国内销售部：0516-8788 0395
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网　　址：www.helin-bearing.com
邮　　箱：info@helin-bearing.com
地　　址：徐州市铜山区新区街道麦楼社区连城路

徐州海林回转支承有限公司



海林HELIN

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XUZHOU HELIN SLEWING BEARING CO.,LTD.

Add: Liancheng Road, Tongshan,
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E-mail: info@helin-bearing.com
Website: www.helinslewbearing.com

徐州海林回转支承有限公司

XUZHOU HELIN SLEWING BEARING CO.,LTD.







你的选择， 我的责任

Your Choice, My Responsibility

公司简介

Company Profile

徐州海林回转支承有限公司是一家集生产研发，技术支持、营销服务为一体的企业，我们主营齿轮与涡轮类回转式减速器、回转支承、及其他非标的零部件技术服务与营销。公司经营的传动产品主要应用于新能源光伏与光热的应用领域(双轴光伏,斜单轴、平单轴光伏跟踪系统、联动光伏系统、光热槽式集热系统、光热塔式聚光系统、光热线性菲涅尔系统、光热蝶式发电系统及大小型风力发电应用)，及工程机械（道路机械、港口设备、矿山机械、工程车辆、液压与电动机械属具、自动化设备、卫星接收系统）等领域。

我们专注于齿轮及涡轮类回转驱动的生产研发、技术营销为一体的集成式服务理念，我们秉承坚定信念、专业执着、精益求精、服务至上的企业精神，目前已研发出多种高规格可靠性产品。我们以专向定制为设计理念，不断推陈出新，以此满足各种不同形式的客户需求，凭以高质量的产品与优质的服务为一如既往的为国内外新老用户陆续提供一站式服务。

Xuzhou Helin Slewing Bearing Co., Ltd. is an enterprise integrating production, R & D, technical support and marketing services. We are mainly engaged in technical services and marketing of gear and turbine rotary reducers, slewing bearings and other non-standard parts. The transmission products of the company are mainly used in the application fields of new energy photovoltaic and photothermal (biaxial photovoltaic, Inclined single axis, flat single axis photovoltaic tracking system, linkage photovoltaic system, solar thermal trough collector system, solar thermal tower concentrator system, solar thermal linear Fresnel system, solar thermal butterfly power generation system and large and small wind power generation application), and engineering machinery (road machinery, port equipment, mining machinery, engineering vehicles, hydraulic and electric machinery accessories, automation equipment, satellite receiving system)) And so on.

We focus on the gear and turbine rotary drive production research and development, technology marketing as one of the integrated service concept, we uphold the firm belief, professional dedication, excellence, service-oriented enterprise spirit, has developed a variety of high-quality reliability products. With the design concept of special customization, we constantly bring forth new products to meet the needs of different forms of customers. With high-quality products and high-quality services, we continue to provide one-stop service for new and old users at home and abroad.

编码说明 Code Description

Model Code 型号				Gear 齿轮信息		Worm Shaft 蜗杆信息				Motor 马达信息	
SE	14	A	–	85	I	– B	H	– 2	R	– 200	A

Model Code 型号

- S —— Open housing slewing drive 敞开型回转驱动
- SE —— Enclosed housing slewing drive 围栏型回转驱动
- WE —— Worm gear slewing drive 涡轮型回转驱动
- VE —— Vertical slewing drive 立式回转驱动
- SDE —— Combined slewing drive 组合式回转驱动

Diameter Of Raceway In Inch 滚道中心直径近似英制尺寸

Gear 齿轮信息

- None — General Precision 普通精度
- A —— Accuracy Grade：A 精度等级为 A
- B —— Accuracy Grade：B 精度等级为 B
- C —— Accuracy Grade：C 精度等级为 C

85 —— Ratio 减速比

Worm Shaft 蜗杆信息

- None — The Mounting Hole, Metric 安装螺纹为公制
- I —— The Mounting Hole, Inch 安装螺纹为英制

- None — Omitted with hydraulic motor 配液压马达时省略
- B —— SAE 6B spline 蜗杆输入孔为 SAE 6B 花键
- 12 —— 12mm keyed shaft 蜗杆输入孔为 ϕ12
- 16 —— 16mm keyed shaft 蜗杆输入孔为 ϕ16
- 25 —— 25mm keyed shaft 蜗杆输入孔为 ϕ25

- None — Shaft opposite to motor,capped end 蜗杆非输入端为闷盖
- H —— Worm hex extrusion 蜗杆非输入端为六角凸出
- E —— Shaft opposite to motor, with encoder 蜗杆非输入端为编码器

Motor 马达信息

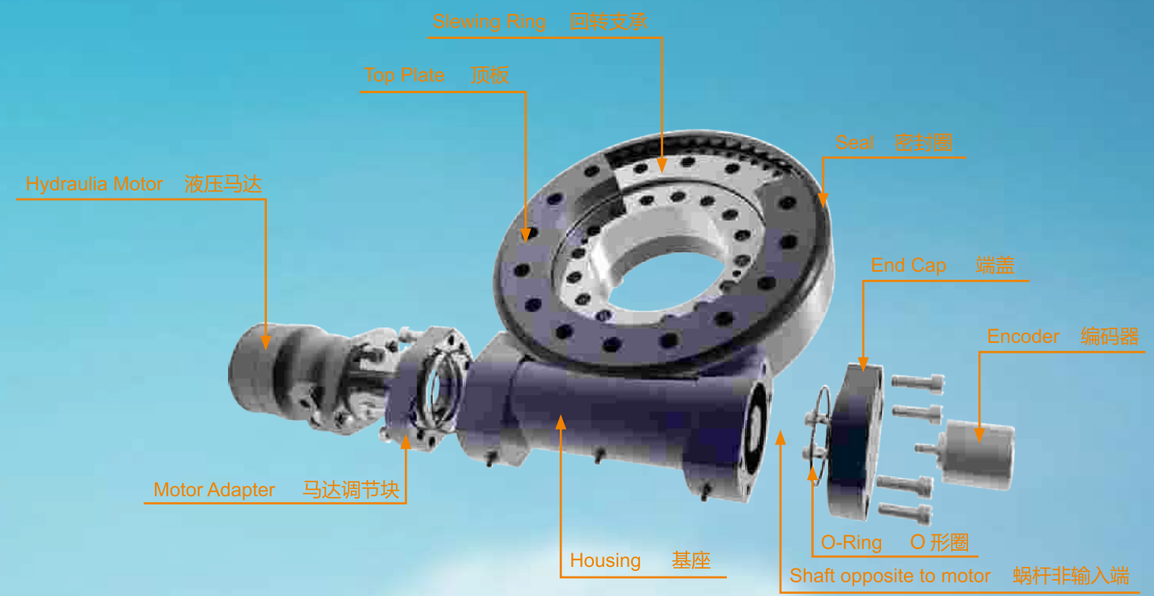
- None — Shaft number, None meaning is only one worm 蜗杆数量，未注表示为一根蜗杆
- 2 —— dual worm drive 表示为 2 根蜗杆传动

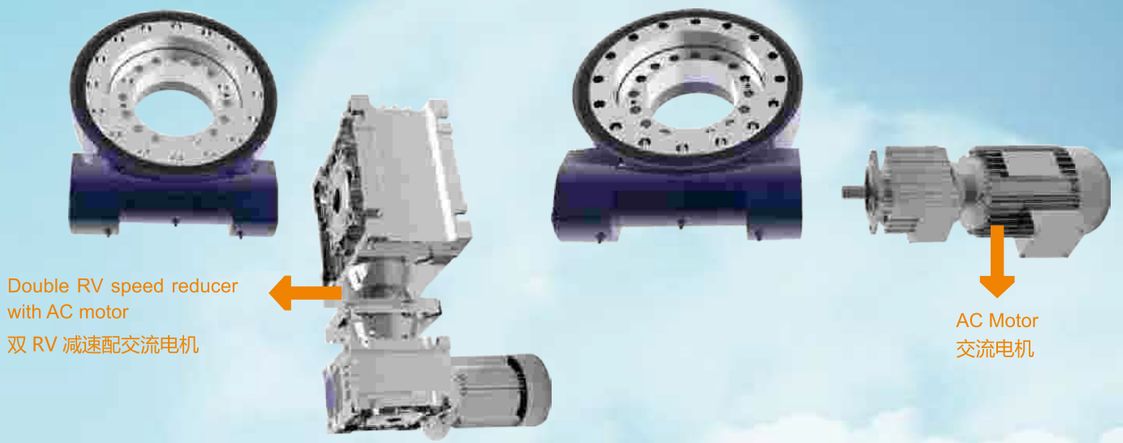
- R — Hydraulic motor position, right side 液压马达位置在右侧
- L — Hydraulic motor position, left side 液压马达位置在左侧

200 — Hydraulic motor's displacement, cc/r (by design, such as "200") 液压马达排量

- A or None — Away (oil port) 油口在外侧
- I —— Inside (oil port) 油口在内侧
- U —— Up (oil port) 油口在上方
- D —— Down (oil port) 油口在下方

驱动源选配 Driver Source Matching







产品应用 — 新能源



槽式太阳能跟踪
Parabolic Trough Solar Tracker



蝶式集热系统
Solar Dish Thermal Power



光热塔式跟踪系统
Tower Solar-Thermal System



线性菲涅尔
CSP Linear Fresnel System



CPV 双轴聚光
Dual Axis CPV Solar Tracker



联动式光伏跟踪
Linkage Type PV Tracking



光伏双轴跟踪
Dual Axis PV Solar Tracking



平单轴光伏跟踪
Horizontal Single Axis PV Solar Tracking



风能
Wind Energy



斜单轴跟踪
Inclined Single Axis Solar Tracking



风光互补系统
Wind-Solar Hybrid System

产品应用 — 工程机械



随车吊
Truck Mounted Crane



高空作业车
Aerial Working Platform

爪机属具
Timber Grab



焊接变位机
Welding Positioner



喷雾器
Sprayer



潜孔钻机
Down-Hole Drilling



擦窗机
Window Cleaning Machine



港口吊车
Marine Crane



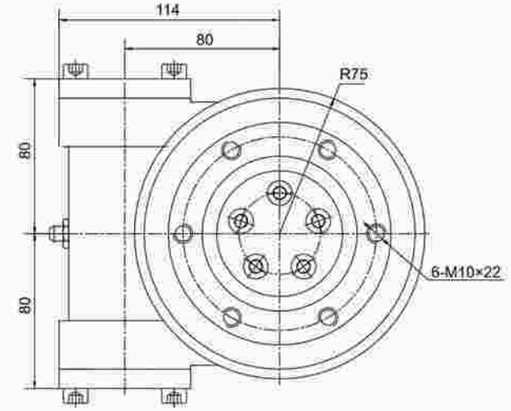
自动化流水线
Automated Assembly Line



液压模块车
Hydraulic Module Car

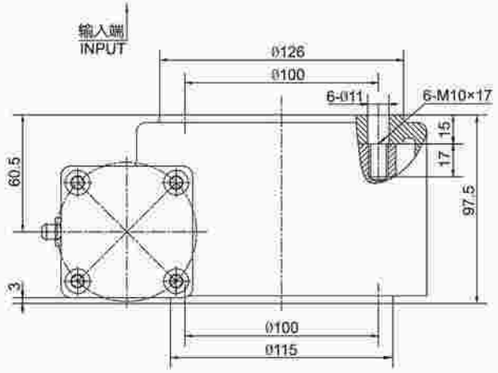


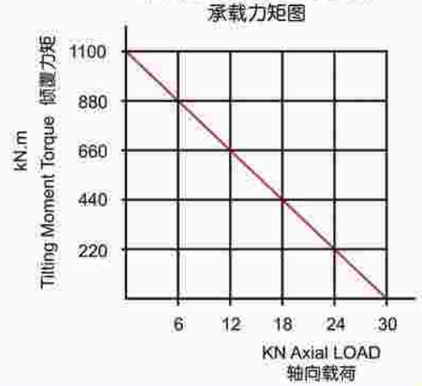
液压凿岩钻机
Hydraulic Drilling Rig



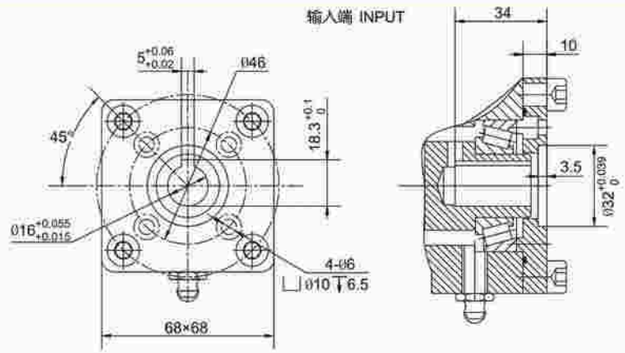


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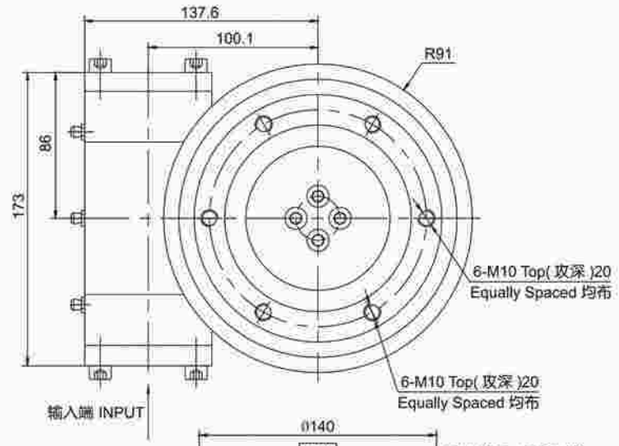


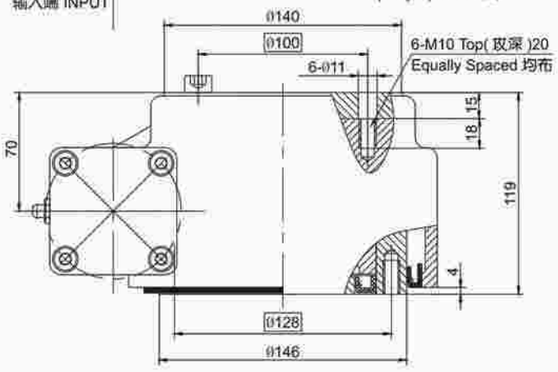
注意 Precautions： 蜗杆两端可根据客户要求进行非标准设计 "A、B" VIEW CUSTOMIZED ACCORDING TO REQUESTS



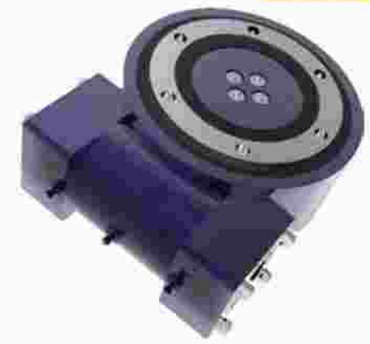
回转驱动性能参数表 Slewing Drive Performance Parameters

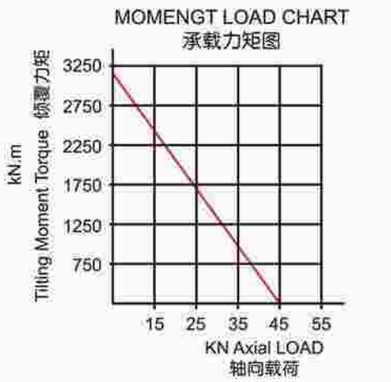
SE3	400 N.m	1100 N.m	2000 N.m	30 KN	16.6 KN	9.6 KN	8.4 KN	62 : 1	⩽0.2°	40%	12kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量



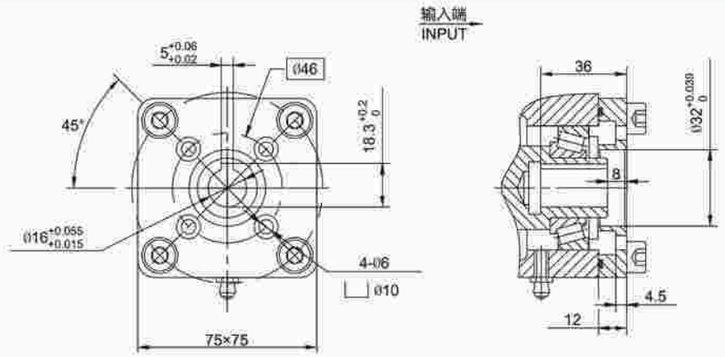


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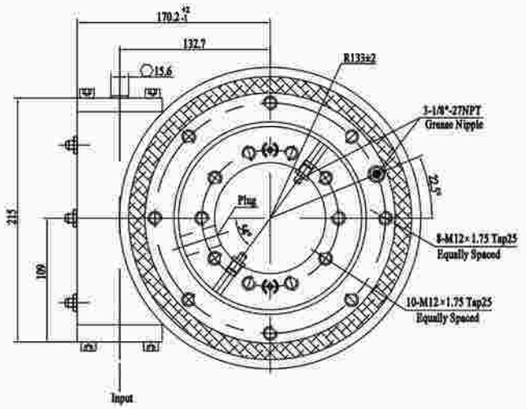


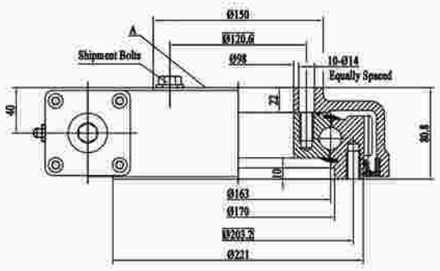
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回转驱动性能参数表 Slewing Drive Performance Parameters

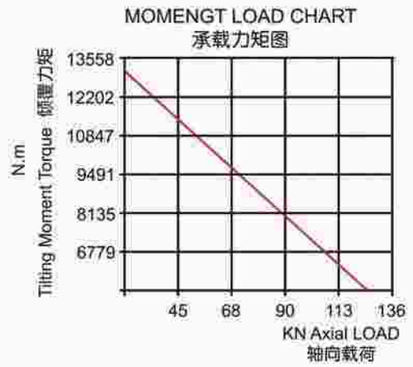
SE5	600 N.m	3000 N.m	5500 N.m	45 KN	22 KN	13.8 KN	11.8 KN	62 : 1	⩽0.2°	30%	12kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量



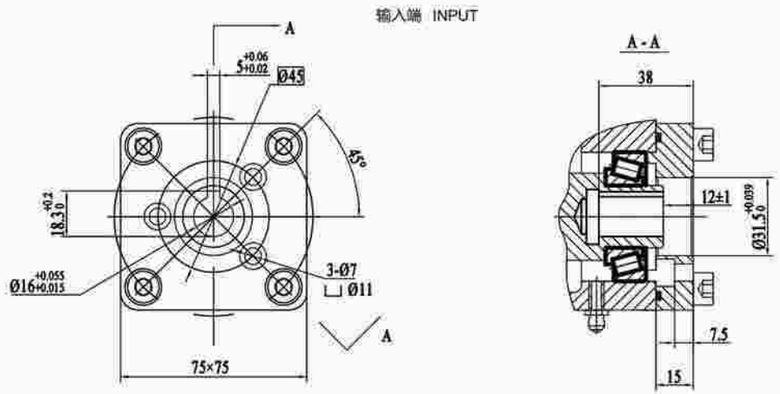


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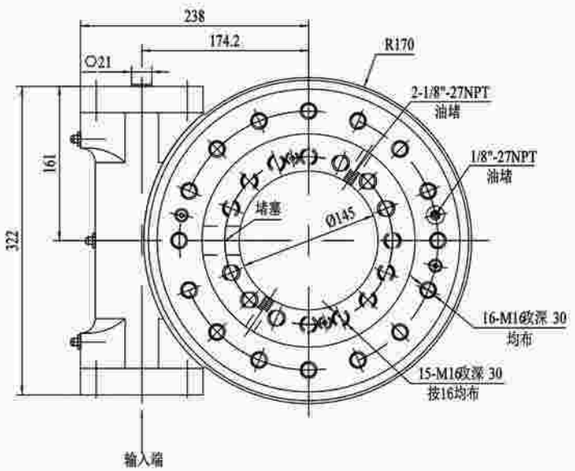


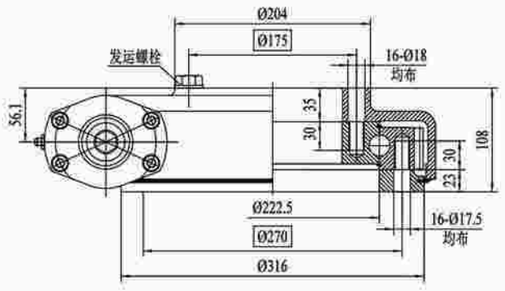
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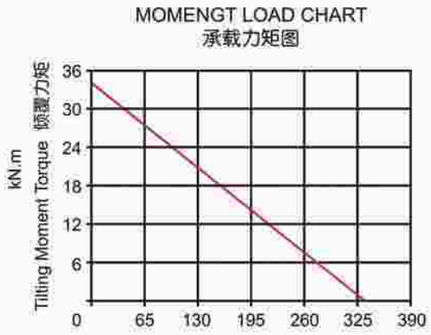
SE7	1500 N.m	13.5 KN.m	10.4 KN.m	133 KN	53 KN	32 KN	28 KN	73 : 1	≤0.15°	40%	21kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量



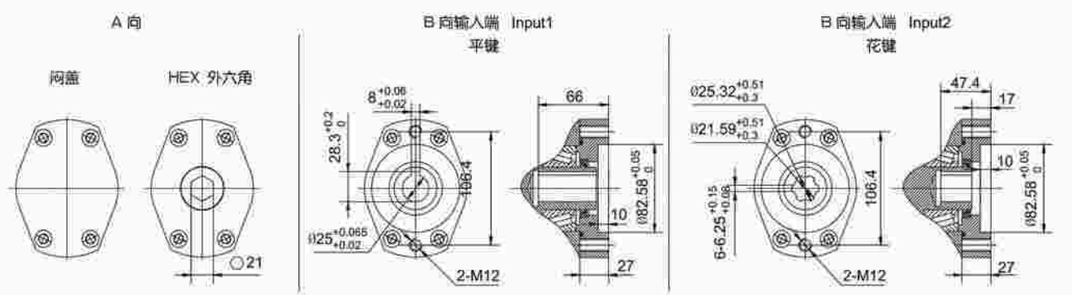


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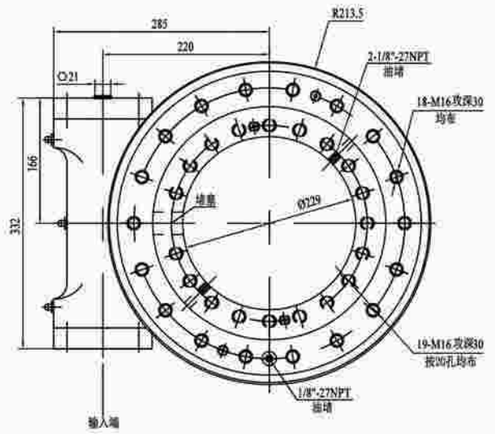


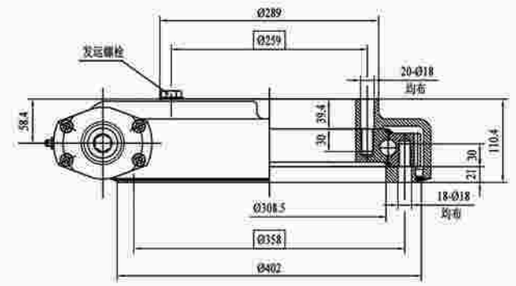
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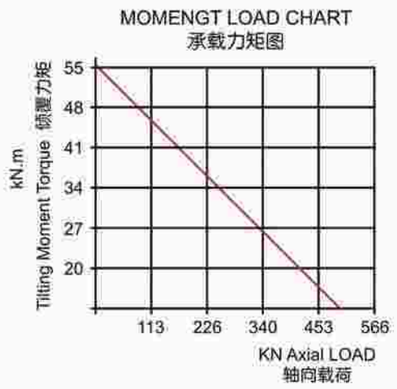
SE9	6.5 KN.m	33.9 KN.m	38.7 KN.m	338 KN	135 KN	81 KN	71 KN	61 : 1	≤0.17° C≤0.09° B≤0.07° A≤0.05°	40%	48kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量



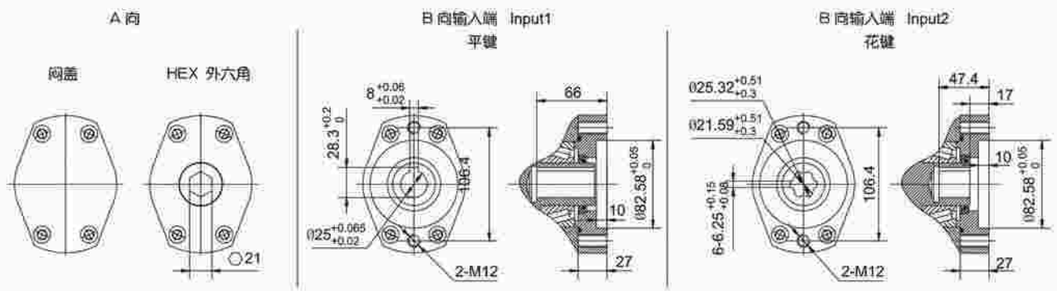


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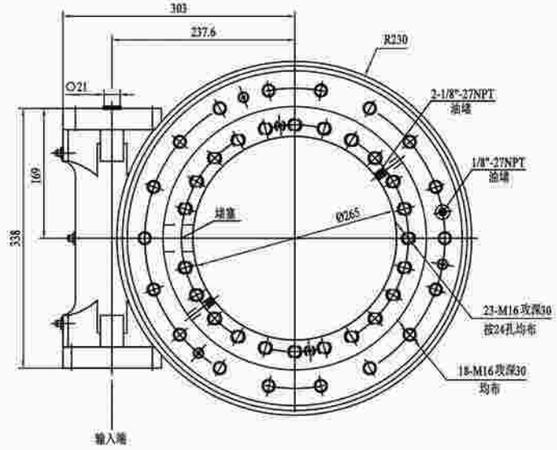


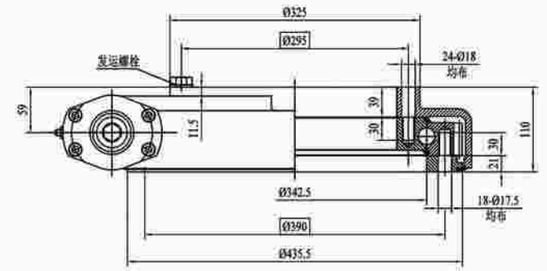
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回转驱动性能参数表 Slewing Drive Performance Parameters

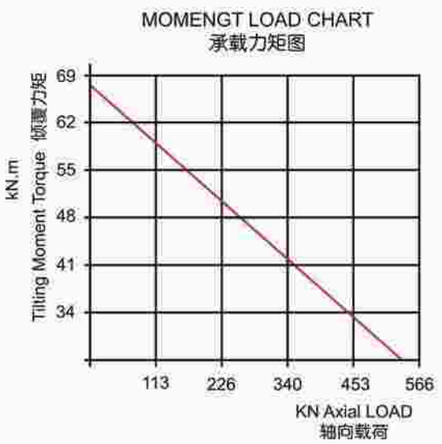
SE12	7.5 KN.m	54.3 KN.m	43 KN.m	475 KN	190 KN	114 KN	100 KN	78 : 1	⩽0.17° C⩽0.09° B⩽0.07° A⩽0.05°	40%	61kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量



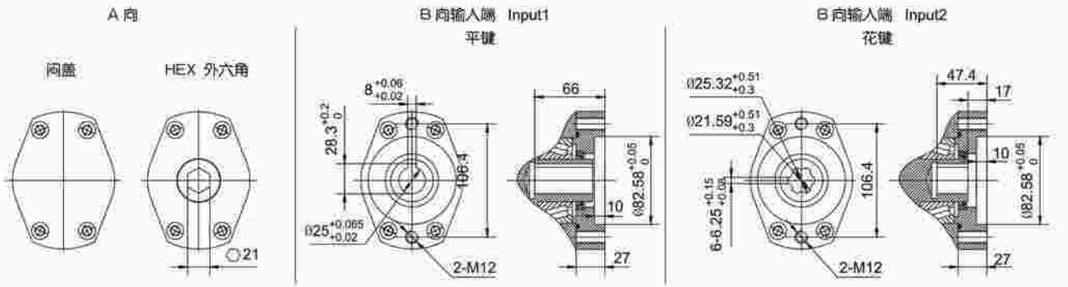


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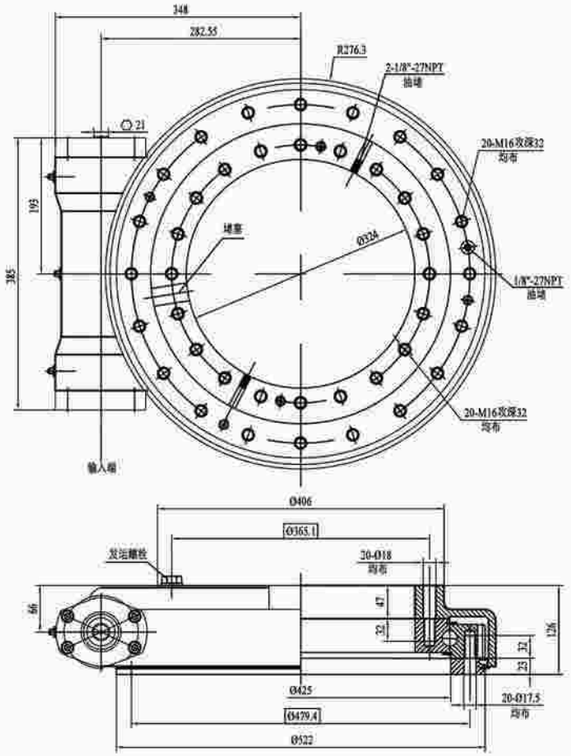
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回转驱动性能参数表 Slewing Drive Performance Parameters

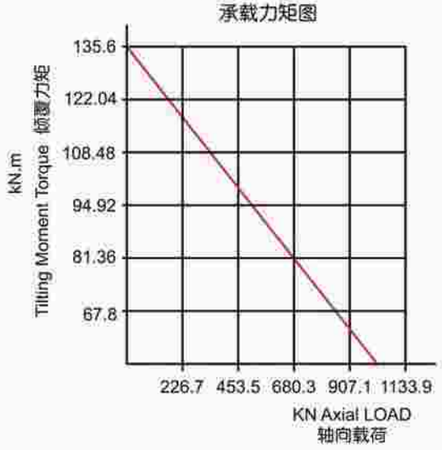
SE14	8 KN.m	67.8 KN.m	48 KN.m	555 KN	222 KN	133 KN	117 KN	85 : 1	⩽0.17° C⩽0.09° B⩽0.07° A⩽0.05°	40%	64kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

UNITS：mm
单 位：

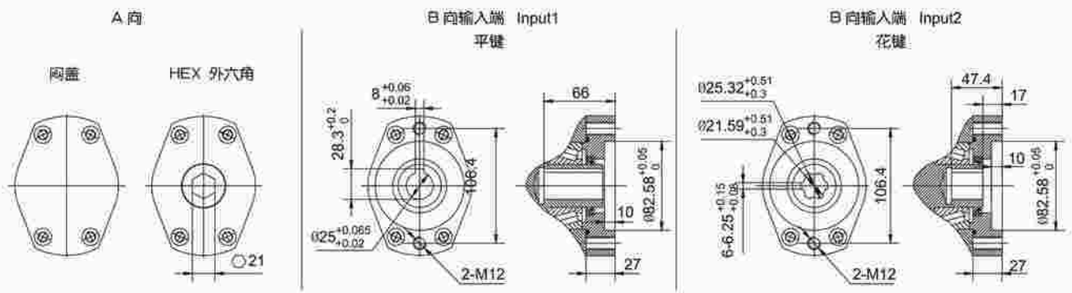




MOMENGT LOAD CHART
承载力矩图



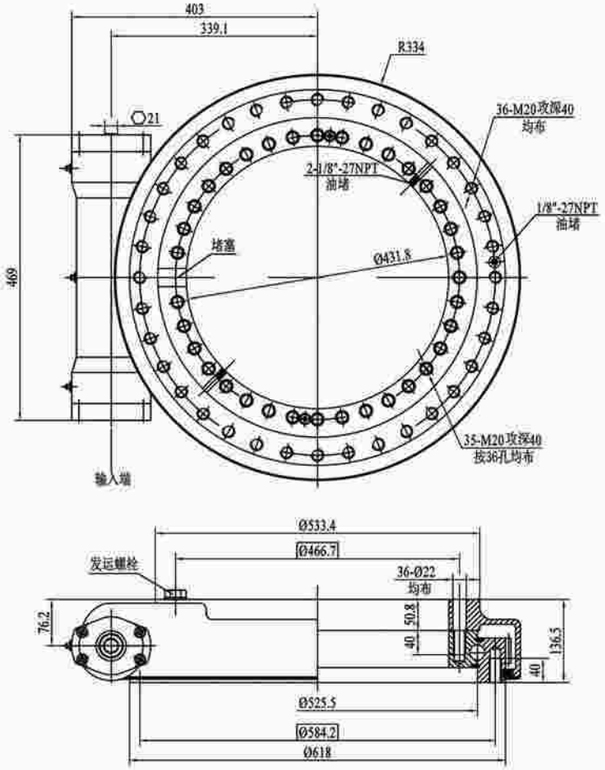
注意 Precautions： 蜗杆两端可根据客户要求进行非标准设计 "A、B" VIEW CUSTOMIZED ACCORDING TO REQUESTS



回转驱动性能参数表 Slewing Drive Performance Parameters

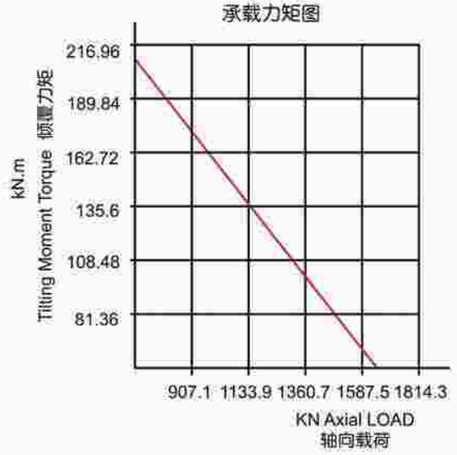
SE17	10 KN.m	135.6 KN.m	72.3 KN.m	970KN	390 KN	235 KN	205 KN	102 : 1	≤ 0.17° C ≤ 0.09° B ≤ 0.07° A ≤ 0.05°	40%	105kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

UNITS：mm
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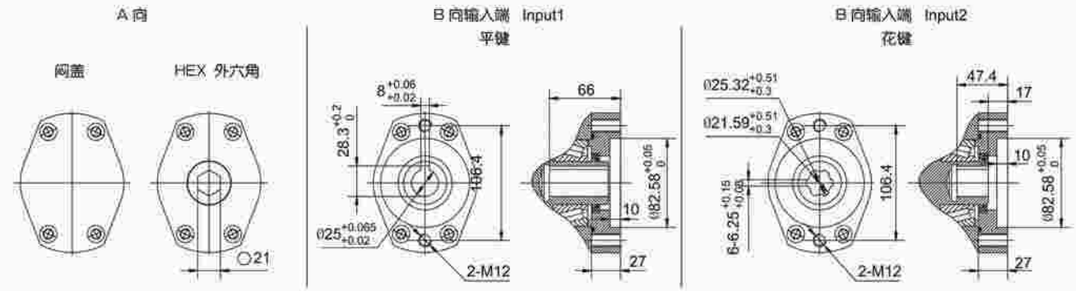




MOMENGT LOAD CHART
承载力矩图

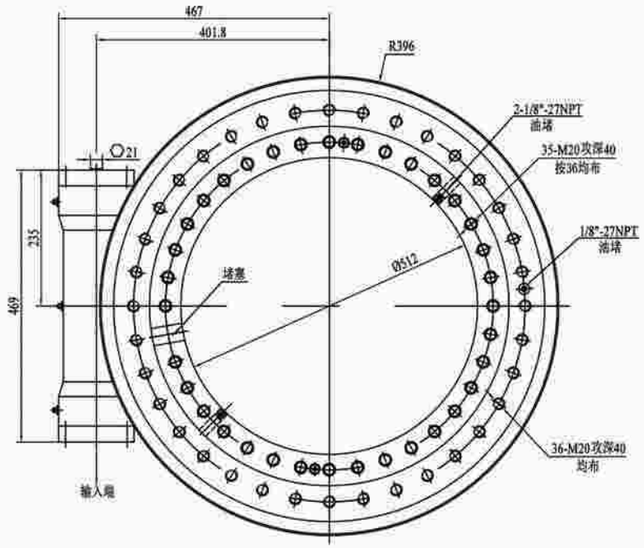


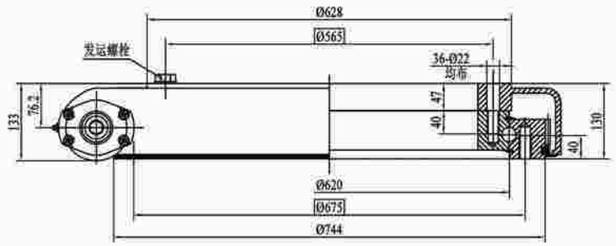
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回转驱动性能参数表 Slewing Drive Performance Parameters

SE21	15 KN.m	203 KN.m	105.8 KN.m	1598 KN	640 KN	385 KN	335 KN	125 : 1	≤ 0.17° C ≤ 0.09° B ≤ 0.07° A ≤ 0.05°	40%	149kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

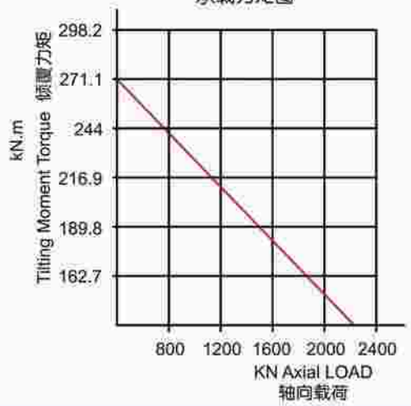




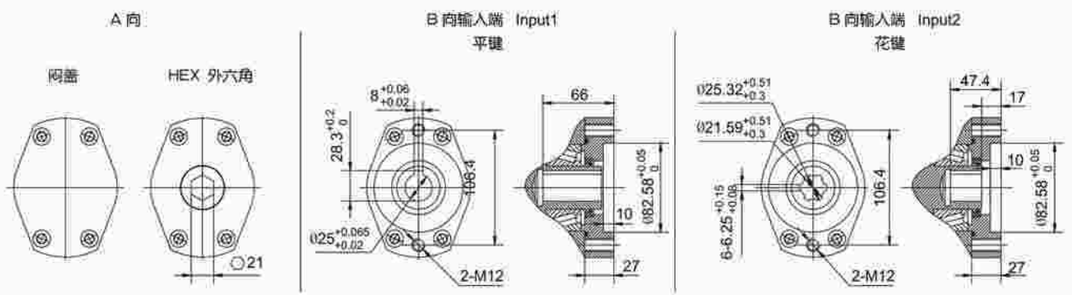
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MOMENGT LOAD CHART
承载力矩图

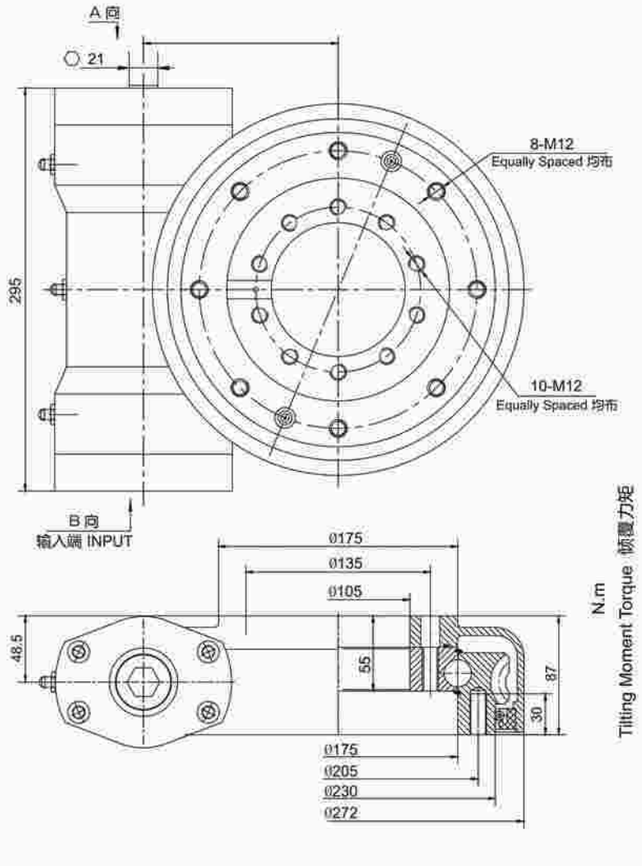


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回转驱动性能参数表 Slewing Drive Performance Parameters

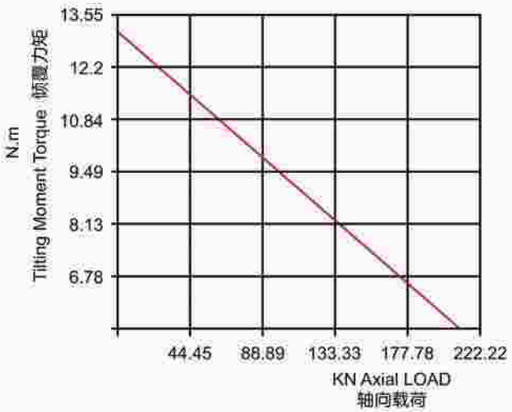
SE25	18 KN.m	271 KN.m	158.3 KN.m	2360 KN	945 KN	590 KN	470 KN	150 : 1	≤ 0.17° C ≤ 0.09° B ≤ 0.07° A ≤ 0.05°	40%	204kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量



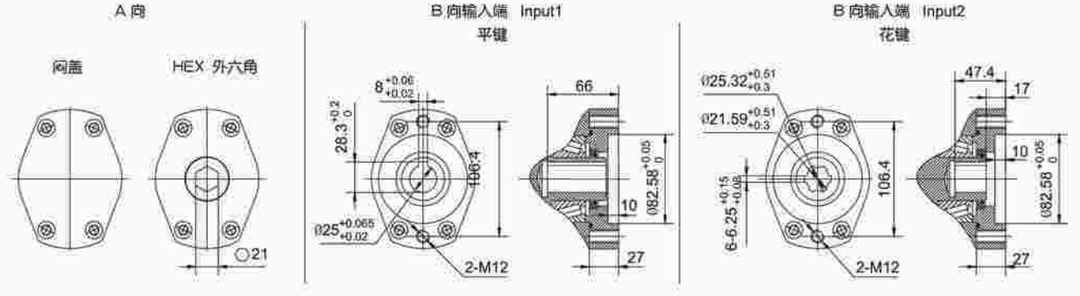
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MOMENGT LOAD CHART
承载力矩图



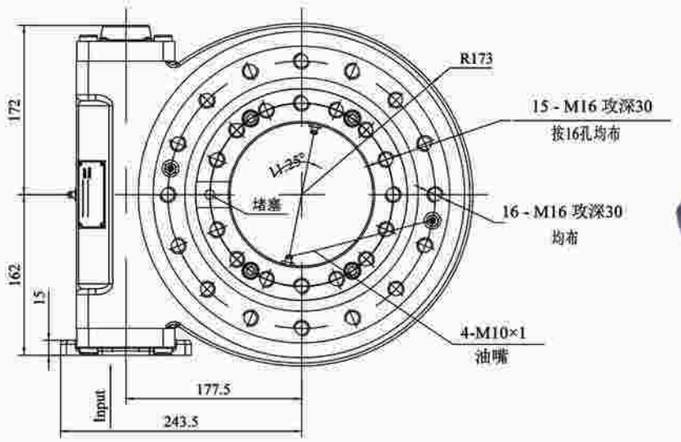
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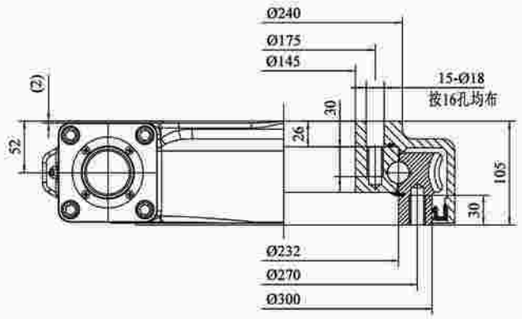
回转驱动性能参数表 Slewing Drive Performance Parameters

WEA7	3.5 KN.m	13.5 KN.m	20 KN.m	210 KN	85 KN	60 KN	45 KN	47 : 1	≤ 0.15°	40%	35kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

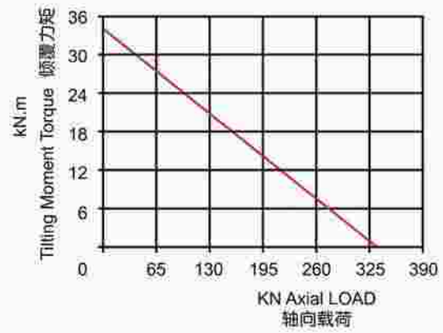
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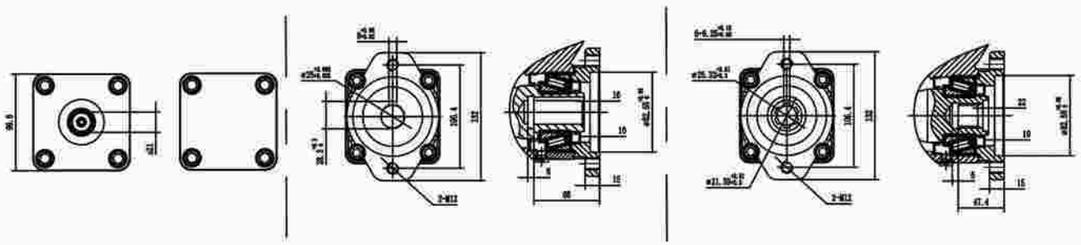




MOMENGT LOAD CHART
承载力矩图



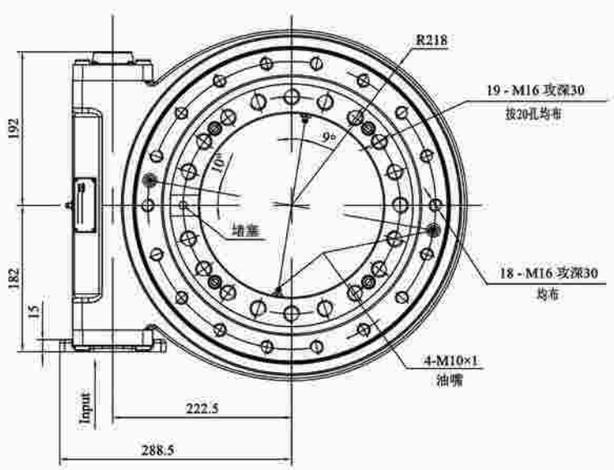
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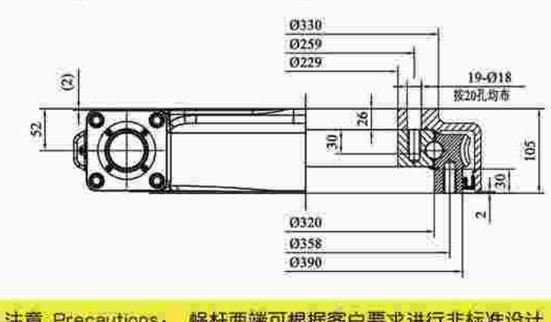
回转驱动性能参数表 Slewing Drive Performance Parameters

WEA9	8 KN.m	33.9 KN.m	38.7 KN.m	550 KN	205 KN	130 KN	110 KN	62 : 1	≤ 0.17° C ≤ 0.09° B ≤ 0.07° A ≤ 0.05°	40%	53kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

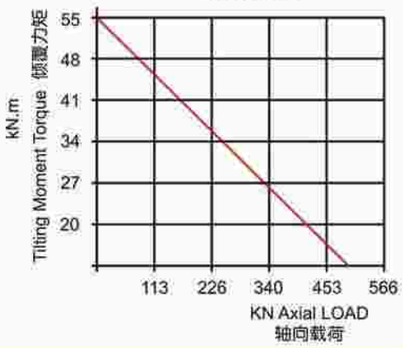
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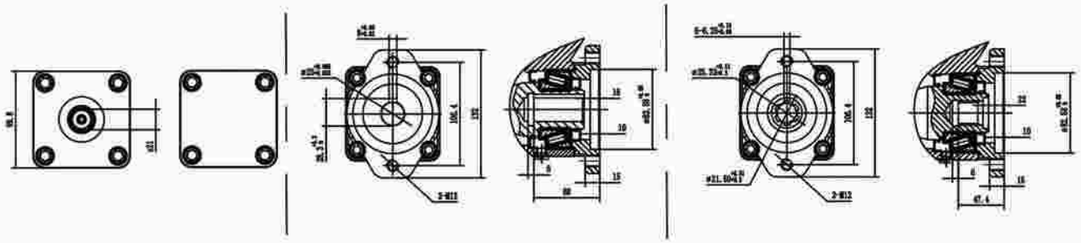




MOMENGT LOAD CHART
承载力矩图

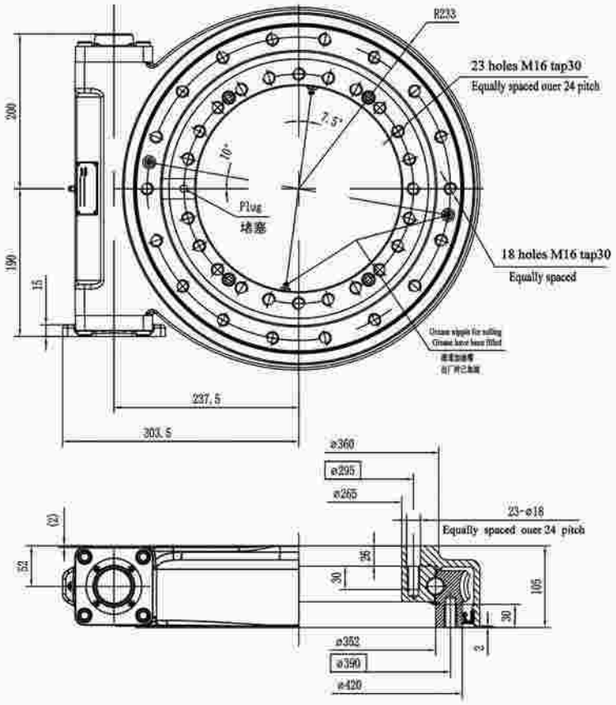


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回转驱动性能参数表 Slewing Drive Performance Parameters

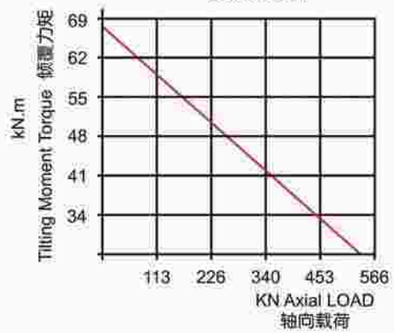
WEA12	9 KN.m	54.3 KN.m	43 KN.m	725 KN	270 KN	180 KN	140 KN	79 : 1	≤ 0.17° C ≤ 0.09° B ≤ 0.07° A ≤ 0.05°	40%	61kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量



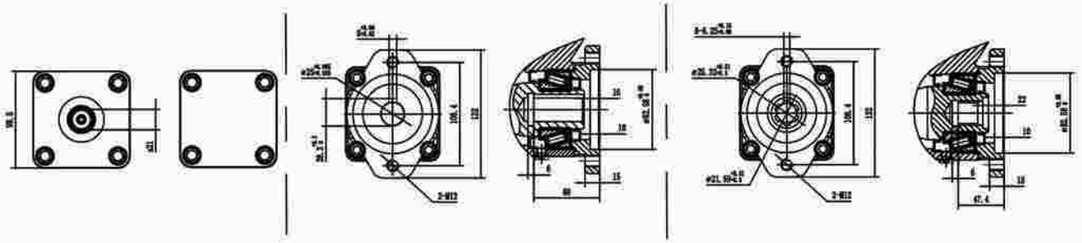
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MOMENGT LOAD CHART
承载力矩图

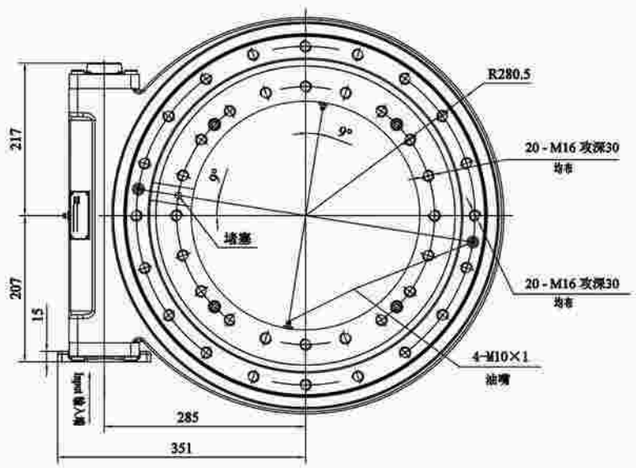


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回转驱动性能参数表 Slewing Drive Performance Parameters

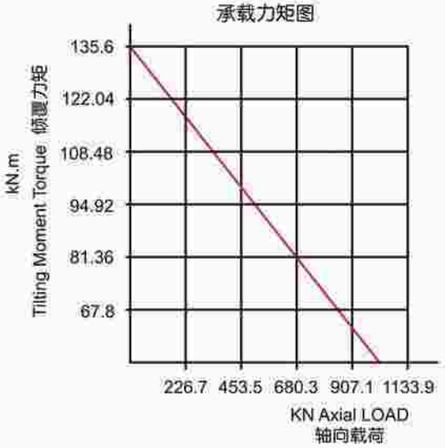
WEA14	10.8 KN.m	67.8 KN.m	48 KN.m	920 KN	343 KN	220 KN	190 KN	86 : 1	≤ 0.17° C ≤ 0.09° B ≤ 0.07° A ≤ 0.05°	40%	75kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量



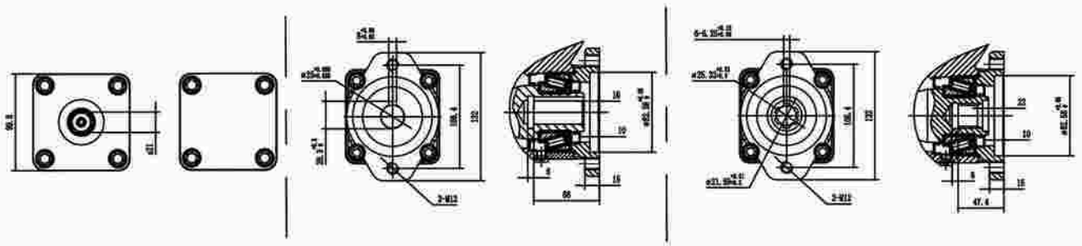
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MOMENGT LOAD CHART
承载力矩图

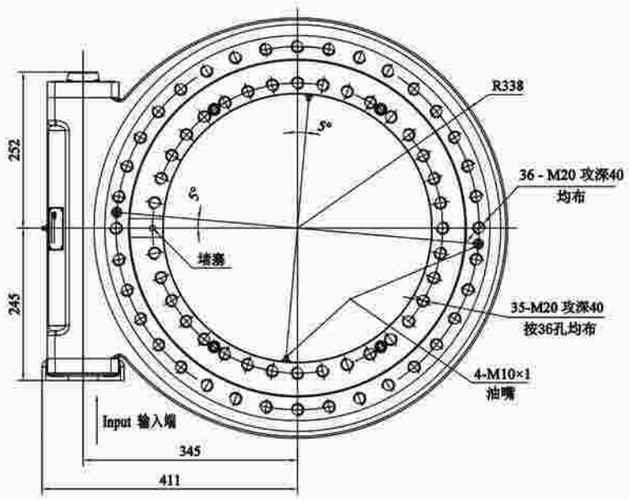


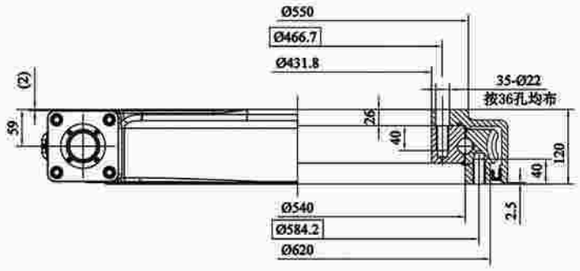
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回转驱动性能参数表 Slewing Drive Performance Parameters

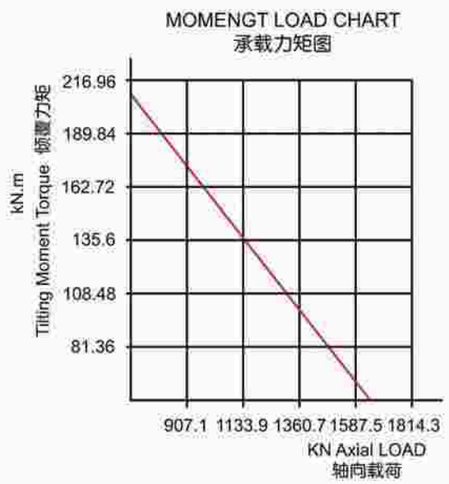
WEA17	12.96 KN.m	135.6 KN.m	72.3 KN.m	1110KN	414 KN	266 KN	220 KN	104 : 1	≤ 0.17° C ≤ 0.09° B ≤ 0.07° A ≤ 0.05°	40%	96kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量



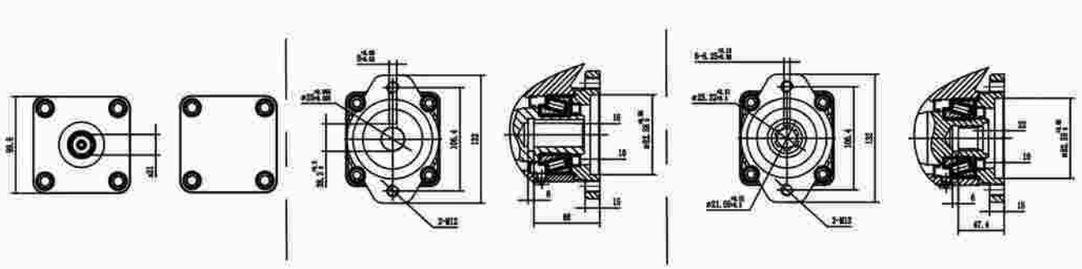


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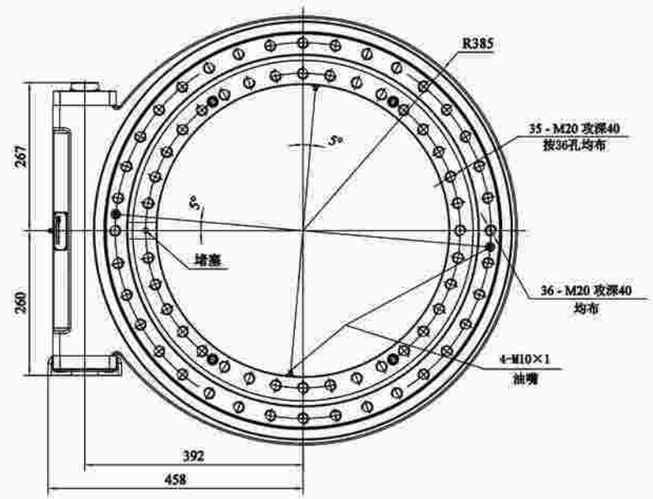


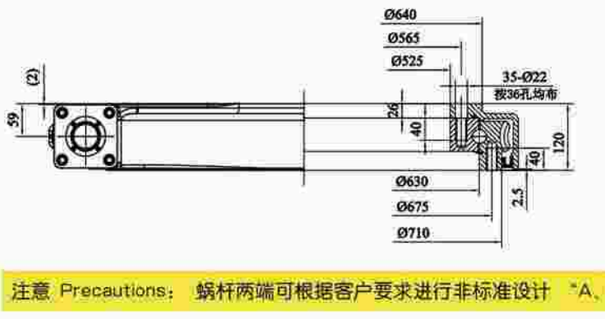
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回转驱动性能参数表 Slewing Drive Performance Parameters

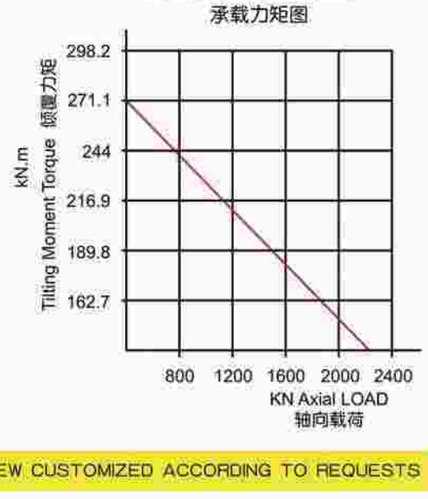
WEA21	28.7 KN.m	203 KN.m	105.8 KN.m	1598 KN	596 KN	340 KN	270 KN	90 : 1	≤ 0.17" C ≤ 0.09" B ≤ 0.07" A ≤ 0.05"	40%	172kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量



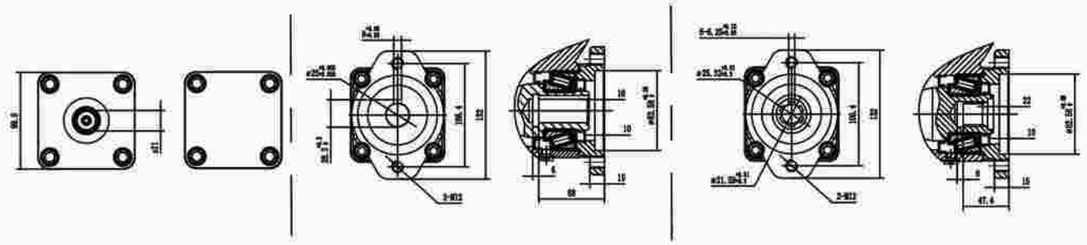


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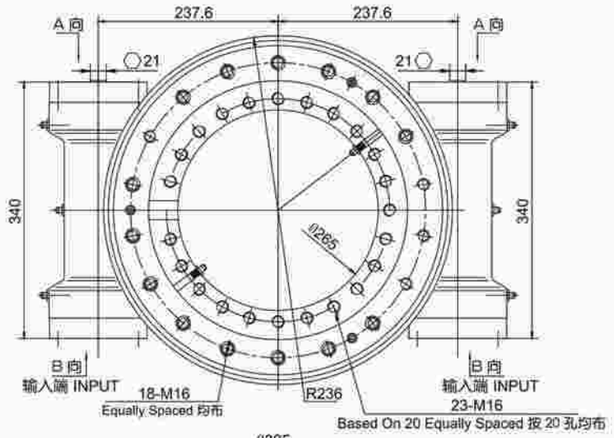
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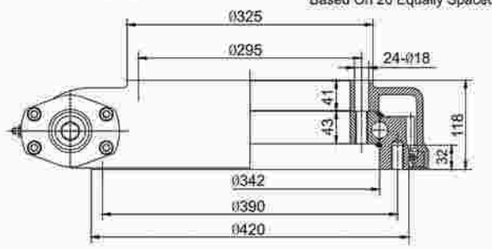


回转驱动性能参数表 Slewing Drive Performance Parameters

WEA25	34.2 KN.m	310 KN.m	158.3 KN.m	1850 KN	690 KN	440 KN	320 KN	104 : 1	≤ 0.17" C ≤ 0.09" B ≤ 0.07" A ≤ 0.05"	40%	204kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

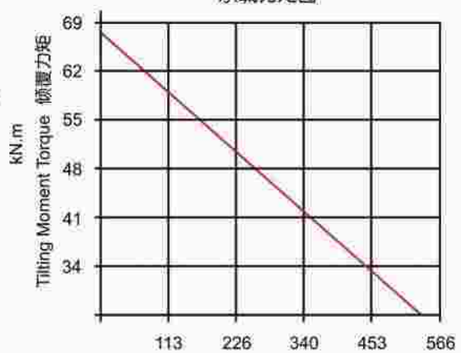
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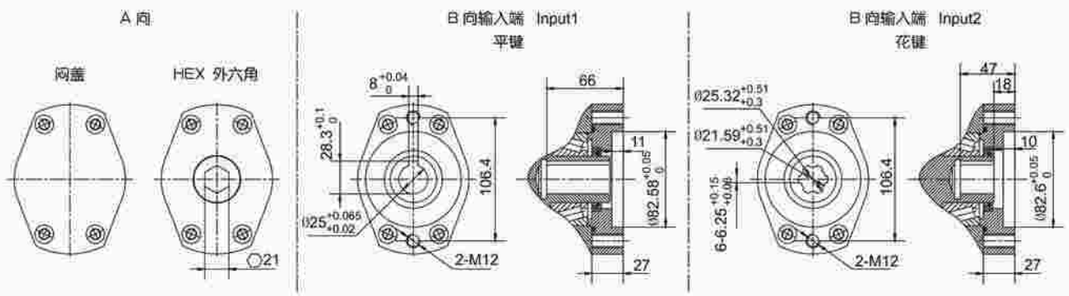




MOMENGT LOAD CHART
承载力矩图



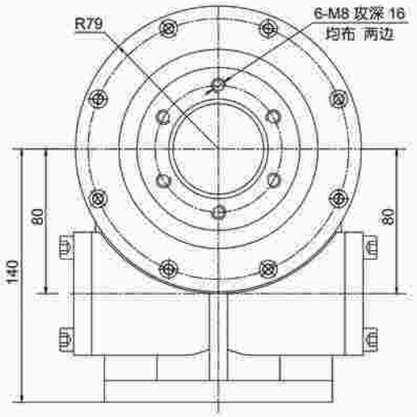
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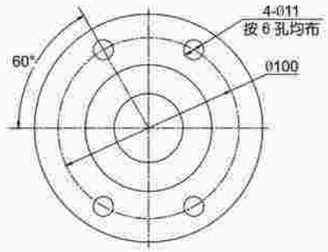


回转驱动性能参数表 Slewing Drive Performance Parameters

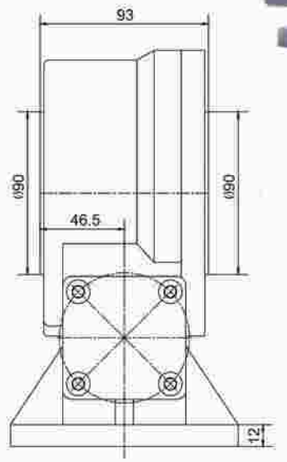
SE14-2	12 KN.m	67.8 KN.m	81.6 KN.m	555 KN	222 KN	133 KN	117 KN	85 : 1	≤ 0.17° C ≤ 0.09° B ≤ 0.07° A ≤ 0.05°	40%	76kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

UNITS：mm
单 位：

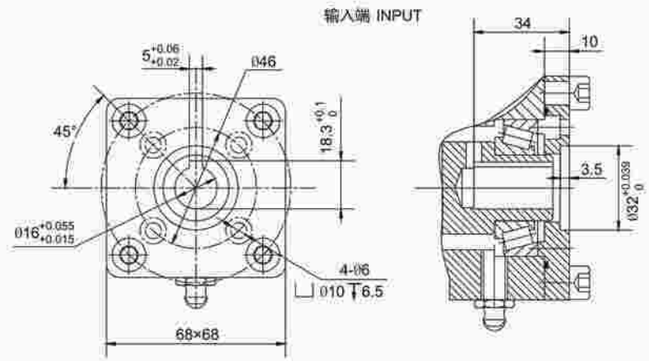








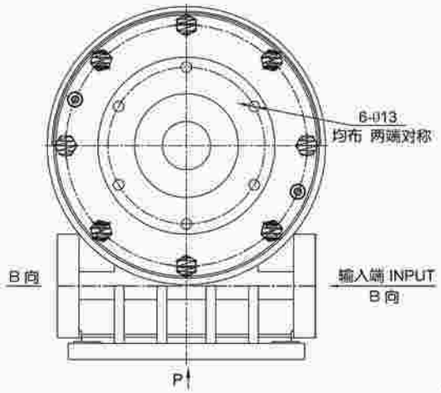
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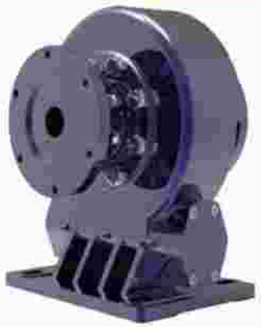


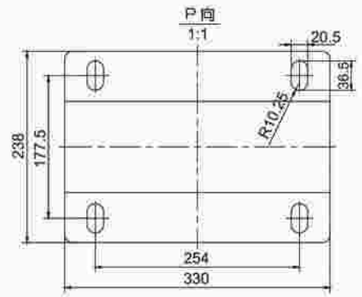
回转驱动性能参数表 Slewing Drive Performance Parameters

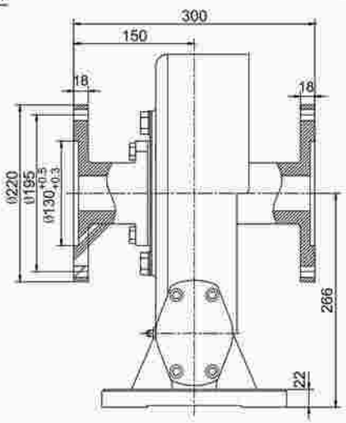
VE3	400 N.m	500 N.m	2000 N.m	30 KN	16.6 KN	9.6 KN	8.4 KN	62 : 1	≤0.2°	40%	12kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

UNITS：mm
单 位：

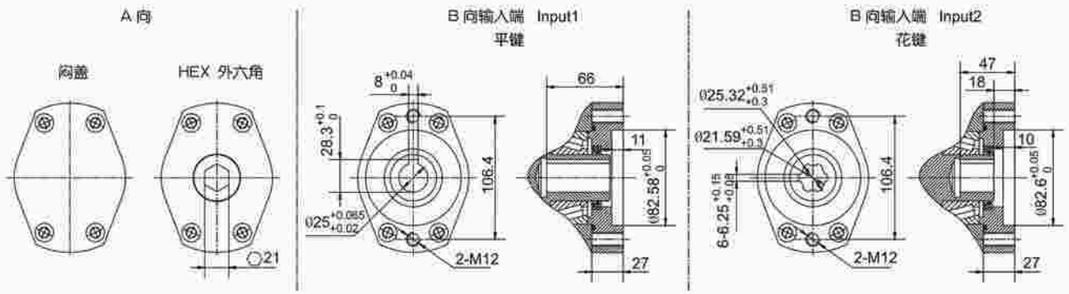








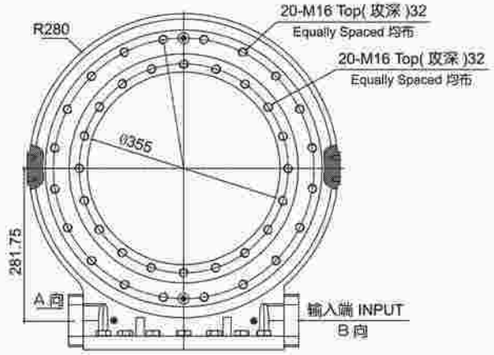
注意 Precautions： 蜗杆两端可根据客户要求进行非标准设计 “A、B” VIEW CUSTOMIZED ACCORDING TO REQUESTS

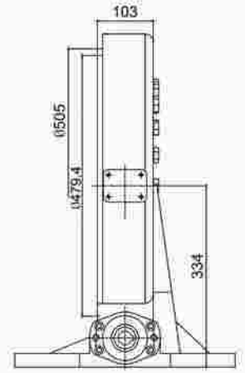


回转驱动性能参数表 Slewing Drive Performance Parameters

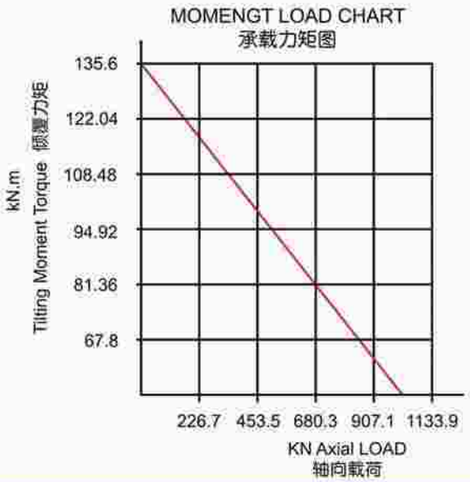
VE9	6.5 KN.m	12 KN.m	38.7 KN.m	338 KN	120 KN	81 KN	61 KN	61 : 1	≤ 0.17' C ≤ 0.09' B ≤ 0.07' A ≤ 0.05'	40%	60kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

UNITS：mm
单 位：

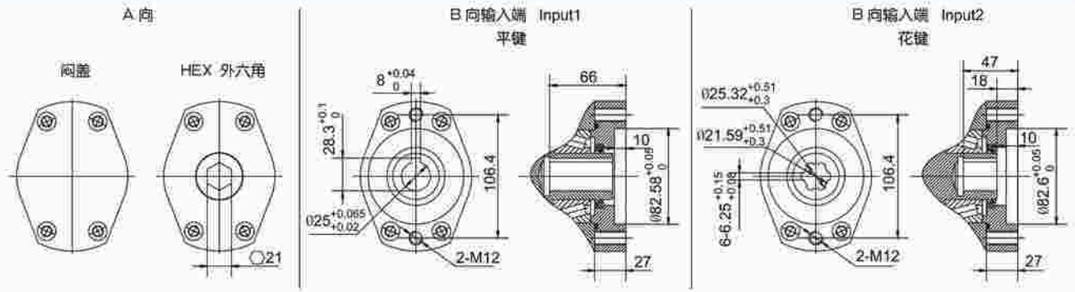








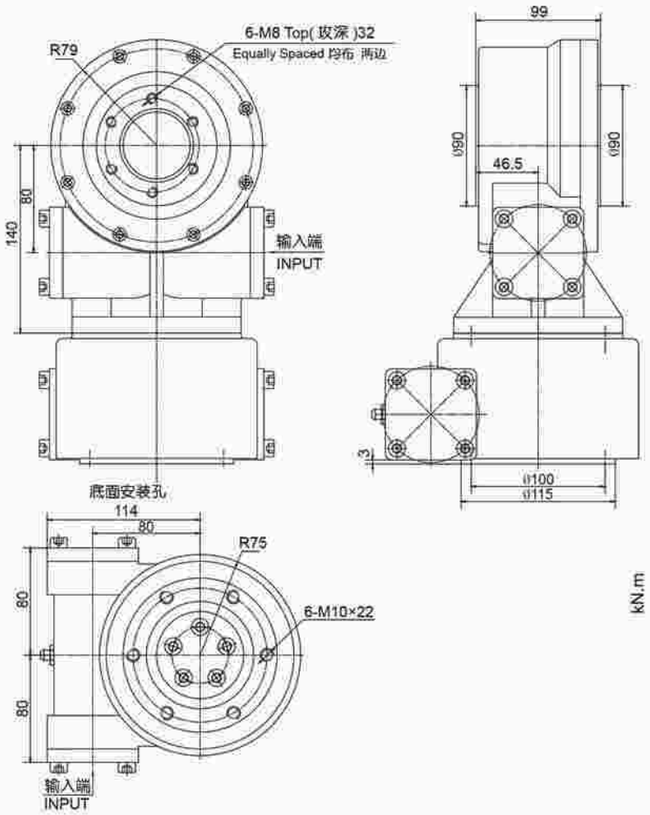
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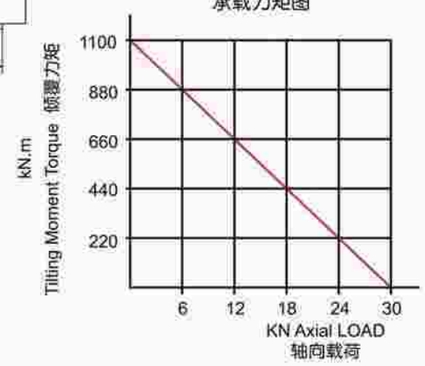
回转驱动性能参数表 Slewing Drive Performance Parameters

VE17	10 KN.m	135.6 KN.m	72.3 KN.m	970 KN	390 KN	235 KN	205 KN	102 : 1	≤ 0.17' C ≤ 0.09' B ≤ 0.07' A ≤ 0.05'	40%	105kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

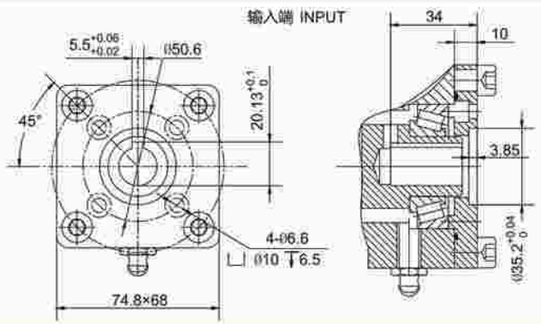
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单 位：







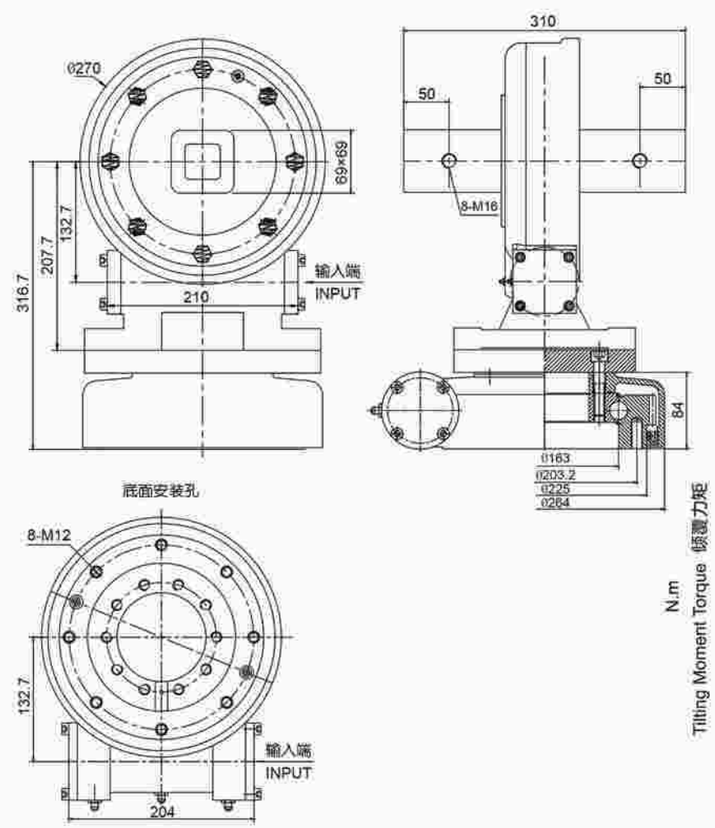
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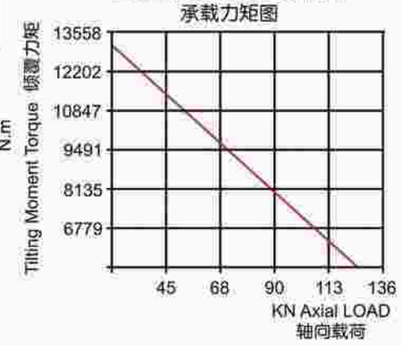
回转驱动性能参数表 Slewing Drive Performance Parameters

SDE3	400 N.m	500 N.m	2000 N.m	30 KN	15 KN	9.6 KN	8.4 KN	62 : 1	≤ 0.2°	40%	25kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

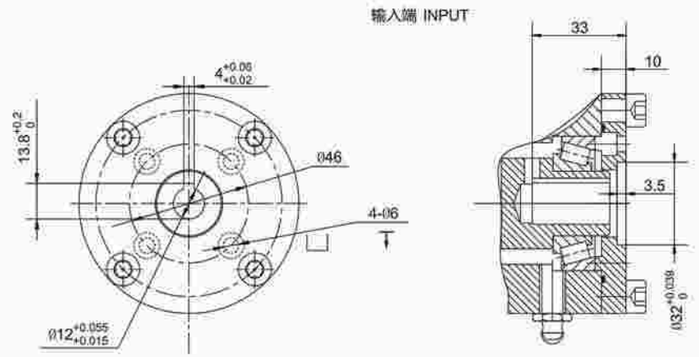
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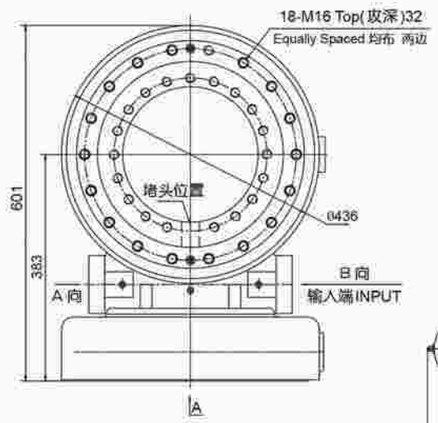
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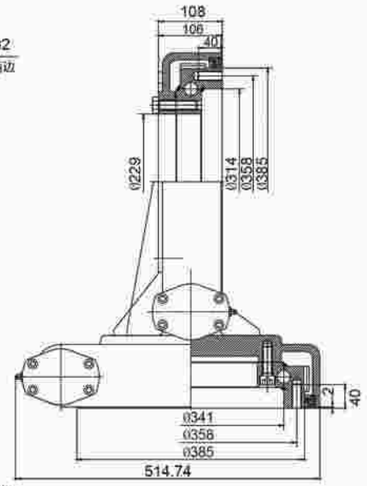


回转驱动性能参数表 Slewing Drive Performance Parameters

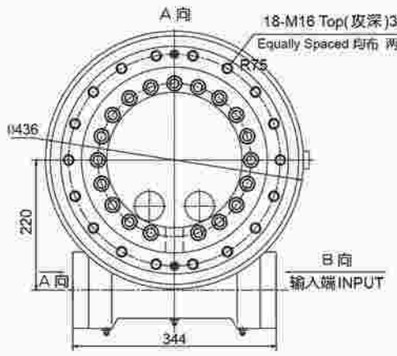
SDE7	1000 N.m	13.5 KN.m	10.4 KN.m	133 KN	53 KN	32 KN	28 KN	73 : 1	< 0.15°	40%	50kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

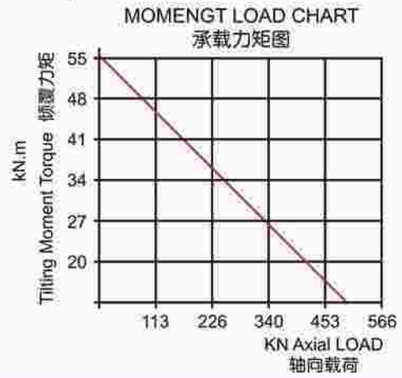
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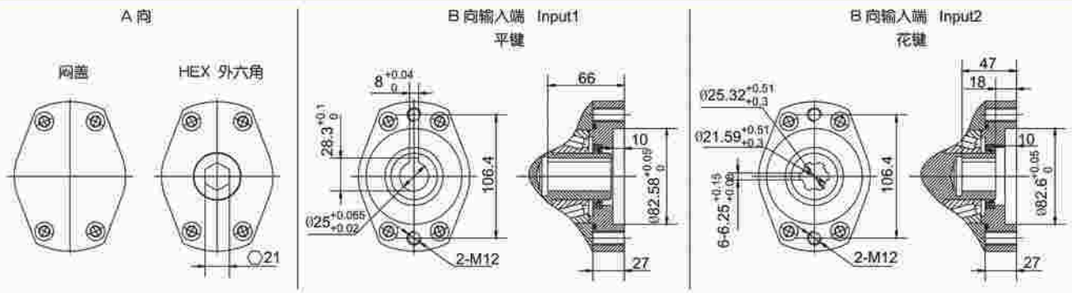








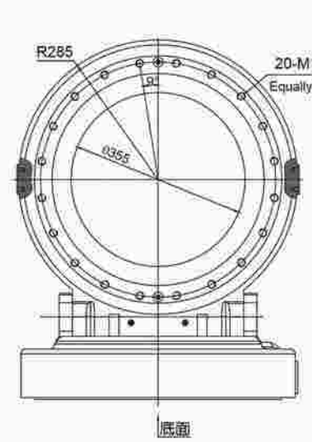
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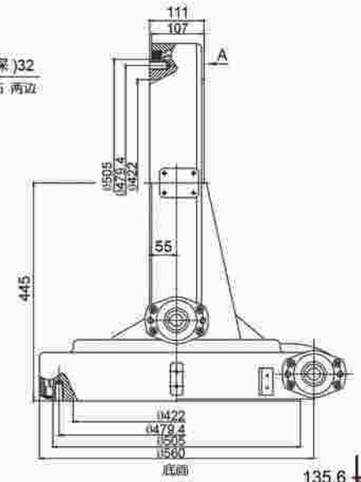


回转驱动性能参数表 Slewing Drive Performance Parameters

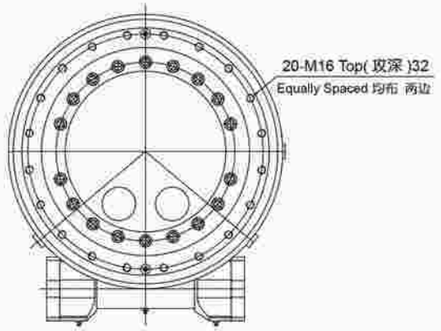
SDE12	7.5 KN.m	54.3 KN.m	43 KN.m	475 KN	190 KN	114 KN	100 KN	78 : 1	≤ 0.17° C ≤ 0.09° B ≤ 0.07° A ≤ 0.05°	40%	150kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

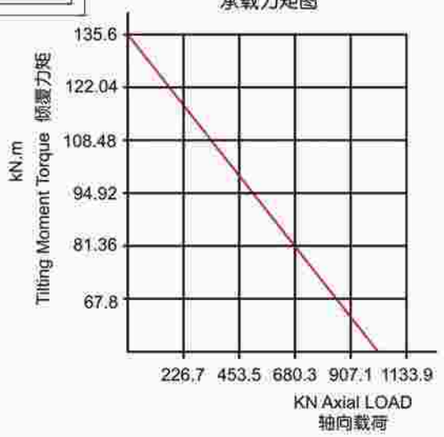
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单 位：



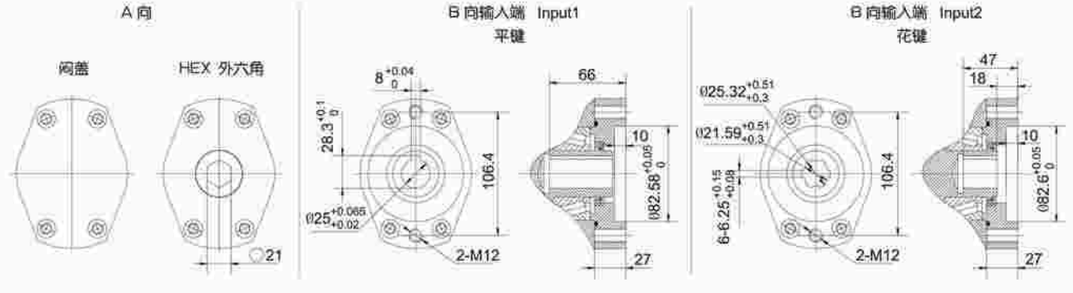








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回转驱动性能参数表 Slewing Drive Performance Parameters

SDE17	10 KN.m	135.6 KN.m	73.2 KN.m	970 KN	390 KN	235 KN	205 KN	102 : 1	≤ 0.17° C ≤ 0.09° B ≤ 0.07° A ≤ 0.05°	40%	200kg
	Output Torque 输出扭矩	Tilting Moment Torque 倾覆力矩	Holding Torque 保持力矩	Static Axial Rating 轴向静载荷	Static Radial Rating 径向静载荷	Dynamic Axial Rating 轴向动载荷	Dynamic Radial Rating 径向动载荷	Gear Ratio 减速比	Accuracy 精度	Efficiency 机械效率	Weight 重量

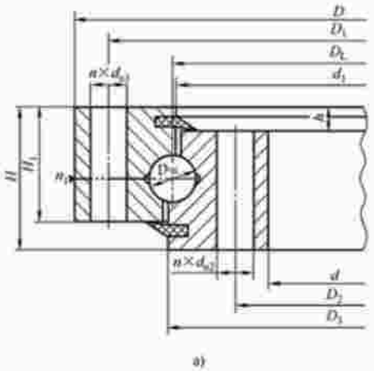
推杆 Screw Jack

特点 Features

- 定向定制 Customized Solutions
- 稳定可靠 Stable And Reliable

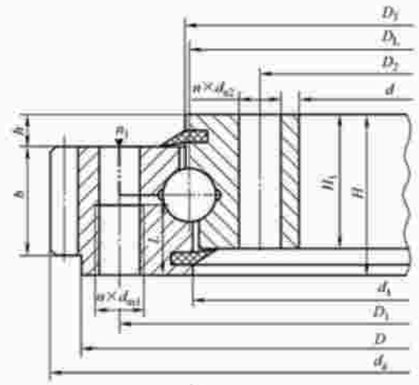


回转支承 Slewing Ring/ Bearing



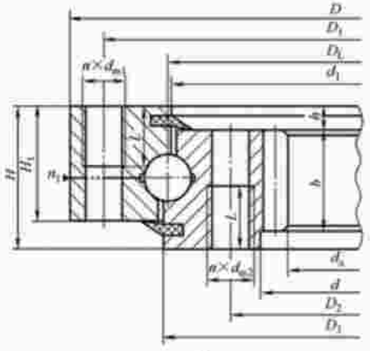
a)





b)





c)



回转支承参数 Basic Data of Slewing Ring

NO. 序	Type 型号 /Date 参数			External Dimensions 外形尺寸			Installation Dimensions 安装尺寸				Structure Dimensions 结构尺寸					Gear Parameters 齿轮参数			Outer Gear Parameters 外齿参数		Inner Gear Parameters 内齿参数	
	Without Teeth DL 无齿式	Outer Teeth DL 外齿式	Inner Teeth DL 内齿式	D	d	H	D1	D2	n	Through hole 通孔型 / Threaded hole 螺纹型	Grease Nipple No. (n1) 油口数量	D3	d1	H1	h	b	x	m	Da	Z	Da	Z
1	010.20.200	011.20.200	-	280	120	60	248	152	12	Φ16/M14	2	201	199	50	10	40	0	3	300	98	-	-
2	010.20.224	011.20.224	-	304	144		272	176				225	223						312	105	-	-
3	010.20.250	011.20.250	-	330	170		298	202	18	Φ16/M14	2	251	249					4	352	86	-	-
4	010.22.280	011.22.280	-	360	200		328	232				281	279						384	94	-	-
5	010.25.315	011.25.315	013.25.315	408	222	70	372	258	20	Φ18/M16	2	316	314	60	10	50		5	435	85	190	40
6	010.25.355	011.25.355	013.25.355	448	262		412	298				356	354						475	93	235	49
7	010.25.400	011.25.400	013.25.400	493	307		457	343	24	Φ18/M16	2	401	399					6	528	86	276	48
8	010.25.450	011.25.450	013.25.450	543	357		507	393				451	449						576	94	324	56
9	010.25.500	011.25.500	013.25.500	602	398	80	566	434	20	Φ18/M16	4	501	498	70	10	60	+0.5	5	629	123	367	74
10		012.25.500	014.25.500															6	628.8	102	368.4	62
11	010.30.500	011.30.500	013.30.500															5	629	123	367	74
12		012.30.500	014.30.500															6	628.8	102	368.4	62
13	010.25.560	011.25.560	013.25.560	662	458	80	626	494	20	Φ18/M16	4	561	558	70	10	60	+0.5	5	689	135	427	86
14		012.25.560	014.25.560															6	688.8	112	428.4	72
15	010.30.560	011.30.560	013.30.560															5	689	135	427	86
16		012.30.560	014.30.560															6	688.8	112	428.4	72
17	010.25.630	011.25.630	013.25.630	732	528	80	696	564	24	Φ18/M16	4	631	628	70	10	60	+0.5	6	772.8	126	494.4	83
18		012.25.630	014.25.630															8	774.4	94	491.2	62
19	010.30.630	011.30.630	013.30.630															6	772.8	126	494.4	83
20		012.30.630	014.30.630															8	774.4	94	491.2	62
21	010.25.710	011.25.710	013.25.710	812	608	80	776	644	24	Φ18/M16	4	711	708	70	10	60	+0.5	6	850.8	139	572.4	96
22		012.25.710	014.25.710															8	854.4	104	571.2	72
23	010.30.710	011.30.710	013.30.710															6	850.8	139	572.4	96
24		012.30.710	014.30.710															8	854.4	104	571.2	72
25	010.30.800	011.30.800	013.30.800	922	678	100	878	722	30	Φ22/M20	6	801	798	90	10	80	+0.5	8	966.4	118	635.2	80
26		012.30.800	014.30.800															10	968	94	634	64
27	010.40.800	011.40.800	013.40.800															8	966.4	118	635.2	80
28		012.40.800	014.40.800															10	968	94	634	64

可根据客户要求进行非标设计 CUSTOMIZED ACCORDING TO REQUESTS