

CORESUNDRIVE

科森传动设备常州有限公司

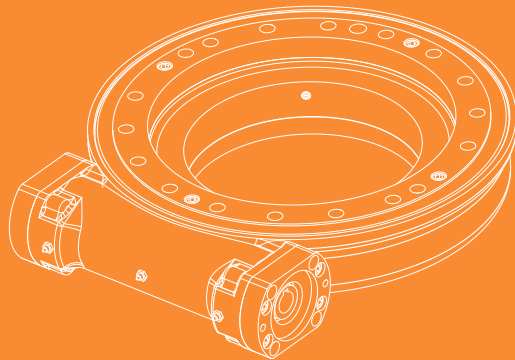


责任

Responsibility

感恩

Thanksgiving



您的满意是我们永恒的追求
Your Satisfaction Is our Eternal Pursuit

COMPANY PROFILE

企业简介

科森—实用型回转驱动、回转支承倡导者

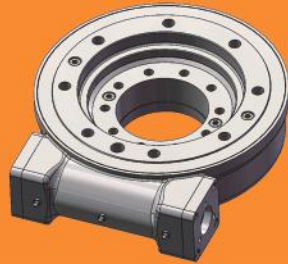
我们致力于研究、开发、应用高质量、精密型传动设备产品。为平单轴、双轴光伏跟踪，槽式、蝶式、聚光系统提供可靠的机械执行部件保障。以专业的产品满足高空作业车、随车吊、抓木机、掘进机、喷雾设备、液压模块车、自动化流水线、风力偏航系统等平稳运行的需要。

科森不仅是您可靠的供应商，更是您真诚的合作伙伴！

CoreSun - Practical Slewing Drive&Slewing Bearing Promoter.

We are committed to researching, developing and applying high quality, precision transmission equipment products,who provides reliable mechanical actuator for horizontal single axis, dual-axis photovoltaic tracking system, CSP,CPV solar tracking design.Our professional and high-quality products will be also applied well as a steady solution on aerial working platform, truck crane, timber grab, drilling rig, spray equipment, hydraulic module vehicle,automated assembly lines, wind yaw systems,etc.

CoreSun is your reliable supplier,even more your sincere partner!



为客户提供

经济实用的传动方案

Providing the cost-effective and practical transmission solutions



产品应用 / Product Application



高空作业车
Aerial Working Platform



随车吊
Truck Mounted Crane



液压模块车 Hydraulic Module Vehicle



船舶吊
Marine Crane



抓木机
Timber Grab



道路设备
Road Construction Equipment

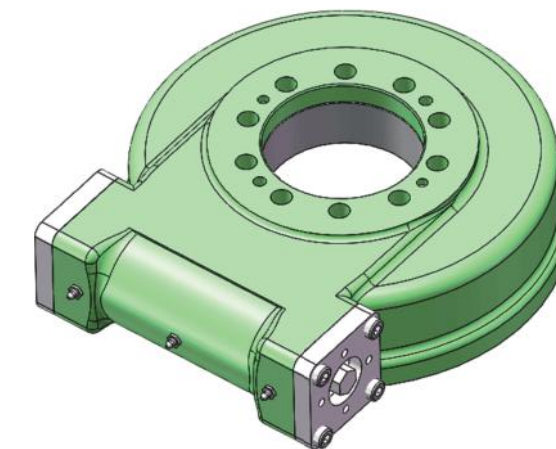
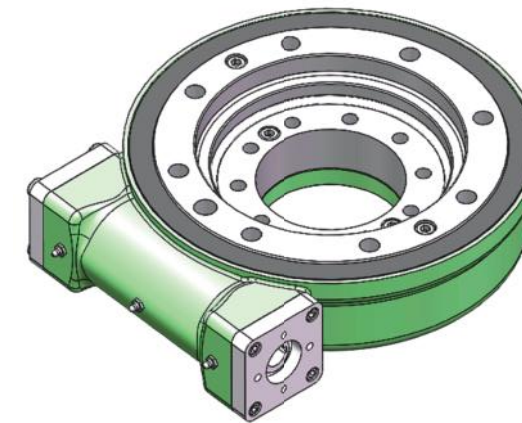
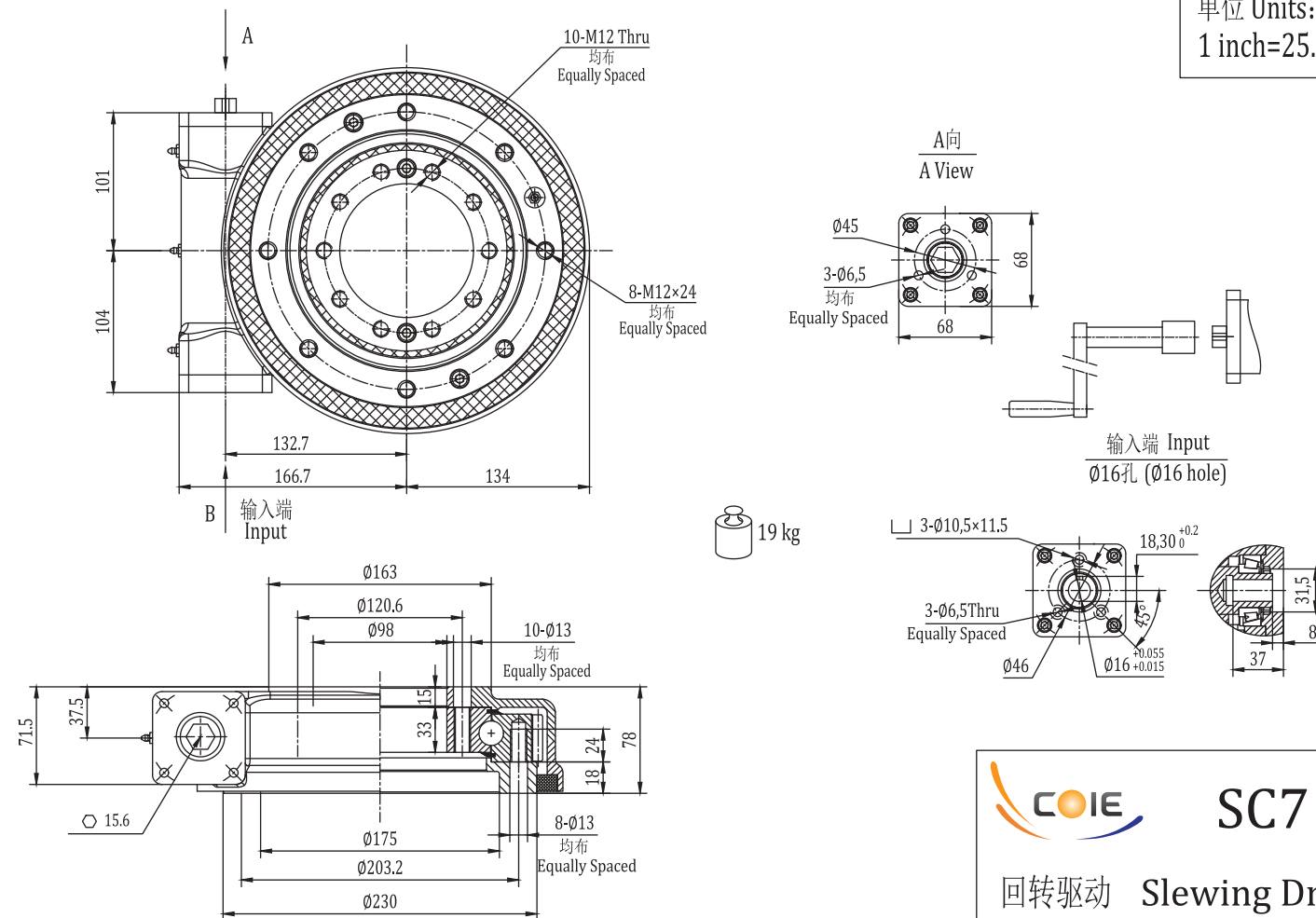


煤矿掘进机
Drilling Rig



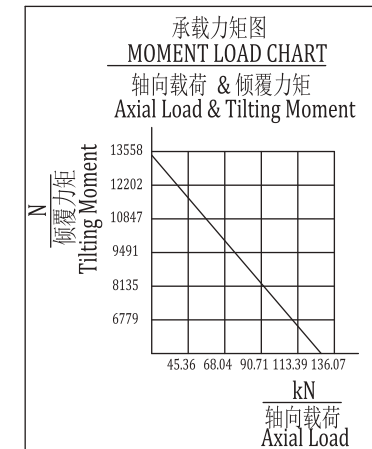
喷雾设备
Spraying Equipment

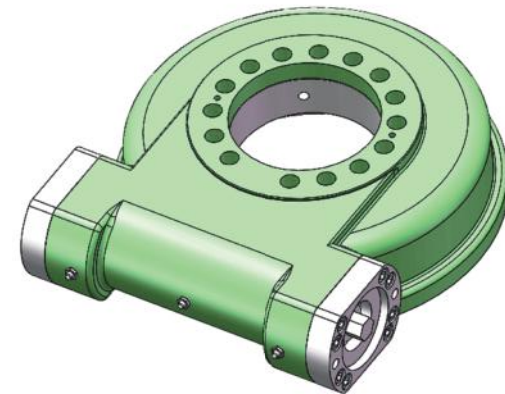
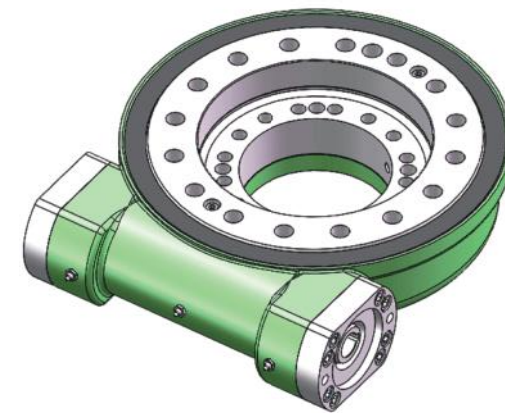
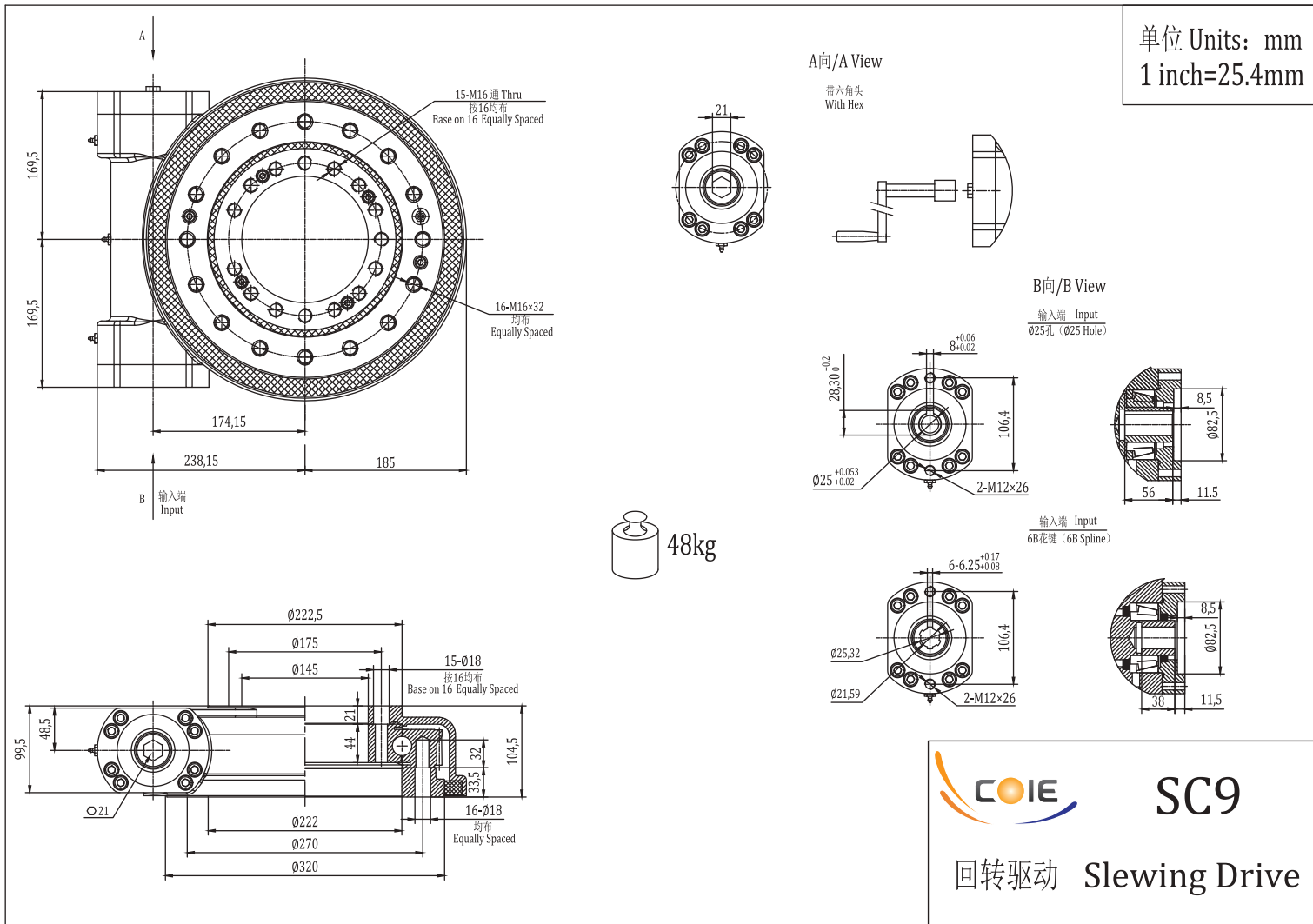
单位 Units: mm
1 inch=25.4mm



SC7 回转驱动性能参数 Slewing Drive Performance Parameters

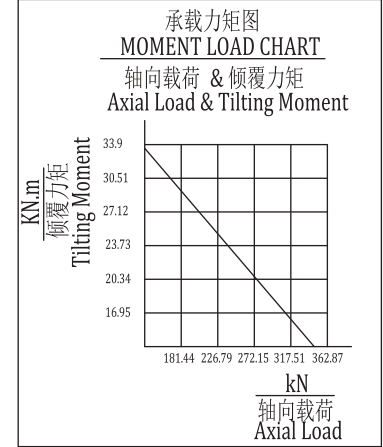
减速比	Gear Ratio	71:1	
最大输出转矩	Output Torque (max.)	3.5 kN.m	2.58×10^3 lbf.ft
最大倾覆力矩	Tilting Moment (max.)	13.5 kN.m	9.96×10^3 lbf.ft
保持力矩	Holding Torque	10.4 kN.m	7.67×10^3 lbf.ft
轴向静载荷	Static Axial Load Rating	133 kN	30×10^3 lbf
径向静载荷	Static Radial Load Rating	53 kN	11.9×10^3 lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁 Reliable static self-locking	
精度	Precision	$\leq 0.2^\circ$	
防护等级	IP Class	IP65	



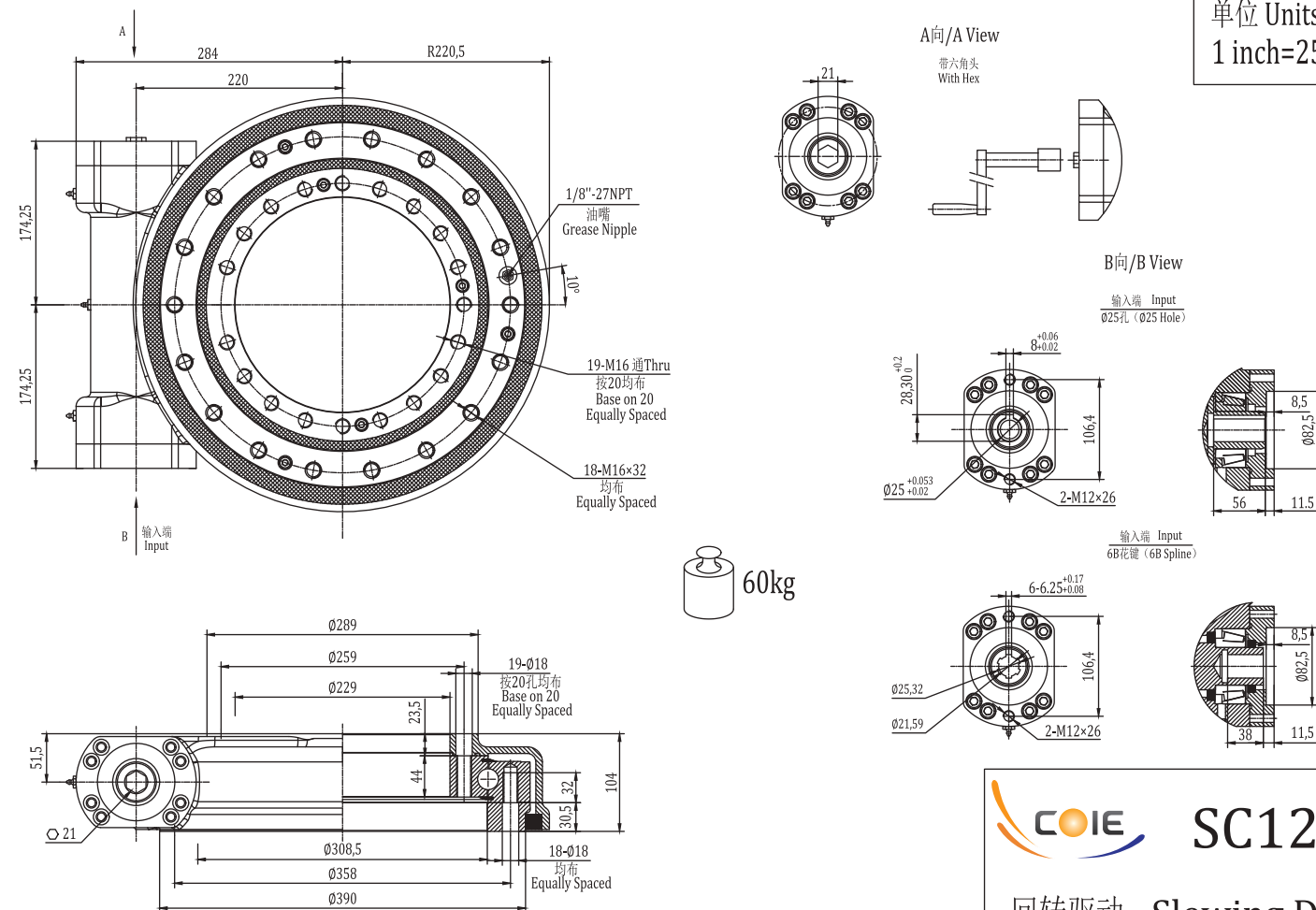


SC9 回转驱动性能参数 Slewing Drive Performance Parameters

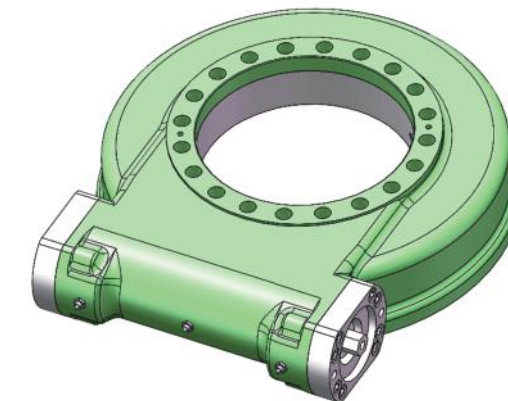
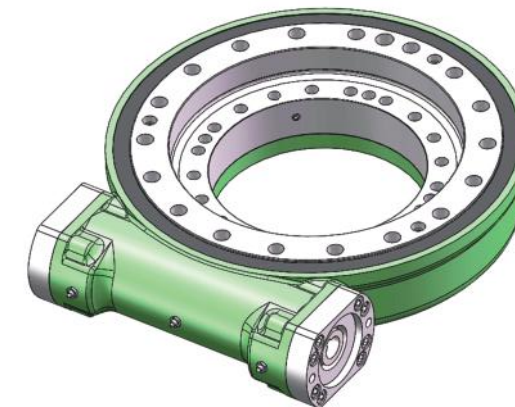
减速比	Gear Ratio	61:1	
最大输出转矩	Output Torque (max.)	12.2 kN.m	9.0×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	33.9 kN.m	25×10 ³ lbf.ft
保持力矩	Holding Torque	38.7 kN.m	28.5×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	338 kN	20.3×10 ³ lbf
径向静载荷	Static Radial Load Rating	135 kN	15.9×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	



单位 Units: mm
1 inch=25.4mm

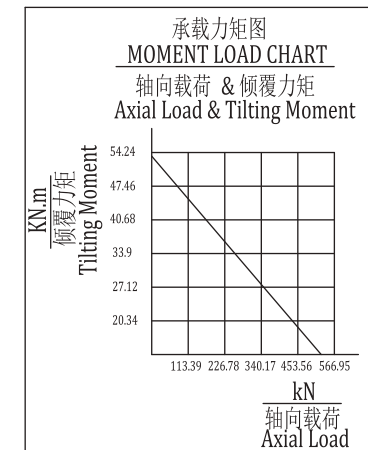


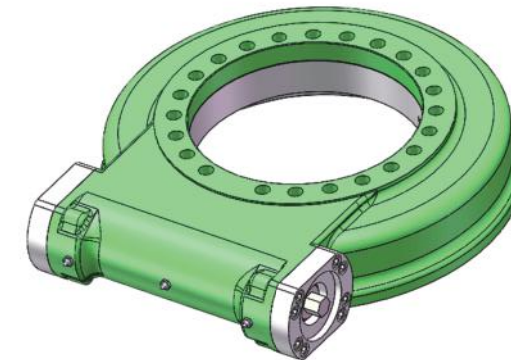
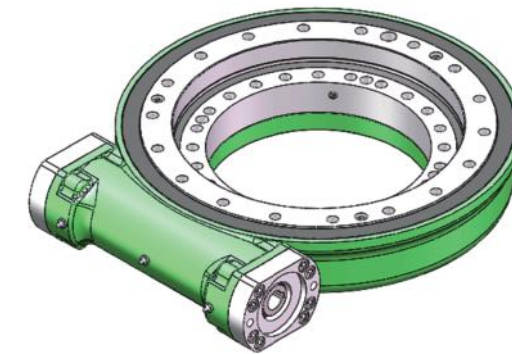
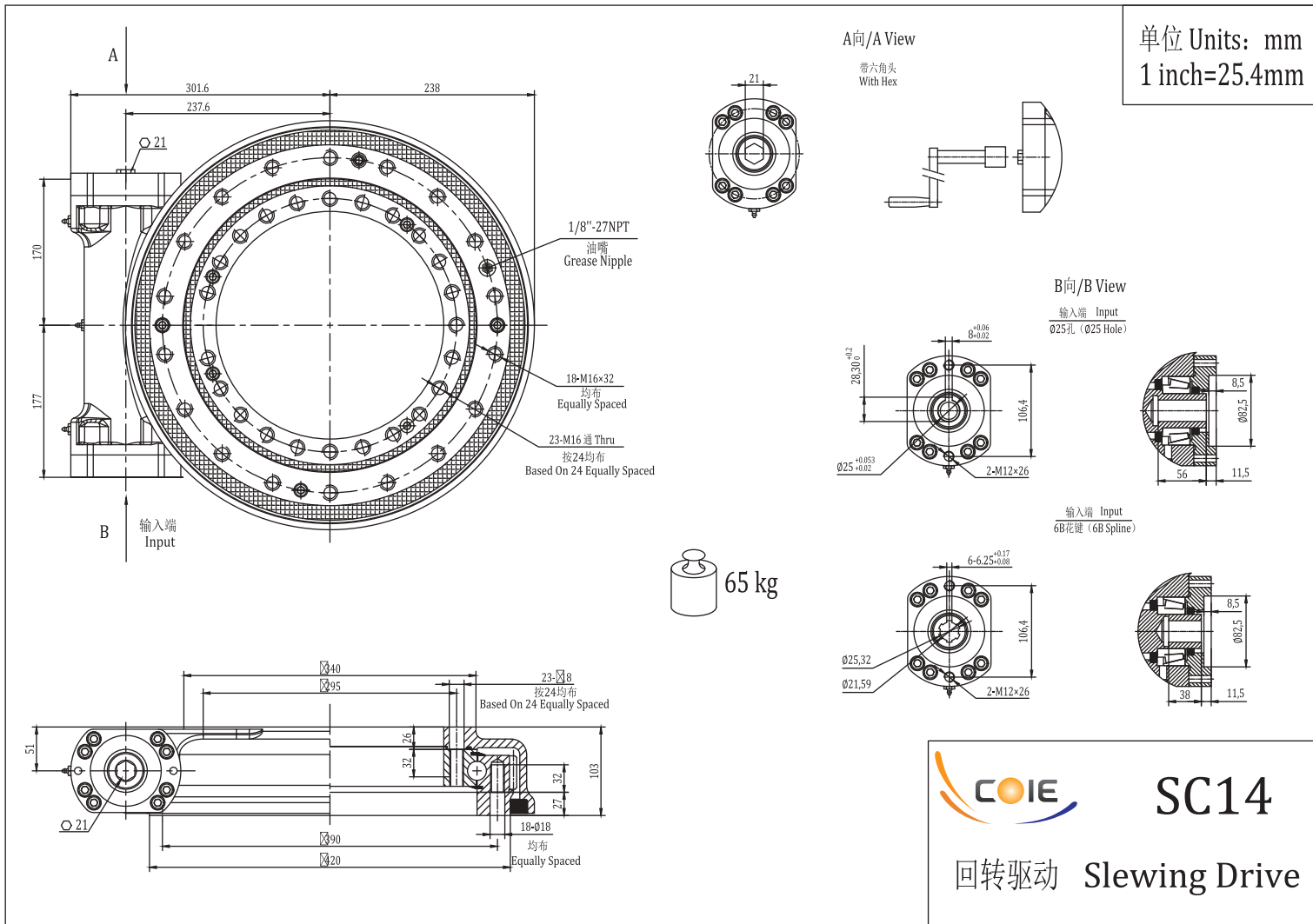
COIE SC12
回转驱动 Slewing Drive



SC12 回转驱动性能参数 Slewing Drive Performance Parameters

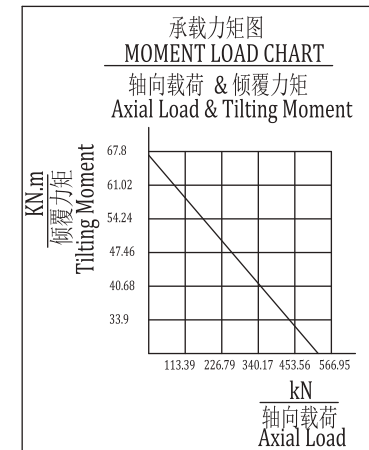
减速比	Gear Ratio	78:1	
最大输出转矩	Output Torque (max.)	15.6 kN.m	11.5×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	54.3 kN.m	40×10 ³ lbf.ft
保持力矩	Holding Torque	43 kN.m	31.7×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	475 kN	106.8×10 ³ lbf
径向静载荷	Static Radial Load Rating	190 kN	42.7×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	

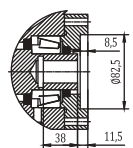




SC14 回转驱动性能参数 Slewing Drive Performance Parameters

减速比	Gear Ratio	85:1	
最大输出转矩	Output Torque (max.)	17 kN.m	12.5×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	67.8 kN.m	50×10 ³ lbf.ft
保持力矩	Holding Torque	48 kN.m	42×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	555 kN	124.9×10 ³ lbf
径向静载荷	Static Radial Load Rating	222 kN	49.9×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	





回转驱动 Slewing Drive

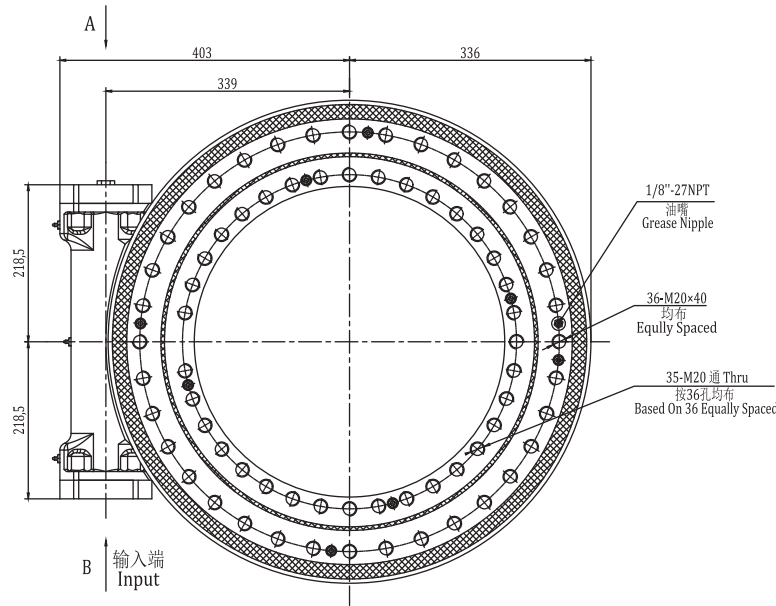
承载力矩图
MOMENT LOAD CHART

轴向载荷 & 倾覆力矩
Axial Load & Tilting Moment

Y-axis: 倾覆力矩 (kN.m)
X-axis: 轴向载荷 (kN)

轴向载荷 (kN)	倾覆力矩 (kN.m)
194	135.6
388	90.4
582	45.2
776	22.6
970	0

单位 Units: mm
1 inch=25.4mm

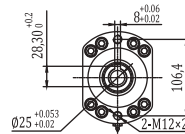


120 kg

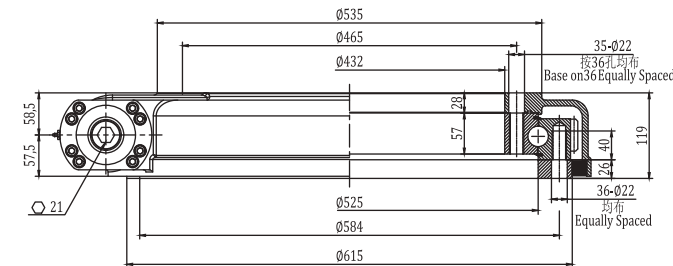
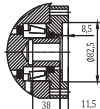
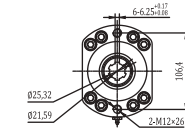
A向/A View
带六角头
With Hex

B向/B View

输入端 Input
Ø25孔 (Ø25 Hole)

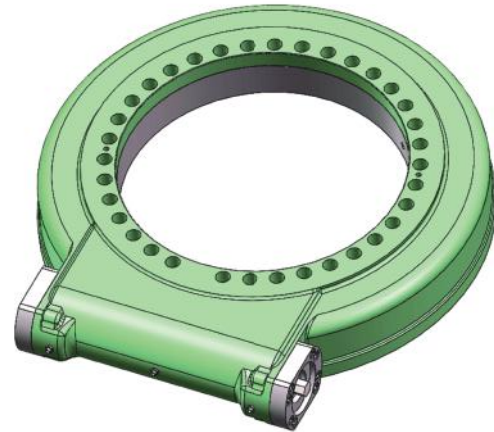
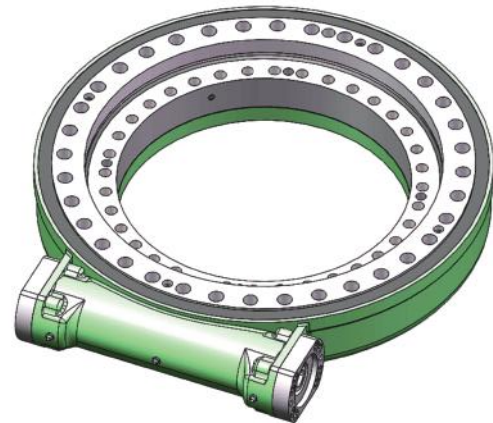


输入端 Input
68花键 (68 Spline)



SC21

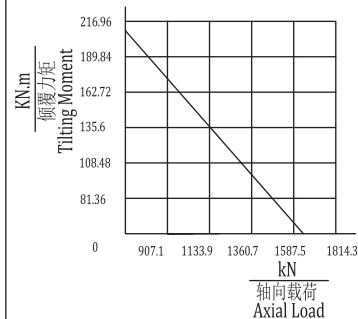
回转驱动 Slewing Drive

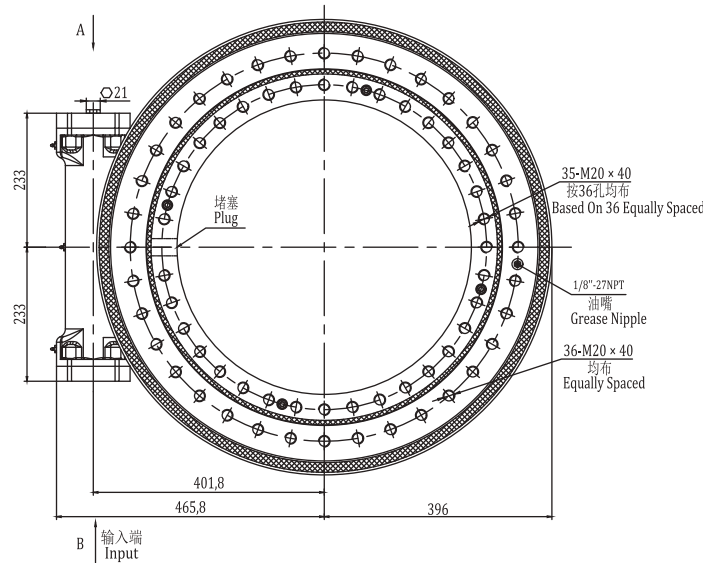


SC21 回转驱动性能参数 Slewing Drive Performance Parameters

减速比	Gear Ratio	125:1	
最大输出转矩	Output Torque (max.)	25 kN.m	18.5×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	203 kN.m	149.7×10 ³ lbf.ft
保持力矩	Holding Torque	105.8 kN.m	78×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	1598 kN	359.6×10 ³ lbf
径向静载荷	Static Radial Load Rating	640 kN	144×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	

承载力矩图
MOMENT LOAD CHART
轴向载荷 & 倾覆力矩
Axial Load & Tilting Moment

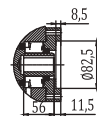
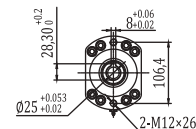




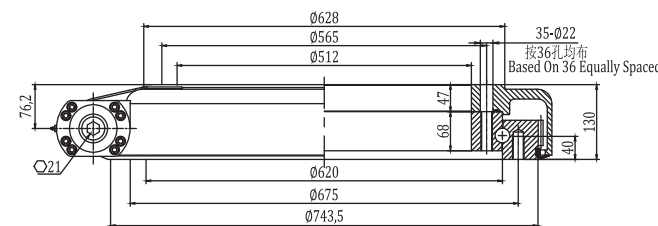
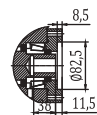
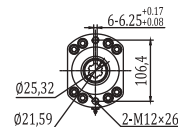
A向/A View
带六角头
With Hex



B向/B View
输入端 Input
Ø25孔 (Ø25 Hole)



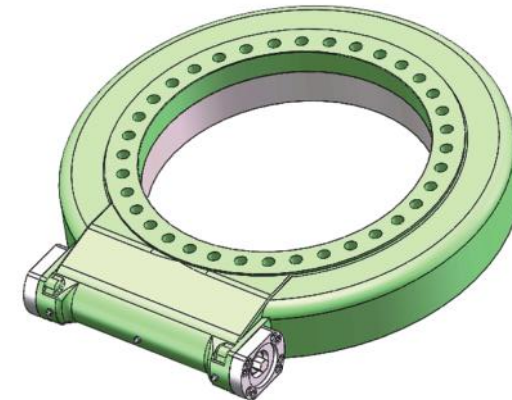
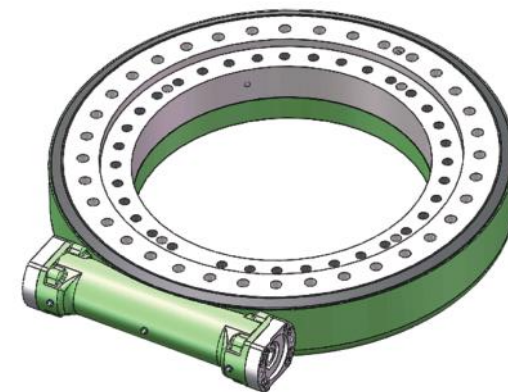
输入端 Input
6B花键 (6B Spline)



SC25

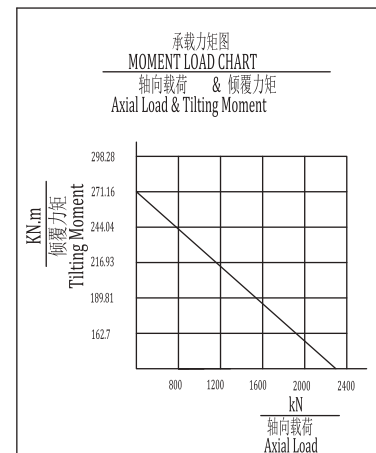
回转驱动 Slewing Drive

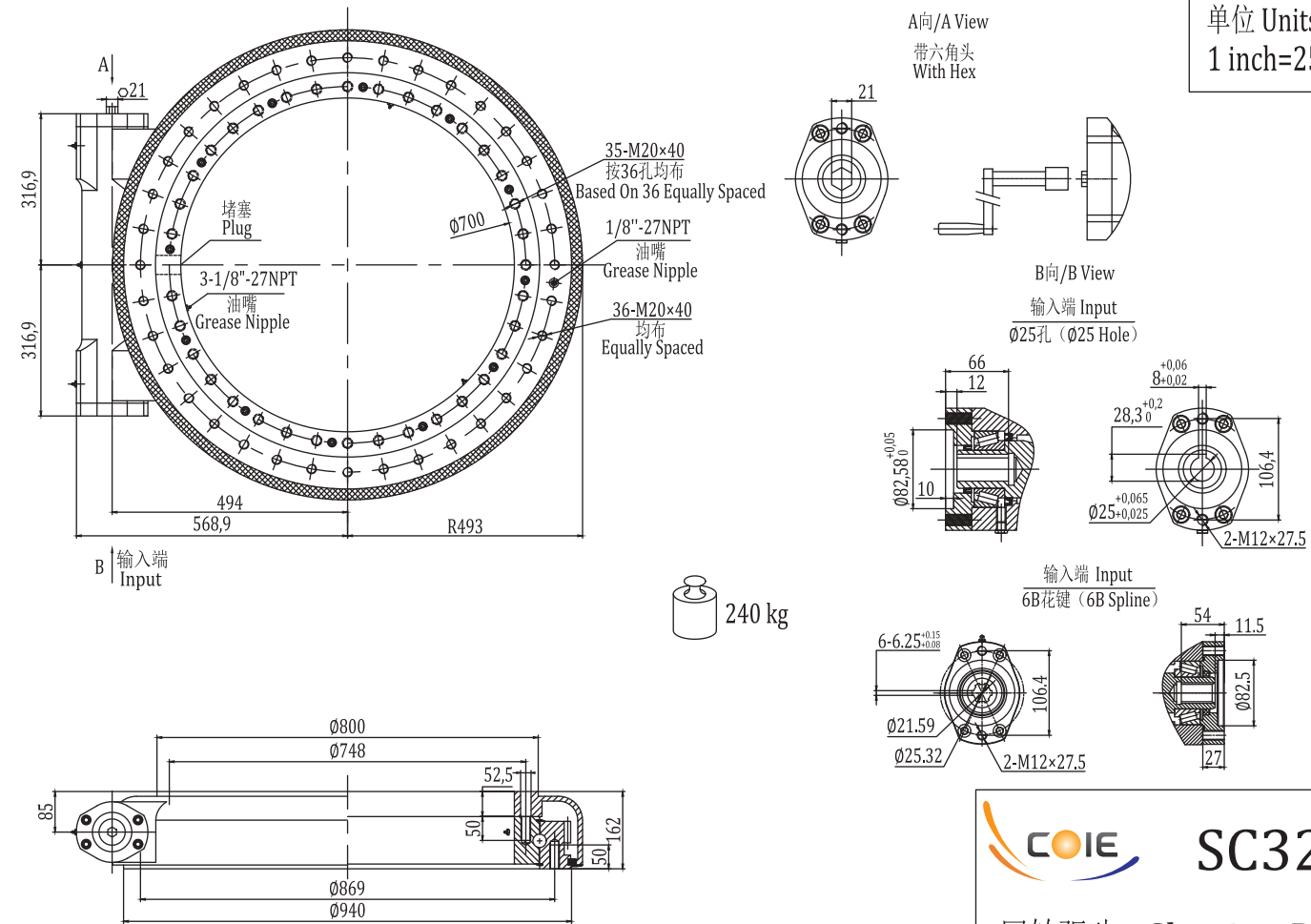
单位 Units: mm
1 inch=25.4mm



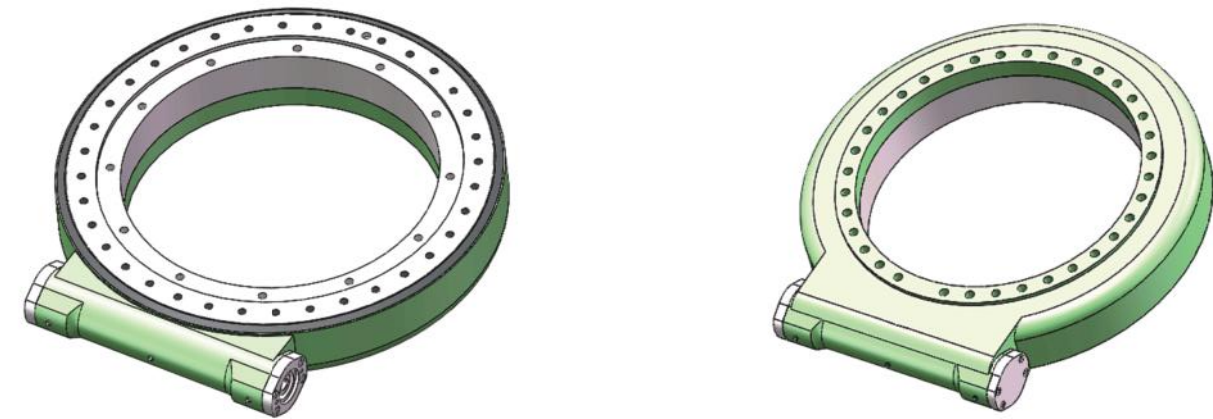
SC25 回转驱动性能参数 Slewing Drive Performance Parameters

减速比	Gear Ratio	150:1	
最大输出转矩	Output Torque (max.)	30 kN.m	22.1×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	203 kN.m	199.9×10 ³ lbf.ft
保持力矩	Holding Torque	158.3 kN.m	116.8×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	2360 kN	531×10 ³ lbf
径向静载荷	Static Radial Load Rating	945 kN	212.6×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁 Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	



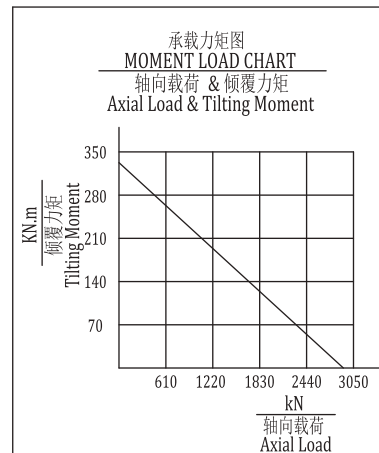


SC32
回转驱动 Slewing Drive

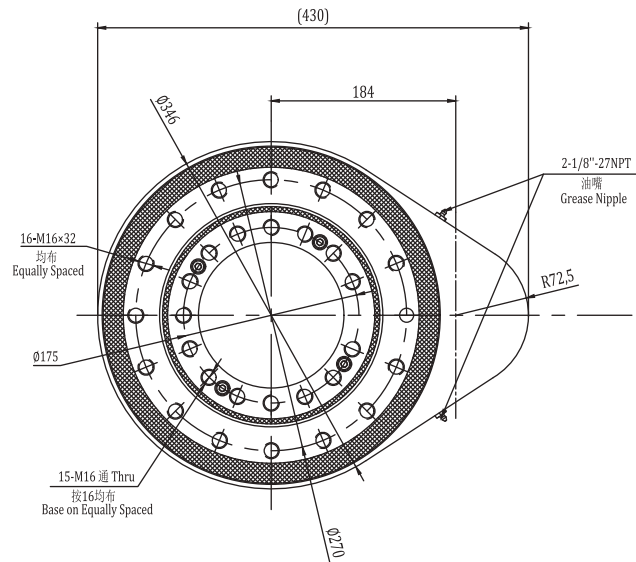


SC32 回转驱动性能参数 Slewing Drive Performance Parameters

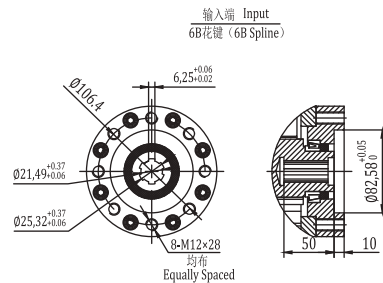
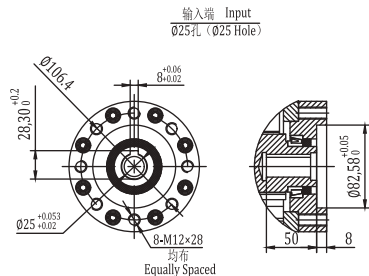
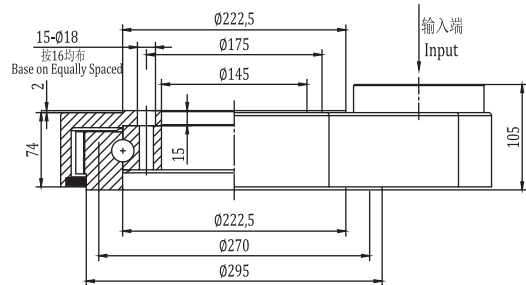
减速比	Gear Ratio	154:1	
最大输出转矩	Output Torque (max.)	32 kN.m	23.6×10^3 lbf.ft
最大倾覆力矩	Tilting Moment (max.)	347 kN.m	256×10^3 lbf.ft
保持力矩	Holding Torque	190 kN.m	140×10^3 lbf.ft
轴向静载荷	Static Axial Load Rating	3021 kN	680×10^3 lbf
径向静载荷	Static Radial Load Rating	1210 kN	272×10^3 lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	$\leq 0.2^\circ$	
防护等级	IP Class	IP65	



单位 Units: mm
1 inch=25.4mm

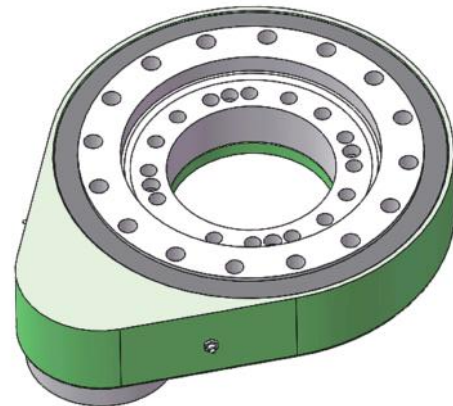
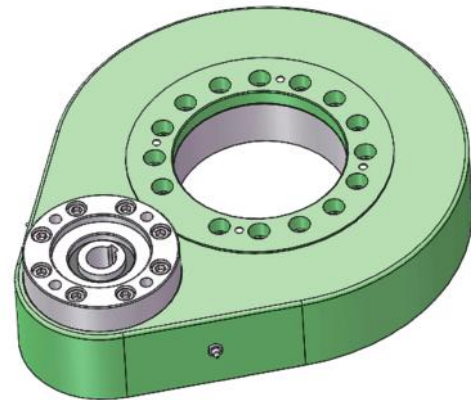


37kg



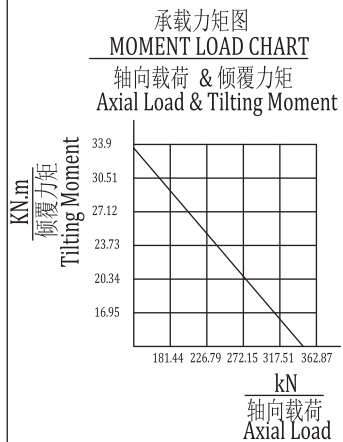
SP9

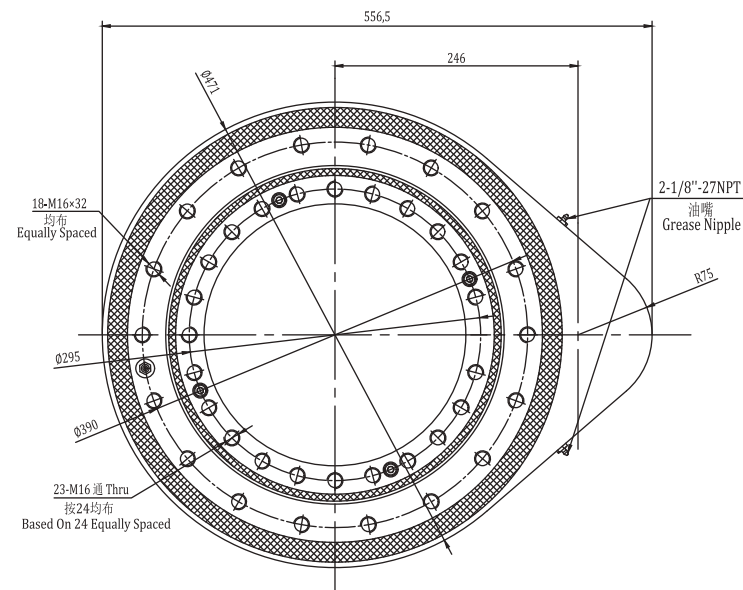
回转驱动 Slewing Drive



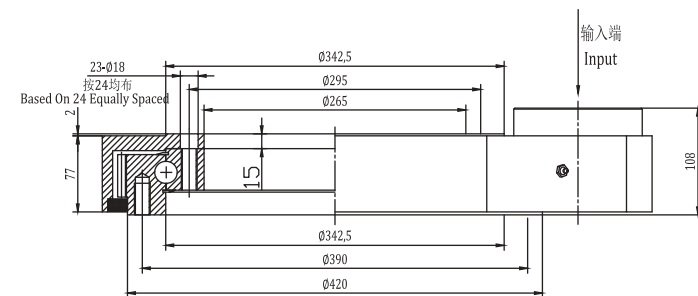
SP9 回转驱动性能参数 Slewing Drive Performance Parameters

减速比	Gear Ratio	5:1	
最大输出转矩	Output Torque (max.)	3 kN.m	2.2×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	33.9 kN.m	25×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	338 kN	76.1×10 ³ lbf
径向静载荷	Static Radial Load Rating	135 kN	30.4×10 ³ lbf
机械效率	Mechanical Efficiency	85%~95%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	

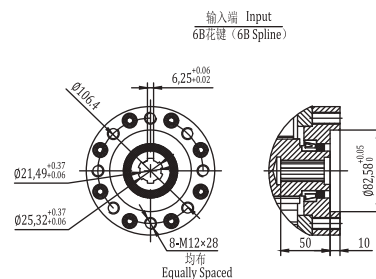
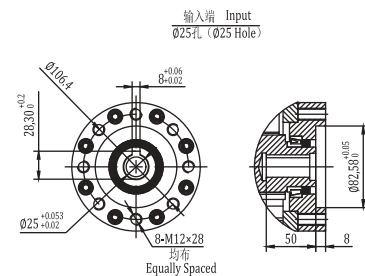




56 kg

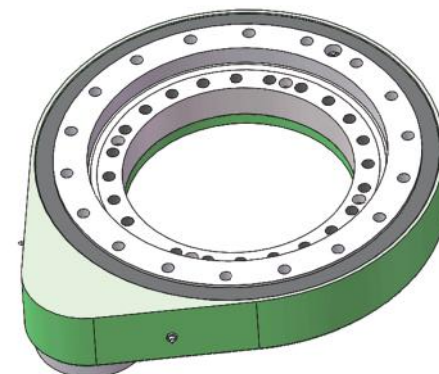
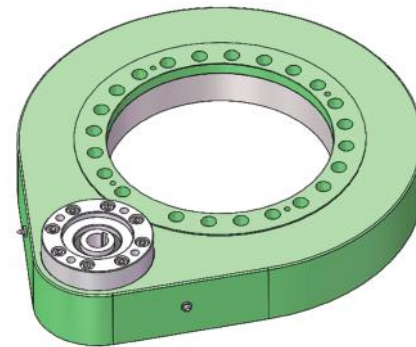


単位 Units: mm
1 inch=25.4mm



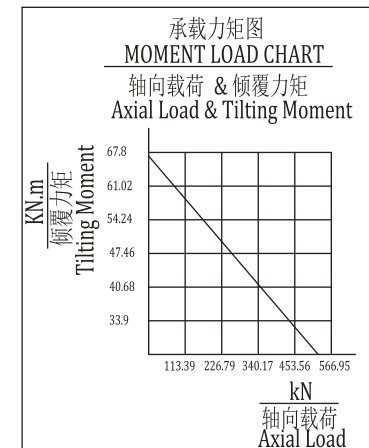
SP14

回转驱动 Slewing Drive

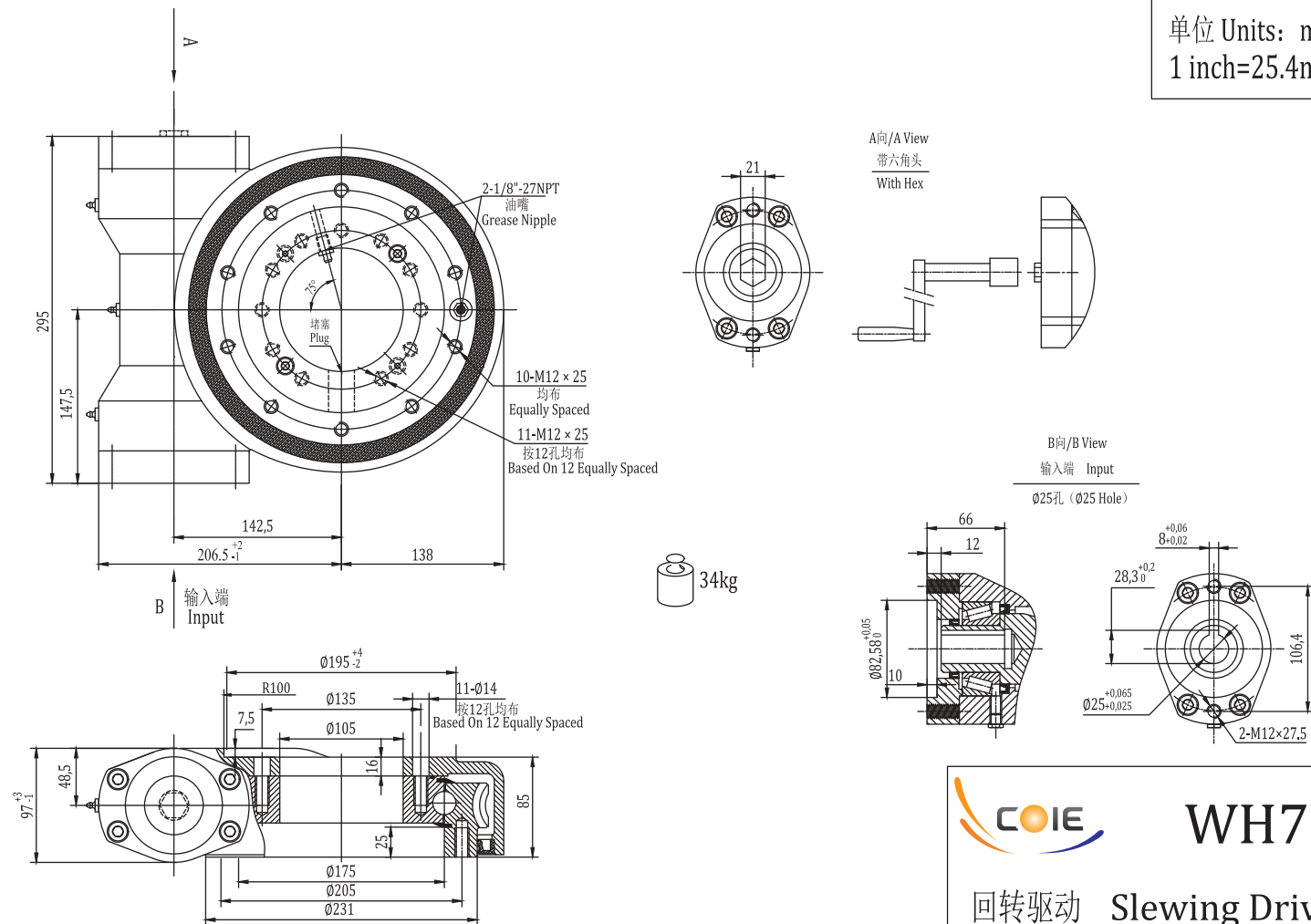


SP14 回转驱动性能参数 Slewing Drive Performance Parameters

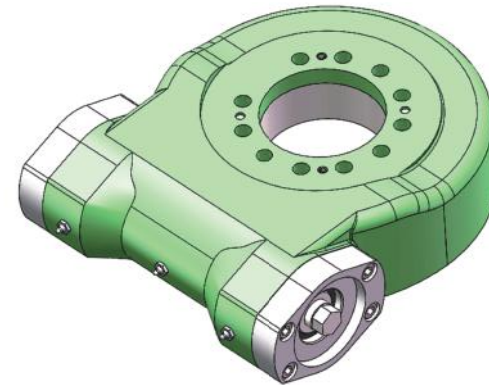
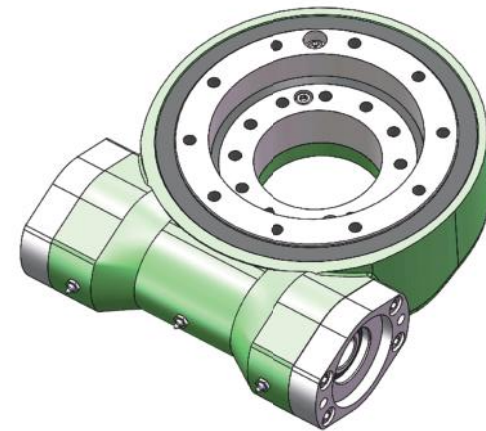
减速比	Gear Ratio	7.2:1	
最大输出转矩	Output Torque (max.)	4 kN.m	2.95×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	67.8 kN.m	50×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	555 kN	124.9×10 ³ lbf
径向静载荷	Static Radial Load Rating	222 kN	11.9×10 ³ lbf
机械效率	Mechanical Efficiency	85%~95%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	



单位 Units: mm
1 inch=25.4mm

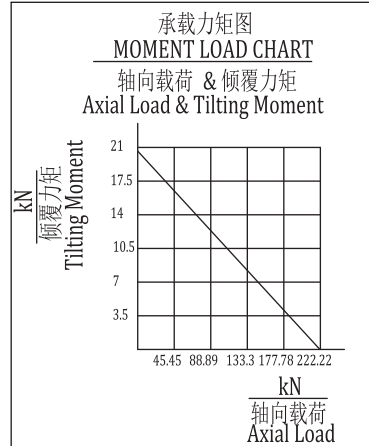


COIE WH7
回转驱动 Slewing Drive

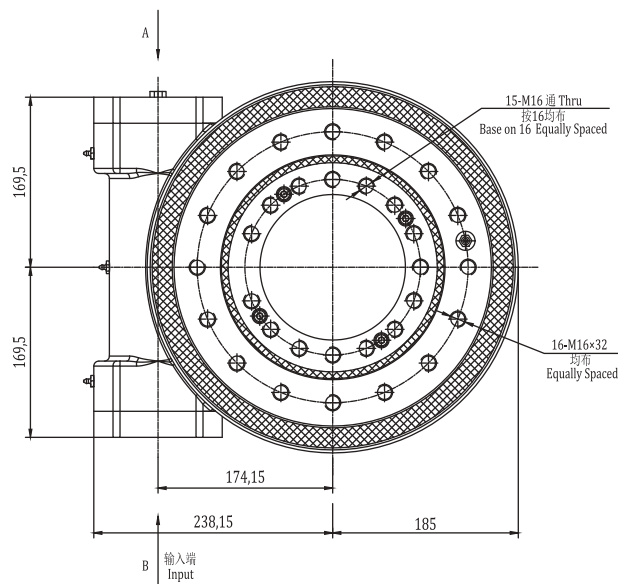


WH7 回转驱动性能参数 Slewing Drive Performance Parameters

减速比	Gear Ratio	47:1	
最大输出转矩	Output Torque (max.)	11.2 kN.m	8.27×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	20.8 kN.m	15.35×10 ³ lbf.ft
保持力矩	Holding Torque	24 kN.m	17.71×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	220 kN	49.5×10 ³ lbf
径向静载荷	Static Radial Load Rating	90 kN	20.25×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	



单位 Units: mm
1 inch=25.4mm



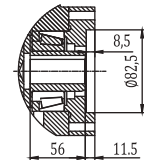
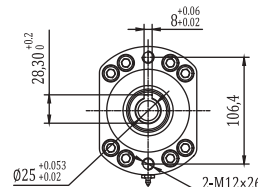
A向/A View

带六角头
With Hex

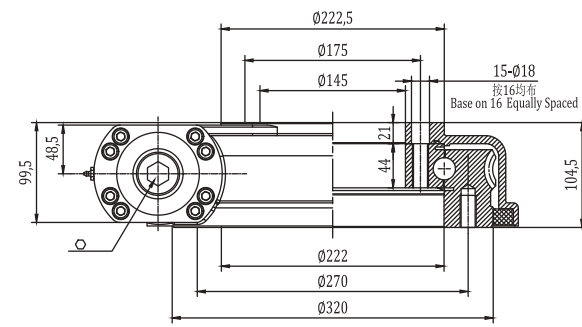
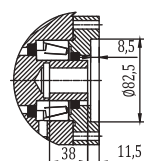
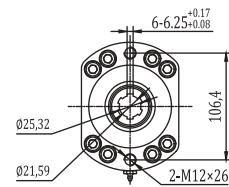


B向/B View

输入端 Input
Ø25孔 (Ø25 Hole)

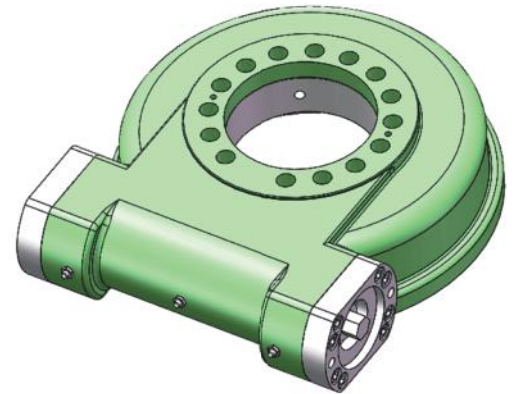
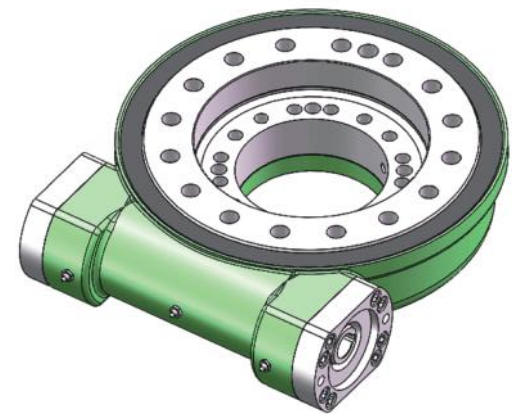


输入端 Input
6B花键 (6B Spline)



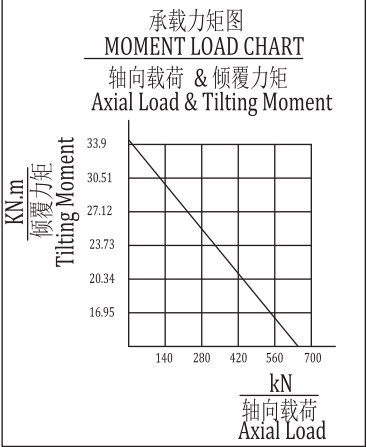
WH9

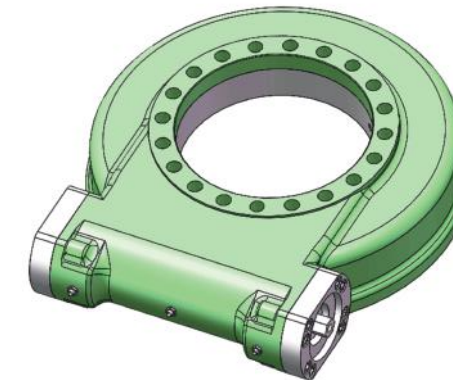
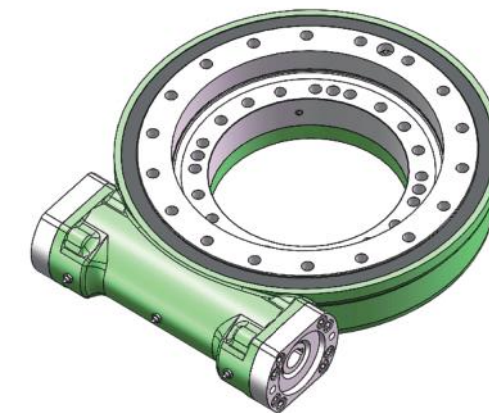
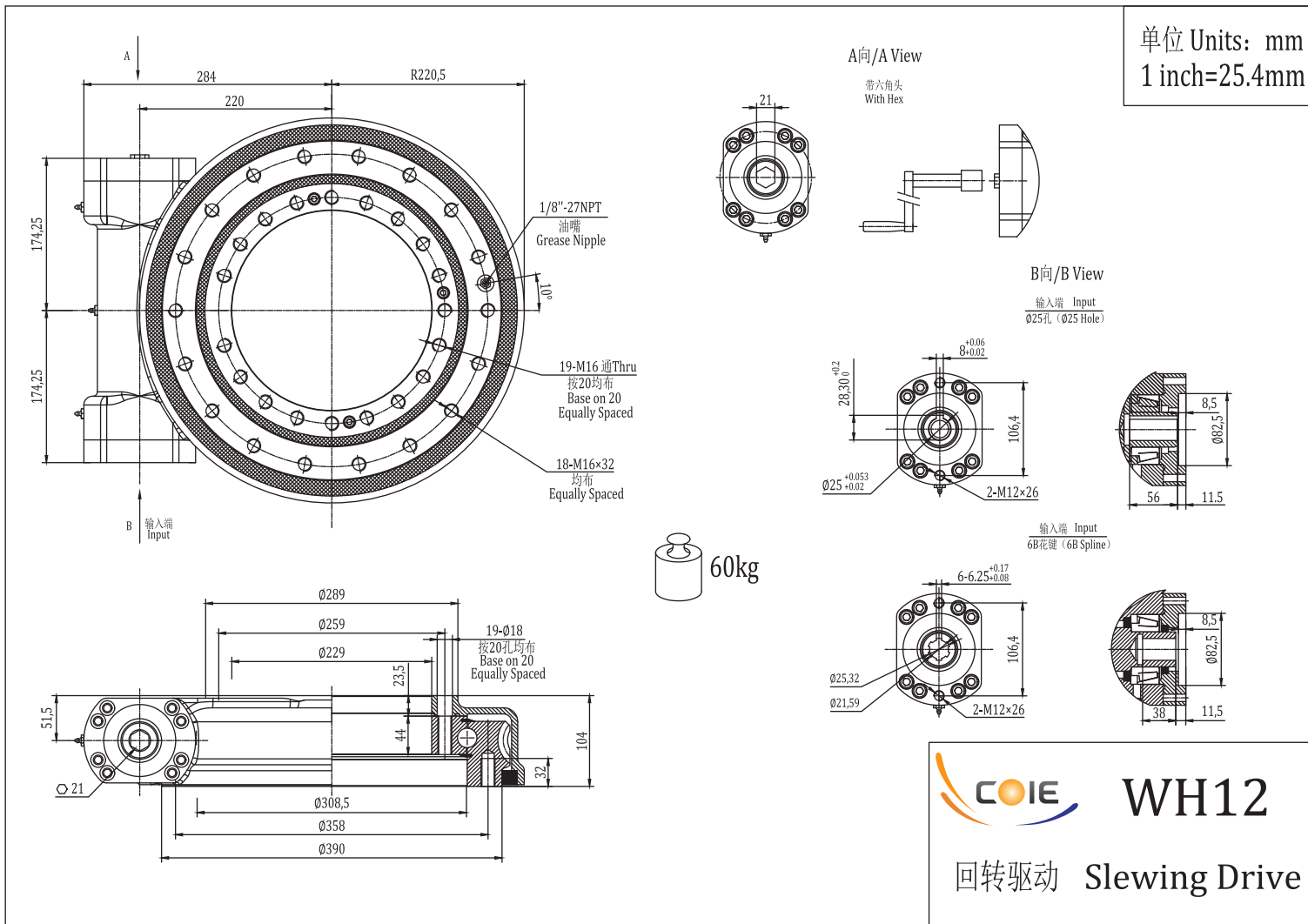
回转驱动 Slewing Drive



WH9 回转驱动性能参数 Slewing Drive Performance Parameters

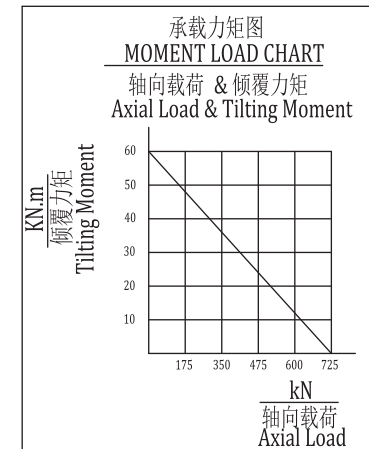
减速比	Gear Ratio	59:1	
最大输出转矩	Output Torque (max.)	14.2 kN.m	10.5×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	41.2 kN.m	30.4×10 ³ lbf.ft
保持力矩	Holding Torque	38.7 kN.m	28.5×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	670 kN	150.7×10 ³ lbf
径向静载荷	Static Radial Load Rating	280 kN	63×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	





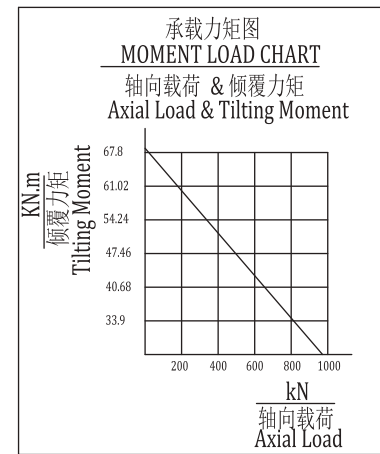
WH12 回转驱动性能参数 Slewing Drive Performance Parameters

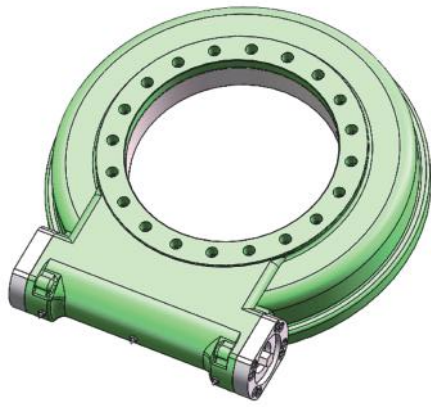
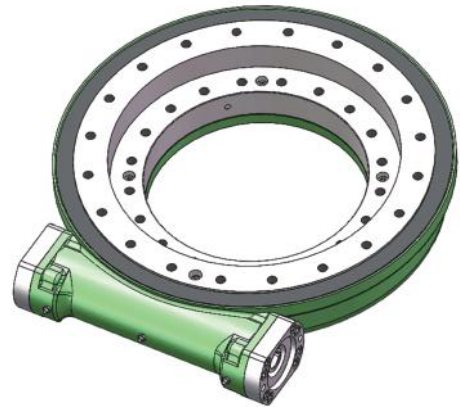
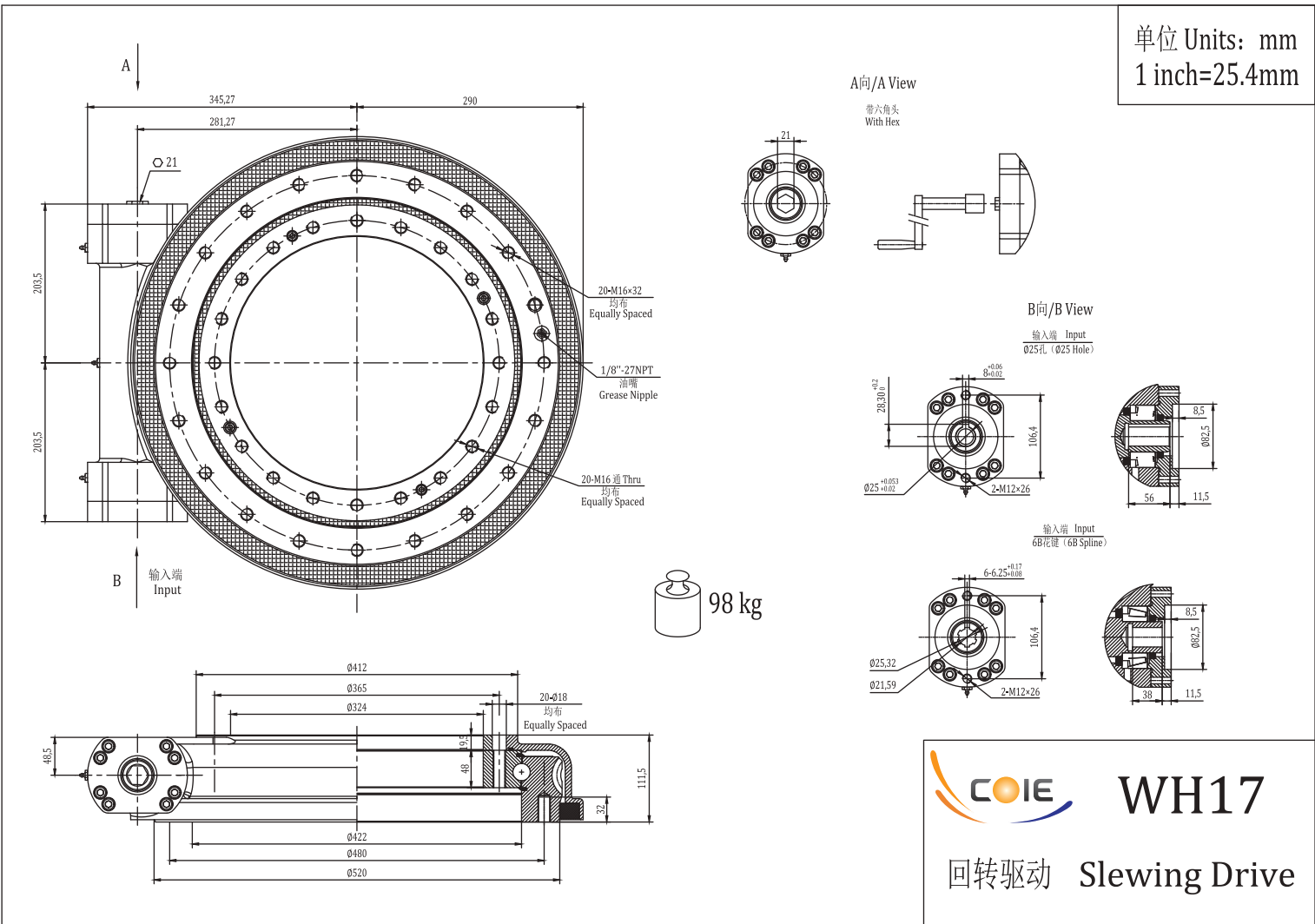
减速比	Gear Ratio	77:1	
最大输出转矩	Output Torque (max.)	18.5 kN.m	13.7 $\times 10^3$ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	60 kN.m	44.3 $\times 10^3$ lbf.ft
保持力矩	Holding Torque	51.2 kN.m	37.8 $\times 10^3$ lbf.ft
轴向静载荷	Static Axial Load Rating	725 kN	163.1 $\times 10^3$ lbf
径向静载荷	Static Radial Load Rating	270 kN	60.7 $\times 10^3$ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	$\leq 0.2^\circ$	
防护等级	IP Class	IP65	



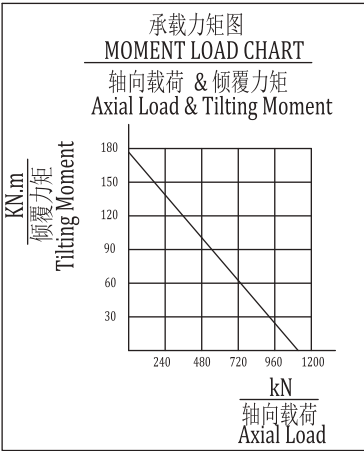


回转驱动性能参数			
WH14 Slewing Drive Performance Parameters			
减速比	Gear Ratio	84:1	
最大输出转矩	Output Torque (max.)	20.1 kN.m	14.8×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	72 kN.m	53×10 ³ lbf.ft
保持力矩	Holding Torque	56 kN.m	41.3×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	970 kN	218×10 ³ lbf
径向静载荷	Static Radial Load Rating	380 kN	85.5×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	

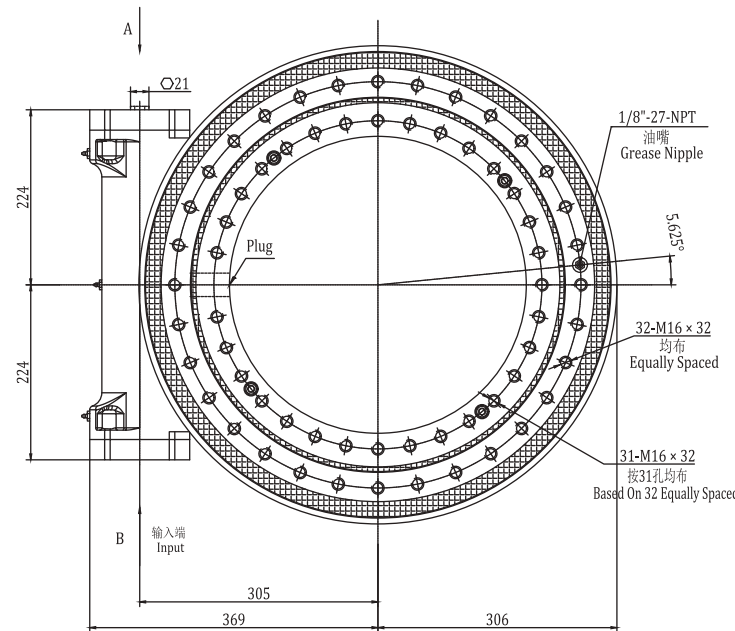




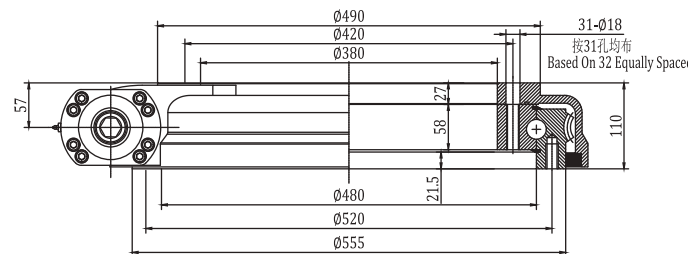
WH17 回转驱动性能参数 Slewing Drive Performance Parameters			
减速比	Gear Ratio	102:1	
最大倾覆力矩	Output Torque (max.)	26.5 kN.m	19.6×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	178.3 kN.m	132×10 ³ lbf.ft
保持力矩	Holding Torque	88.2 kN.m	65.1×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	1130 kN	254.2×10 ³ lbf
径向静载荷	Static Radial Load Rating	452 kN	101.7×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	



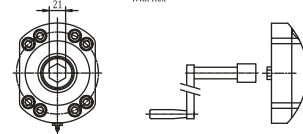
单位 Units: mm
1 inch=25.4mm



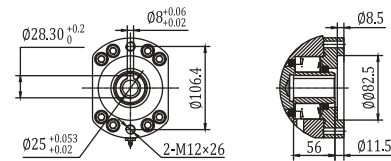
112kg



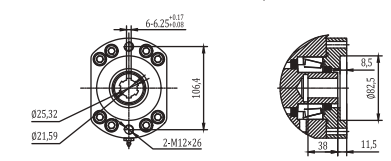
A向/A View
带六角头
With Hex



B向/B View
输入端 Input
Ø25孔 (Ø25 Hole)

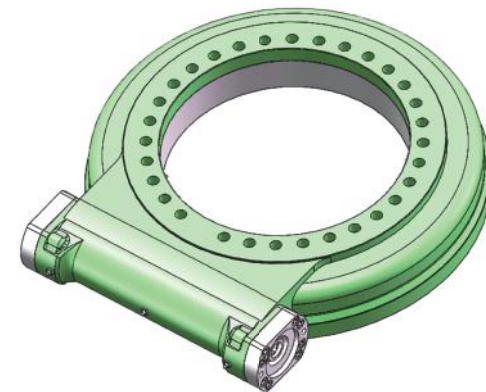
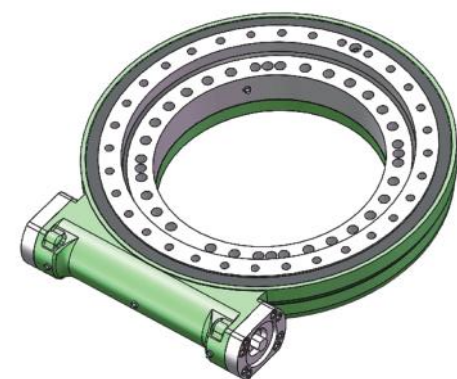


输入端 Input
6B花键 (6B Spline)



WH19

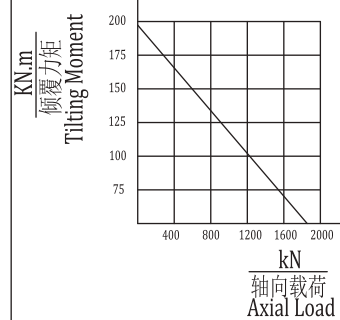
回转驱动 Slewing Drive

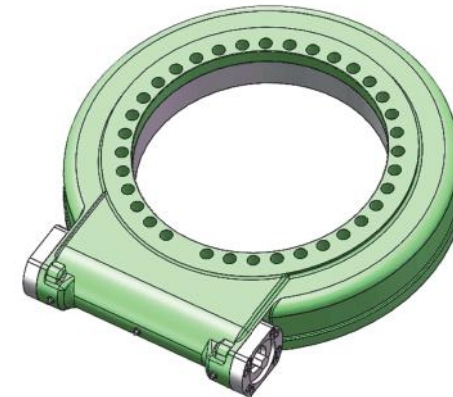
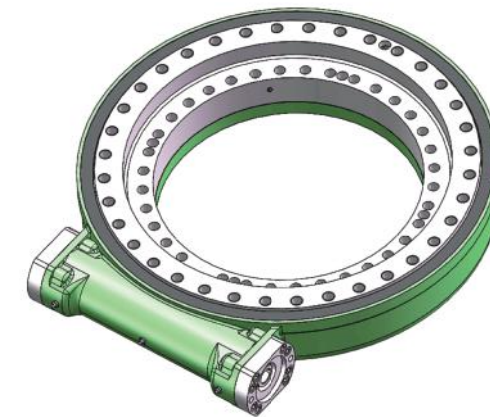
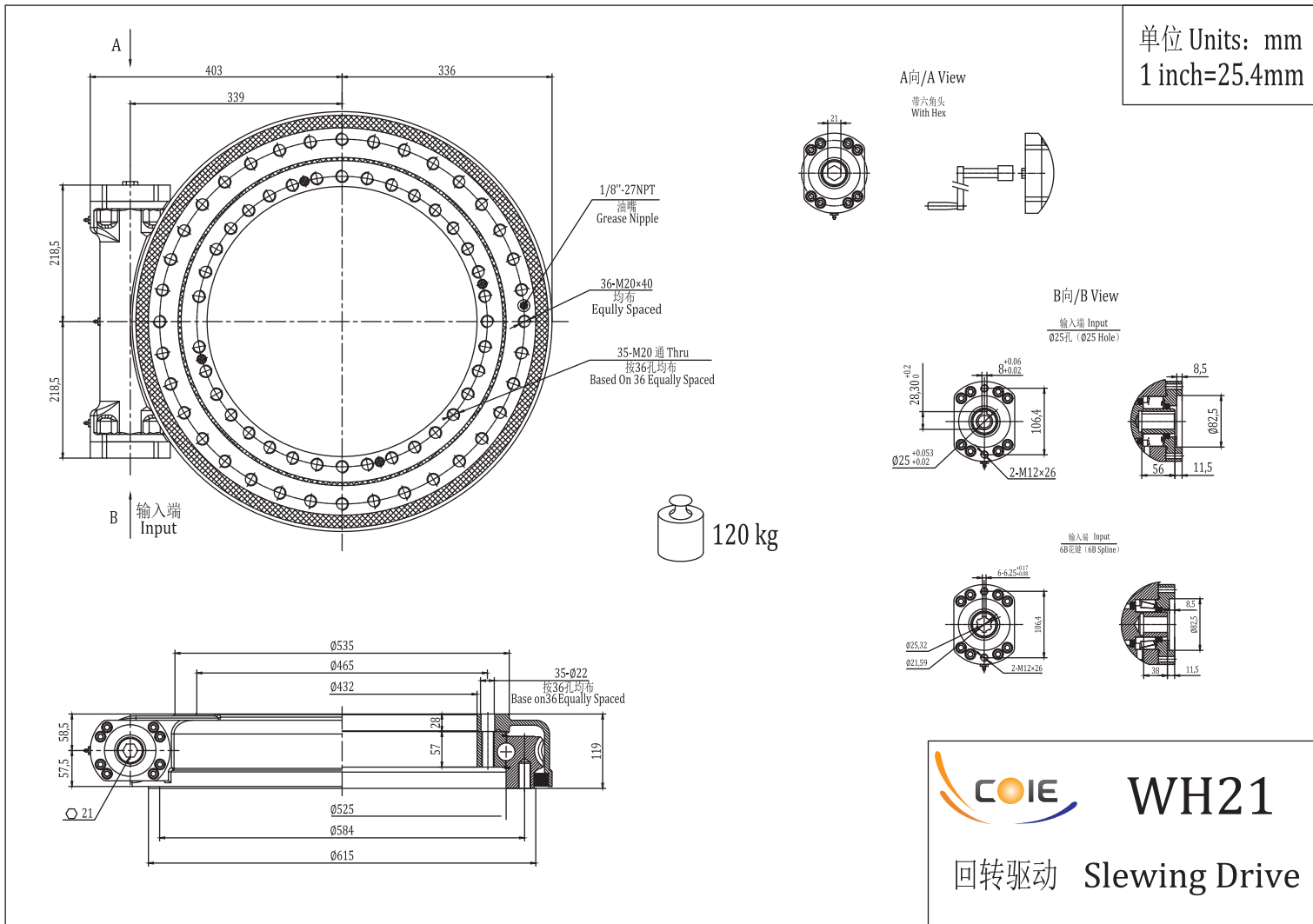


WH19 回转驱动性能参数 Slewing Drive Performance Parameters

减速比	Gear Ratio	92:1	
最大输出转矩	Output Torque (max.)	28 kN.m	20.7×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	196 kN.m	144.5×10 ³ lbf.ft
保持力矩	Holding Torque	80.1 kN.m	59.1×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	1800 kN	404.6×10 ³ lbf
径向静载荷	Static Radial Load Rating	675 kN	151.7×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	

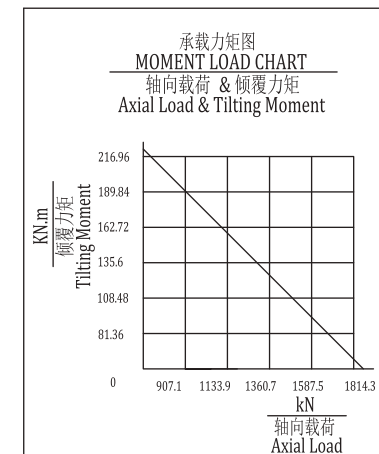
承载力矩图 MOMENT LOAD CHART 轴向载荷 & 倾覆力矩 Axial Load & Tilting Moment

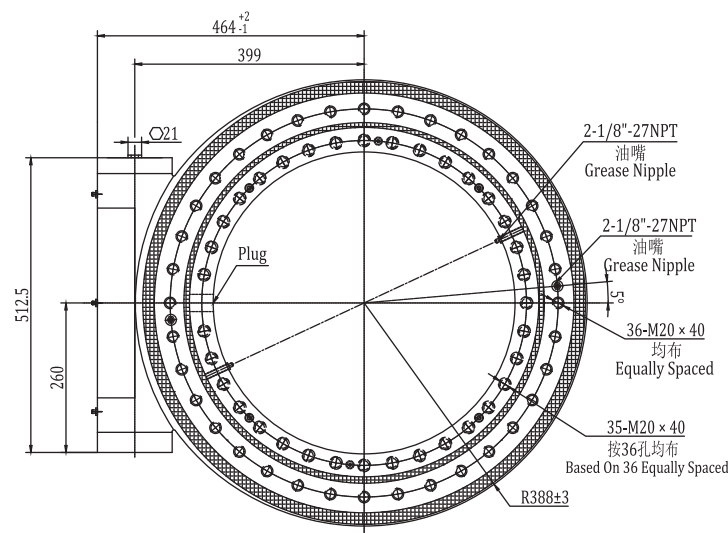




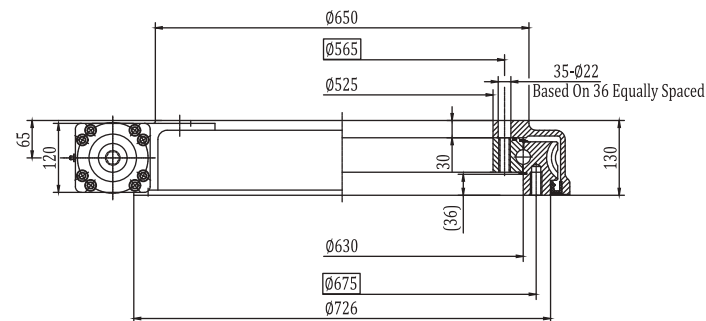
WH21 回转驱动性能参数 Slewing Drive Performance Parameters

减速比	Gear Ratio	125:1	
最大输出转矩	Output Torque (max.)	30 kN.m	22.1×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	223 kN.m	164.6×10 ³ lbf.ft
保持力矩	Holding Torque	140 kN.m	103.3×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	1917 kN	431.3×10 ³ lbf
径向静载荷	Static Radial Load Rating	768 kN	172.8×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	

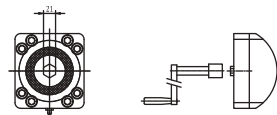




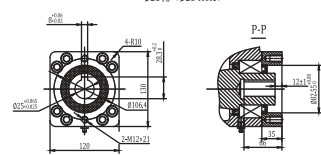
210 kg



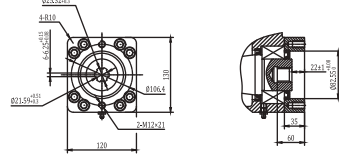
A向/A View
带六角头
With Hex



B向/B View
输入端 Input
 $\phi 25$ 孔 ($\phi 25$ Hole)



输入端 Input
6B花键 (6B Spline)

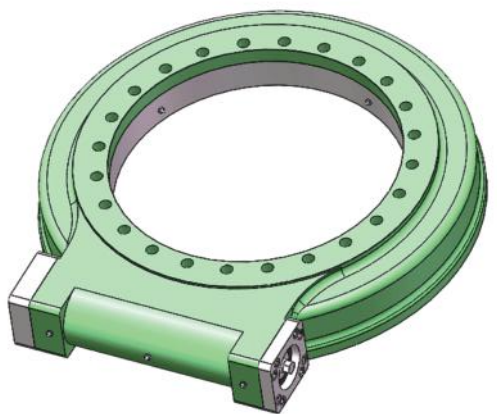
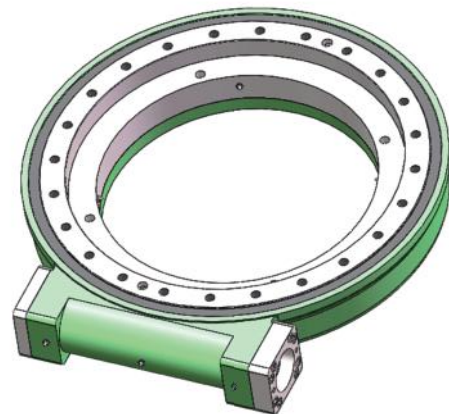


单位 Units: mm
1 inch=25.4mm



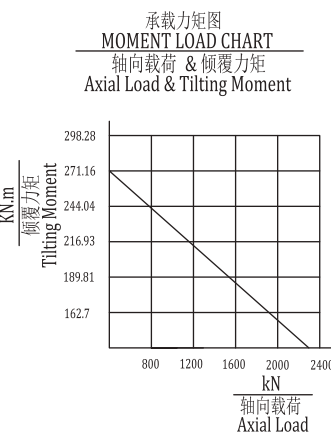
WH25

回转驱动 Slewing Drive

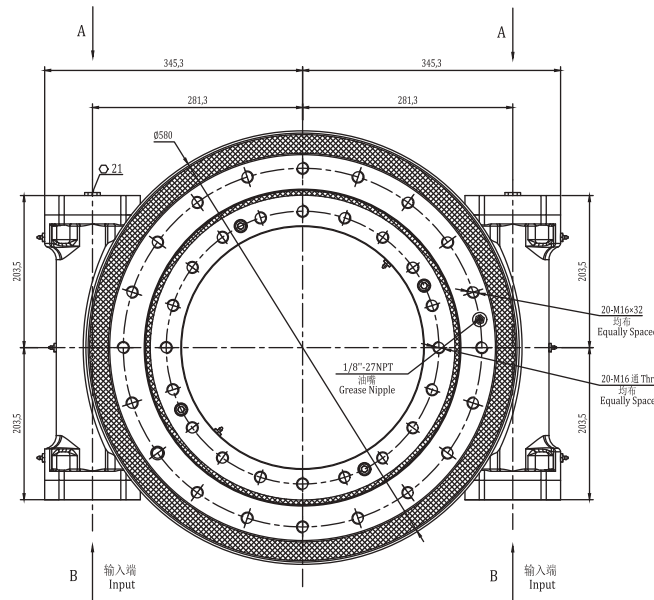


WH25 回转驱动性能参数

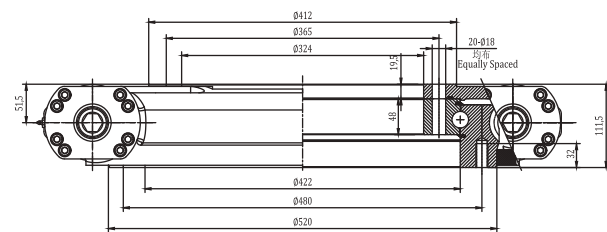
减速比	Gear Ratio	104:1	
最大输出转矩	Output Torque (max.)	32 kN.m	23.6×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	286 kN.m	221.4×10 ³ lbf.ft
保持力矩	Holding Torque	224.7 kN.m	165.8×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	2680 kN	603×10 ³ lbf
径向静载荷	Static Radial Load Rating	1120 kN	252×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	



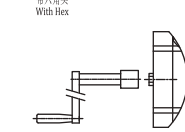
单位 Units: mm
1 inch=25.4mm



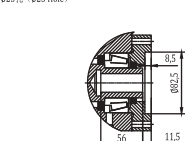
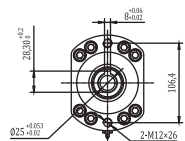
117 kg



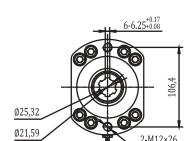
A向/A View
带六角头
With Hex



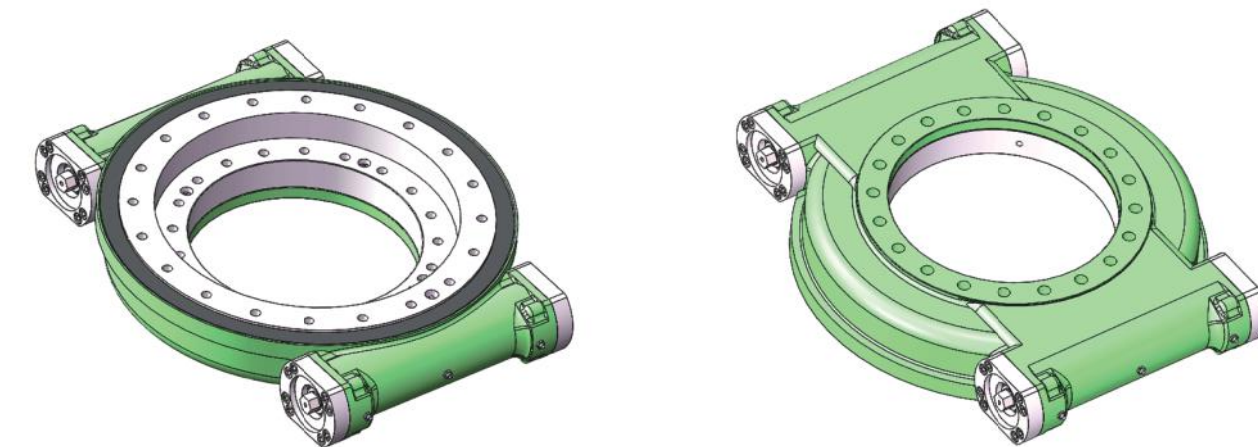
B向/B View
输入轴 Input
Ø25.1L (Ø25 Hole)



输入轴 Input
6B花键 (6B Spline)



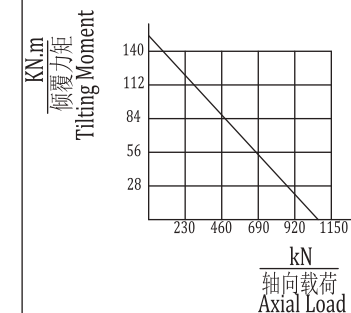
COIE WH17-2
回转驱动 Slewing Drive

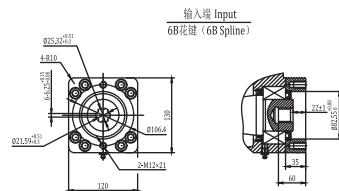
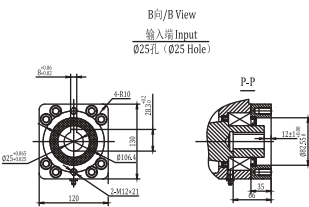
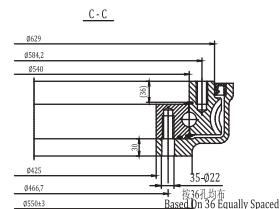
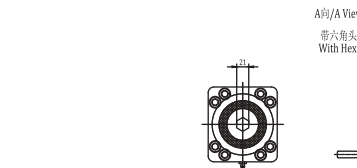
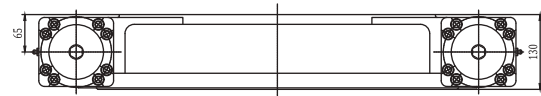


回转驱动性能参数 WH17-2 Slewing Drive Performance Parameters

减速比	Gear Ratio	102:1	
最大输出转矩	Output Torque (max.)	32.6 kN.m	24.1×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	160 kN.m	118×10 ³ lbf.ft
保持力矩	Holding Torque	152 kN.m	112.2×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	1110 kN	249.8×10 ³ lbf
径向静载荷	Static Radial Load Rating	414 kN	93.2×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	

承载力矩图
MOMENT LOAD CHART
轴向载荷 & 倾覆力矩
Axial Load & Tilting Moment



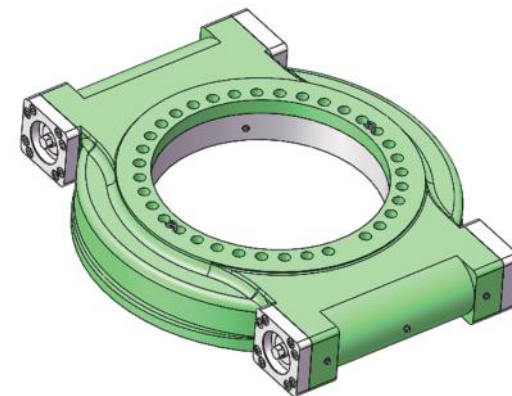
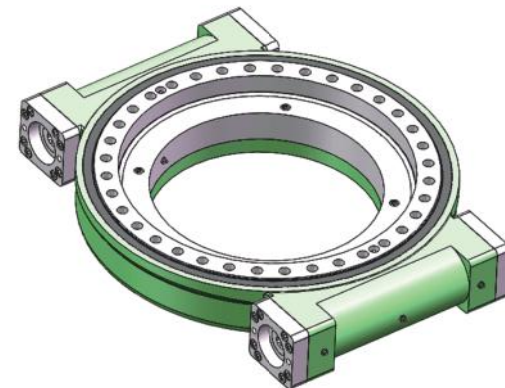


単位 Units: mm
1 inch=25.4mm



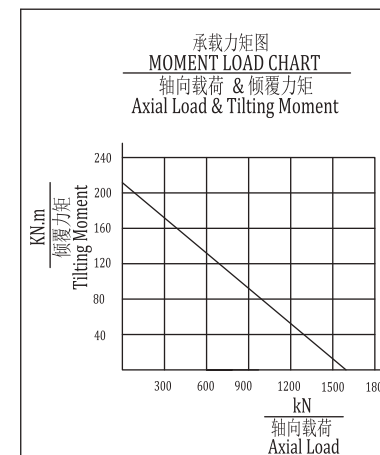
WH21-2

回转驱动 Slewing Drive



WH21-2 回转驱动性能参数 Slewing Drive Performance Parameters

减速比	Gear Ratio	90:1	
最大输出转矩	Output Torque (max.)	48 kN.m	35.4×10 ³ lbf.ft
最大倾覆力矩	Tilting Moment (max.)	203 kN.m	150×10 ³ lbf.ft
保持力矩	Holding Torque	211.6 kN.m	156×10 ³ lbf.ft
轴向静载荷	Static Axial Load Rating	1598 kN	359×10 ³ lbf
径向静载荷	Static Radial Load Rating	640kN	144×10 ³ lbf
机械效率	Mechanical Efficiency	40%	
自锁性	Self-locking	可靠的静态自锁Reliable static self-locking	
精度	Precision	≤0.2°	
防护等级	IP Class	IP65	



回转支承 Slewing Bearing / Ring



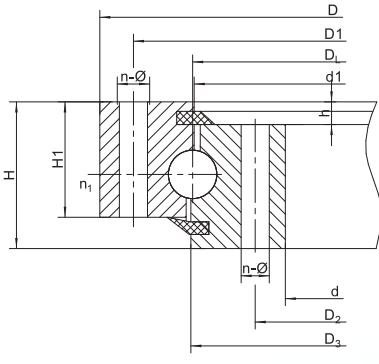
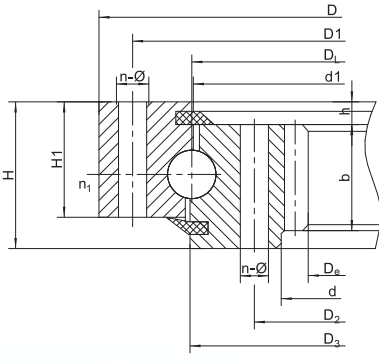
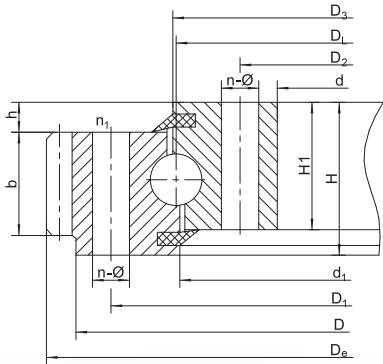
Outer Teeh 外齿型



Inner Teeth 内齿型



No Teeth 无齿型



回转支承尺寸表 Slewing Ring Dimension

基本型号 Model			外形尺寸 Outer Dimension			安装尺寸 Mounting Dimension				结构尺寸 Structure Dimension				齿轮参数 Gear Data			外齿参数 Outer Teeth Data		内齿参数 Inner Teeth Data		齿轮圆周力 Gear Circumferential Force		
无齿式 No Teeth DL mm	外齿式 Outer Teeth DL mm	内齿式 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	正火 Z 104 N	调质 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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