

CNC 分度盘产品目录

CATALOGUE OF CNC INDEXING TABLE

Catalog No. CN/EN-24-02



GIGA Precision Technology Co., Limited

Add: Room 101, Building 3, Guanrui Yungu, Gangjian Road, Changping Town,
Dongguan City, Guangdong Province, China

www.gigager.net



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设计研发能力 Design R&D capability

我们的科研团队为客户量身定做、具有高度差异化的VIP顾问服务，强调一对一的专业化系统解决方案；

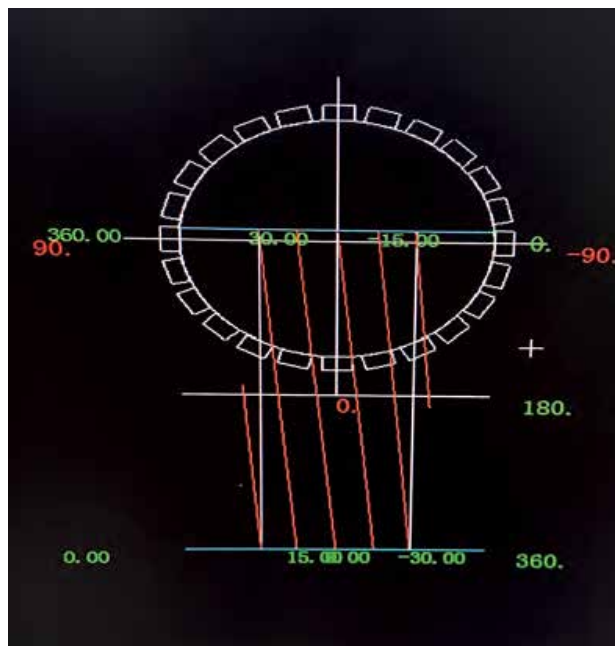
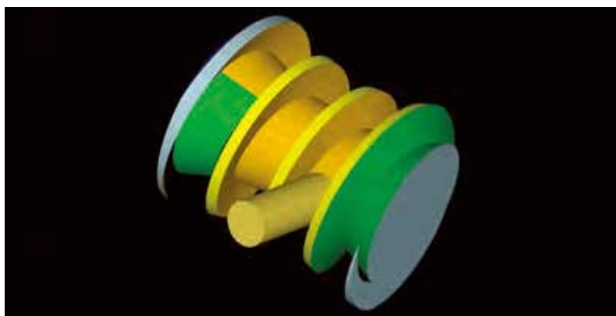
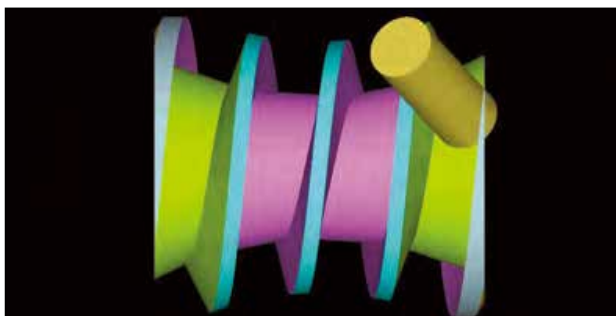
我们的管理团队时刻站在客户角度上考虑问题，我们真正尊重、关心客户；

我们的制造队伍主动挖掘和真正理解客户的需求，不断超越客户的期望。

Our scientific research team provides highly differentiated VIP consulting services tailored for customers, emphasizing one-to-one professional system solutions;

Our management team always considers problems from the perspective of customers, and we truly respect and care about customers;

Our manufacturing team actively explores and truly understands the needs of customers, and constantly exceeds customer expectations.



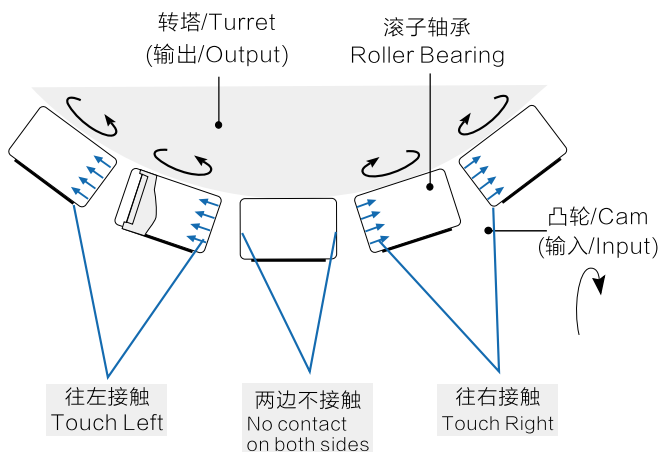
品质保证 Product assurance



零间隙驱动技术 Zero-backlash Drive Technology

特点 Features

- 零背隙
- 滚动传递无磨损
- 精度效率高
- 有预压刚性高
- Zero Backlash
- Rolling Transfer without Loss
- High Precision and High Efficiency
- High Rigidity with Preload



左右两边互锁，确保正反转零间隙
The left and right sides are interlocked to ensure zero backlash for forward and reverse rotation.



传动技术原理 Principles of Transmission Technology

Roller Driver传动应用的是弧面分度原理，是目前最精确的运动控制方式。工作件由一个输入轴（弧面分度辊轮）及一个滚柱（输出轴）组成，输入轴上的辊轮槽表面与滚柱上的从动滚子元件外环表面呈线接触啮合，从而驱动转轮（即工作台）转动。从动滚子元件在旋转过程中利用内部滚柱轴承来传递扭矩。这样的工作原理保证了零间隙，优异的工作精度和工作效率并有效地避免了内部零件损耗，提供持久的高精度工作状态。

The Roller Driver transmission uses the arc surface indexing principle, which is currently the most accurate motion control method. The work piece is composed of an input shaft (curved index roller) and a roller (output shaft). The roller groove surface on the input shaft meshes with the outer ring surface of the driven roller element on the roller in line contact, so that to drive the wheel (that is, the worktable) to rotate. The driven roller element utilizes internal roller bearings to transmit torque during rotation. This working principle guarantees zero backlash, excellent working accuracy and working efficiency, and effectively avoids the loss of internal parts, and the provides a lasting high-precision working state.

無維護和卓越的性價比 No maintenance and high cost performance

無需調整維護和高性價比 None-maintenance and high cost-effective

• 蜗輪蜗杆 Worm gear

精度隨著時間下降，需要定期維護才能達到或接近初始精度。

Accuracy decreases over time and requires regular maintenance to reach or approach initial accuracy.

• 無背隙滾子 Backlashless roller

在500萬次運行週期內精度一致，無需維護。

The accuracy is consistent within 5 million operation cycles and no maintenance is required.

• 蜗輪蜗杆 Worm gear

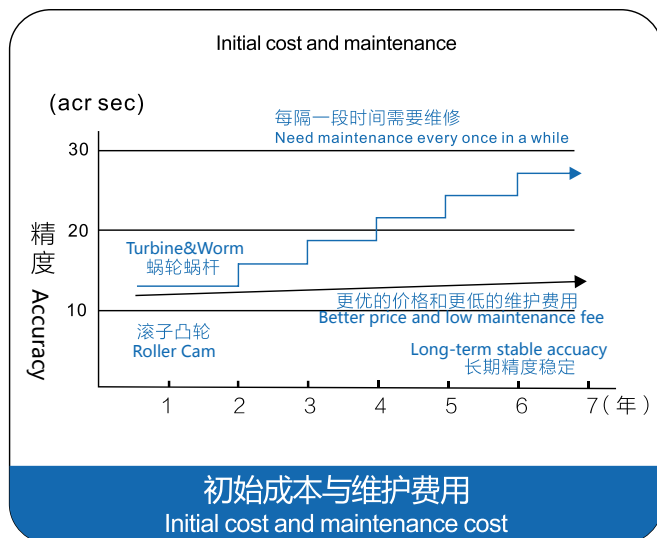
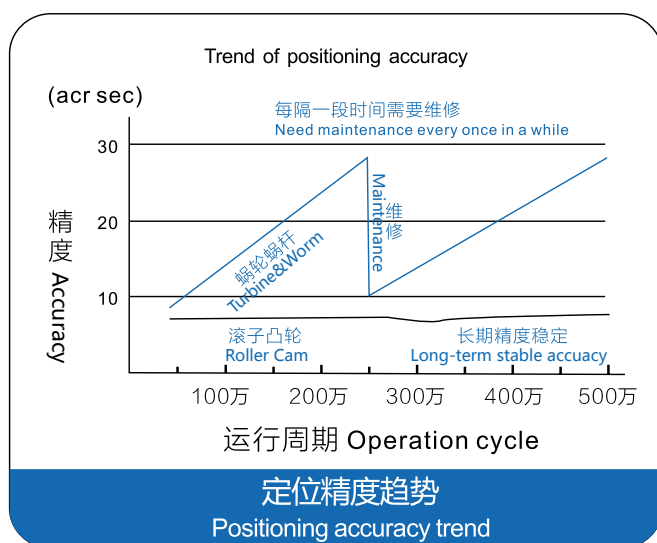
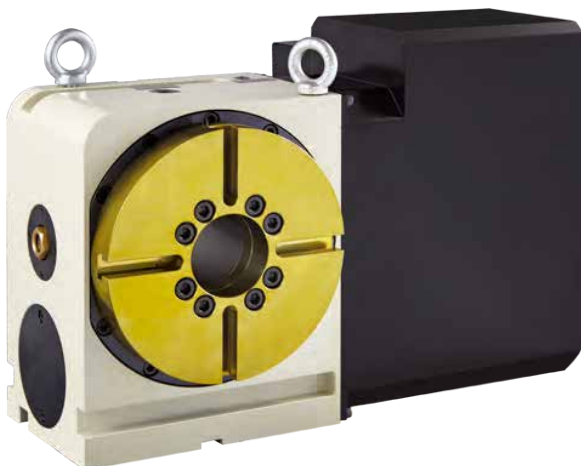
每年需要一到二次維護，以調整精度的反彈。

It needs maintenance once or twice a year, which can make sure that the rebound of the whole precision.

• 無背隙滾子 Backlashless roller

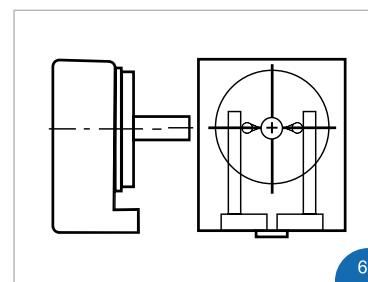
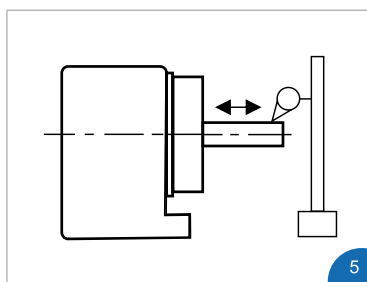
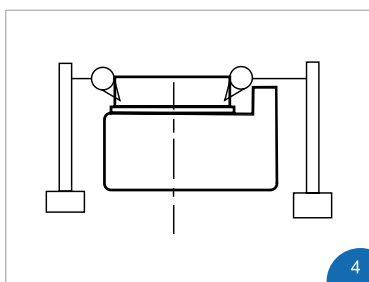
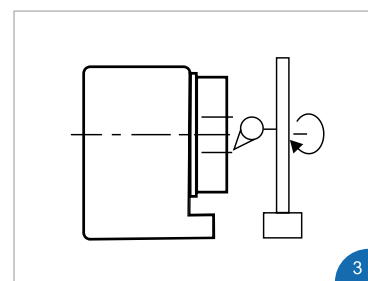
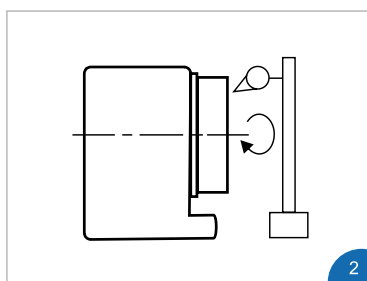
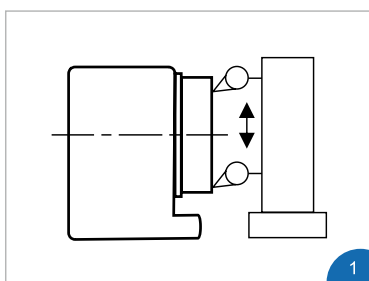
長期使用無需任何維護。

Long-term use does not require any maintenance.



精度檢查項目

Accuracy check items



NO.	項目 Items	170-500 單位 : mm
1	转盘与本体底部之垂直度 Verticality between the turntable and the bottom of the main body	0.02
2	转盘旋转振幅 Turntable rotation amplitude	0.015
3	转盘中心孔旋转偏摆 Rotating deflection of center hole of turntable	0.01
4	转盘与本体之平行度 Parallelism between turntable and body	0.02
5	转盘中心与本体底部之平行度 Parallelism between the center of the turntable and the bottom of the body	0.02
6	转盘中心与基准块之平行度 Parallelism between the center of the turntable and the reference block	0.02

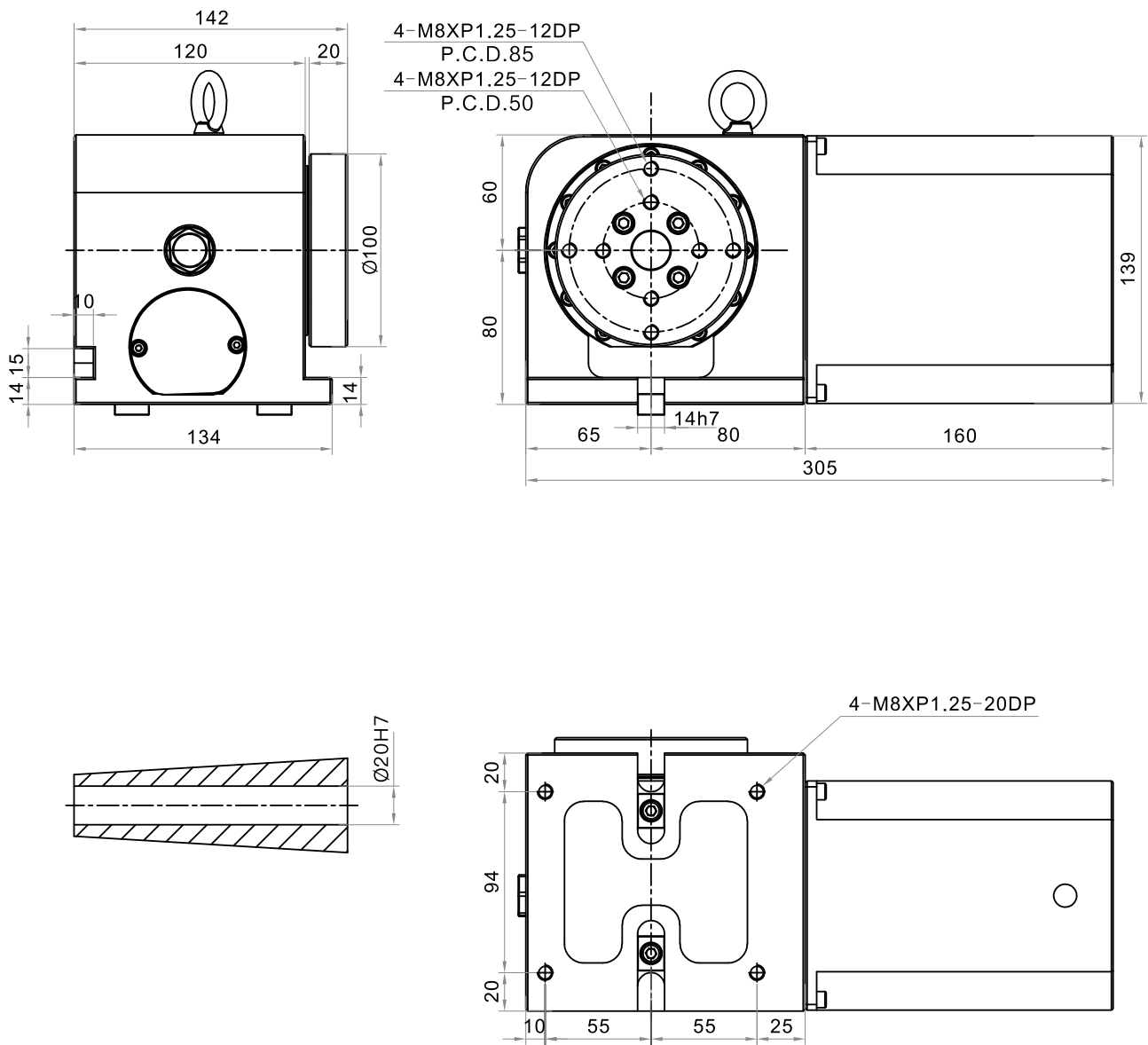


GNC 系列 / GNC Series

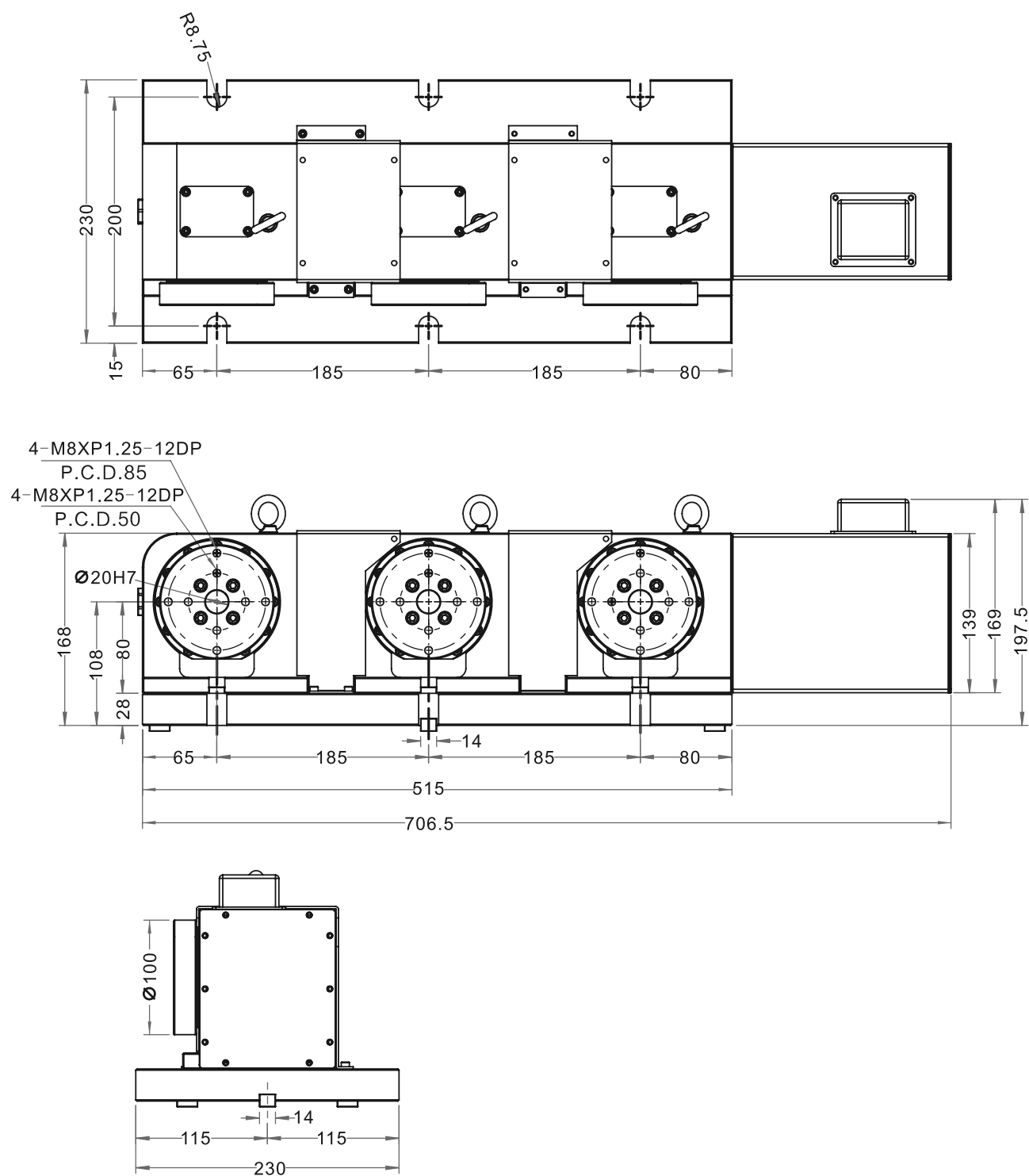
GNC80 , GNC80T3 , GNC140 , GNC170 , GNC200 , GNC250 , GNC320

项目 Item)		规格型号 (Model)	GNC80	GNC140	GNC170	GNC200	GNC250 (A)		GNC320
工作盘直径 Table Diameter	mm		100	140	170	200	250		300
中心高 Center Height	mm		80	110	135	160	160		210
基准孔 Datum Hole	mm		Φ20H7	Φ35H7	Φ40(Φ50)H7	Φ65H7	Φ65H7		Φ90H7
T 型槽 T Slot	mm		N/A	12H7	12H7	12H7	12H7		14H7
基准定位键 Datum Positioning Key	mm		14H7	14H7	14H7	18H7	18H7		18H7
伺服马达 Servo Motor	FANUC	β iS4	β iS4	β iS8	β iS8	β iS8		β iS22	
	MISUBISHI	HG-105S	HG-105S	HG-104S	HG-104S	HG-104S		HG-204S	
总减速比 Gear Ratio			1/24	1/50	1/48	1/48	1/48	1/90	1/48 1/90
最高转速 Max Speed	rpm		100	60	60	60	60	30	50 30
分度精度 Accuracy Dividing	arc.ccc		±20	±15	±10	±10	±10		±10
往复精度 Repeatability	arc.sec		6	6	4	4	4		4
制动方式 Type of Brake			气压 Air Brake	气压 Air Brake	气压 / 油压 Air Brake Oil Brake	气压 / 油压 Air Brake Oil Brake	气压 / 油压 Air Brake Oil Brake		油压 Oil Brake
输入压力 Input Pressure	kg-cm ²		6	6	6/20	6/20	6/20		30
输出制锁扭力 Input Brake Torque	N.m		110	180	220/330	420/510	530/860		2158
承载重量 Load Capacity	立式安装 Vertical		Kg	20	40	80	100	100	155 250
	卧式安装 Horizontal		Kg	55	80	160	200	200	290 420
容许切削力 Allow Cutting Force	F		N	N/A	9050	12740	15789	15789	20500 46550
	FXL		N.m	N/A	85	168	255	255	700 1625
	FXL		N.m	N/A	286	598	1348	1348	1600 4735
最大惯性力矩 *2 Max Movement of Inertia*2		Kg.m ²	0.2	0.2	0.6	1.2	2		5.2
重量 Weight		Kg	18	38	56	66	85		165

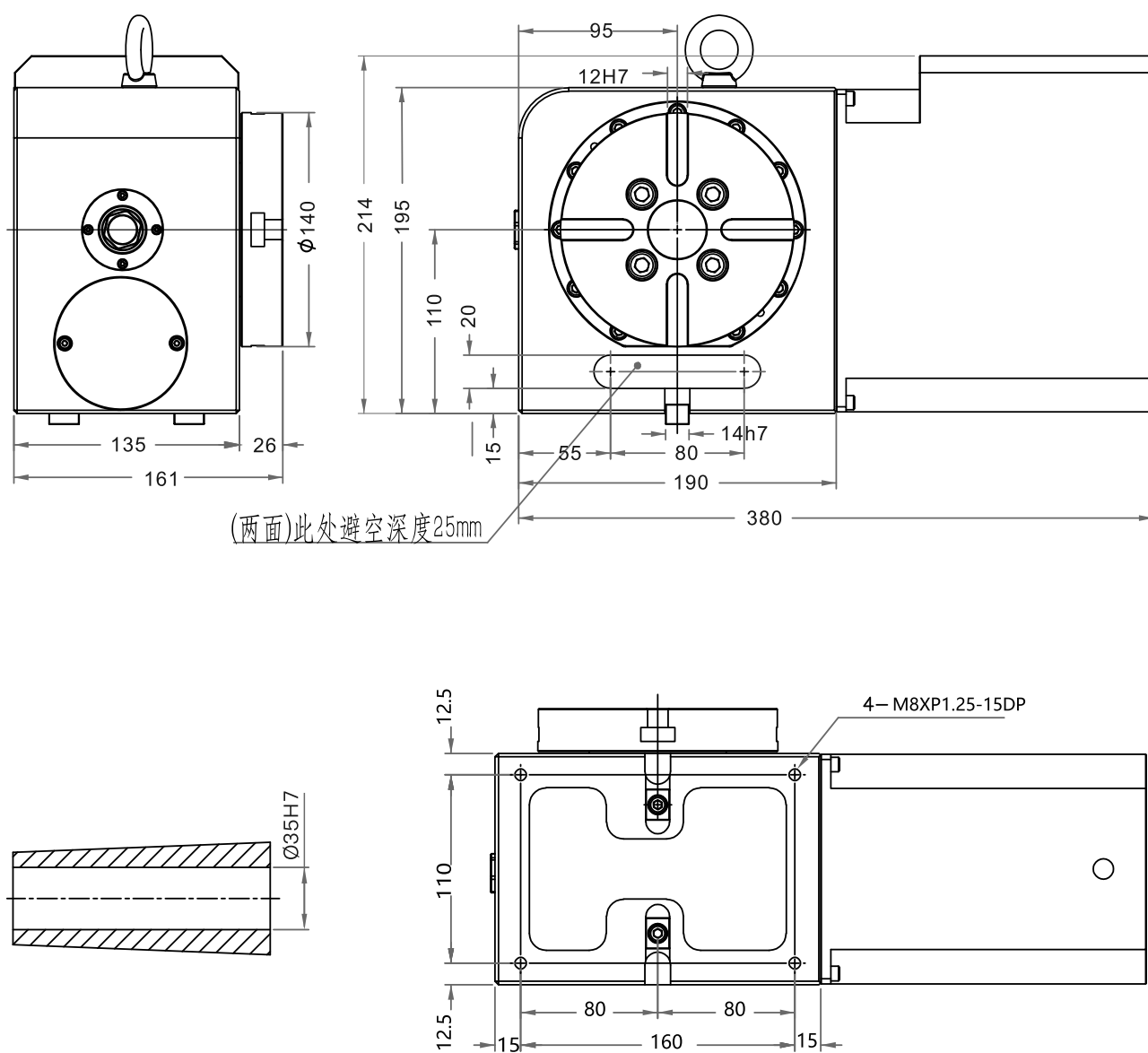
■ GNC80

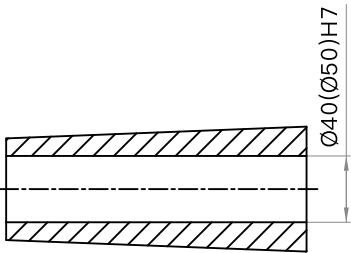


■ GNC80T3

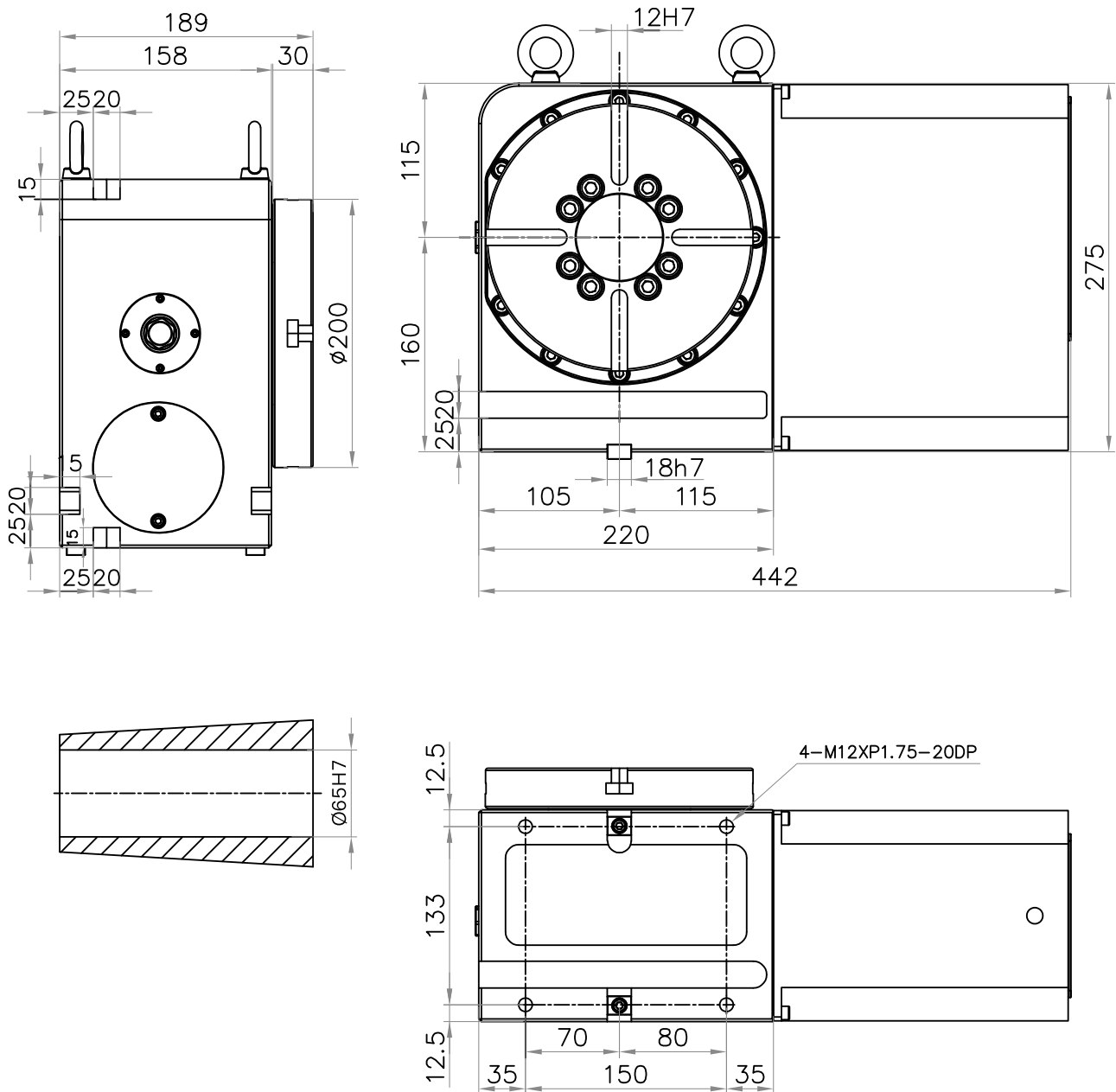


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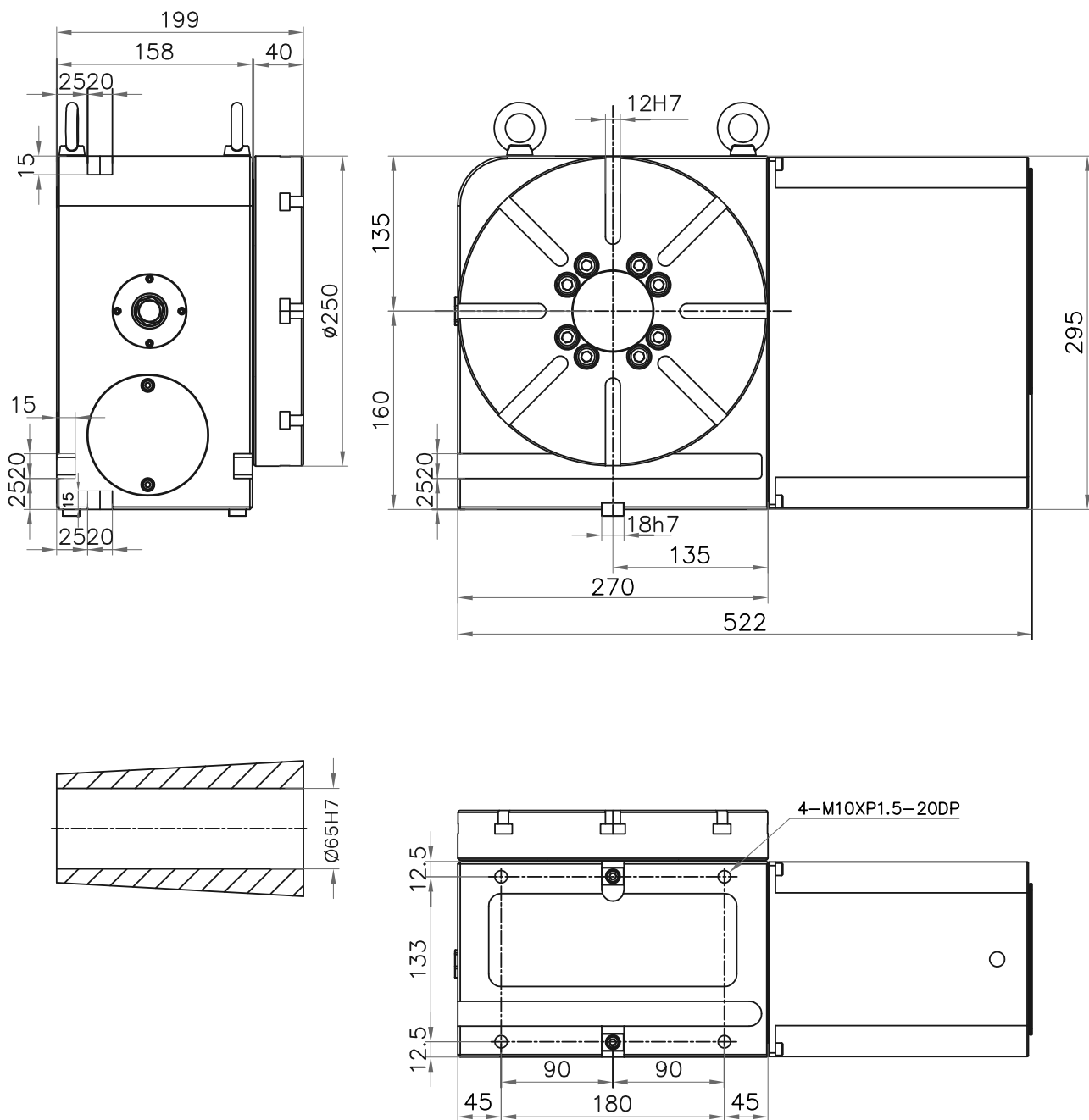




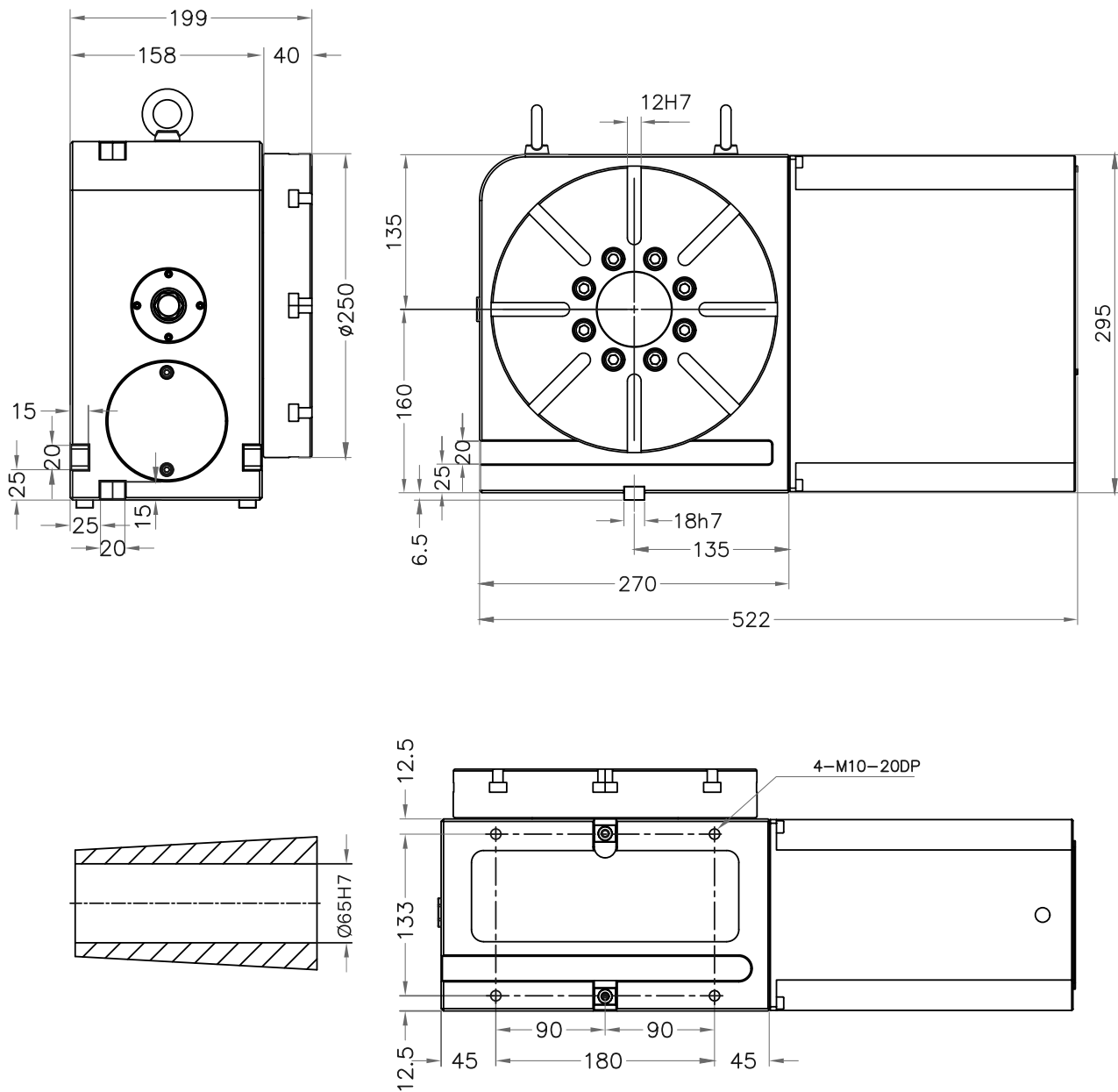
■ GNC200

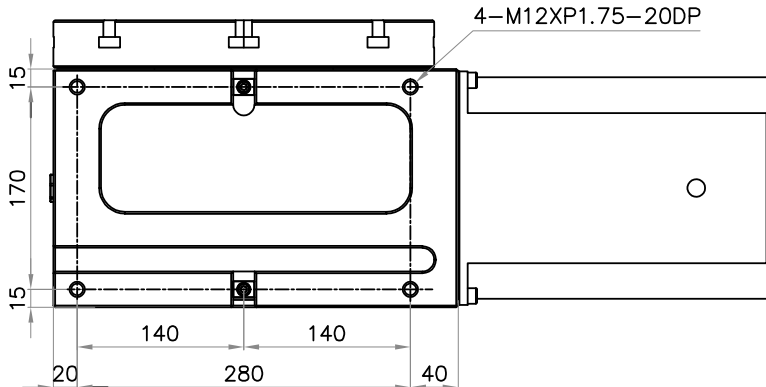
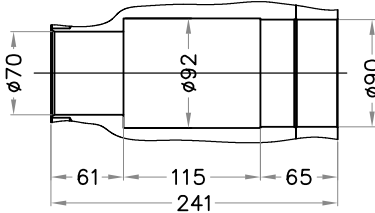
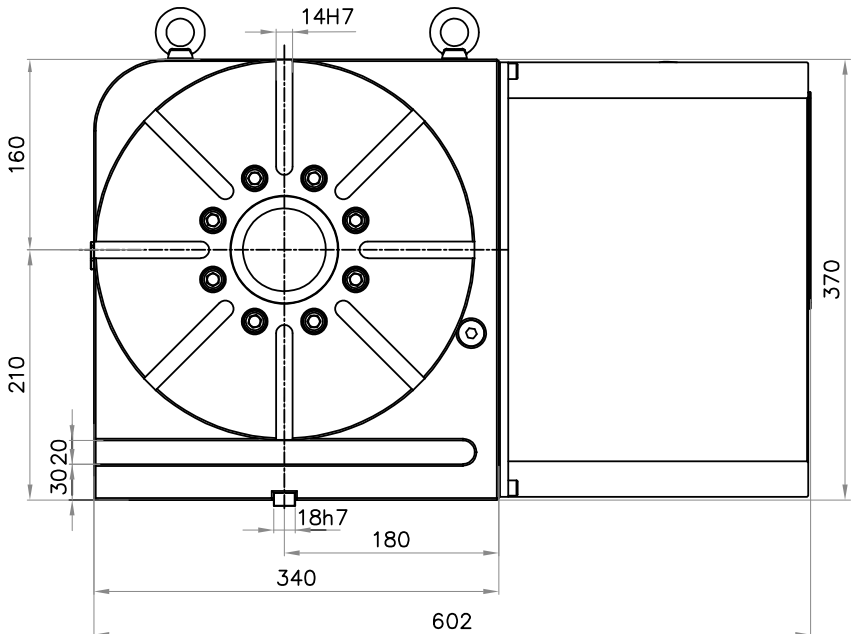
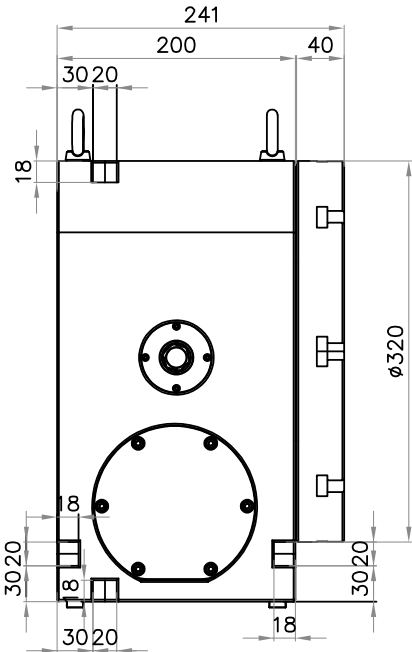


■ GNC250



■ GNC250(A)





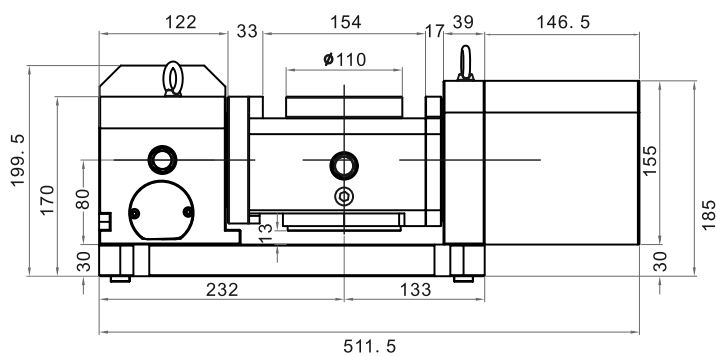
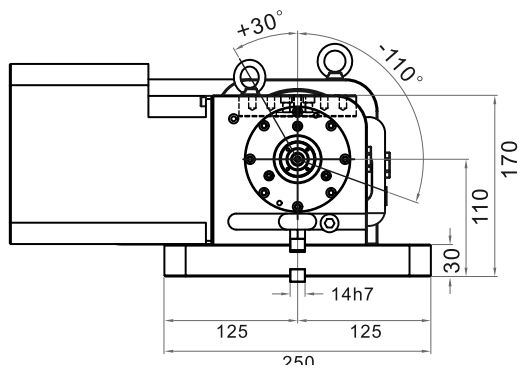
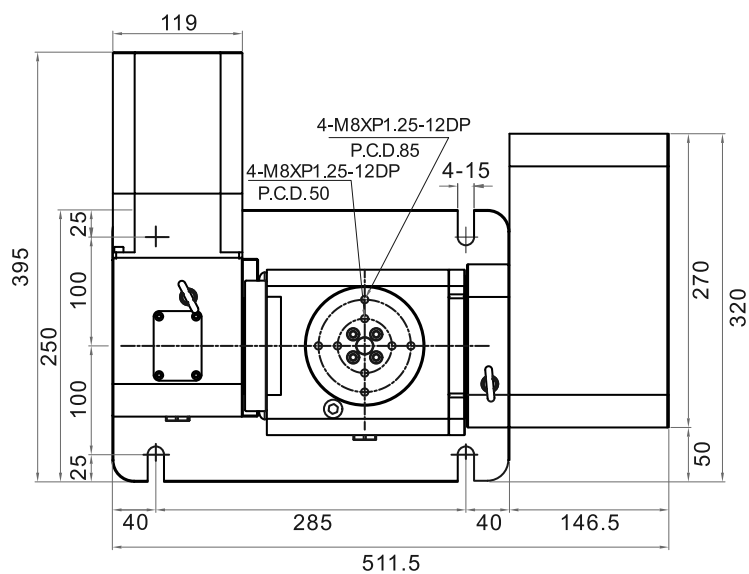
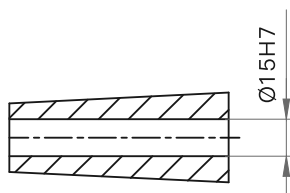
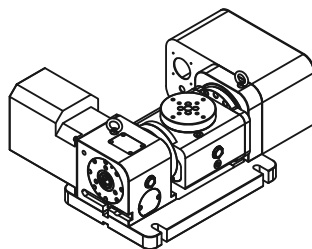


GAC 系列 / GAC Series

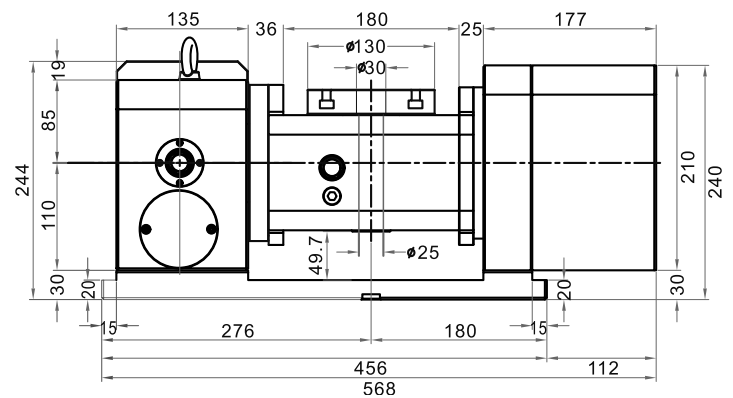
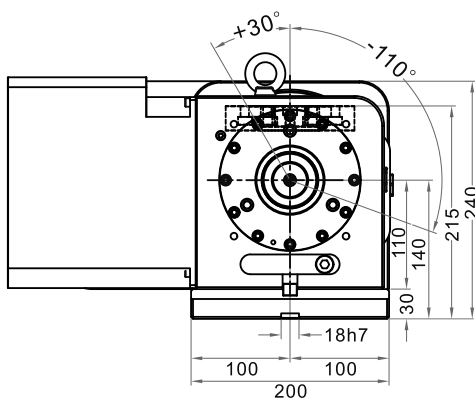
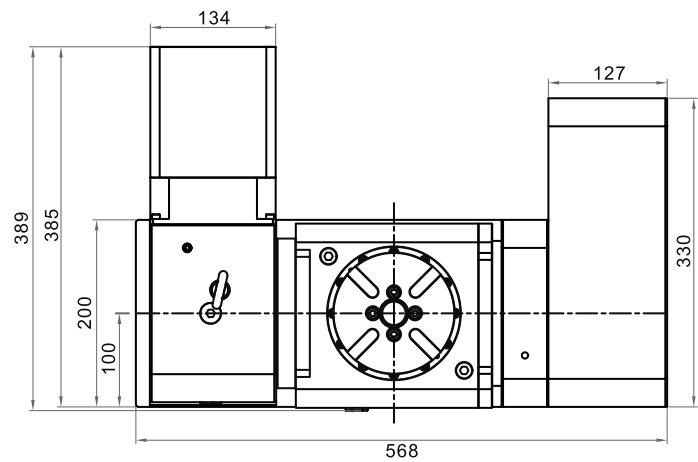
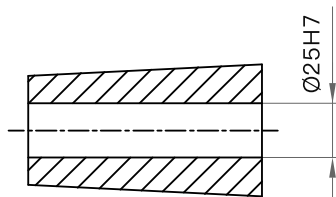
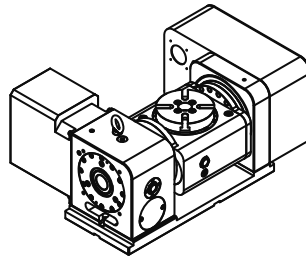
GAC110 , GAC160 , GAC170 , GAC170L , GAC250

规格型号 (Model)		GAC110		G-AC160		GAC170		GAC170L		GAC250	
项目 Item)											
工作盘尺寸 Work Table Size	mm	Φ100		Φ130		Φ170		Φ170		Φ250	
盘面高 Turntable Height	mm	170		215		255		240		320	
中心孔 Center Hole	mm	15H7		25H7		30H7		18H7		60H7	
基准定位键 Datum Positioning Key	mm	14H7		18H7		18H7		12H7		18H7	
T 型槽 T Slot	mm	N/A		12H7		12H7		12H7		12H7	
容许切削力 Allow Cutting Force	N.m	90		100		120		120		280	
容许工件负载 Allowable workload	kg	0° /12kg	90° /8kg	0° /30kg	90° /20kg	0° /50kg	90° /35kg	0° /30kg	90° /20kg	0° /100kg	90° /60kg
回转角度 Rotary Angle	°	旋转轴 rotary axis 360°	倾斜轴 tilting axis +30°--110°	旋转轴 rotary axis 360°	倾斜轴 tilting axis +30°--110°	旋转轴 rotary axis 360°	倾斜轴 tilting axis +30°--110°	旋转轴 rotary axis 360°	倾斜轴 tilting axis +30°--110°	旋转轴 rotary axis 360°	倾斜轴 tilting axis +30°--110°
伺服马达 Servo Motor	FANUC	β iS2	β iS4	β iS4	β iS4	β iS4	β iS8	β iS4	β iS8	β iS8	β iS8
	MISUBISHI	HF-KP43	HG-105S	HG-105S	HG-105S	HG-105S	HG-104S	HG-105S	HG-104S	HG-104S	HG-104S
总减速比 Gear Ratio		30	24	48	50	40	48	40	48	40	90
最高转速 Max Speed	rpm	100	100	60	60	75	60	70	60	70	30
最小分割角度 Mini. Indexing Angle	deg	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
分度精度 Accuracy Dividing	arc.cec	±20	±20	±20	±20	±20	±20	±10	±10	±10	±10
往复精度 Repeatability	arc.sec	±8	±8	±8	±8	±8	±8	±4	±4	±4	±4
制动方式 Type of Brake		气压 Air Brake	气压 Air Brake	气压 Air Brake	气压 Air Brake	油压 Oil Brake	油压 Oil Brake	气压 Air Brake	气压 Air Brake	油压 Oil Brake	油压 Oil Brake
输入压力 Input Pressure	kg-cm ²	6	6	6	6	20	20	6	6	25	25
输出制锁扭力 Input Brake Torque	N.m	80	110	90	180	300	330	100	220	550	648
重量 Weight	Kg	65		110		132		N/A		260	

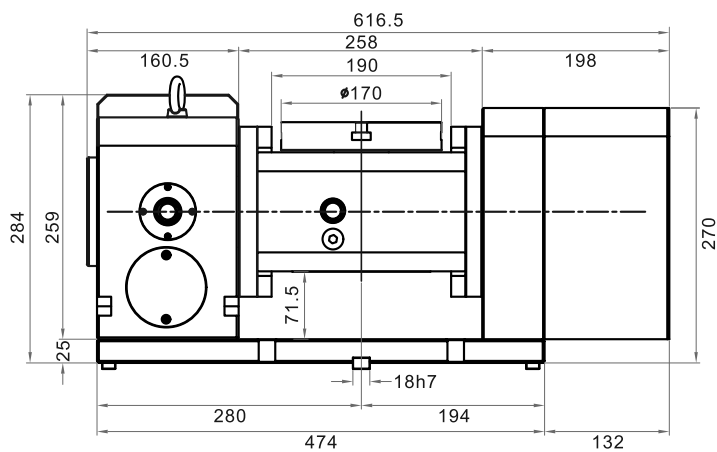
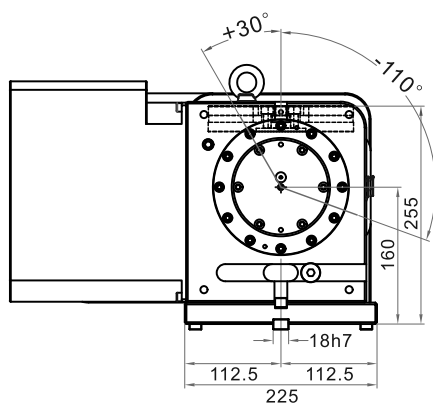
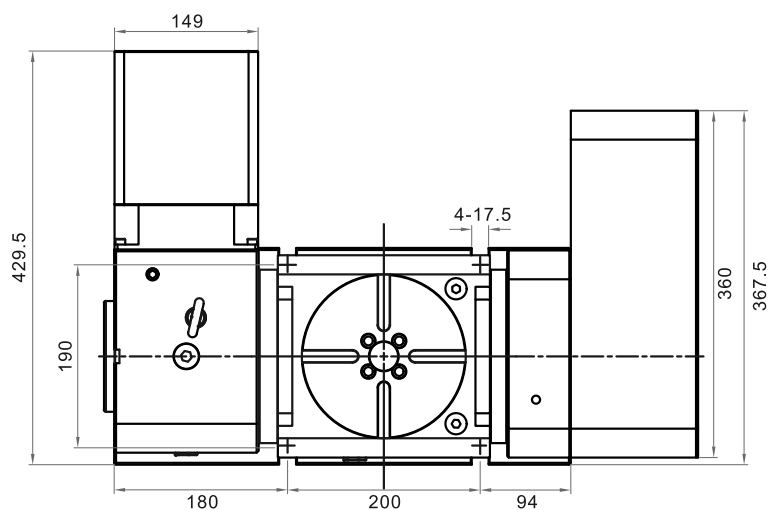
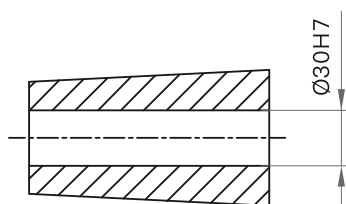
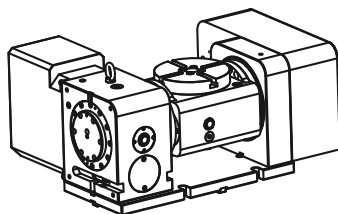
■ GAC110



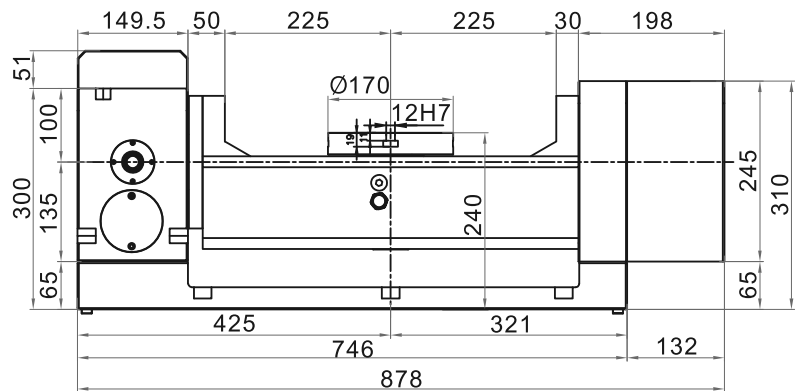
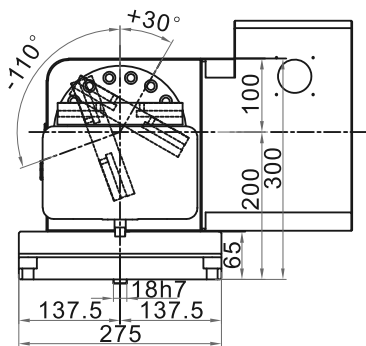
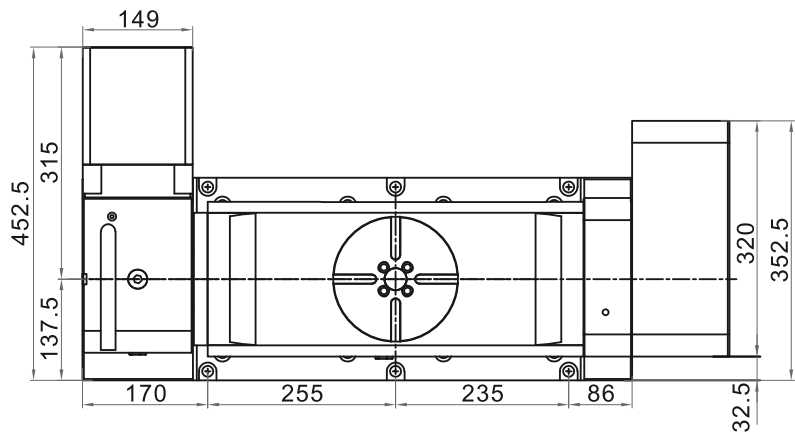
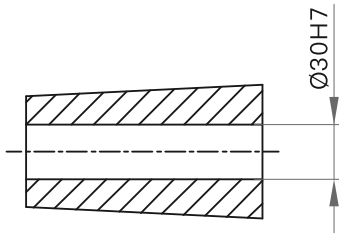
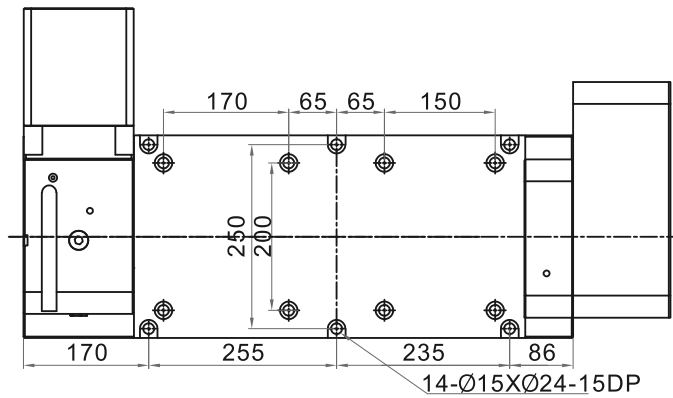
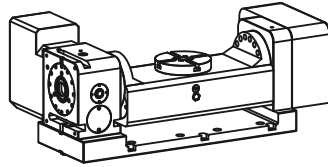
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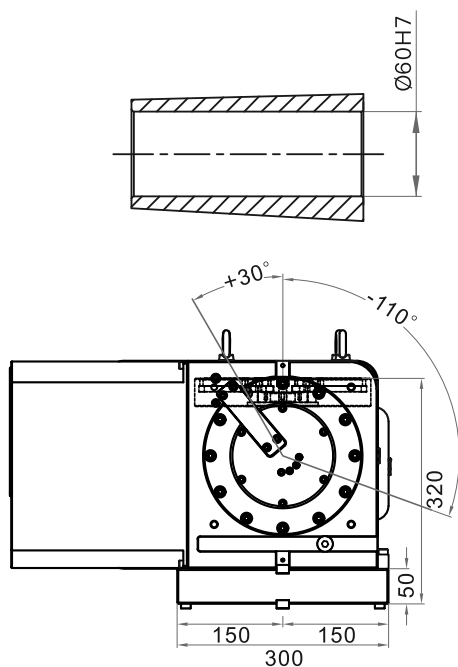
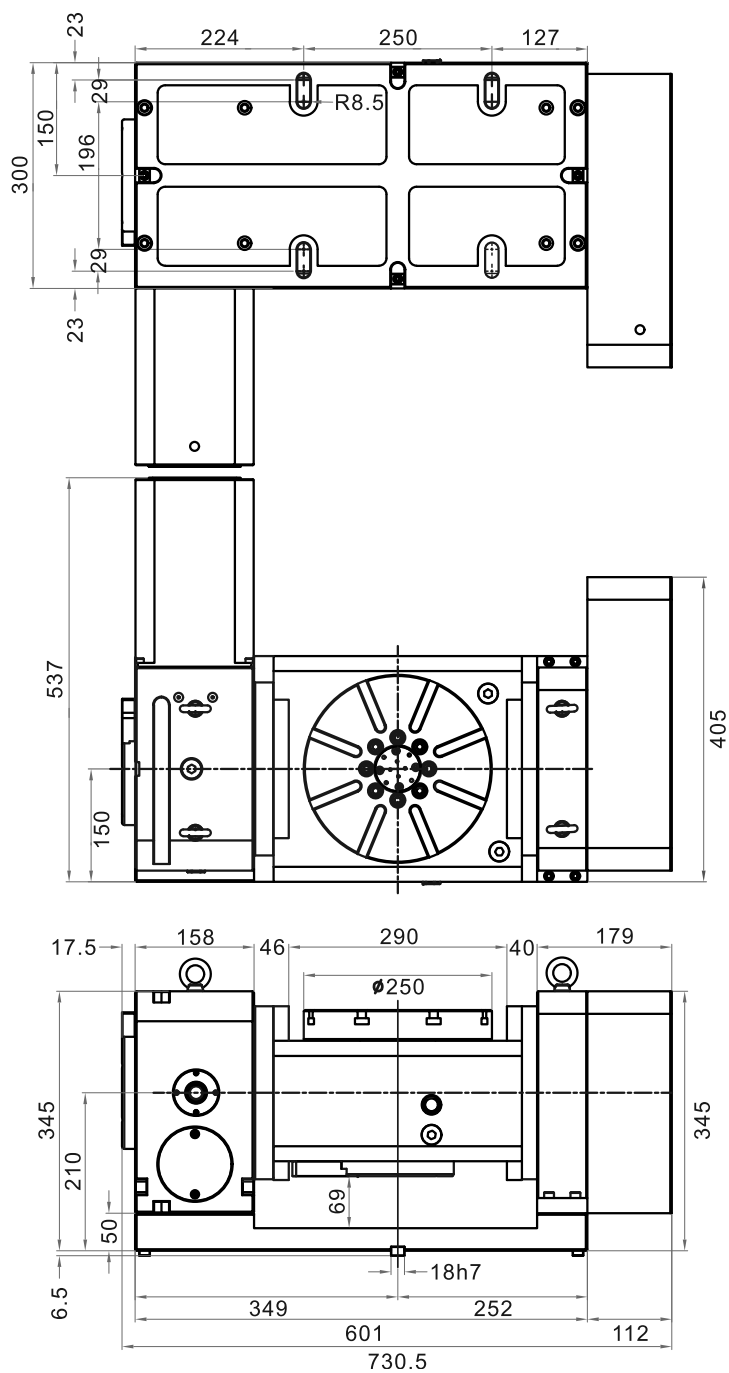
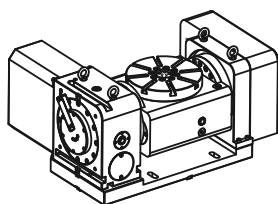
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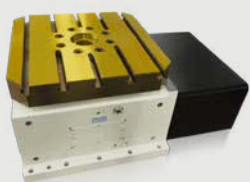


■ GAC170L



■ GAC250



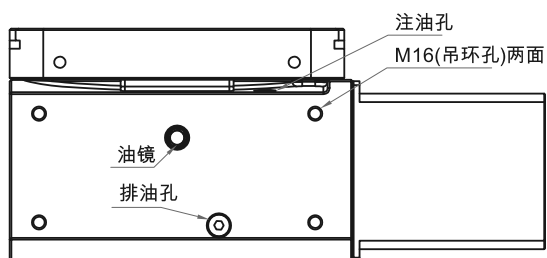
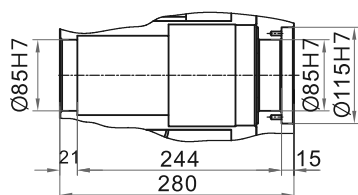
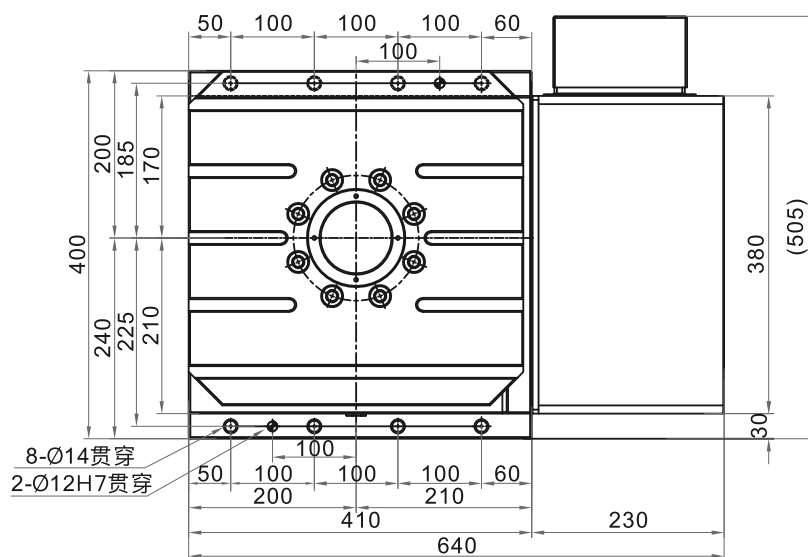
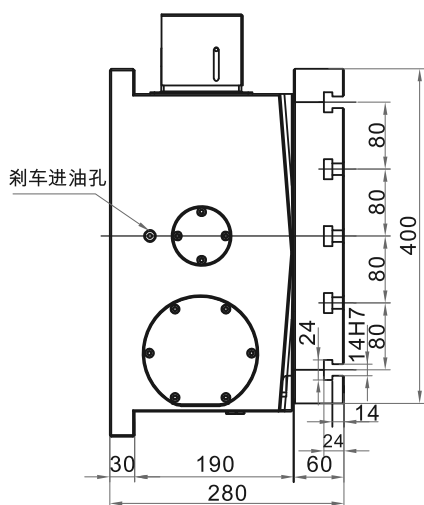
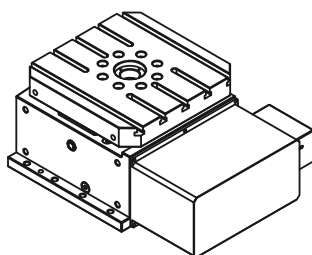


GDC 系列 / GDC Series

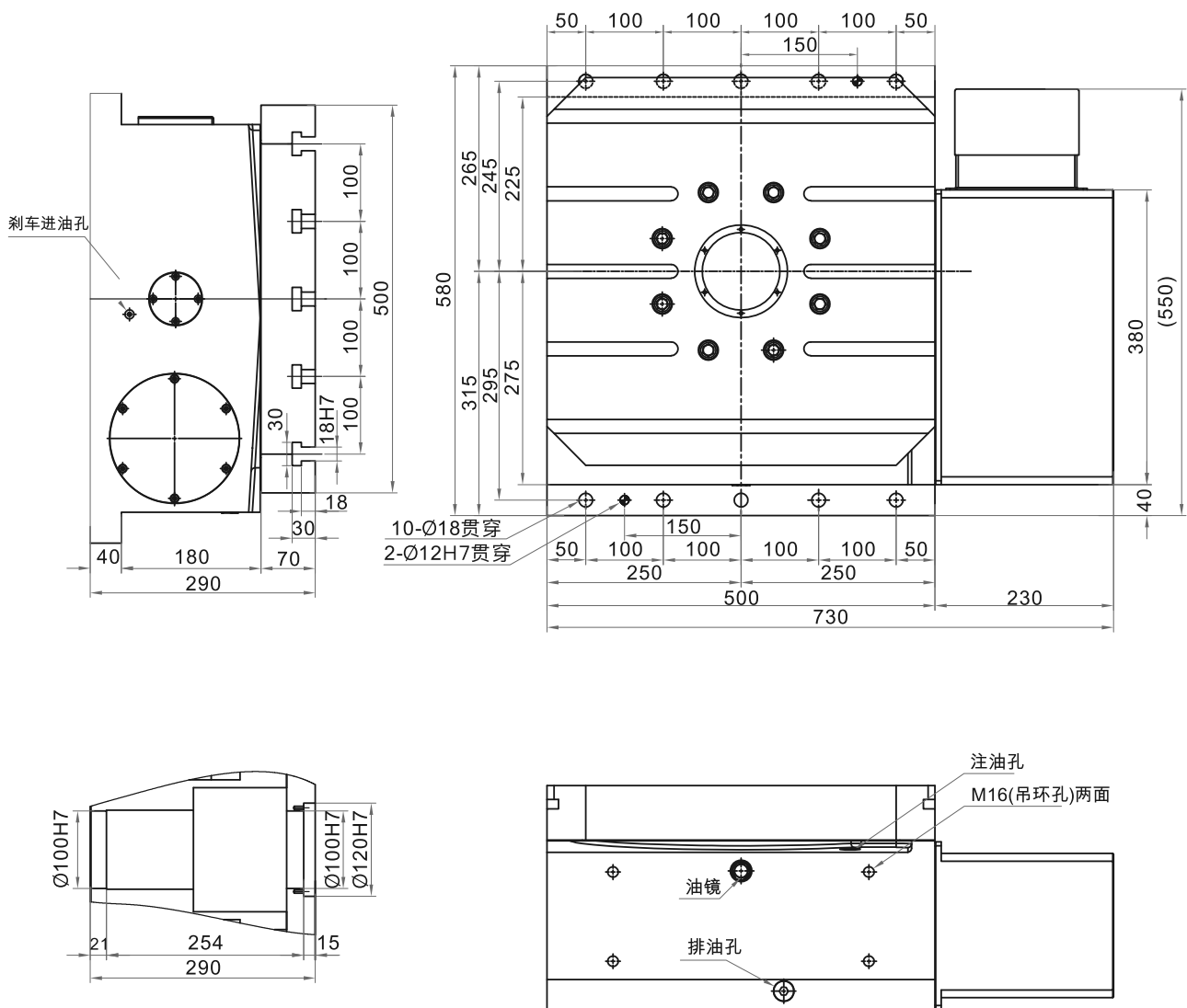
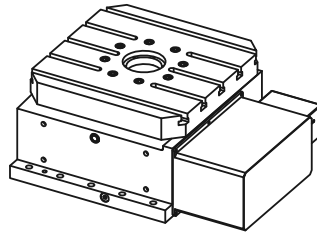
GDC400 , GDC500 , GDC650 , GDC800

规格型号 (Model)		GDC400	GDC500	GDC650	GDC800	GRL420
项目 Item)						
工作盘直径 Table Diameter	mm	Φ400	Φ500	Φ650	Φ800	Φ420
中心通孔 Center Hole	mm	Φ85	Φ100	Φ110H7	Φ100	Φ100H7
T 型槽 T Slot	mm	14H7	18H7	18H7	22H7	N/A
伺服马达 Servo Motor	FANUC	β iS22	β iS22	β iS22	β iS22	β iS22
	MISUBISHI	HG-204S	HG-204S	HG-204S	HG-204S	HG-204S
总减速比 Gear Ratio		60	60	180	120	144
最高转速 Max Speed	rpm	50	50	15	15	20
最小分割角度 Mini. Indexing Angle	deg	0.001°	0.001°	0.001°	0.001°	0.001°
分度精度 Accuracy Dividing	arc.cec	±10	±10	±20	±10	±20
往复精度 Repeatability	arc.sec	±4	±4	±8	±4	±8
制动方式 Type of Brake		油压 Oil Brake	油压 Oil Brake	油压 Oil Brake	油压 Oil Brake	油压 Oil Brake
输入压力 Input Pressure	kg-cm ²	30	30	45	30	40
输出制锁扭力 Input Brake Torque	N.m	1960	2660	4000	8500	2800
容许切削力 Allow Cutting Force	N.m	1750	2250	3500	7500	2500
容许载重 Allow load capacity	Kg	460	790	1200	1990	320
重量 Weight	Kg	320	420	700	1115	360

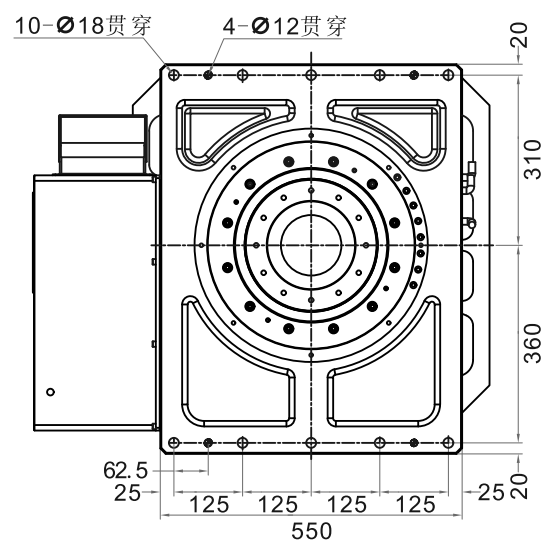
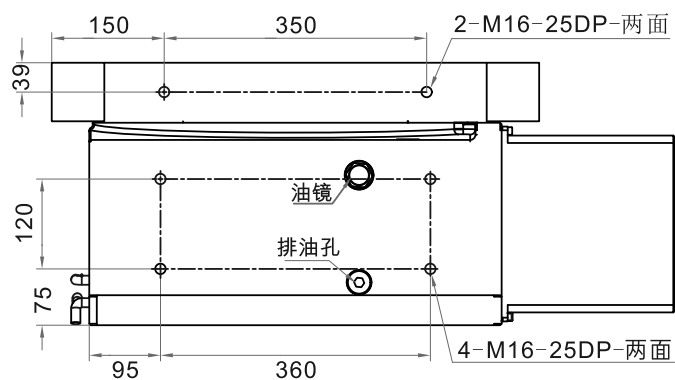
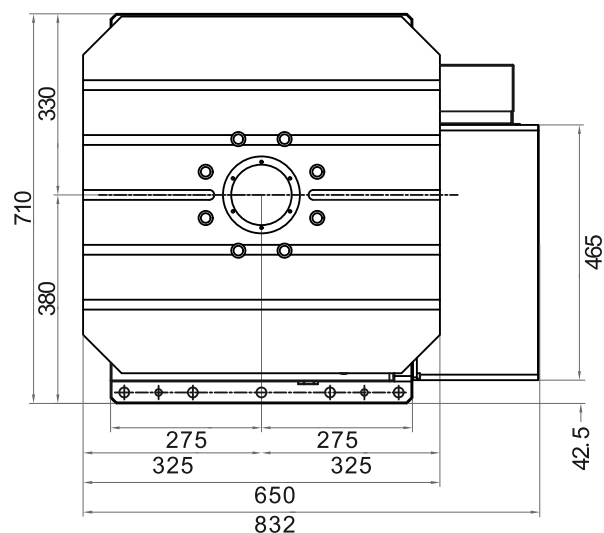
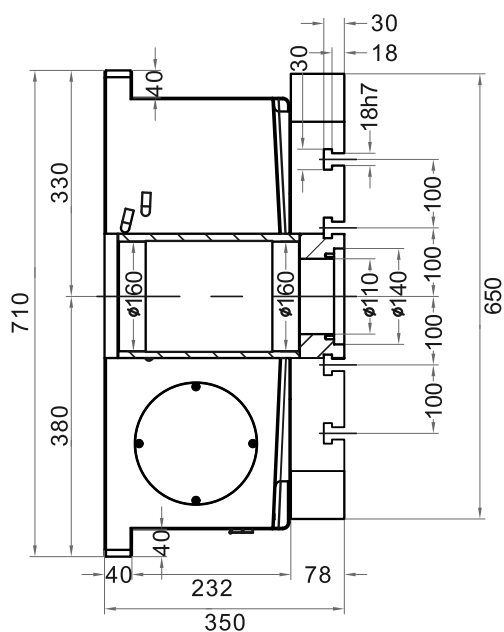
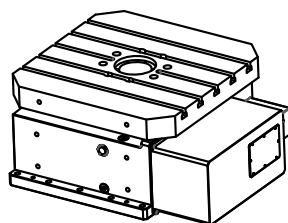
■ GDC400



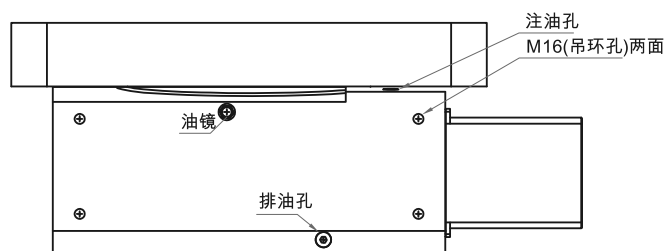
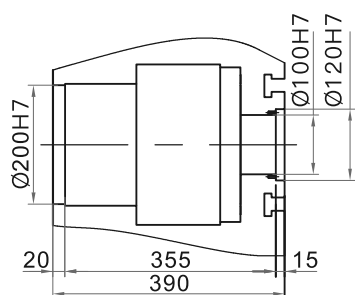
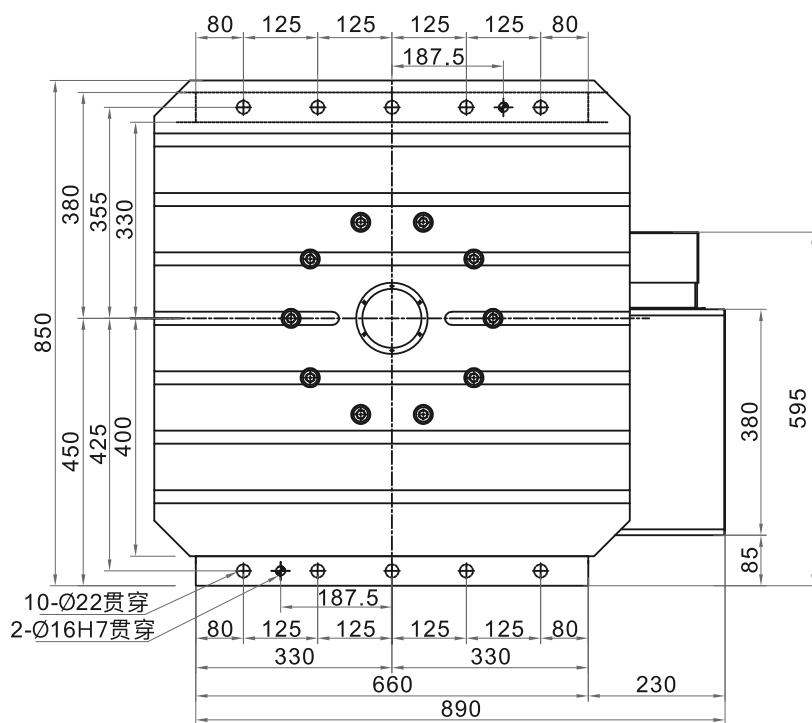
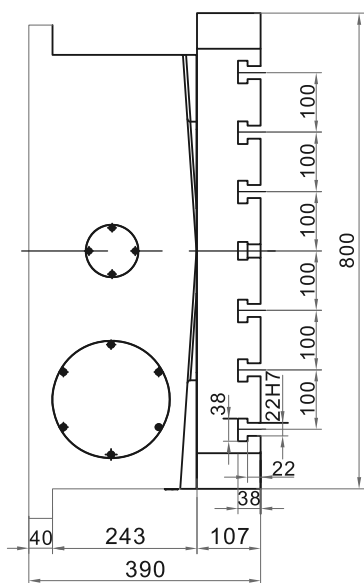
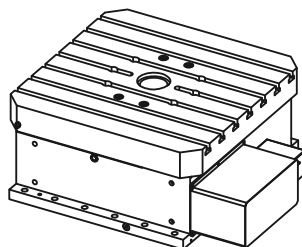
■ GDC500



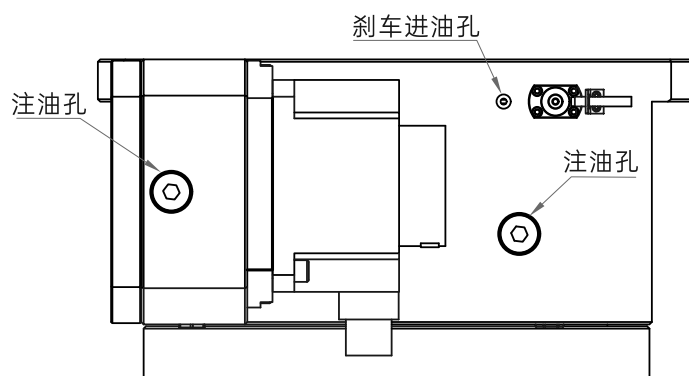
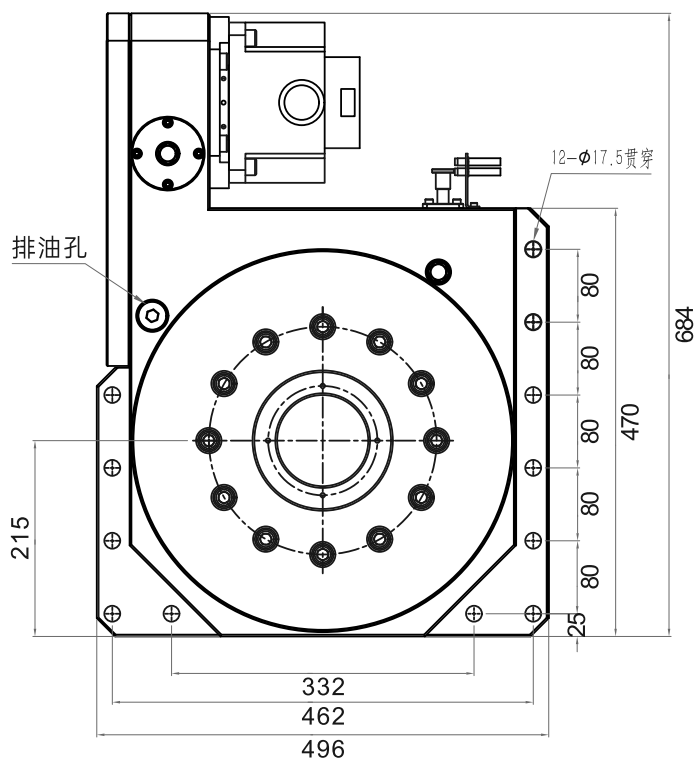
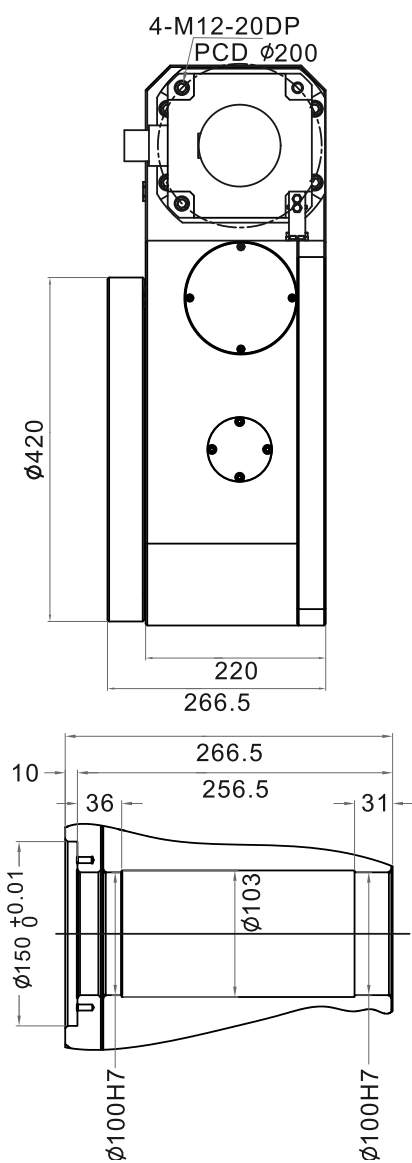
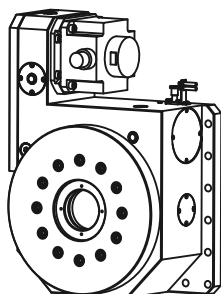
■ GDC650



■ GDC800

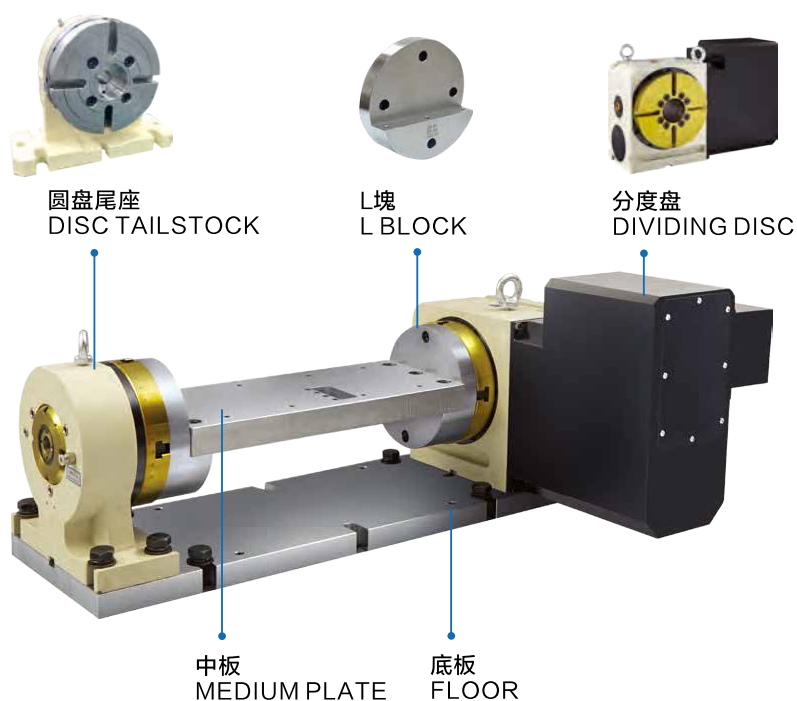


■ GRL420



分度盘选配

Indexing plate optional



周边配套

Peripheral Accessories



液压站
The hydraulic pressure stands



增压泵
supercharge pump



油路分配器
oil path distributor



半圆L块
semicircle L Block



整圆L块
Round L Block



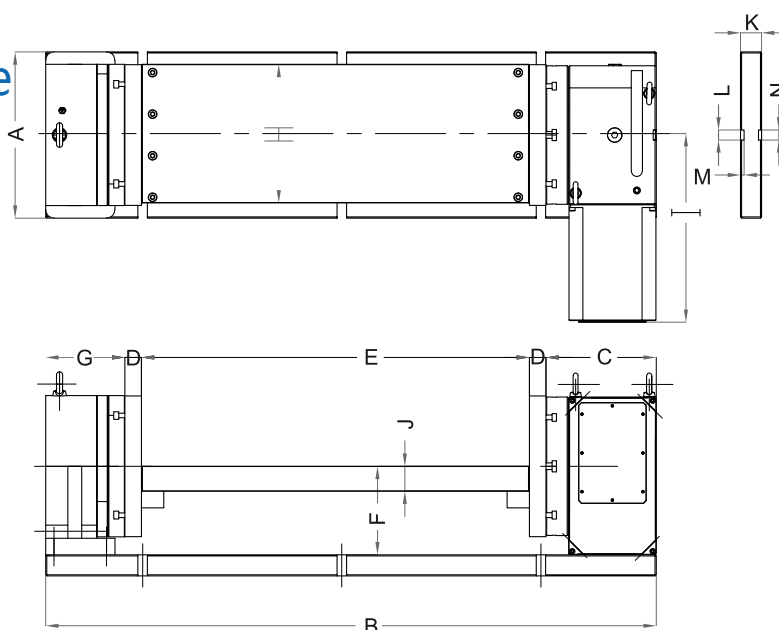
卡盘连接板
chuck Connector



手动卡盘
Manual chuck

桥板

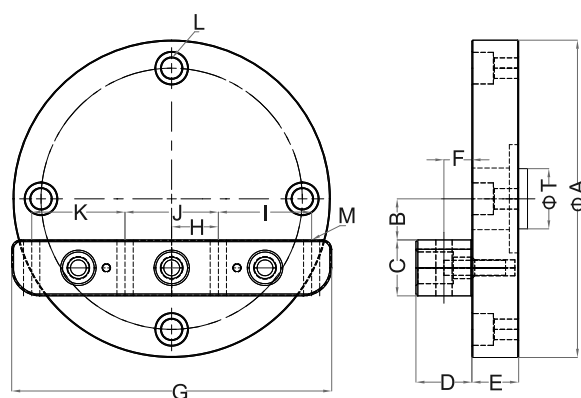
Bridge Plate



型号/尺寸 Model/ Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N
GNC140	190	702	161	20	400	110	101	140	285	25	35	14	7	14
GNC170	280	831	181	25	500	135	100	170	319	35	40	14	7	14
GNC200	280	947	189	25	600	160	108	200	337	40	40	18	7	18
GNC250	300	1092	199	25	700	160	143	250	338	45	40	18	7	18
GNC320	400	1265	241	30	800	210	164	320	442	45	40	18	7	18

L块

L Block

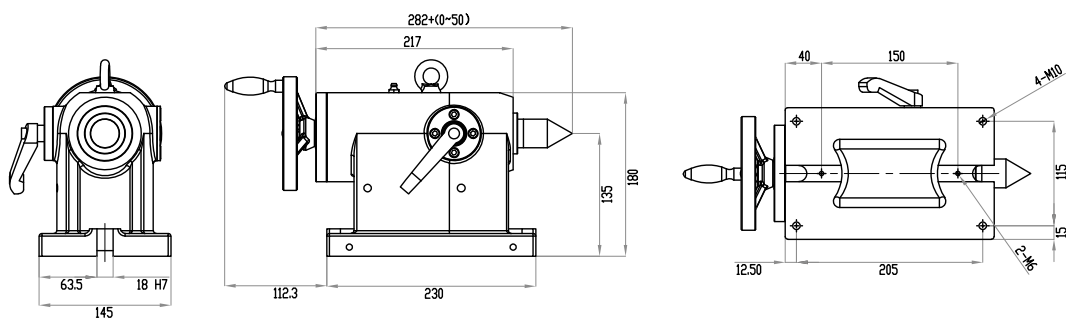


型号/尺寸 Model/ Size	ϕA	B	C	D	E	F	G	H	I	J	K	L	M	适用于 Suit for
GNC140	$\phi 140$	25	25	25	20	12.5	140	27	25	54	25	M10	4-M8	GNC140
GNC170	$\phi 170$	35	25	35	25	20	170	25	50	50	50	M10	4-M10	GNC170
GNC200	$\phi 200$	40	35	40	25	20	200	27.5	55	55	55	M10	4-M10	GNC200
GNC250	$\phi 250$	45	40	40	25	20	250	37.5	75	75	75	M10	4-M10	GNC250
GNC320	$\phi 320$	45	45	45	30	22.5	320	42.5	85	85	85	M12	4-M12	GNC320
GNC400	$\phi 400$	45	45	45	30	22.5	400	75	80	150	80	M12	4-M12	GNC400

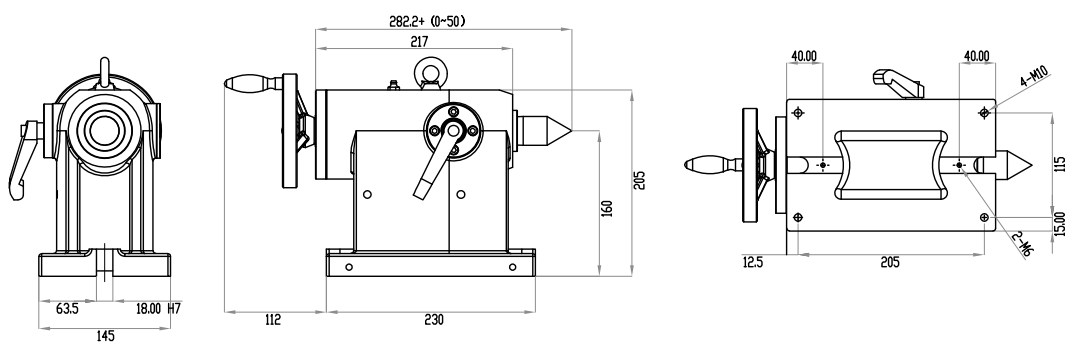
顶针尾座 Tailstock



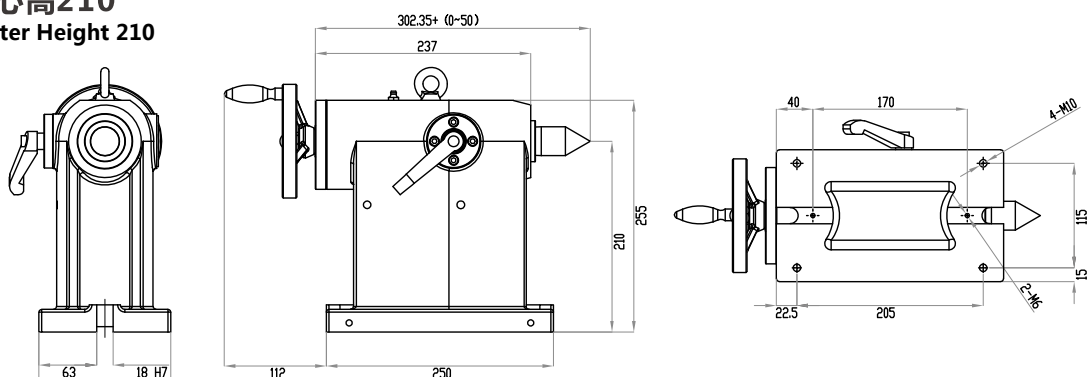
中心高135 Center Height 135



中心高160 Center Height 160



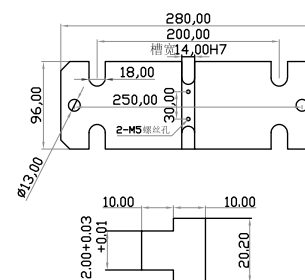
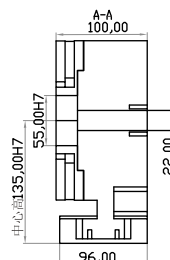
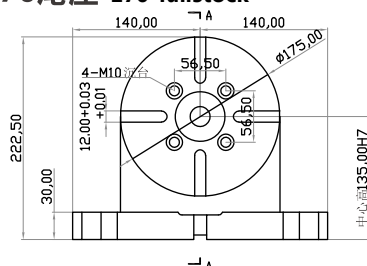
中心高210 Center Height 210



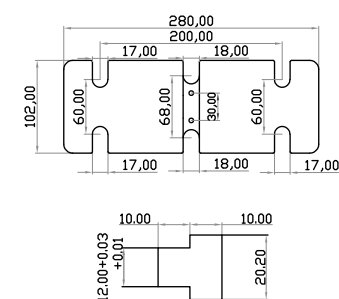
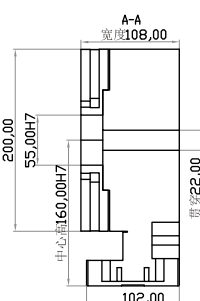
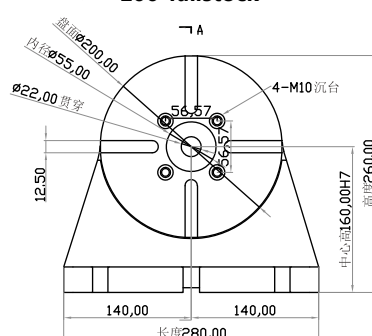
圆盘尾座 Disc Tailstock



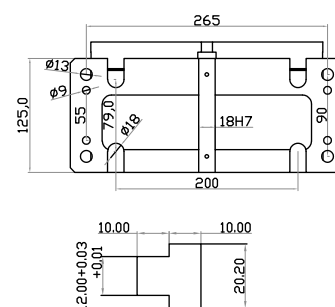
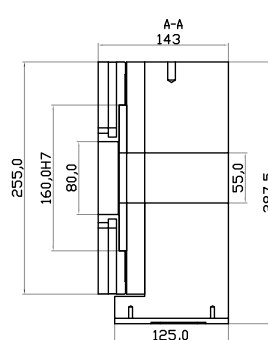
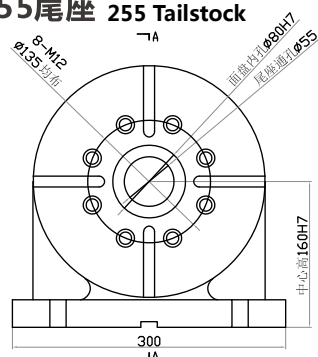
170尾座 170 Tailstock



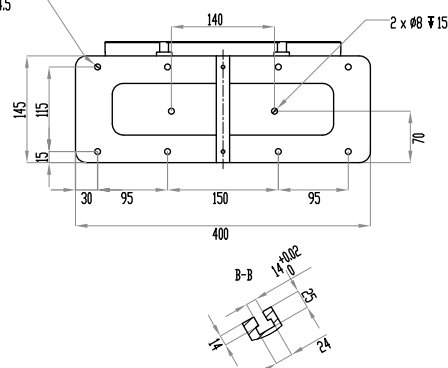
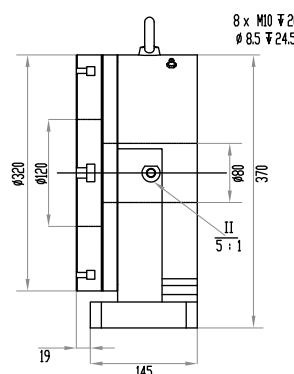
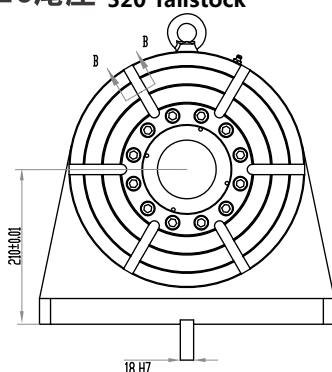
200尾座 200 Tailstock



255尾座 255 Tailstock



320尾座 320 Tailstock



转台规格选择表

Check sheet for rotary table specifications

机台规格 Rotary Tables	机床规格 Machine specifications	品牌 Brand _____ 型号 Model number _____
	机床控制器 Machine Tool Controller	☐ 发那科 FANUC ☐ 三菱 Mitsubishi ☐ 西门子 Siemens ☐ 新代 New Generation ☐ 安川 Yaskawa ☐ 其他 Others
	配线 Wiring	☐ 需要 Need ☐ 仅需要动力内线 Only need power inside
		☐ 仅需要动力内线/信号内线 Need power extension/signal extension
机床工作台 Machine tool table	T槽宽(A) T slot width (A)	☐ 14mm ☐ 16mm ☐ 18mm ☐ 22mm ☐ 其他 Other
	T槽间距尺寸(B) T slot spacing size (B)	☐ 100mm ☐ 125mm ☐ 150mm ☐ 其他 Other
	工作台T槽数 Number of T Slots of Workbench	☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 其他 Other
数控转台 CNC turntable	刹车夹紧方式 Brake clamping method	☐ 气刹 Air brake ☐ 油刹 (请选用其他配件) Oil brake (please choose other accessories)
电机规格 Motor specifications	发那科 FANUC	☐ 型号 Model: _____ ☐ 直轴 Straight shaft ☐ 锥轴 Taper shaft
	三菱 Mitsubishi	☐ 型号 Model: _____ ☐ 直轴 Straight shaft ☐ 锥轴 Taper shaft
	西门子 Siemens	☐ 型号 Model: _____
	新代 New generation	☐ 型号 Model: _____
	安川 Yaskawa	☐ 型号 Model: _____
	其他 other	☐ 型号 Model: _____ (请提供电机外形尺寸图及资料) (please provide motor dimensions and information)
尾座 (特别附件) Tailstock (special accessory)	可换式手动顶尖尾座 Interchangeable hands Moving top tailstock	GSD80/135/160/210/其他
	圆盘刹车尾座 Disc brake tailstock	GSD80/135/160/210/其他
	其他 Other _____	