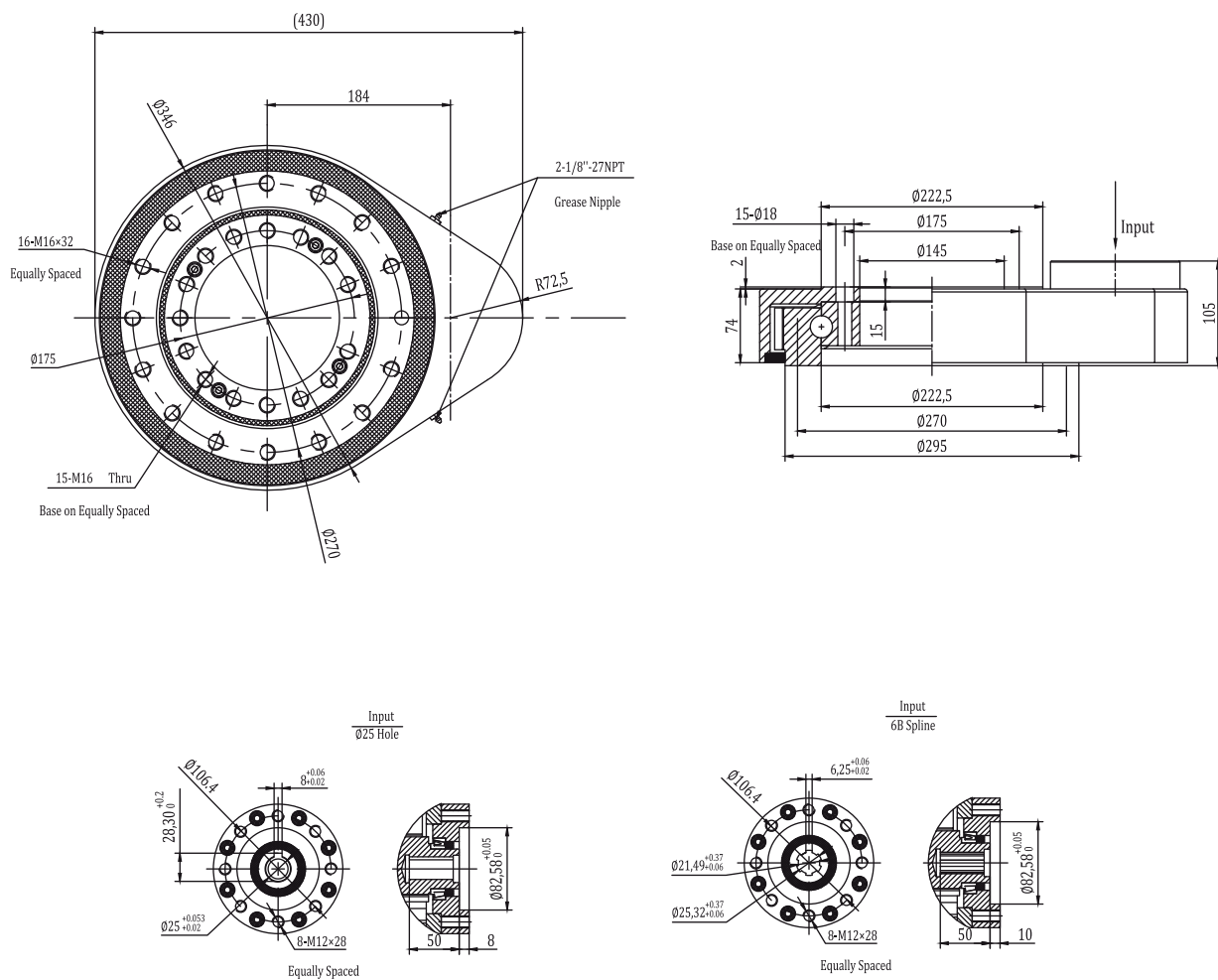


SC32 Slewing Drive Performance Parameters

Gear Ratio	154:1	
Output Torque (max.)	32 kN.m	23.6×10 ³ lbf.ft
Tilting Moment (max.)	347 kN.m	256×10 ³ lbf.ft
Holding Torque	190 kN.m	140×10 ³ lbf.ft
Static Axial Load Rating	3021 kN	680×10 ³ lbf
Static Radial Load Rating	1210 kN	272×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	



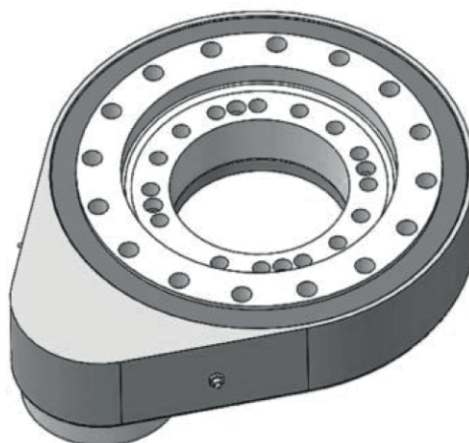
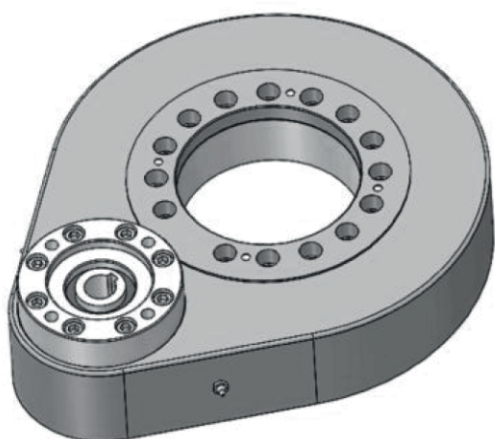
Dimensions



37kg

Units: mm
1 inch=25.4mm

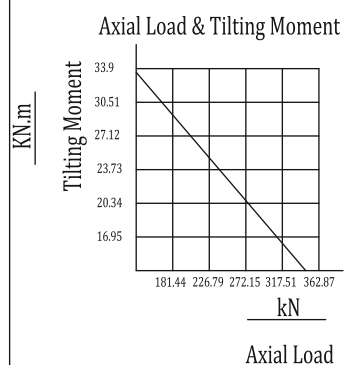
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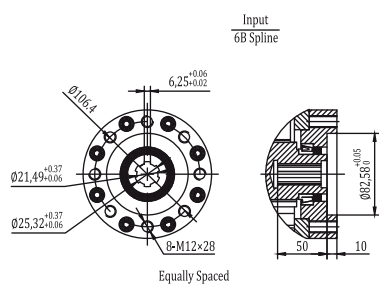
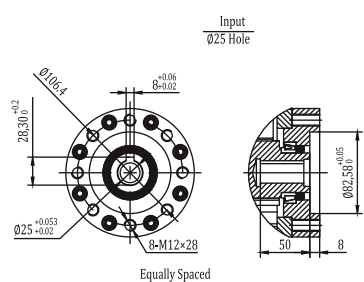
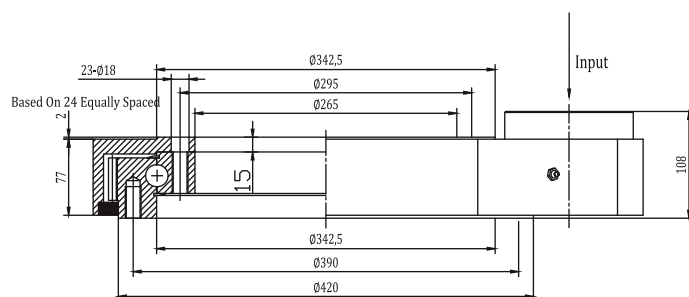
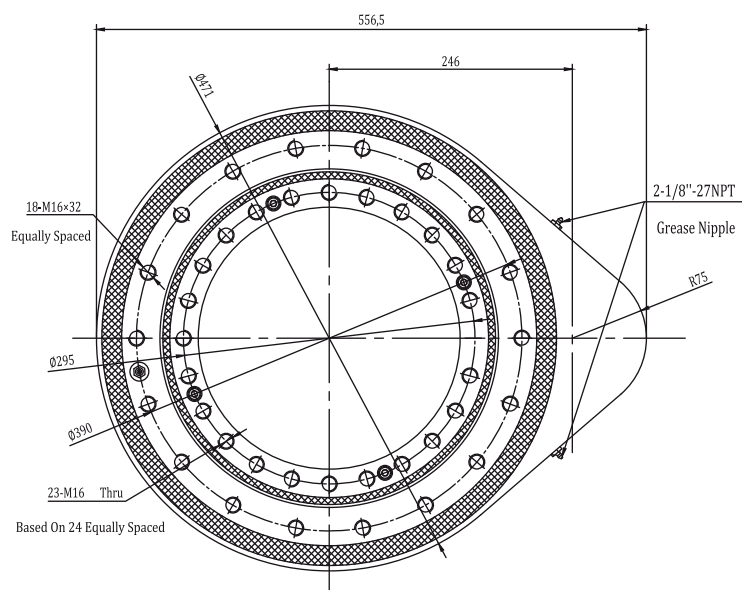
SP9 Slewing Drive Performance Parameters

Gear Ratio	5:1	
Output Torque (max.)	3 kN.m	.2×10 ³ lbf.ft
Tilting Moment (max.)	33.9 kN.m	25×10 ³ lbf.ft
Static Axial Load Rating	338 kN	76.1×10 ³ lbf
Static Radial Load Rating	135 kN	30.4×10 ³ lbf
Mechanical Efficiency	85%~95%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

MOMENT LOAD CHART



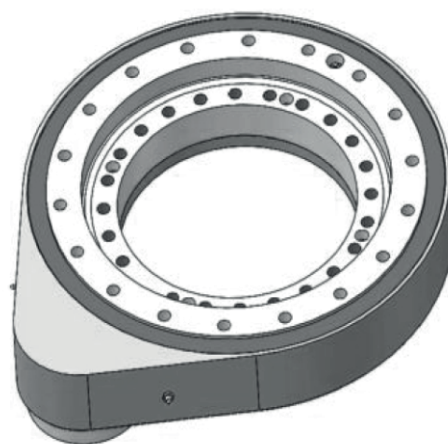
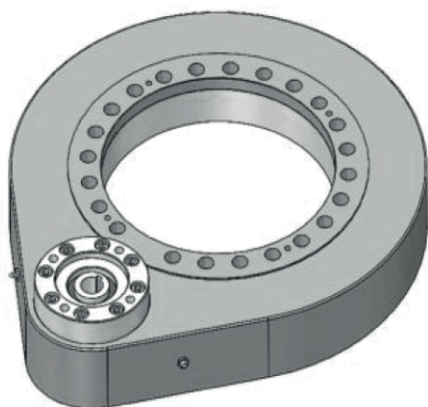
Dimensions



56 kg

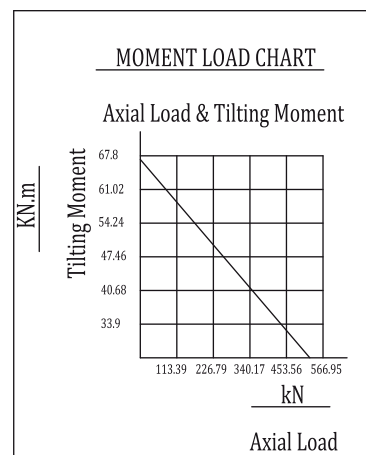
Units: mm
1 inch=25.4mm

Technical Data

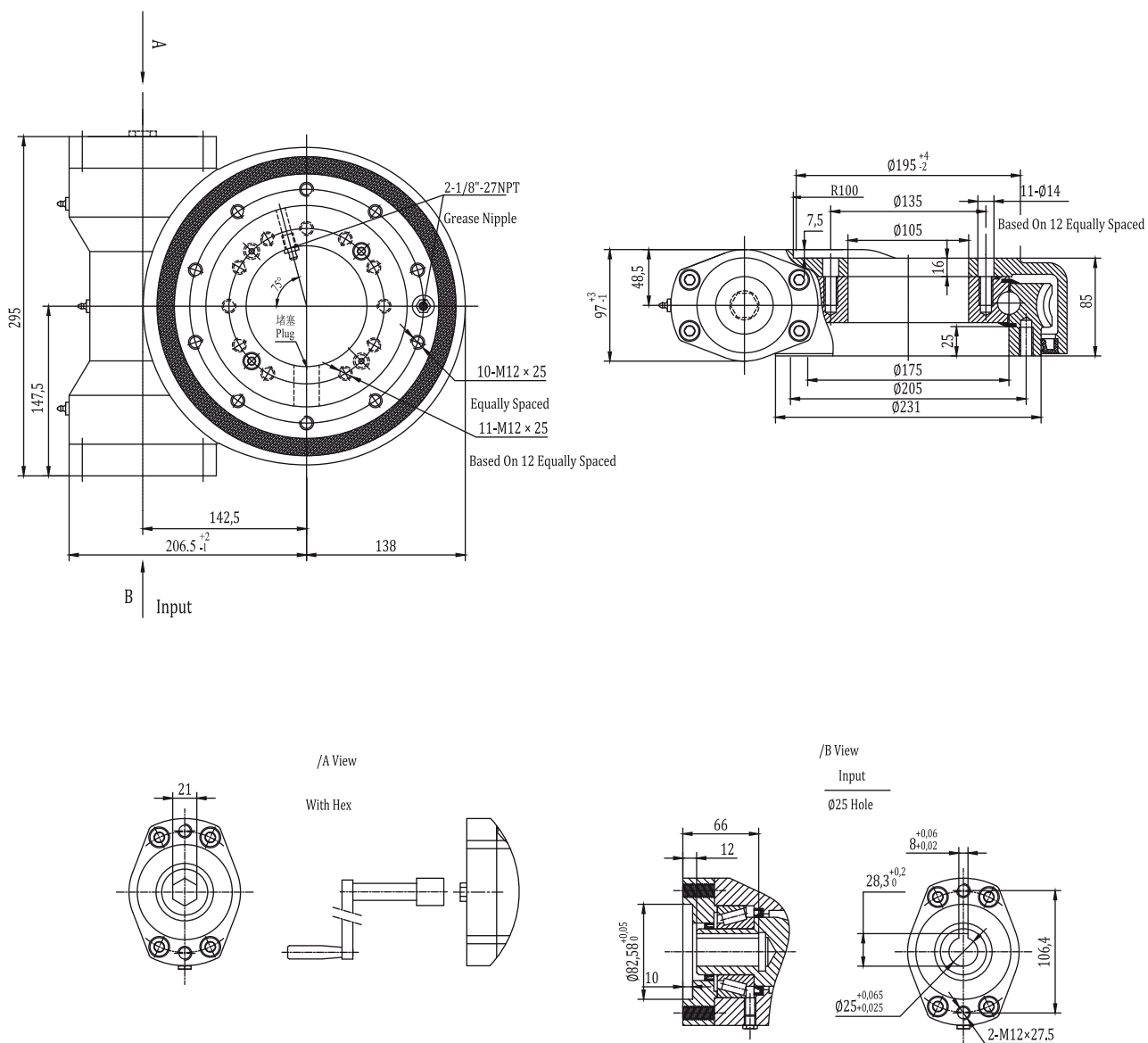


SP14 Slewing Drive Performance Parameters

Gear Ratio	7.2:1	
Output Torque (max.)	4 kN.m	2.95×10^3 lbf.ft
Tilting Moment (max.)	67.8 kN.m	50×10^3 lbf.ft
Static Axial Load Rating	555 kN	124.9×10^3 lbf
Static Radial Load Rating	222 kN	11.9×10^3 lbf
Mechanical Efficiency	85%~95%	
Self-locking	Reliable static self-locking	
Precision	$\leq 0.2^\circ$	
IP Class	IP65	



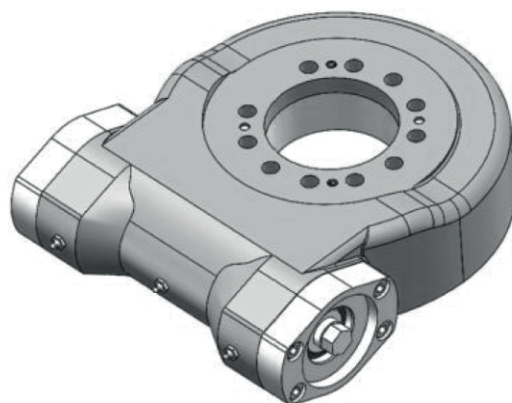
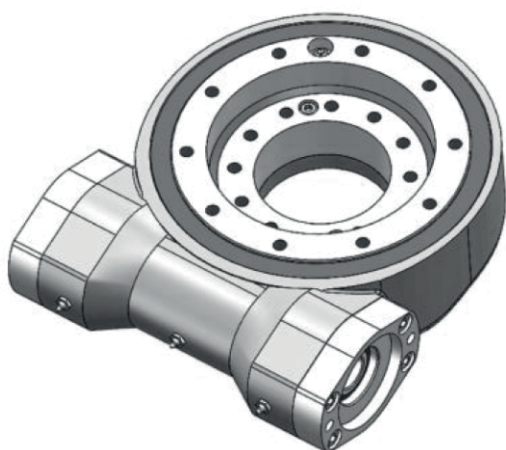
Dimensions



34kg

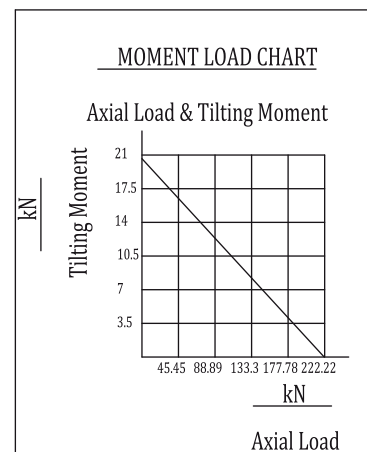
Units: mm
1 inch=25.4mm

Technical Data

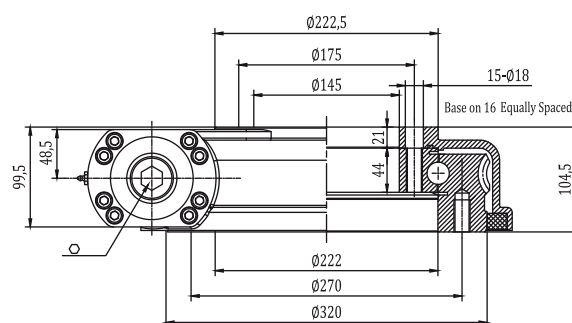
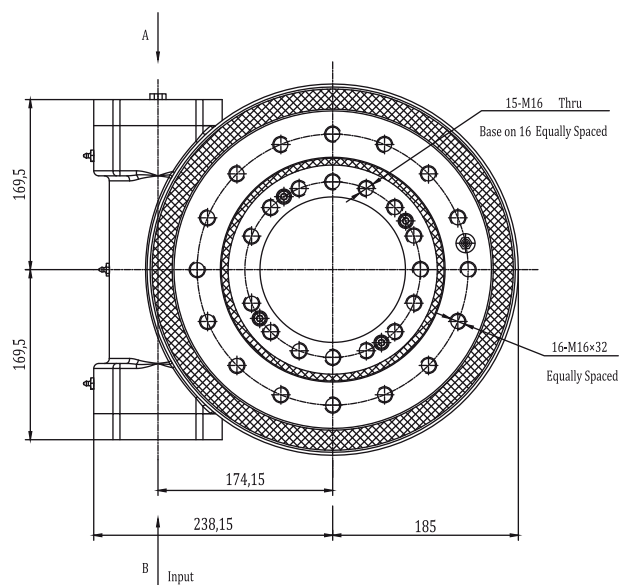


WH7 Slewing Drive Performance Parameters

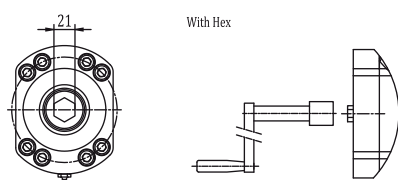
Gear Ratio	47:1	
Output Torque (max.)	11.2 kN.m	8.27×10 ³ lbf.ft
Tilting Moment (max.)	20.8 kN.m	15.35×10 ³ lbf.ft
Holding Torque	24 kN.m	17.71×10 ³ lbf.ft
Static Axial Load Rating	220 kN	49.5×10 ³ lbf
Static Radial Load Rating	90 kN	20.25×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	



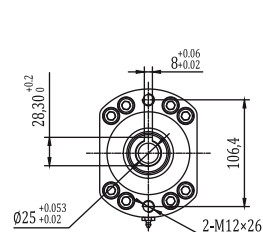
Dimensions



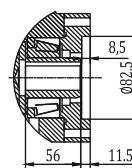
/A View



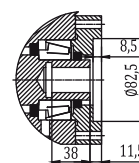
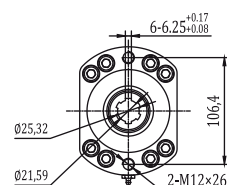
/B View



Input
Ø25 Hole

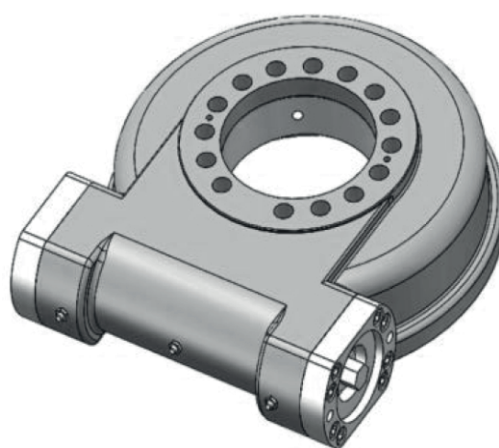
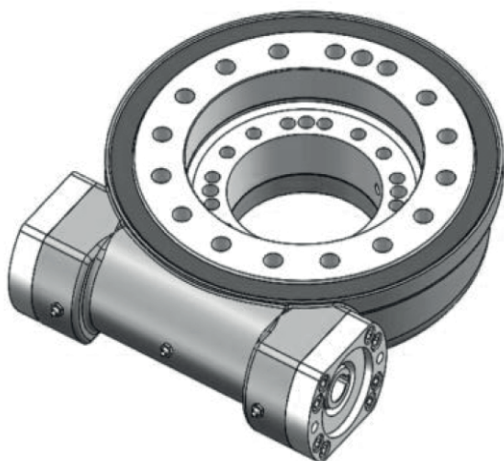


Input
6B Spline



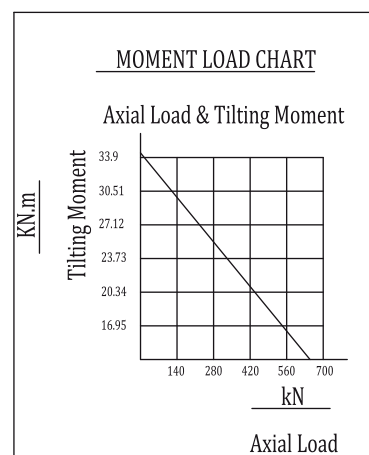
Units: mm
1 inch=25.4mm

Technical Data

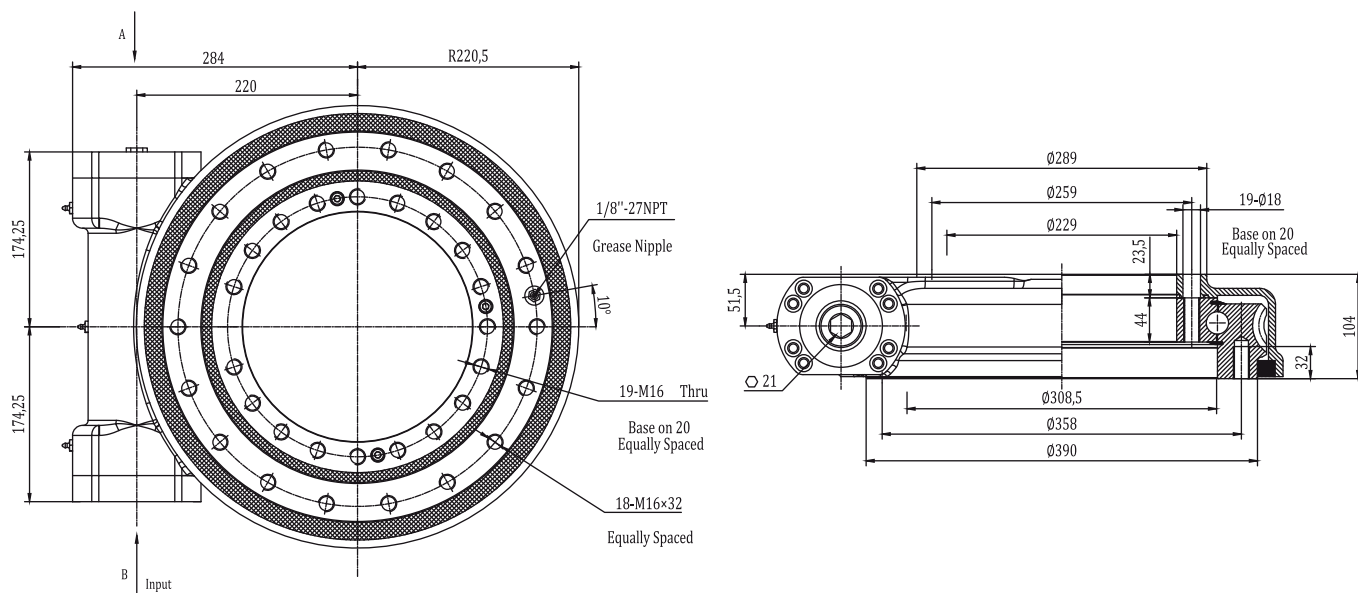


WH9 Slewing Drive Performance Parameters

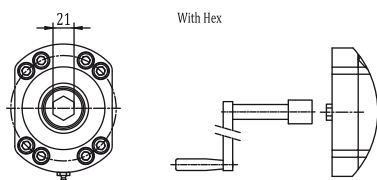
Gear Ratio	59:1	
Output Torque (max.)	14.2 kN.m	10.5×10^3 lbf.ft
Tilting Moment (max.)	41.2 kN.m	30.4×10^3 lbf.ft
Holding Torque	38.7 kN.m	28.5×10^3 lbf.ft
Static Axial Load Rating	670 kN	150.7×10^3 lbf
Static Radial Load Rating	280 kN	63×10^3 lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	$\leq 0.2^\circ$	
IP Class	IP65	



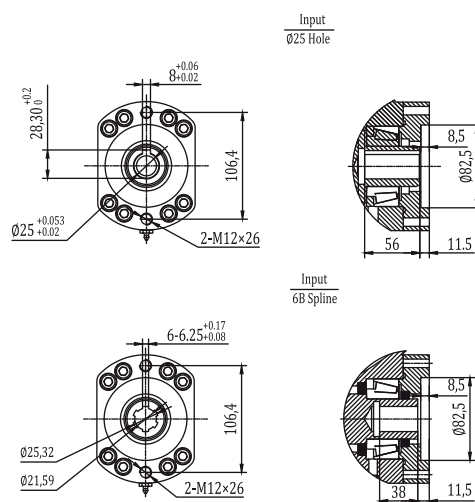
Dimensions



/A View

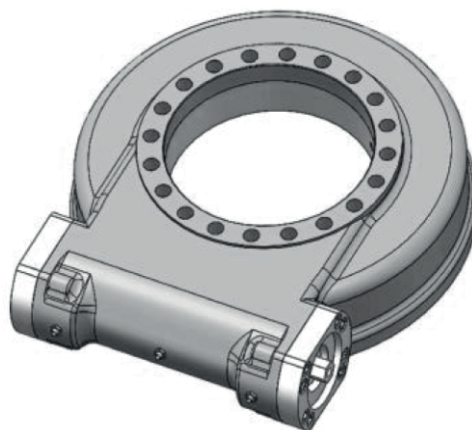
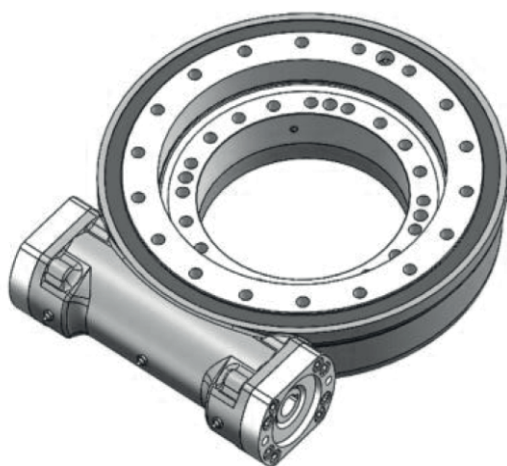


/B View



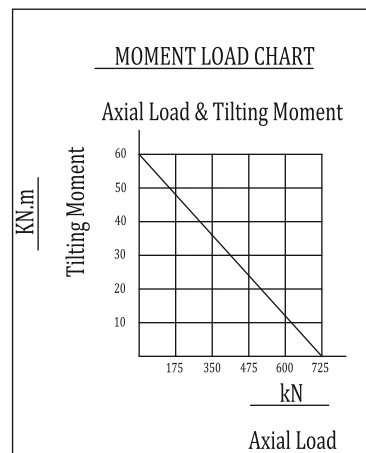
Units: mm
1 inch=25.4mm

Technical Data

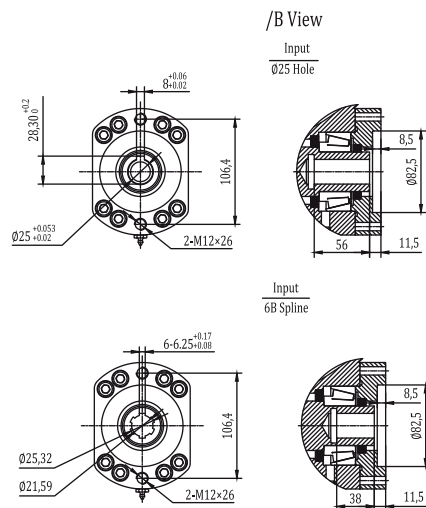
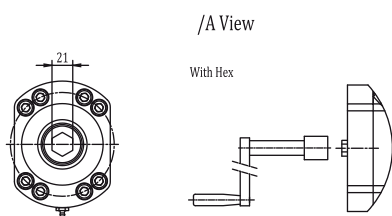
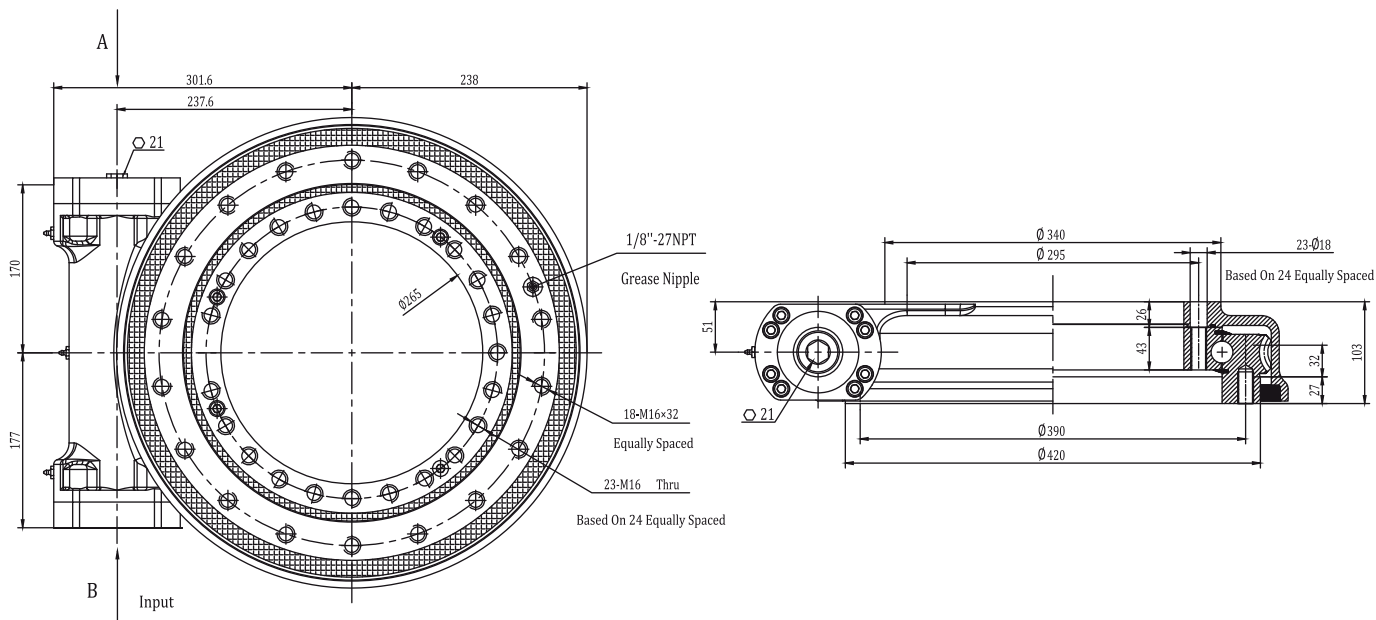


WH12 Slewing Drive Performance Parameters

Gear Ratio	77:1	
Output Torque (max.)	18.5 kN.m	13.7×10 ³ lbf.ft
Tilting Moment (max.)	60 kN.m	44. ×10 ³ lbf.ft
Holding Torque	51.2 kN.m	37.8×10 ³ lbf.ft
Static Axial Load Rating	725 kN	163.1×10 ³ lbf
Static Radial Load Rating	270 kN	60.7×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

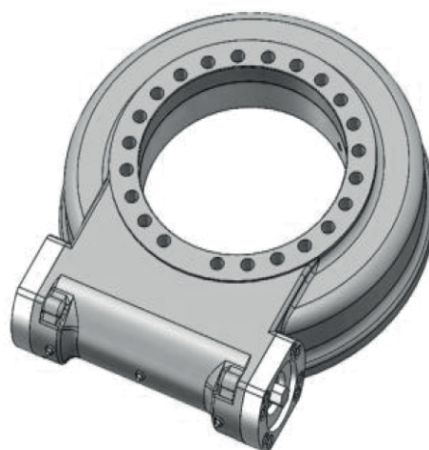
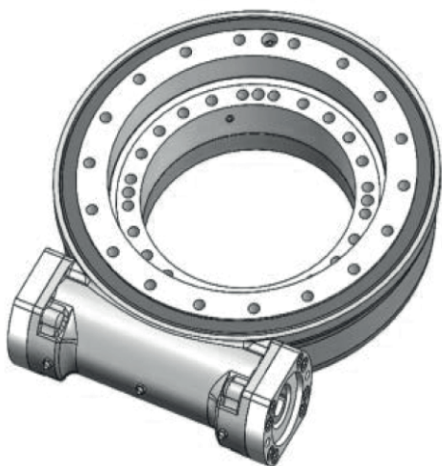


Dimensions



Units: mm
1 inch=25.4mm

Technical Data

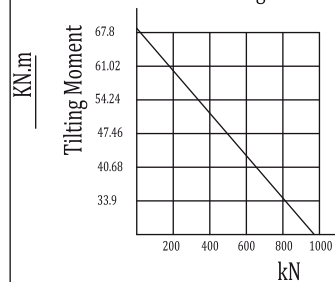


WH14 Slewing Drive Performance Parameters

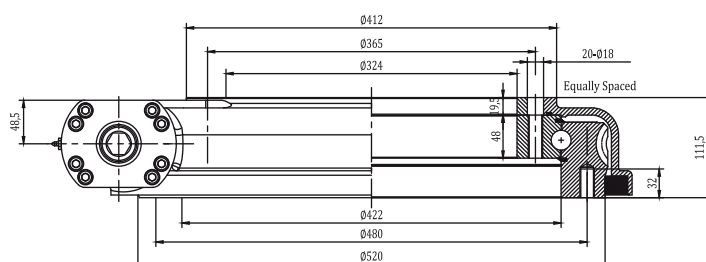
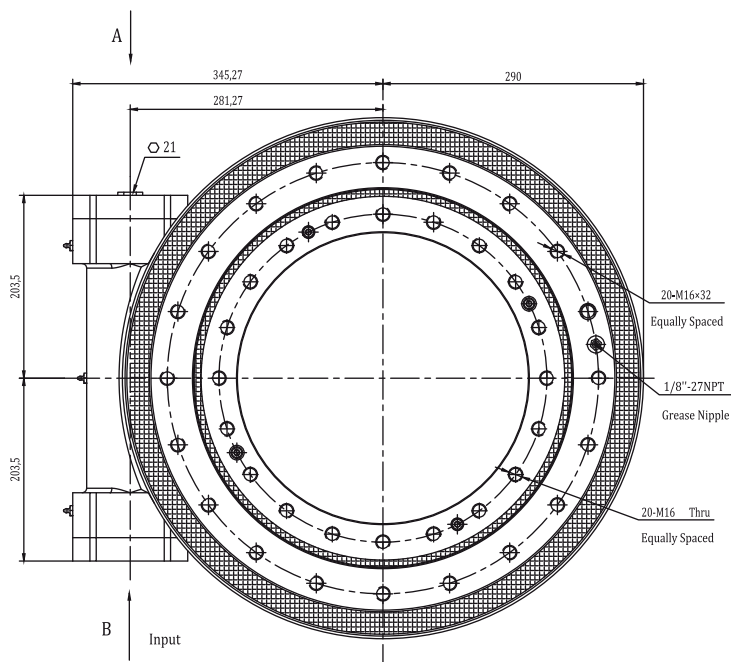
Gear Ratio	84:1	
Output Torque (max.)	20.1 kN.m	14.8×10 ³ lbf.ft
Tilting Moment (max.)	72 kN.m	53 10 ³ lbf.ft
Holding Torque	56 kN.m	41.3×10 ³ lbf.ft
Static Axial Load Rating	970 kN	218×10 ³ lbf
Static Radial Load Rating	380 kN	85.5×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

MOMENT LOAD CHART

Axial Load & Tilting Moment

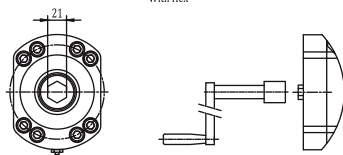


Dimensions



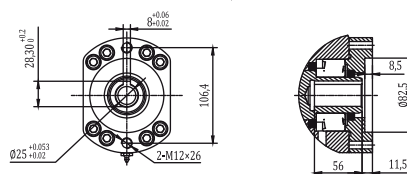
/A View

With Hex

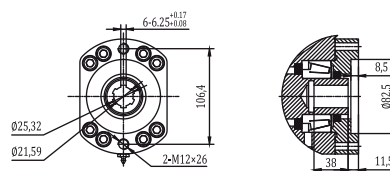


/B View

Input
 $\varnothing 25$ Hole



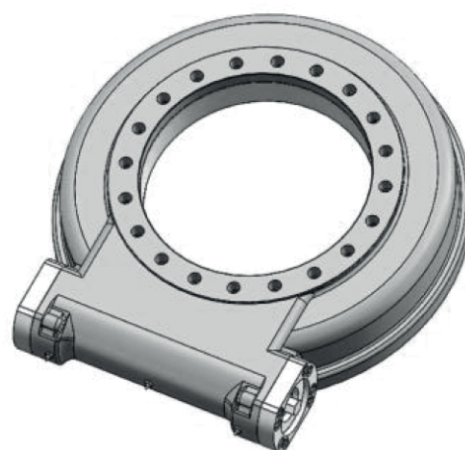
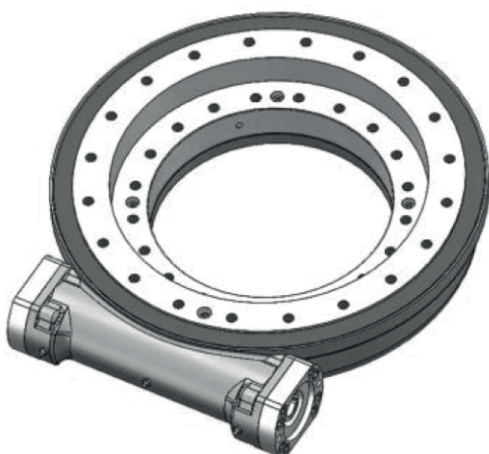
Input
6B Spline



98 kg

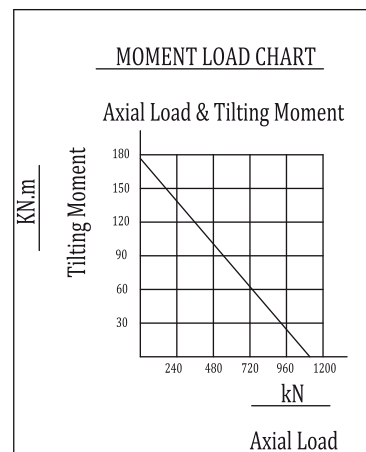
Units: mm
1 inch=25.4mm

Technical Data

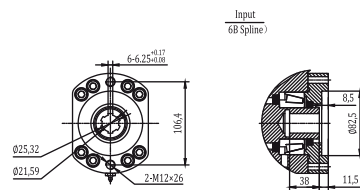
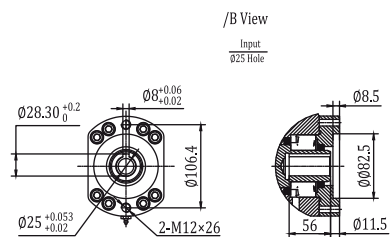
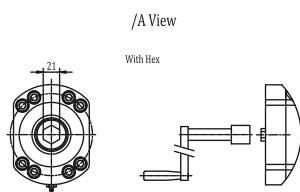
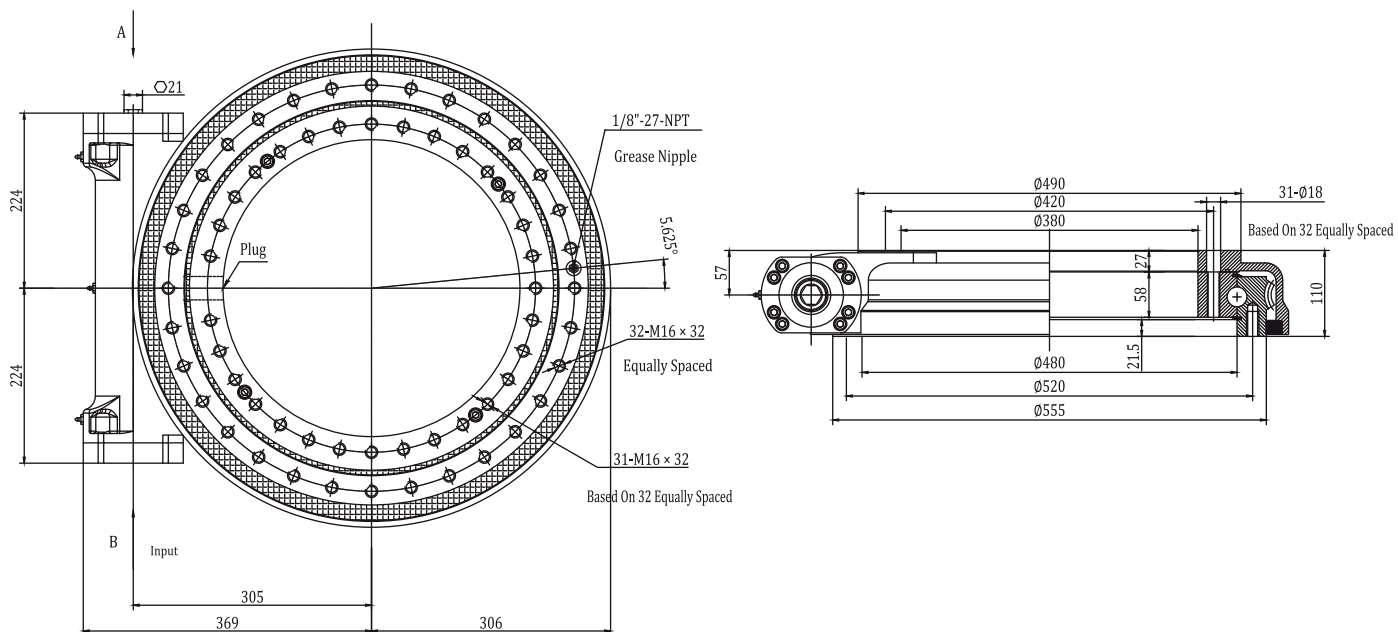


WH17 Slewing Drive Performance Parameters

Gear Ratio	102:1	
Output Torque (max.)	26.5 kN.m	19.6×10 ³ lbf.ft
Tilting Moment (max.)	178.3 kN.m	132×10 ³ lbf.ft
Holding Torque	88.2 kN.m	65.1×10 ³ lbf.ft
Static Axial Load Rating	1130 kN	254.2×10 ³ lbf
Static Radial Load Rating	452 kN	101.7×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

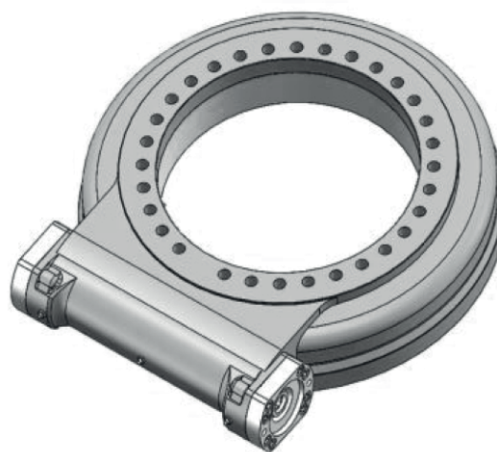
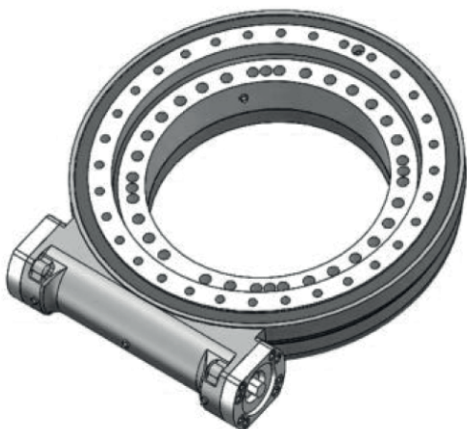


Dimensions



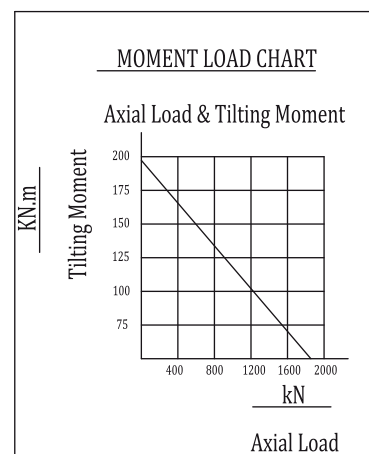
Units: mm
1 inch=25.4mm

Technical Data

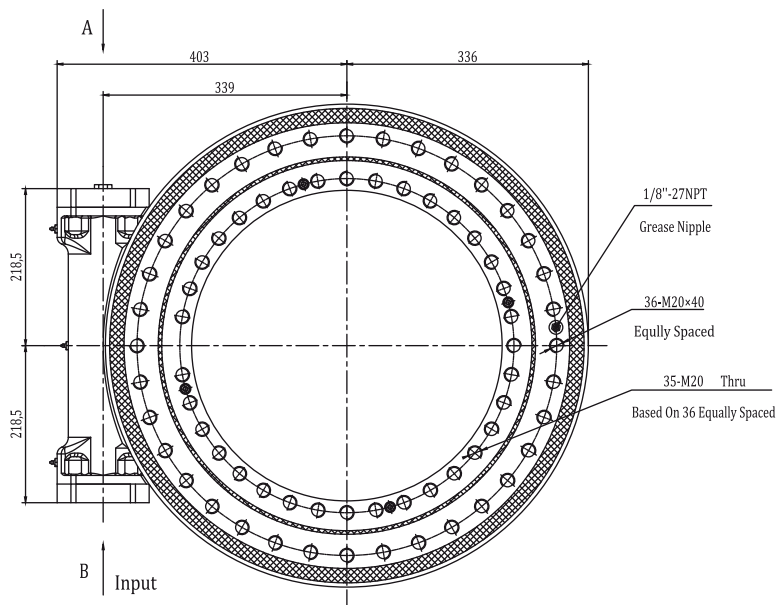


WH19 Slewing Drive Performance Parameters

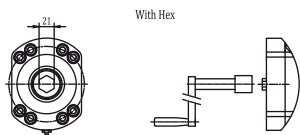
Gear Ratio	92:1	
Output Torque (max.)	28 kN.m	20.7×10 ³ lbf.ft
Tilting Moment (max.)	196 kN.m	144.5×10 ³ lbf.ft
Holding Torque	80.1 kN.m	59.1×10 ³ lbf.ft
Static Axial Load Rating	1800 kN	404.6×10 ³ lbf
Static Radial Load Rating	675 kN	151.7×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	



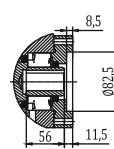
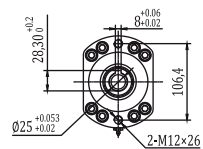
Dimensions



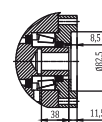
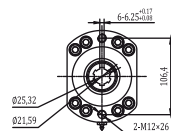
/A View



/B View



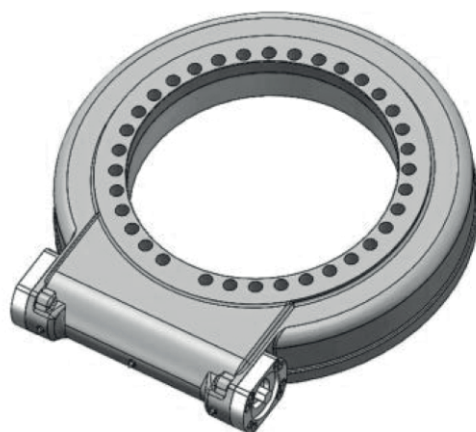
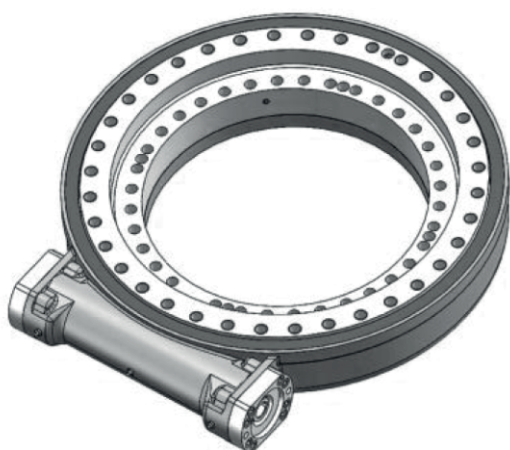
Input
68 Spline



120 kg

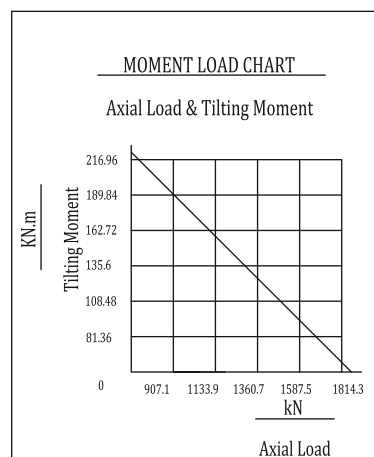
Units: mm
1 inch=25.4mm

Technical Data

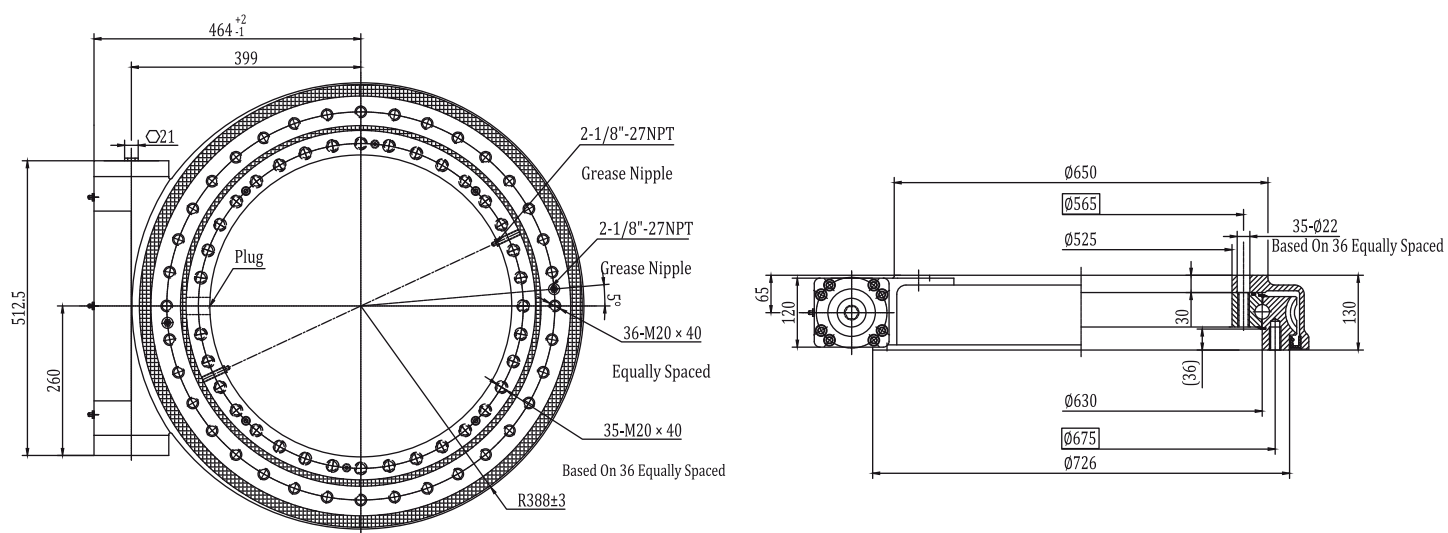


WH21 Slewing Drive Performance Parameters

Gear Ratio	125:1	
Output Torque (max.)	30 kN.m	22.1×10 ³ lbf.ft
Tilting Moment (max.)	223 kN.m	164.6×10 ³ lbf.ft
Holding Torque	140 kN.m	103.3×10 ³ lbf.ft
Static Axial Load Rating	1917 kN	431.3×10 ³ lbf
Static Radial Load Rating	768 kN	172.8×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

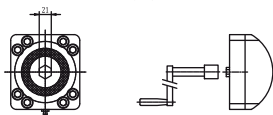


Dimensions



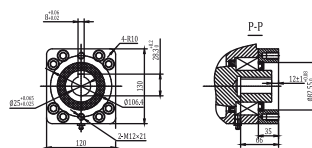
/A View

With Hex

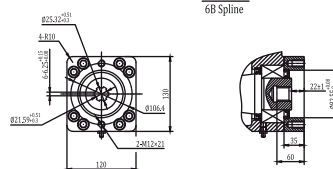


/B View

Input
 $\varnothing 25$ Hole



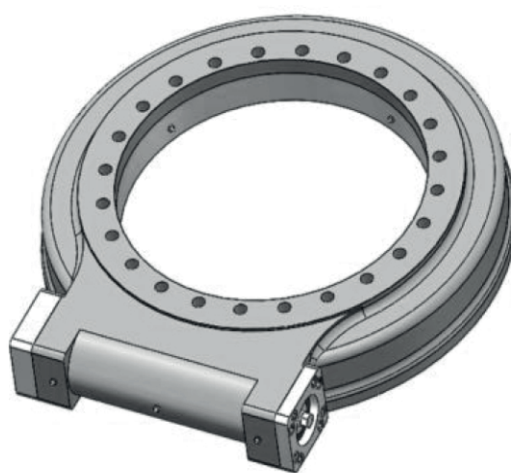
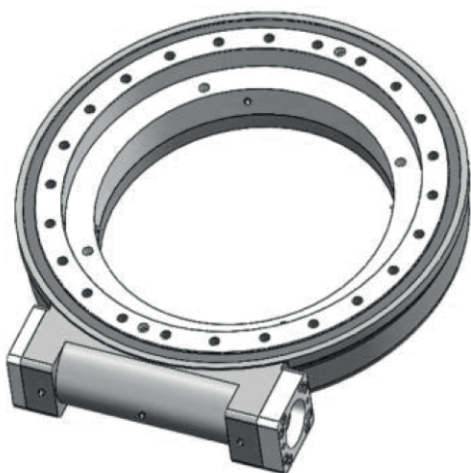
Input
6B Spline



210 kg

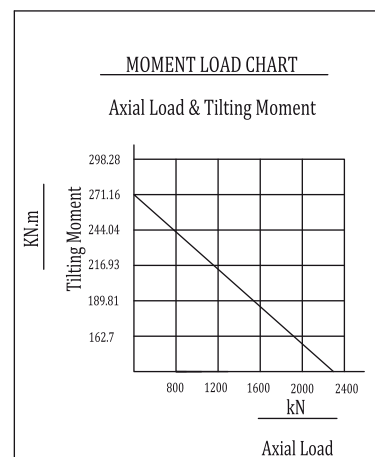
Units: mm
1 inch=25.4mm

Technical Data

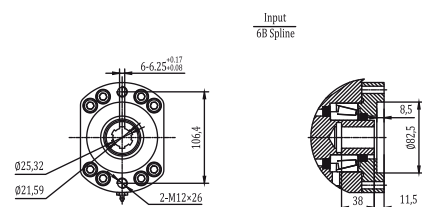
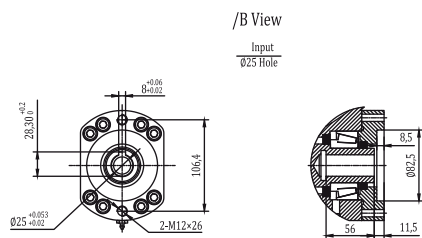
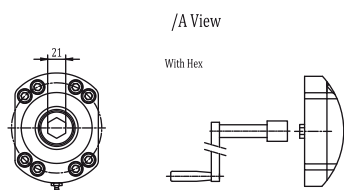
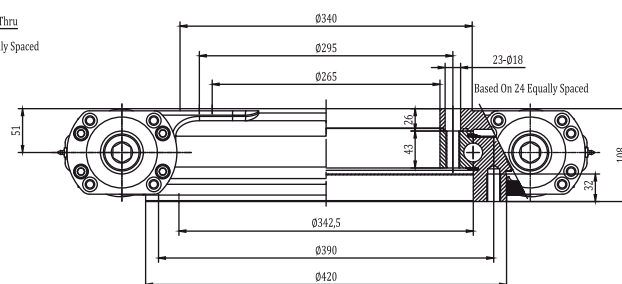


WH25 Slewing Drive Performance Parameters

Gear Ratio	104:1	
Output Torque (max.)	32 kN.m	23.6×10 ³ lbf.ft
Tilting Moment (max.)	286 kN.m	221.4×10 ³ lbf.ft
Holding Torque	224.7 kN.m	165.8×10 ³ lbf.ft
Static Axial Load Rating	2680 kN	603×10 ³ lbf
Static Radial Load Rating	1120 kN	252×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

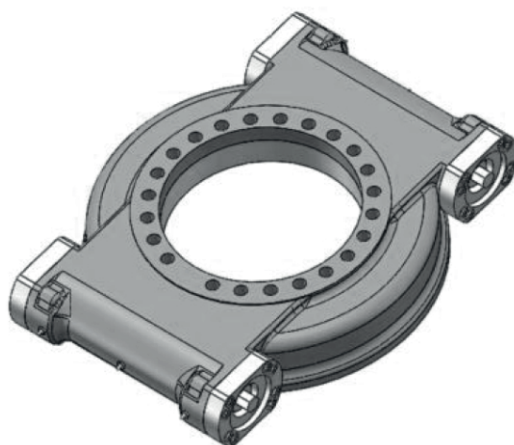
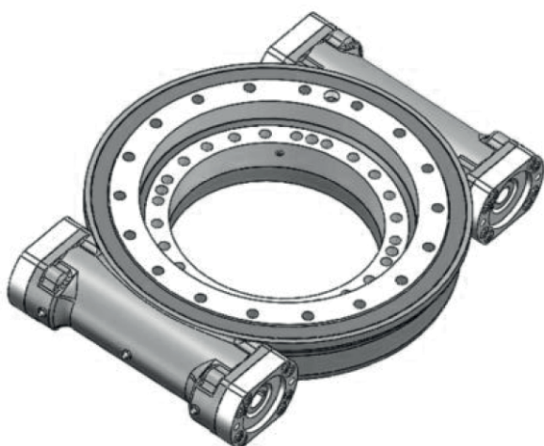


Technical drawing of the front view of a circular mechanical component, likely a bearing housing or flange. The drawing shows a circular assembly with a central bore. Key dimensions include a total width of 301.59, a central bore diameter of Ø476, and a thickness of 177. The assembly is mounted on a base with four support points. A grease nipple is located at the bottom center. The drawing is labeled with 'A' at the top and 'B' at the bottom, indicating input/output directions. A note indicates '23-M16 Thru Based On 24 Equally Spaced' for the mounting holes. A detail view '21' is shown on the left side.



Units: mm
1 inch=25.4mm

Technical Data

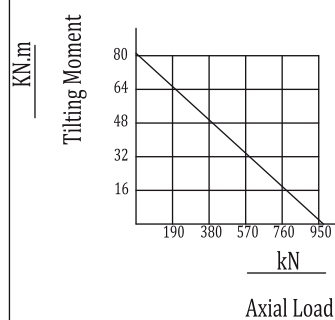


WH14-2 Slewing Drive Performance Parameters

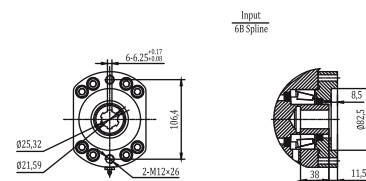
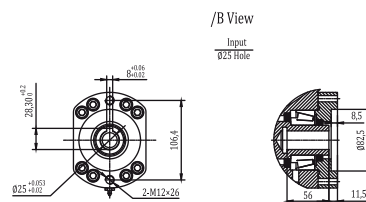
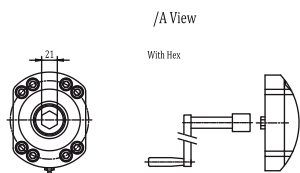
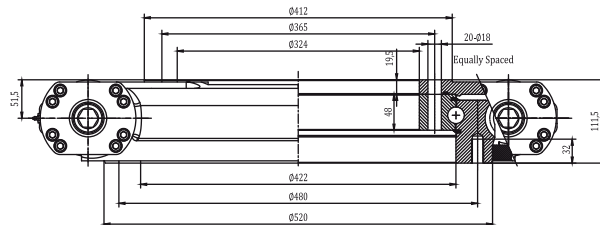
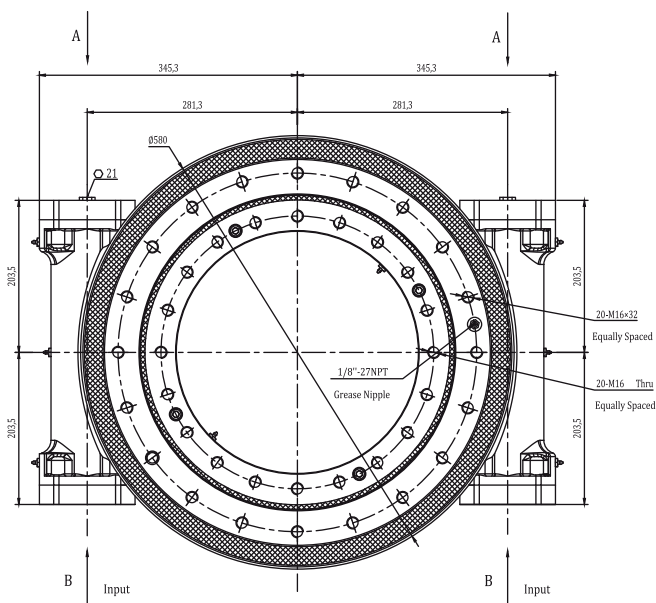
Gear Ratio	84:1	
Output Torque (max.)	26.9 kN.m	19.9×10 ³ lbf.ft
Tilting Moment (max.)	81 kN.m	59.7×10 ³ lbf.ft
Holding Torque	102 kN.m	75.2×10 ³ lbf.ft
Static Axial Load Rating	970 kN	218×10 ³ lbf
Static Radial Load Rating	380 kN	85.5×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

MOMENT LOAD CHART

Axial Load & Tilting Moment

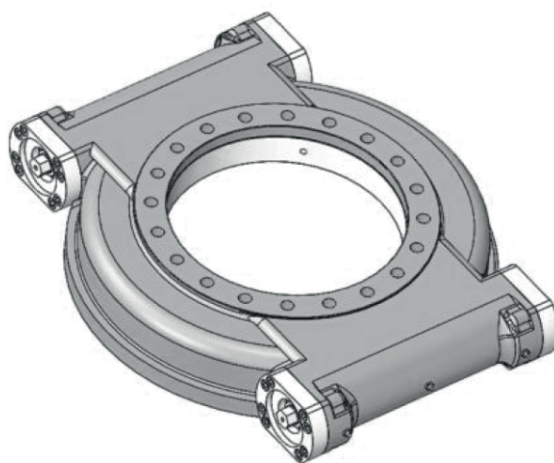
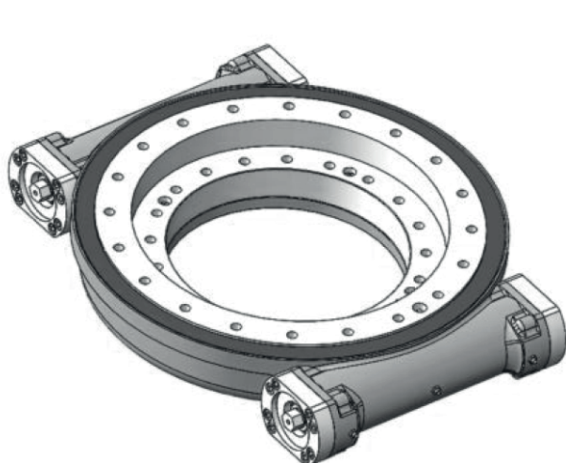


Dimensions



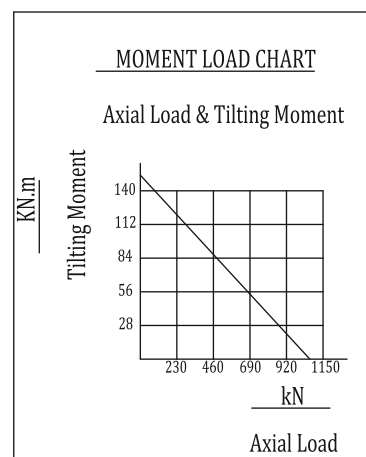
Units: mm
1 inch=25.4mm

Technical Data

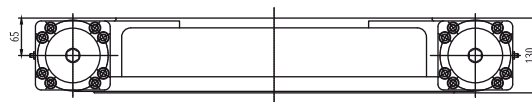
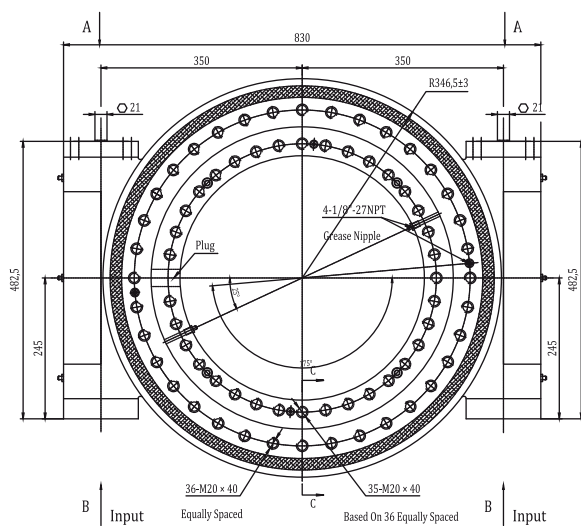


WH17-2 Slewing Drive Performance Parameters

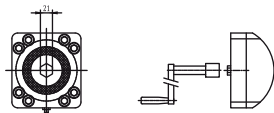
Gear Ratio	102:1	
Output Torque (max.)	32.6 kN.m	24.1×10 ³ lbf.ft
Tilting Moment (max.)	160 kN.m	118×10 ³ lbf.ft
Holding Torque	152 kN.m	112.2×10 ³ lbf.ft
Static Axial Load Rating	1110 kN	249.8×10 ³ lbf
Static Radial Load Rating	414 kN	93.2×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	



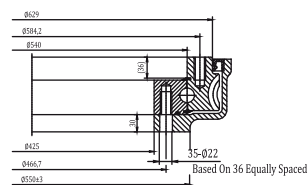
Dimensions



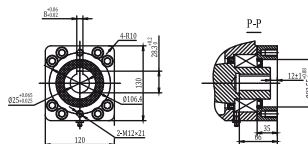
/A View
With Hex



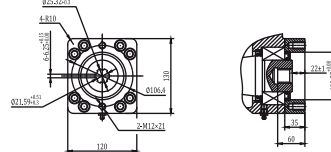
C - C



/B View
Input
 $\phi 25$ Hole

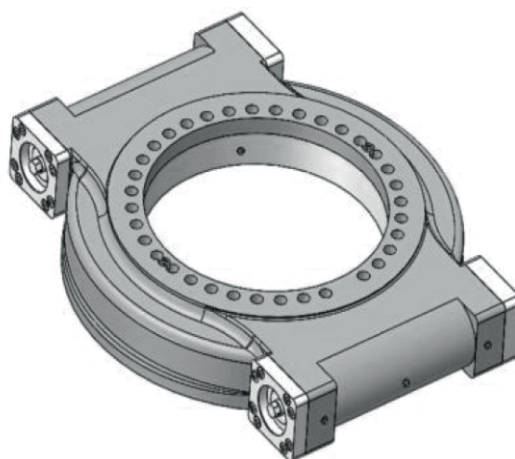
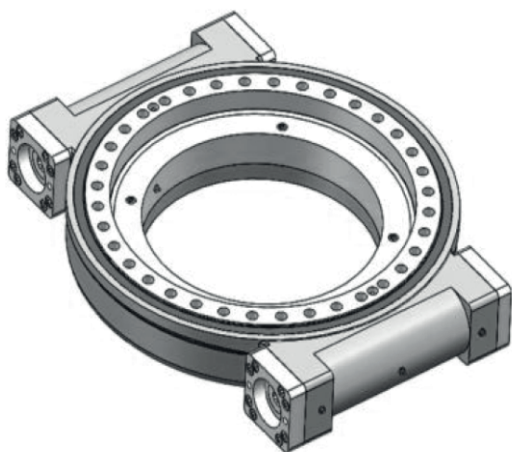


Input
(6B Spline)



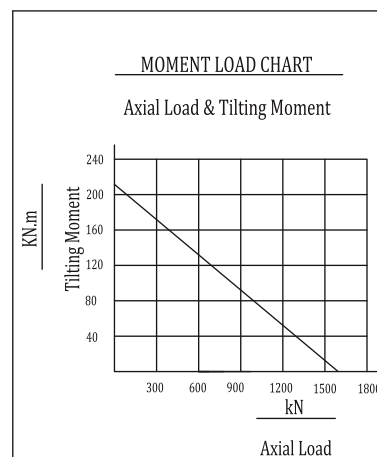
Units: mm
1 inch=25.4mm

Technical Data



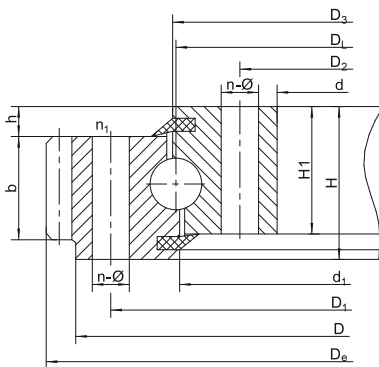
WH21-2 Slewing Drive Performance Parameters

Gear Ratio	90:1	
Output Torque (max.)	48 kN.m	35.4×10 ³ lbf.ft
Tilting Moment (max.)	203 kN.m	150×10 ³ lbf.ft
Holding Torque	211.6 kN.m	156×10 ³ lbf.ft
Static Axial Load Rating	1598 kN	359×10 ³ lbf
Static Radial Load Rating	640kN	144×10 ³ lbf
Mechanical Efficiency	40%	
Self-locking	Reliable static self-locking	
Precision	≤0.2°	
IP Class	IP65	

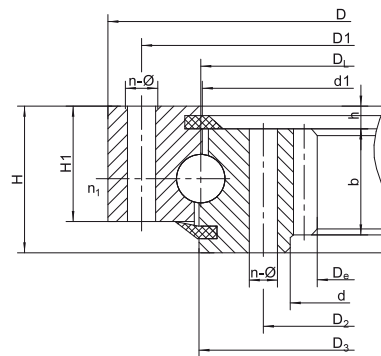


Slewing Bearing / Ring

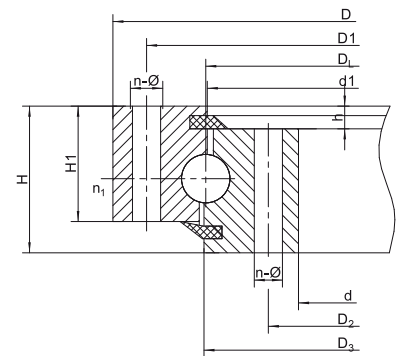
Outer Teeth



Inner Teeth



No Teeth



Slewing Ring Dimension

Model			Outer Dimension			Mounting Dimension				Structure Dimension					Gear Data			Outer Teeth Data		Inner Teeth Data		Gear Circumferential Force	
No Teeth DL mm	Outer Teeth DL mm	Inner Teeth DL mm	D mm	d mm	H mm	D1 mm	D2 mm	n	Φ mm	n1	D3 mm	d1 mm	H1 mm	h	b mm	x	m mm	De mm	z	De mm	z	Z 104 N	T 104 N
010.20.200	010.20.200	-	280	120	60	248	152	12	16	2	201	199	50	10	40	0	3	300	98	-	-	-	-
010.20.224	010.20.224	-	301	144	60	272	176	12	16	2	225	223	50	10	40	0	3	321	105	-	-	-	-
010.20.250	010.20.250	-	330	170	60	298	202	18	16	2	251	249	50	10	40	0	4	352	86	-	-	-	-
010.20.280	010.20.280	-	360	200	60	328	232	18	16	2	281	279	50	10	40	0	4	384	94	-	-	-	-
010.25.315	010.25.315	010.25.315	408	222	70	372	258	20	18	2	316	314	60	10	50	0	5	435	85	190	40	2.9	4.4
010.25.355	010.25.355	010.25.355	448	262	70	412	298	20	18	2	356	354	60	10	50	0	5	475	93	235	49	2.9	4.4
010.25.400	010.25.400	010.25.400	493	307	70	457	343	20	18	2	401	399	60	10	50	0	6	528	86	276	48	3.5	5.3
010.25.450	010.25.450	010.25.450	543	357	70	507	393	20	18	2	451	499	60	10	50	0	6	576	94	324	56	3.5	5.3
010.30.500	010.30.500	010.30.500	602	398	80	566	434	20	18	4	501	498	70	10	60	0.5	5	629	123	367	74	3.7	5.2
	010.30.500	010.30.500															6	628.8	102	368.4	62	4.5	6.2
010.25.500	010.25.500	010.25.500	602	398	80	566	434	20	18	4	501	499	70	10	60	0.5	5	629	123	367	74	3.7	5.2
	010.25.500	010.25.500															6	628.8	102	368.4	62	4.5	6.2
010.30.560	010.30.560	010.30.560	662	458	80	626	494	20	18	4	561	558	70	10	60	0.5	6	689	135	427	86	3.7	5.2
	010.30.560	010.30.560															8	688.8	112	428.4	72	4.5	6.2
010.25.560	010.25.560	010.25.560	662	458	80	626	494	20	18	4	561	558	70	10	60	0.5	6	772.8	135	427	86	3.7	5.2
	010.25.560	010.25.560															8	774.4	112	428.4	72	4.5	6.2
010.30.630	010.30.630	010.30.630	732	528	80	696	564	24	18	4	631	628	70	10	60	0.5	6	772.8	126	494.4	83	4.5	6.2
	010.30.630	010.30.630															8	774.4	94	491.2	62	6	8.3
010.25.630	010.25.630	010.25.630	732	528	80	696	564	24	18	4	631	629	70	10	60	0.5	8	850.8	126	494.4	83	4.5	6.2
	010.25.630	010.25.630															10	845.4	94	491.2	62	6	8.3
010.30.710	010.30.710	010.30.710	812	608	80	776	644	24	18	4	711	708	70	10	60	0.5	8	850.8	139	572.4	96	4.5	6.2
	010.30.710	010.30.710															10	854.4	104	571.2	72	6	8.3
010.25.710	010.25.710	010.25.710	812	608	80	776	644	24	18	4	711	708	70	10	60	0.5	8	966.4	139	572.4	96	6	6.2
	010.25.710	010.25.710															10	968	104	571.2	72	8	8.9
010.40.800	010.40.800	010.40.800	922	678	100	878	722	30	22	6	801	798	90	10	80	0.5	8	966.4	118	635.2	80	8	11.1
	010.40.800	010.40.800															10	968	94	634	64	10	14
010.30.800	010.30.800	010.30.800	922	678	100	878	722	30	22	6	801	798	90	10	80	0.5	8	966.4	118	635.2	80	8	11.1
	010.30.800	010.30.800															10	968	94	634	64	10	14
010.40.900	010.40.900	010.40.900	1022	778	100	978	822	30	22	6	901	898	90	10	80	0.5	8	1062.4	130	739.2	93	8	11.1
	010.40.900	010.40.900															10	1068	101	734	74	10	14
010.30.900	010.30.900	010.30.900	1022	778	100	978	822	30	22	6	901	898	90	10	80	0.5	10	1062.4	130	739.2	93	8	11.1
	010.30.900	010.30.900															12	1068	104	734	74	10	14
010.40.1000	010.40.1000	010.40.1000	1122	878	100	1078	922	36	22	6	1001	998	90	10	80	0.5	10	1188	116	824	83	10	14
	010.40.1000	010.40.1000															12	1185.6	96	820.8	69	12	16.7
010.30.1000	010.30.1000	010.30.1000	1122	878	100	1078	922	36	22	6	1001	998	90	10	80	0.5	10	1188	116	824	83	10	14
	010.30.1000	010.30.1000															12	1185.6	96	820.8	69	12	16.7
010.40.1120	010.40.1120	010.40.1120	1242	998	100	1198	1042	36	22	6	1121	1118	90	10	80	0.5	10	1298	127	944	95	10	14
	010.40.1120	010.40.1120															12	1305.6	106	940.8	79	12	16.7
010.10.1120	010.10.1120	010.10.1120	1242	998	100	1198	1042	36	22	6	1121	1118	90	10	80	0.5	10	1298	127	944	95	10	14
	010.10.1120	010.10.1120															12	1305.6	106	940.8	79	12	16.7
010.45.1250	010.45.1250	010.45.1250	1390	1110	110	1337	1163	40	26	5	1252	1248	100	10	90	0.5	12	1449.6	118	1048.8	88	13.5	18.8
	010.45.1250	010.45.1250															14	1453.2	101	1041.6	75	15.8	21.9



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