

產品綜合目錄

PRODUCT CATALOGUE

Catalog No. EN-25-01

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XXY Series
Precision Positioning Tables



GXYR Series
Precision XYθ Three-in-one Electric Slides



GX Series
Precision
X Axis Electric Slides



GZ Series
Precision
Z Axis Electric Slides



GTZ Series(Lift Type)
Precision Oblique Deed
Z Axis Electric Slides



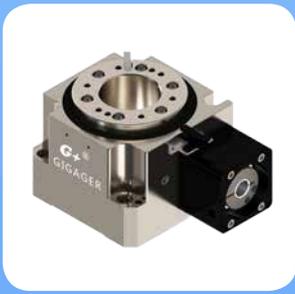
GXY Series
Precision
XY Axes Electric Slides



GR Series
Worm Electric Slides



GYH Series
Hollow Indexing Tables



GSH Series
Hypoid Rotary Tables



GSR Series
Right Angle
Hollow Rotary Tables



GSHR Series
Hypoid Rotary Tables



GSA Series
Right Angle
Hollow Rotary Tables



GSN Series
Hollow Rotary Tables



GSB Series
Hollow Rotary Tables



GSG Series
High Torque
Hollow Rotary Tables



GSZ Series
Right Angle Gearboxes



GMR Series Mini
Rotary Axes



GMC Series
Tilting Rotary Tables



GMA Series
Single Arm Rotary Axes

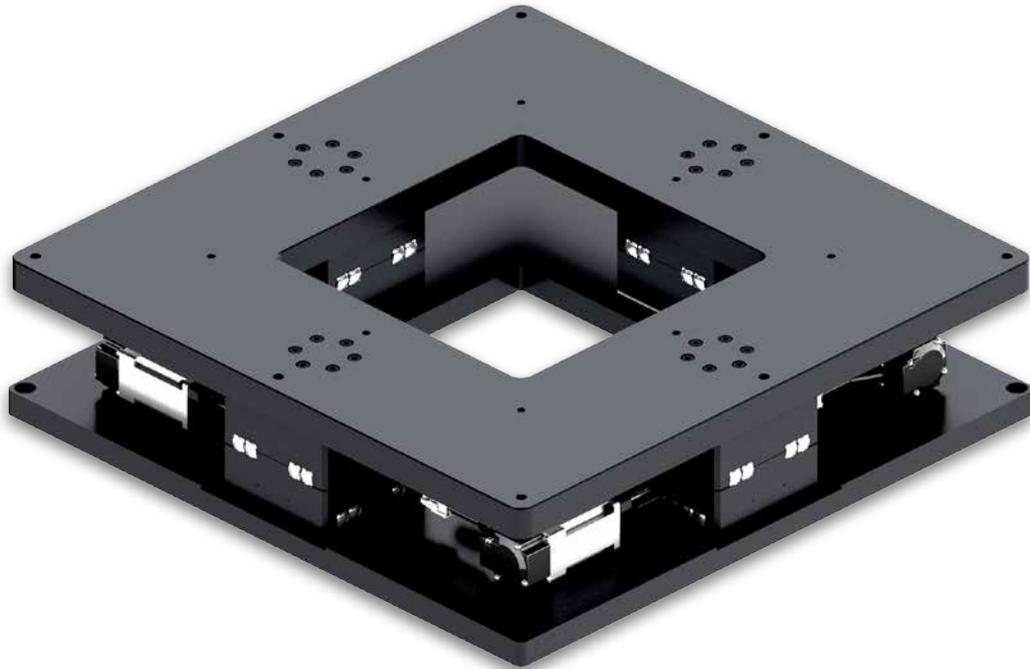


GML Series Mini
Rotary Axes



Precision Positioning Tables/XXY Series

Peristaltic Cross Rail, High-precision
Cross Roller Bearing Support, Stable Performance



XXY Precision Positioning Table is widely used in optical measuring instruments, CCD visual bit instruments, LCD panel detection, semiconductor processing, laser cutting and drilling flat coating machines, numerical control equipment, grinding equipment, wafer alignment equipment, exposure equipment, composite machines, etc.

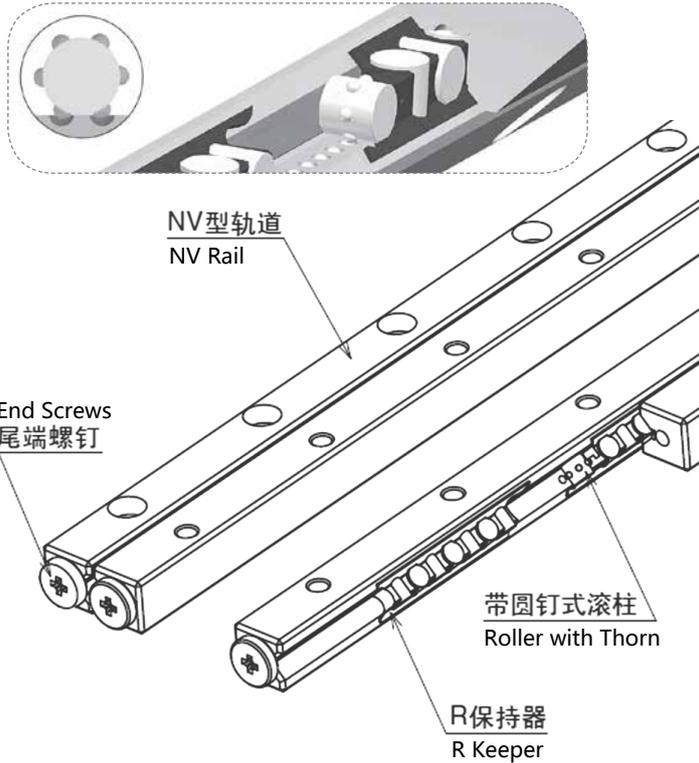
●Thin Design Saves Space

The three-axis co-graphic design greatly reduces the overall height and the overall platform is lighter and thinner, saving more space

●High Accuracy. High Rigidity. High Stability

Peristaltic cross rail, high-precision cross roller bearing support and stable performance make a precision positioning table of G+ with high accuracy, high rigidity and high stability

Anti-peristaltic cross-rail system



G+ XXY series precision positioning table, leading the use of an anti-peristaltic cross-rail system

The cross ball guide rail is composed of a precision grinding track and a built-in retainer with a nail roller

Because the retainer has a screw roller, the track and the rolling body won't slip, so it greatly improves the stability performance of the alignment platform, especially in the process of high-speed operation and the rigid performance of the structure is better

Accessories of XXY precision positioning tables

Strict quality checks have been carried out incoming materials, assembly, testing and other links to ensure the accuracy, stability and service life of the platform of GIGA'S XXY precision positioning tables



尼得科/Nidec
Screw -C5 Grinding



锅屋百迪/NBK
Coupling - rigid Coupling



易格斯/Igus
Lines- ultra-flexible shield



恩碧/NB
Rail - Anti-peristaltic



克鲁勃/Klueber
Lubricating Oil, Low-dust Synthetic Fat



吉嘉/G+
Cross Roller Bearing-IP4 / Rail- Anti-peristaltic



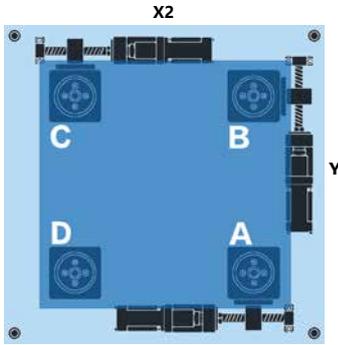
鸣志/Moons'
Motor- Two-phase Step Motor / Drive - pulse lines



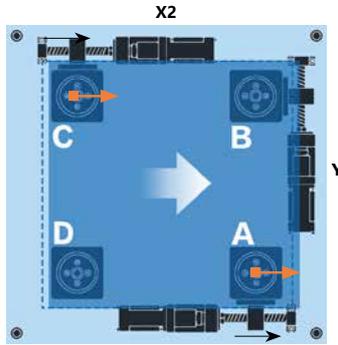
日本信浓/Shinano
Kenshi Motor - Two-phase Step Motor

■ XXY Moving Way

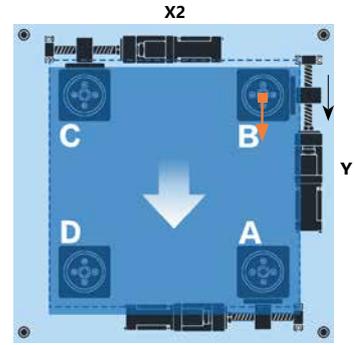
*Active shaft: A, B, C; Positive shaft: D



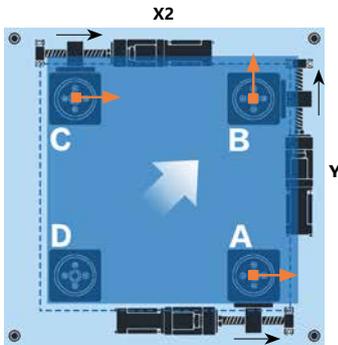
01 Initial Position
X1, X2, Y stay in original



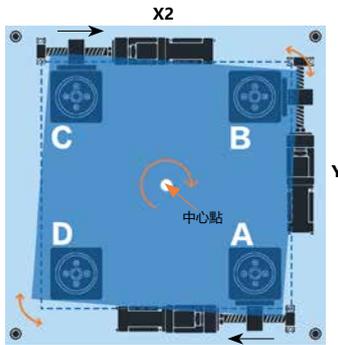
02 X Move Direction
X1, X2 working, Y stay



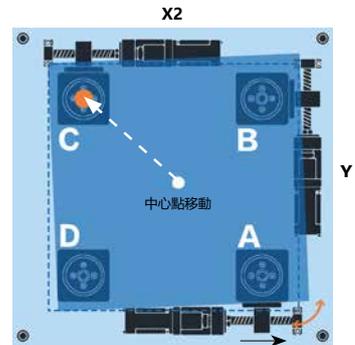
03 Y Move Direction
X1, X2 stay, Y working



04 Random Oblique Move
X1, X2, Y working according to the program algorithm

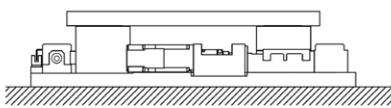


05 Rotation With The Center of Platform
X1, X2, Y working according to the program algorithm

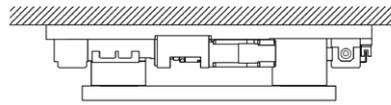


06 Rotation With Any Point As Center
X1, X2, Y working according to the program algorithm

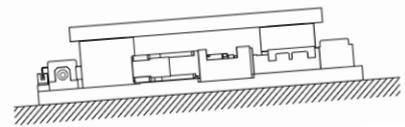
■ Installation and Precaution



Horizontal Installation ✓

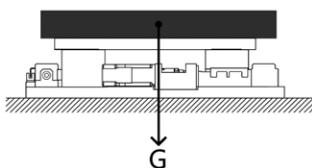


Invert Installation ✓

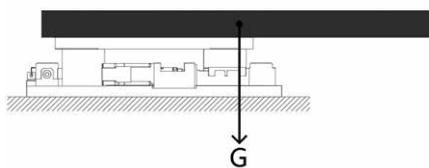


Tilting Installation ✗

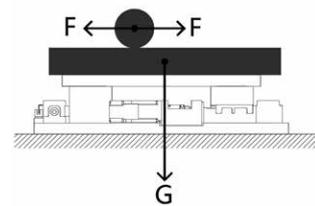
■ Load Installation and Precaution



* Platform stress needs to be evenly distributed during load installation



* The load is centered on the platform side



* Increase load during operation

* The load is forced on the side of the platform and the load increased during operation. Please consult your local dealer

■ XXY160 Series

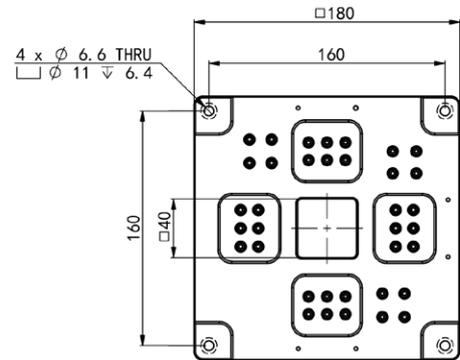
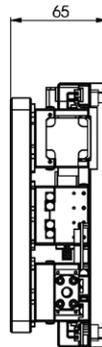
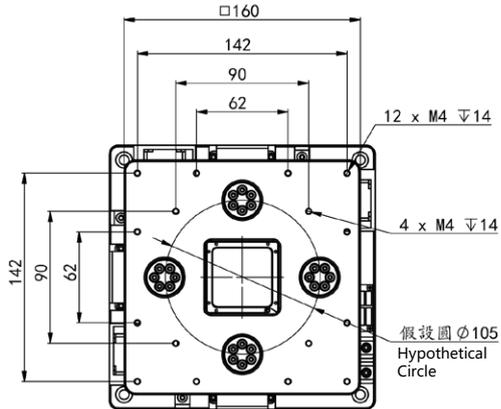
XXY	160	- 5	- M	C	4	0	- B28
Series	Size	Stroke	Drive Type	Support	Rails	Brakes	Motor
3 Axes		±5mm	Mid-drive	Cross Type	4: 4 pcs	0: None 1: 1 pc	B28: Dedicated 28 Stepper Motor

■ XXY160 Technical Parameters

Item	Model	XXY160-5-MC40-B28 XXY160-5-MC41-B28	
Table Size	mm	160×160	
Base Size	mm	180×180	
Height	mm	65	
Stroke	mm	±5	
Repeatability	µm	2	
Movement	°	±5	
Flatness	mm	±0.02	
Motor		Dedicated 28 Stepper Motor	
Screw Lead	mm	1	
Suggested Dynamic Load	kg	30	
Static Load	kg	120	
Surface Treatment		Black Anodized	
Weight	kg	3	

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

■ XXY160-5-MC40-B28
 XXY160-5-MC41-B28



XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

■ XXY200 Series

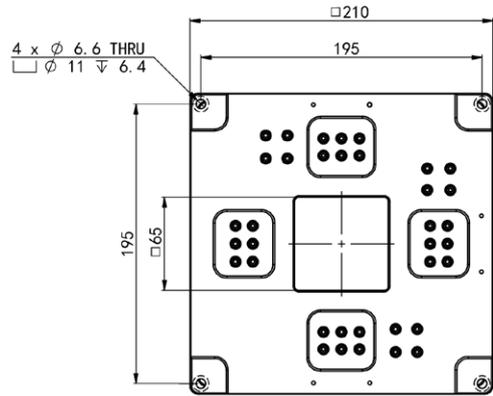
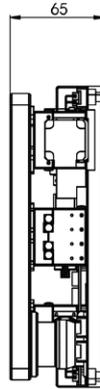
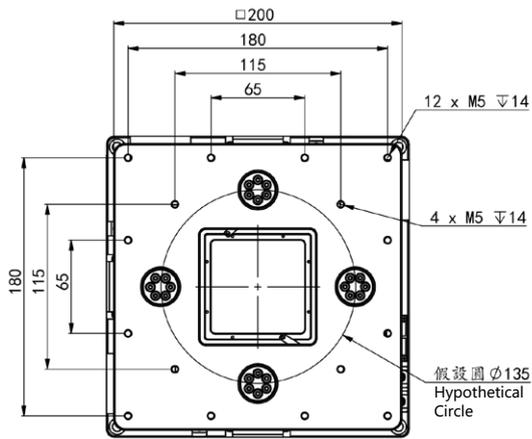
XXY	200	- 5	- M	C	4	0	- B28
Series	Size	Stroke	Drive Type	Support	Rails	Brakes	Motor
3 Axes		±5mm	Mid-drive	Cross Type	4: 4 pcs	0: None 1: 1 pc	B28: Dedicated 28 Stepper Motor S5ZC1: 50W Servo Motor Connector PCD45-Φ30-Φ8-M3 S5ZC2: 50W Servo Motor Connector PCD46-Φ30-Φ8-M4

■ XXY200 Technical Parameters

Item	Model	XXY200-5-MC40-B28 XXY200-5-MC41-B28		XXY200-5-MC40-S5ZC1 XXY200-5-MC40-S5ZC2 XXY200-5-MC41-S5ZC1 XXY200-5-MC41-S5ZC2	
		Table Size	mm	200×200	
Base Size	mm	210×210			
Height	mm	65			
Stroke	mm	±5			
Repeatability	μm	2			
Movement	°	±4			
Flatness	mm	±0.02			
Motor		Dedicated 28 Stepper Motor		50W Servo Motor Connector	
Screw Lead	mm	1			
Suggested Dynamic Load	kg	30			
Static Load	kg	120			
Surface Treatment		Black Anodized			
Weight	kg	4			

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

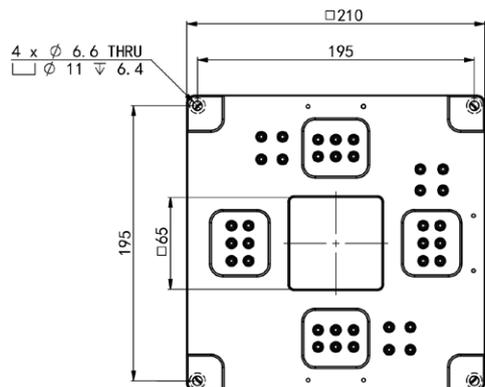
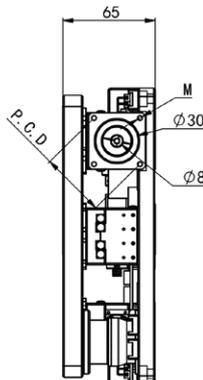
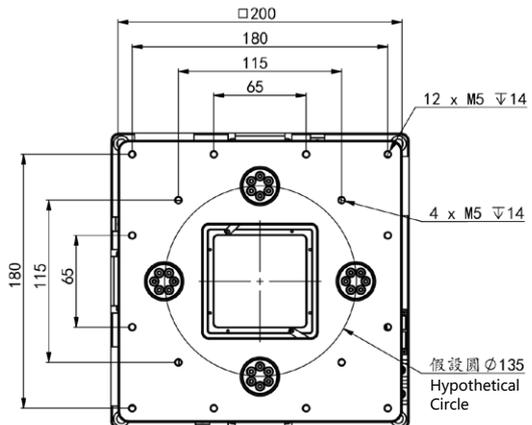
■ XXY200-5-MC40-B28
 XXY200-5-MC41-B28



■ XXY200-5-MC40-S5ZC1
 XXY200-5-MC40-S5ZC2
 XXY200-5-MC41-S5ZC1
 XXY200-5-MC41-S5ZC2



S5ZC1: 50W Servo Motor Connector
 PCD45-Φ30-Φ8-M3
 S5ZC2: 50W Servo Motor Connector
 PCD46-Φ30-Φ8-M4



■ XXY250 Series

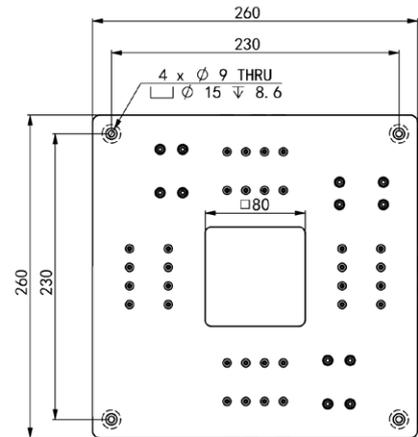
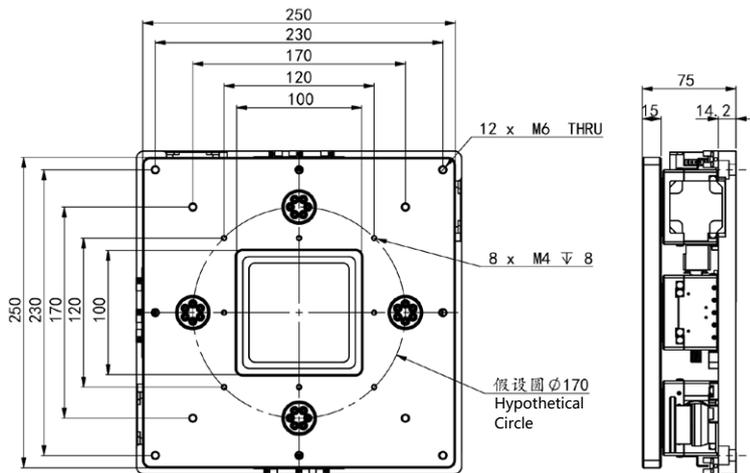
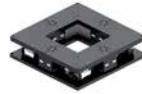
XXY	250	- 7 -	M	C	4	0	- B42
Series	Size	Stroke	Drive Type	Support	Rails	Brakes	Motor
3 Axes		±7mm	Mid-drive	Cross Type	4: 4 pcs	0: None 1: 1 pc	B42: Dedicated 42 Stepper Motor S10C1: 100W Servo Motor Connector PCD45-Φ30-Φ8-M3 S10C2: 100W Servo Motor Connector PCD46-Φ30-Φ8-M4

■ XXY250 Technical Parameters

Item	Model	XXY250-7-MC40-B42 XXY250-7-MC41-B42	
		XXY250-7-MC40-S10C1 XXY250-7-MC40-S10C2 XXY250-7-MC41-S10C1 XXY250-7-MC41-S10C2	
Table Size	mm	250×250	
Base Size	mm	260×260	
Height	mm	75	
Stroke	mm	±7	
Repeatability	μm	2	
Movement	°	±4.5	
Flatness	mm	±0.02	
Motor		Dedicated 42 Stepper Motor	100W Servo Motor Connector
Screw Lead	mm	2	
Suggested Dynamic Load	kg	80	
Static Load	kg	120	
Surface Treatment		Black Anodized	
Weight	kg	7	

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

**■ XXY250-7-MC40-B42
XXY250-7-MC41-B42**

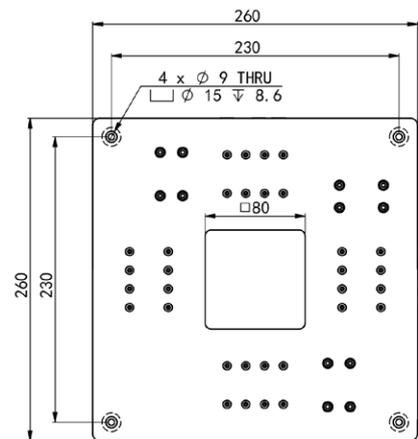
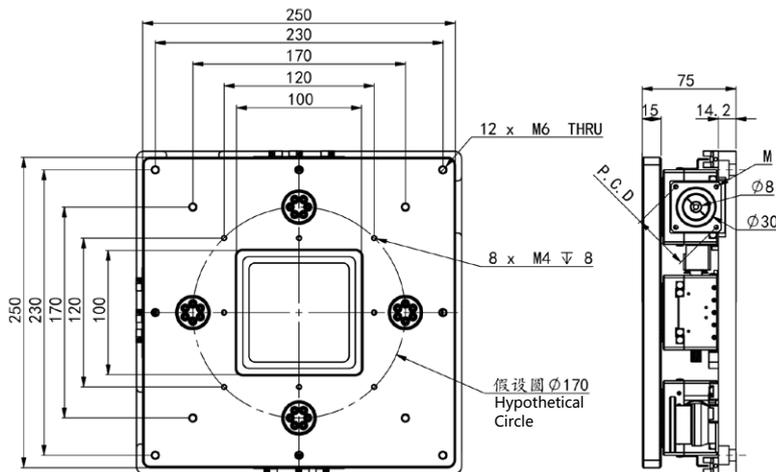


XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

**■ XXY250-7-MC40-S10C1
XXY250-7-MC40-S10C2
XXY250-7-MC41-S10C1
XXY250-7-MC41-S10C2**



S10C1: 100W Servo Motor Connector;
PCD45- ϕ 30- ϕ 8-M3
S10C2: 100W Servo Motor Connector;
PCD46- ϕ 30- ϕ 8-M4



■ XXY300 Series

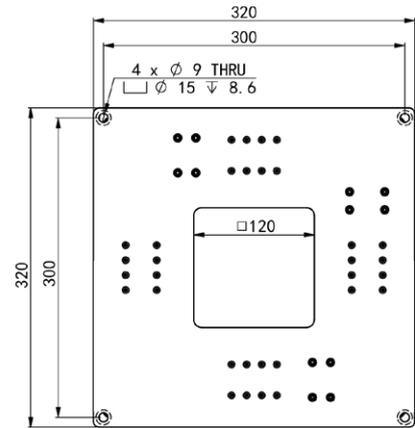
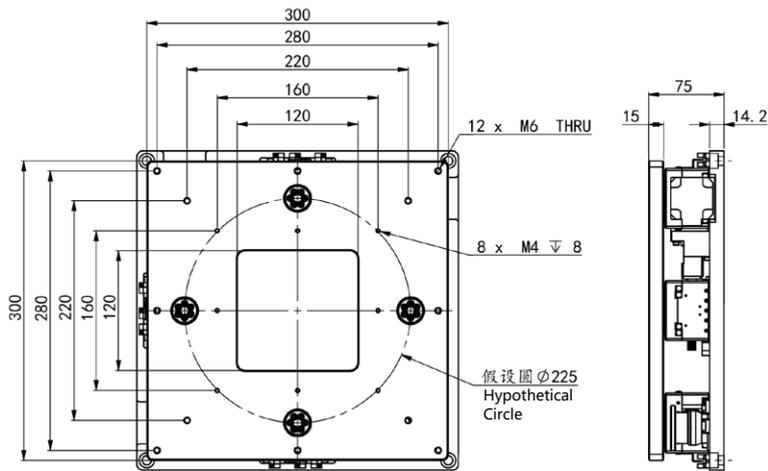
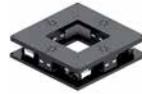
XXY	300	- 7 -	M	C	4	0	- B42
Series	Size	Stroke	Drive Type	Support	Rails	Brakes	Motor
3 Axes		±7mm	Mid-drive	Cross Type	4: 4 pcs	0: None 1: 1 pc	B42: Dedicated 42 Stepper Motor S10C1: 100W Servo Motor Connector PCD45-Φ30-Φ8-M3 S10C2: 100W Servo Motor Connector PCD46-Φ30-Φ8-M4

■ XXY300 Technical Parameters

Item	Model	XXY300-7-MC40-B42 XXY300-7-MC41-B42	
		XXY300-7-MC40-S10C1 XXY300-7-MC40-S10C2 XXY300-7-MC41-S10C1 XXY300-7-MC41-S10C2	
Table Size	mm	300×300	
Base Size	mm	320×320	
Height	mm	75	
Stroke	mm	±7	
Repeatability	μm	2	
Movement	°	±3.5	
Flatness	mm	±0.02	
Motor		Dedicated 42 Stepper Motor	100W Servo Motor Connector
Screw Lead	mm	2	
Suggested Dynamic Load	kg	80	
Satic Load	kg	120	
Surface Treatment		Black Anodized	
Weight	kg	9	

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

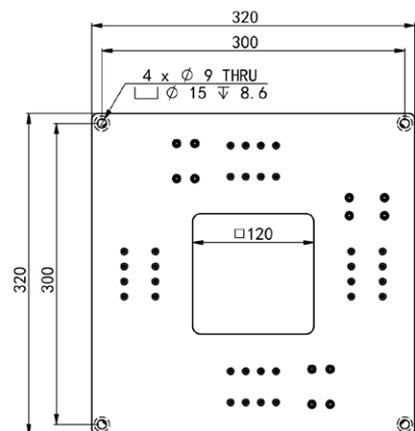
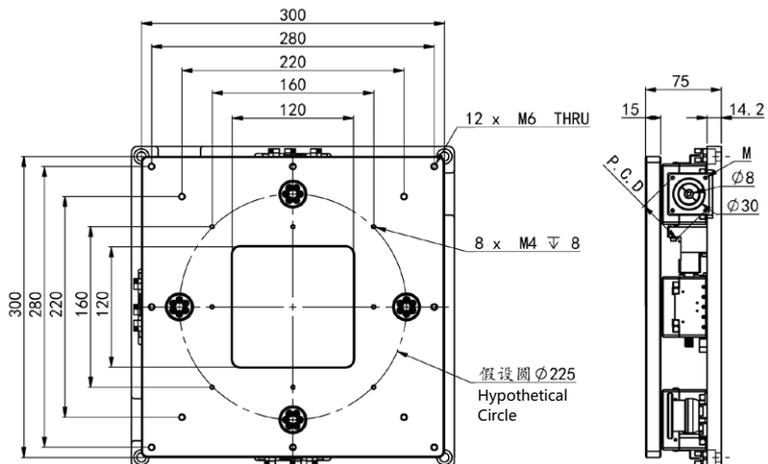
**■ XXY300-7-MC40-B42
XXY300-7-MC41-B42**



**■ XXY300-7-MC40-S10C1
XXY300-7-MC40-S10C2
XXY300-7-MC41-S10C1
XXY300-7-MC41-S10C2**



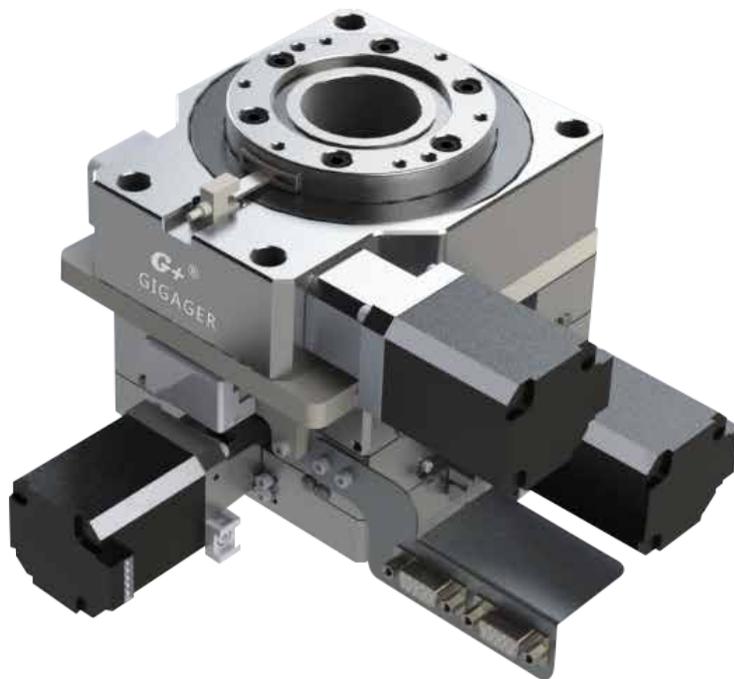
S10C1: 100W Servo Motor Connector;
PCD45-φ30-φ8-M3
S10C2: 100W Servo Motor Connector;
PCD46-φ30-φ8-M4





Precision Electric Slides/GXYR Series

XY θ Three-axis All-in-one Electric Slides
Multi-point Positioning Control



Precision XY θ Electric Slides Three-axis All-in-one

■ GX YR Model Code

Series	Size	XY Stroke	R Angle	Motor
GXYR	80	15	10	OS
	80: 80mm	15: ±15mm	10: ±10°	OS: Open Loop Stepper Motor
	120: 120mm	25: ±25mm	360: 360°	

■ Model Selection

Screw Feed Distance: $L = \sin\theta \cdot R$

Worktable Rotation Angle: $\theta = \sin(L/R)$

R = Rotary Wheelbase

L = Screw Feed Distance

GXYR80-15-10-OS

Demonstration of worktable rotation angle calculation

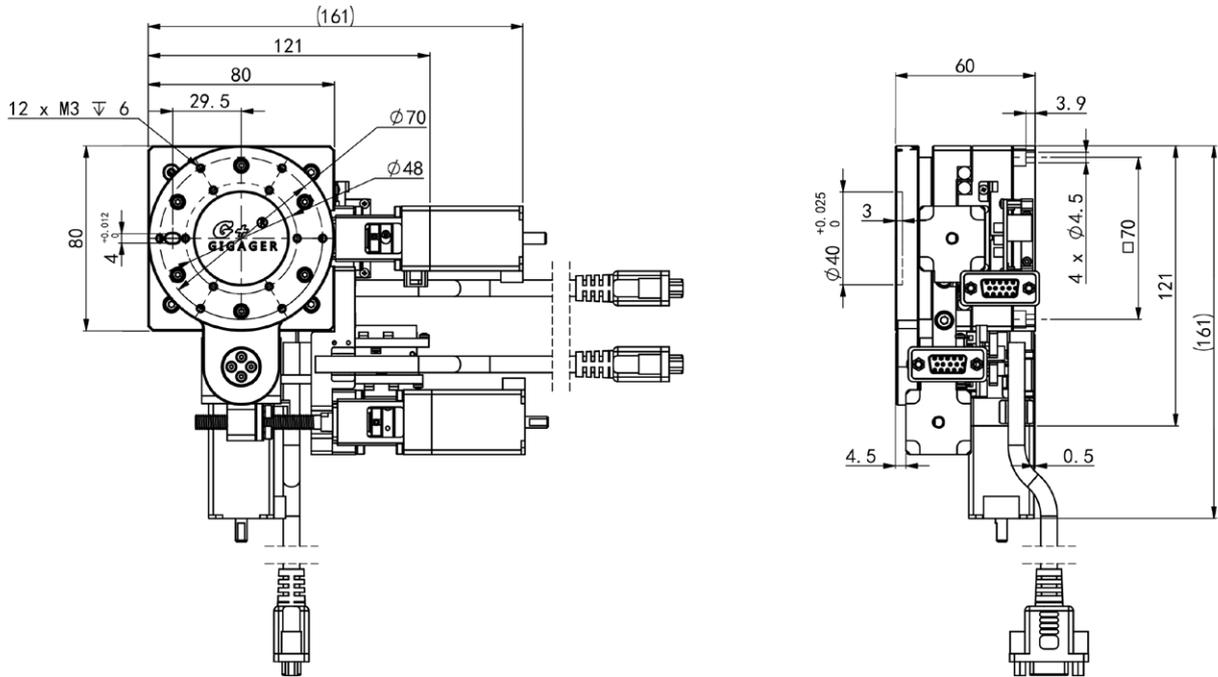
$$\theta = \sin(1/55.5) / \pi * 180 = 1.0323^\circ$$

Demonstration of screw feed distance calculation

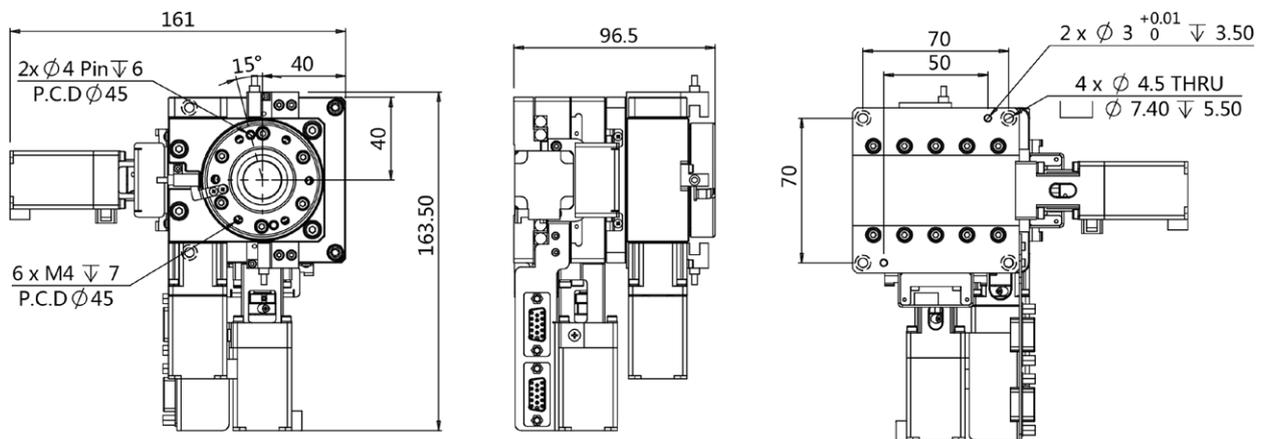
$$L = \sin(1.0323^\circ) * 55.5 = 1\text{mm}$$

Item	Model				
	GXYR80-15-10-OS	GXYR80-15-360-OS	GXYR120-25-360-OS		
Table Size	mm	80	80	120	
X Axis Stroke	mm	±15	±15	±25	
Y Axis Stroke	mm	±15	±15	±25	
R Angle	°	±10	360		
Transmission Way		Screw Drive			
Guide XY Axes		Cross Roller Guides			
Guide Bearing		Cross Roller Bearings			
Flatness	mm	0.02			
Stroke/ Gear Ratio	X Axis	mm	1	1	2
	Y Axis	mm	1	1	2
	R Axis	mm	1	90:1	90:1
Repeatability	X Axis	µm	2		
	Y Axis	µm	2		
	R Axis	°	±0.005		
Face Runout	mm	0.005			
Side Face Runout	mm	0.005			
Suggested Dynamic Load	kg	Horizontal Installation ≤ 15		Horizontal Installation ≤ 30	
Weight	kg	1.8	2.8	6.5	

■ GX YR80-15-10-OS

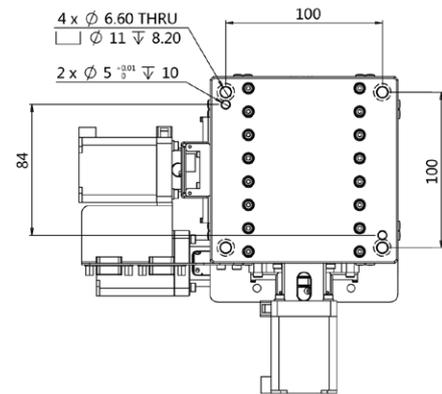
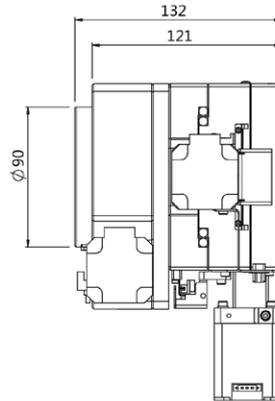
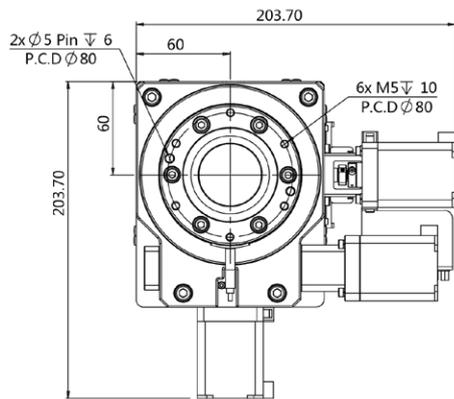


■ GX YR80-15-360-OS



XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

■ GX YR120-25-360-OS



XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
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Precision Electric Slides/GX Series

Suit for X-axis Linear Motion
Multi-point Positioning Control



Precision X-Axis Electric Slides

GX Model Code

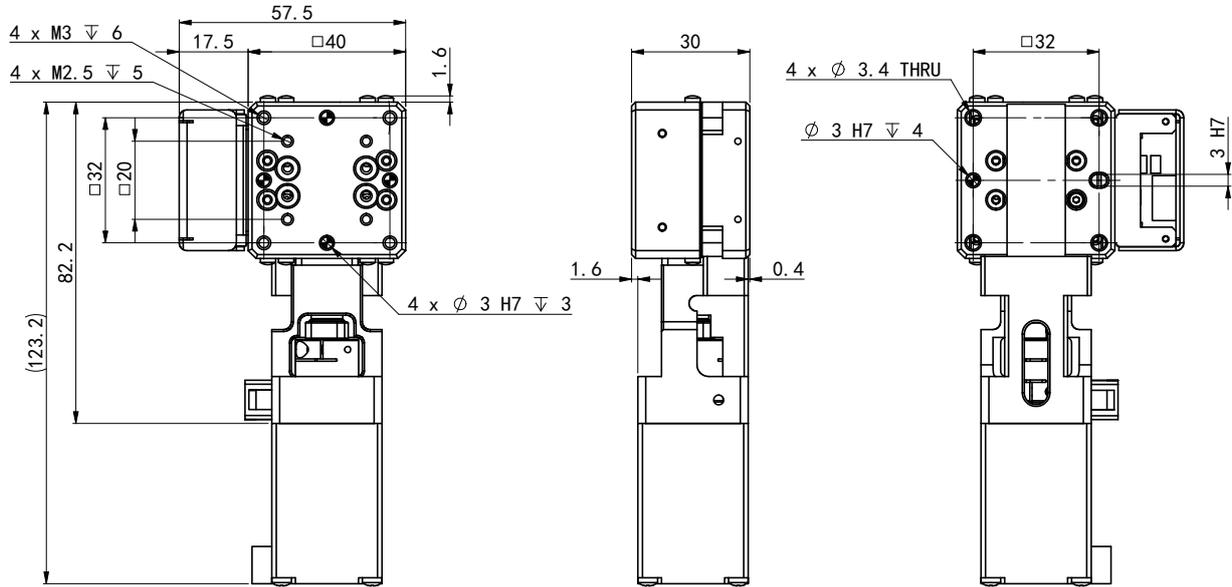
	GX	40	6.5	L	B28
	Series	Size	Stroke	Outlet Direction	Motor
	X Axis	40: 40×40mm	6.5: ±6.5mm	L: Left	B28: Dedicated 28 Open Loop Stepper Motor
XXY		60: 60×60mm	15: ±15mm	R: Right	B42: Dedicated 42 Open Loop Stepper Motor
GXYR		80: 80×80mm	20: ±20mm		BC28: Dedicated 28 Closed Loop Stepper Motor
GX		100: 100×100mm	25: ±25mm		BC42: Dedicated 42 Closed Loop Stepper Motor
GZ		120: 120×120mm	35: ±35mm		B28C1: 28 Servo Motor Connector Φ5-Φ22-Φ32.53-Φ3
GTZ		150: 150×150mm	45: ±45mm		B42C1: 42 Stepper Motor Connector Φ5-Φ22-Φ43.84-Φ3.5
GXY					S05C1: 50W Servo Motor Connector Φ8-Φ30-Φ45-M3
GR					S05C2: 50W Servo Motor Connector Φ8-Φ30-Φ46-M4
GYH					
GSH					
GSR					
GSHR					
GSA					
GSN					
GSB					
GSG					
Parameter					
GSZ					
GMR					
GMC					
GMA					
GML					

Technical Parameters

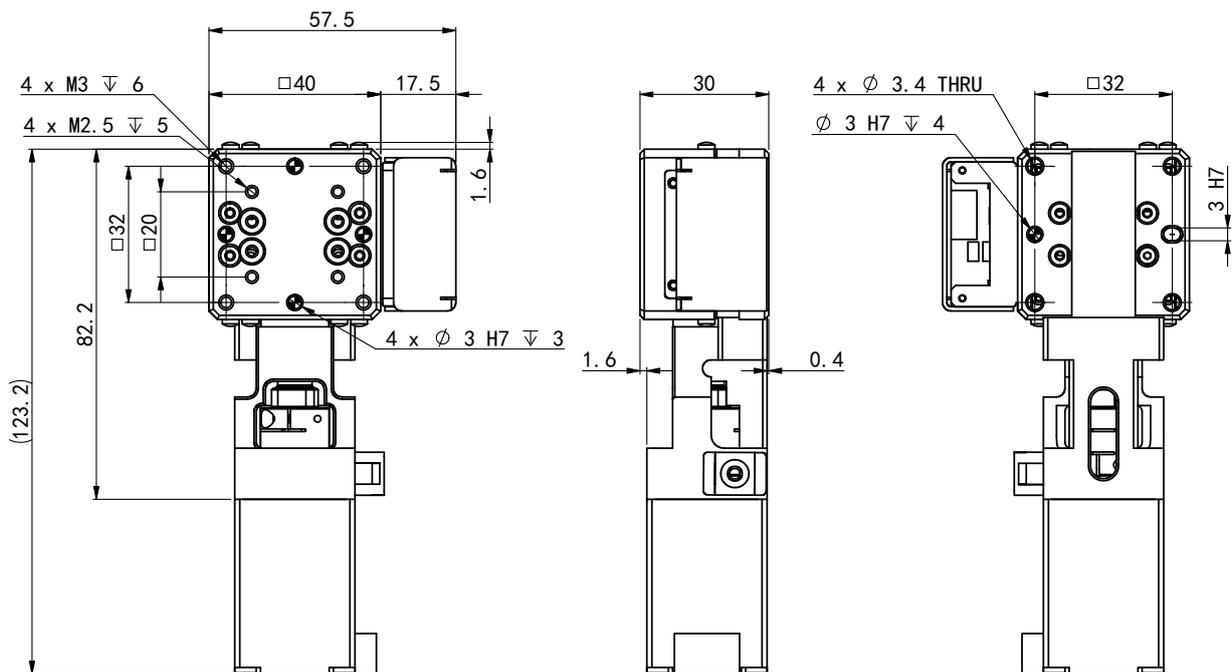
Parameters	Model						
	GX40-6.5L GX40-6.5R	GX60-15L GX60-15R	GX80-20	GX100-25	GX120-35	GX150-45	
Table Size	mm	40×40	60×60	80×80	100×100	120×120	150×150
Base Size	mm	40×40	60×60	80×80	100×100	120×120	150×150
Height	mm	30	30	40	42	45	44
Stroke	mm	±6.5	±15	±20	±25	±35	±45
One-way Repeatability	mm	±0.001					
Flatness	mm	0.03					
Screw Stroke	mm	1			2		
Suggested Dynamic Load	Horizontal Installation	kg	≤ 10	≤ 30	≤ 50		
	Vertical Installation	kg	≤ 5	≤ 7	≤ 20		
Static Load	kg	≤ 60	≤ 60	≤ 100			
Surface Treatment		Black Anodized					
Weight (no motor)	kg	0.22	0.41	0.65	1.3	1.8	2.6

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If there are any upgrades or changes to the product's structure, specifications, dimensions, or parameters, we will not notify you further. Thanks for your understanding

■ GX40-6.5L

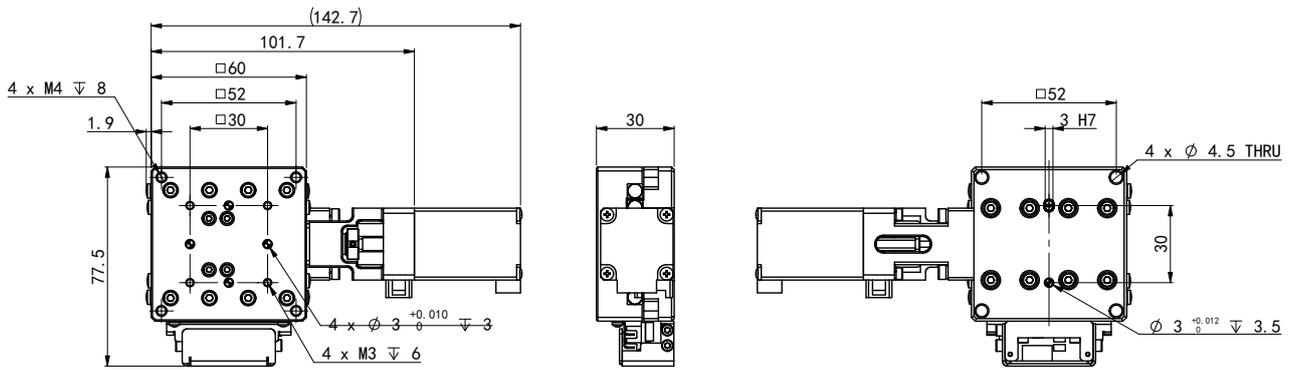


■ GX40-6.5R

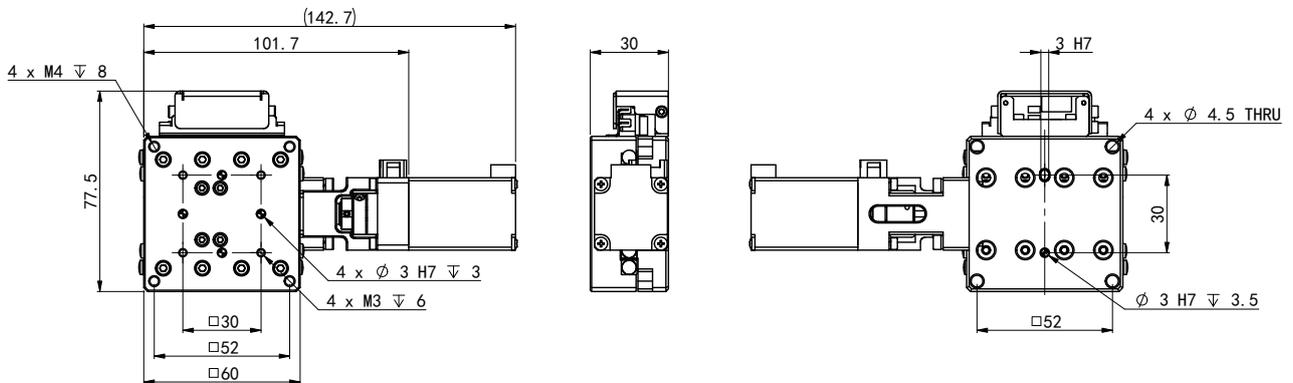


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■ GX60-15L

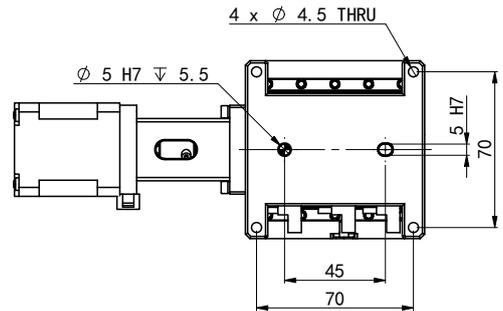
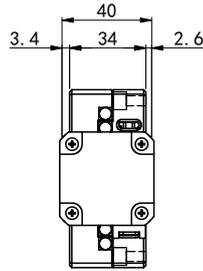
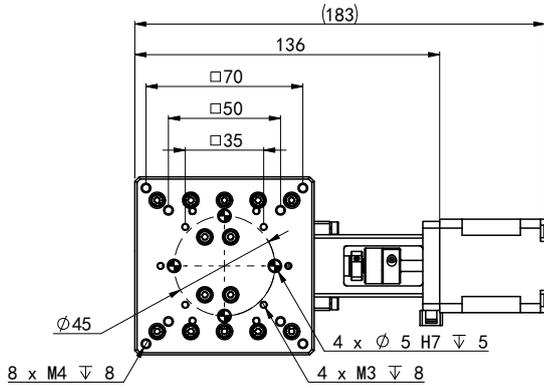


■ GX60-15R

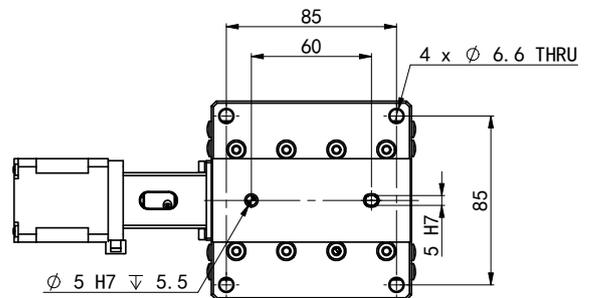
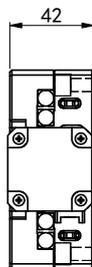
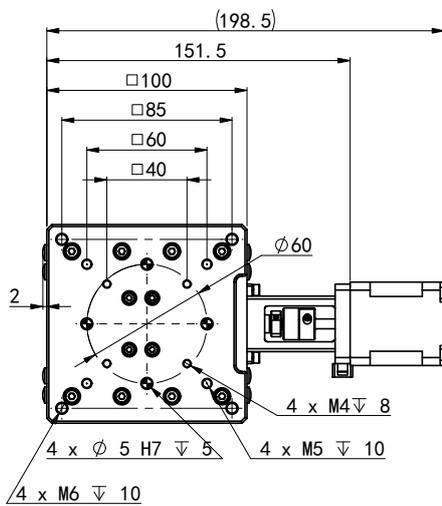


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■ GX80-20

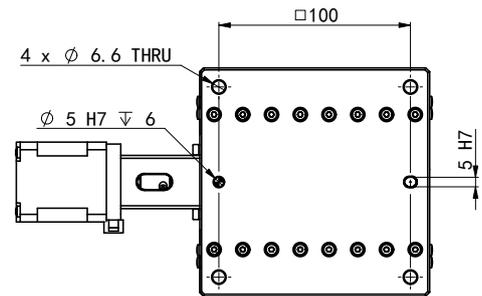
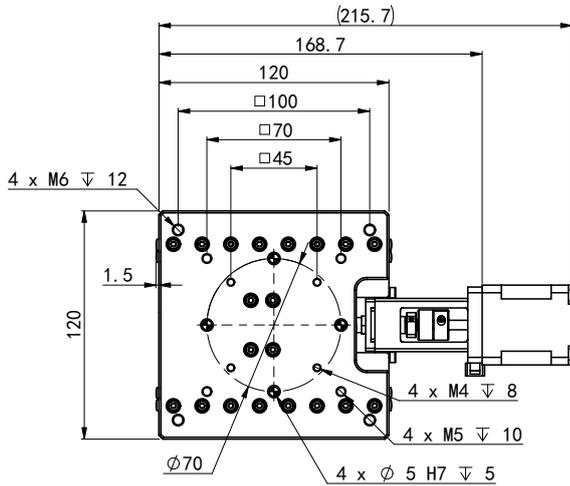


■ GX100-25

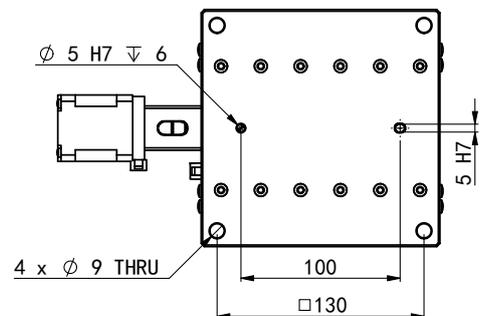
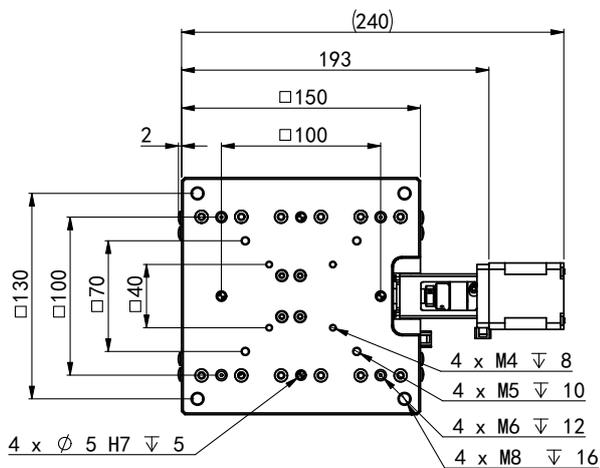


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■ GX120-35



■ GX150-45

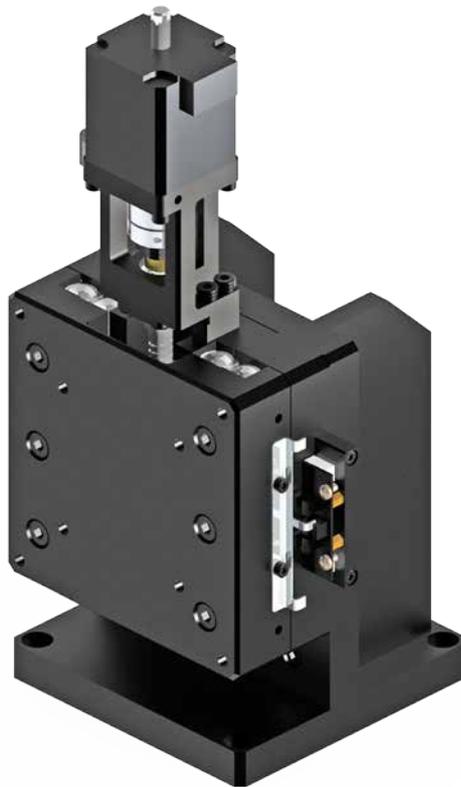


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Precision Electric Slides/GZ Series

Suit for Z-axis Linear Motion
Multi-point Positioning Control



Precision Z-Axis Electric Slides

GZ Model Code

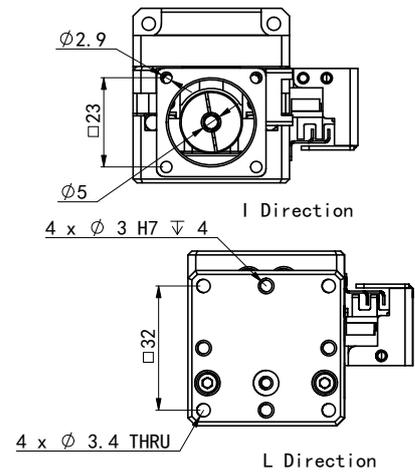
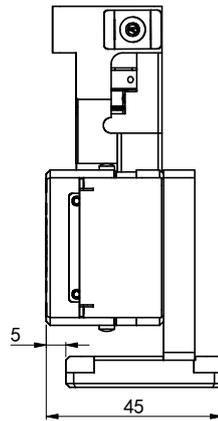
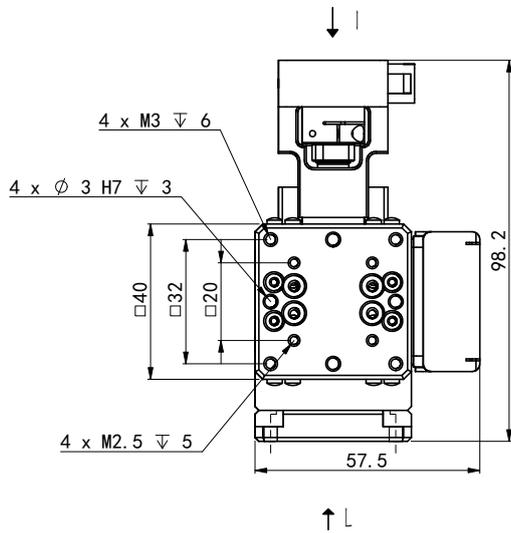
	GZ	40	-	6.5	L	-	B28C
	Series	Size		Stroke	Outlet Direction		Motor
	Z Axis	40: 40×40mm		6.5: ±6.5mm	L: Left		B28: Dedicated 28 Open Loop Stepper Motor
XXY		60: 60×60mm		15: ±15mm	R: Right		B42: Dedicated 42 Open Loop Stepper Motor
GXYR		80: 80×80mm		20: ±20mm			B28C1: 28 Stepper Motor Connector Φ5-Φ22-Φ32.53-Φ3
GX		100: 100×100mm		25: ±25mm			B42C1: 42 Stepper Motor Connector Φ5-Φ22-Φ43.84-Φ3.5
GZ		120: 120×120mm		35: ±35mm			S05C1: 50W Servo Motor Connector Φ8-Φ30-Φ45-M3
GTZ		150: 150×150mm		45: ±45mm			S05C2: 50W Servo Motor Connector Φ8-Φ30-Φ46-M4
GXY							
GR							
GYH							
GSH							
GSR							
GSHR							
GSA							
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■ Technical Parameters

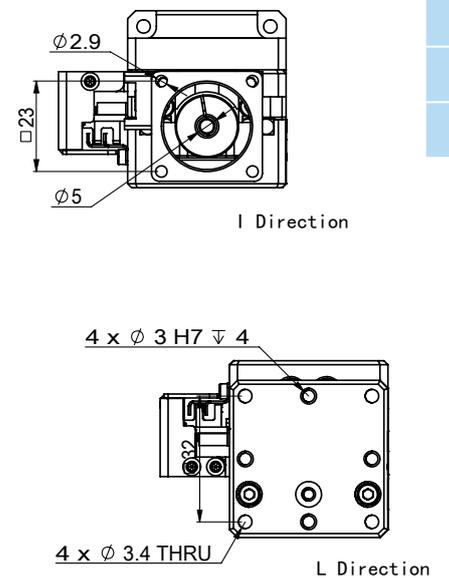
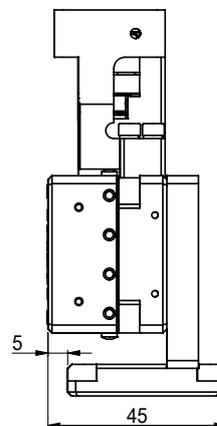
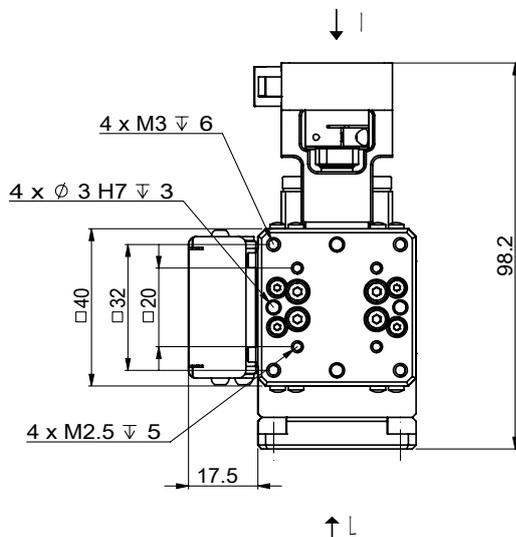
Parameters	Model						
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Table Size	mm	40×40	60×60	80×80	100×100	120×120	150×150
Base size	mm	40×40	60×60	80×80	100×100	120×120	150×150
Stroke	mm	±6.5	±15	±20	±25	±35	±45
One-way Repeatability	mm	±0.001					
Verticality	mm	0.03					
Screw Lead	mm	1			2		
Suggested Dynamic Load	kg	≤ 5	≤ 7	≤ 20			
Static Load	kg	≤ 30	≤ 60	≤ 100	≤ 150	≤ 100	-
Surface Treatment		Black Anodized					
Weight (no motor)	kg	0.3	0.63	1.05	2.1	2.93	4.3

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■ GZ40-6.5L

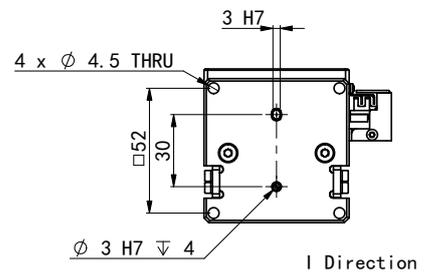
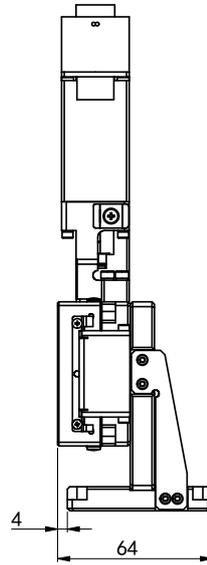
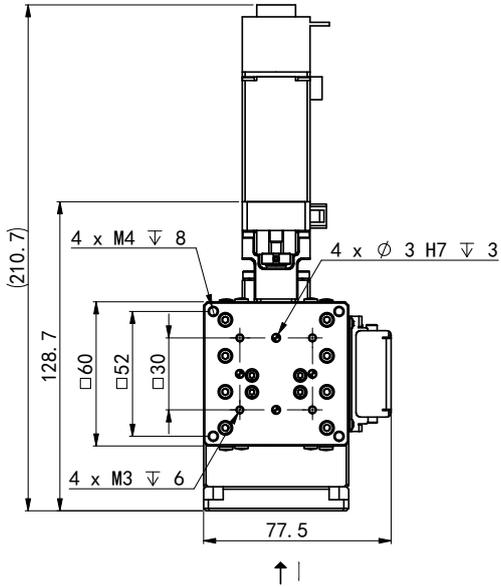


■ GZ40-6.5R

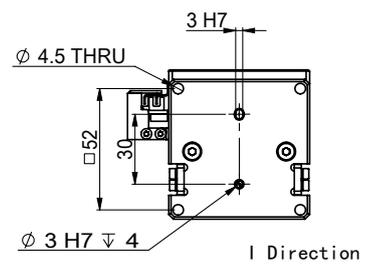
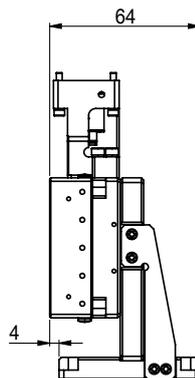
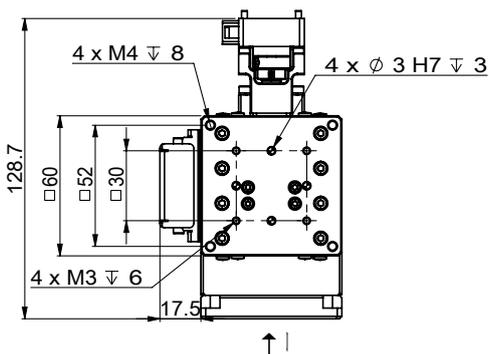
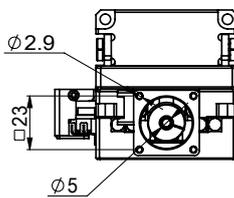


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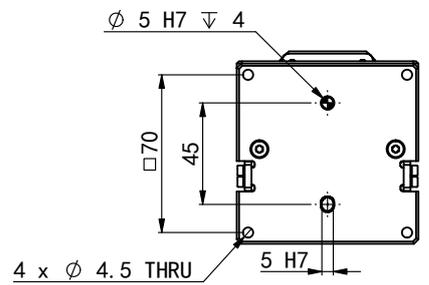
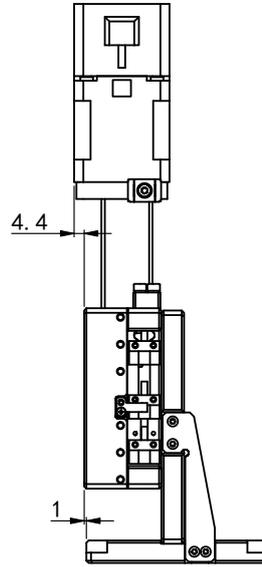
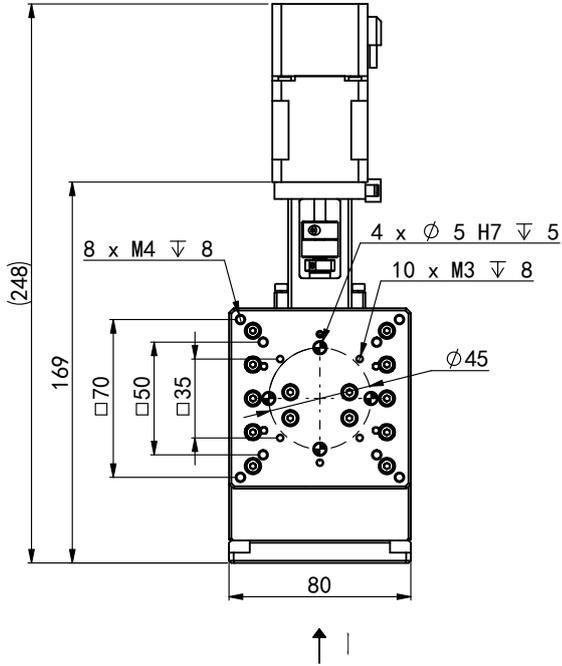
■ GZ60-15L



■ GZ60-15R

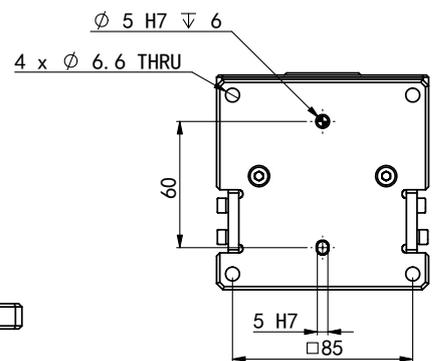
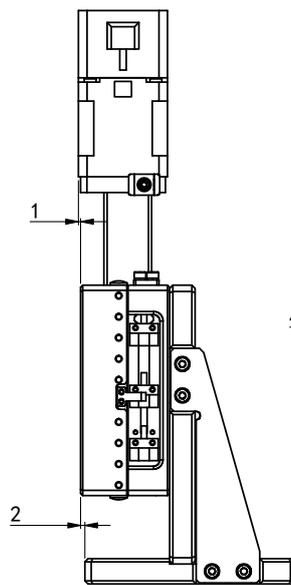
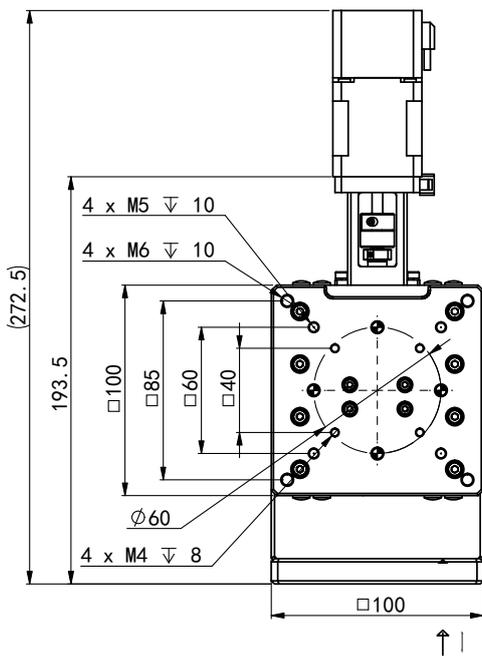


■ GZ80-20



I Direction

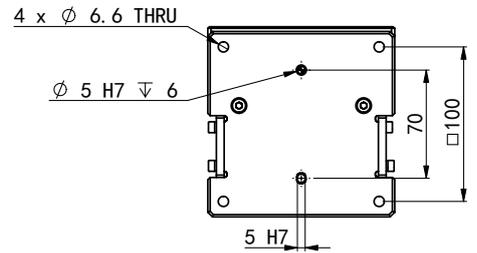
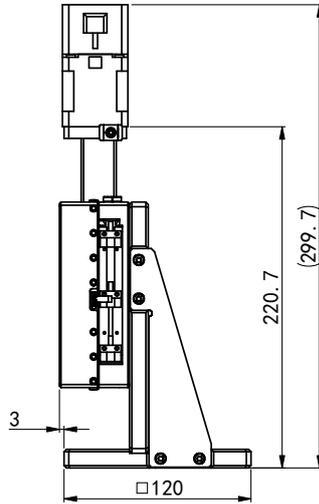
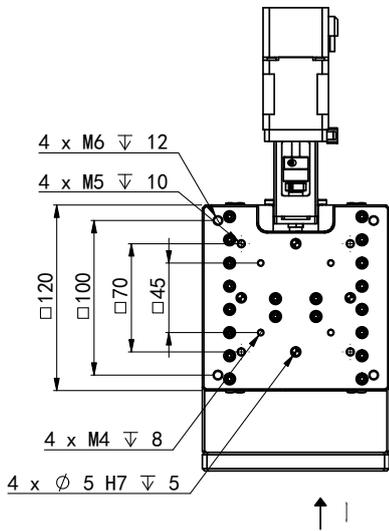
■ GZ100-25



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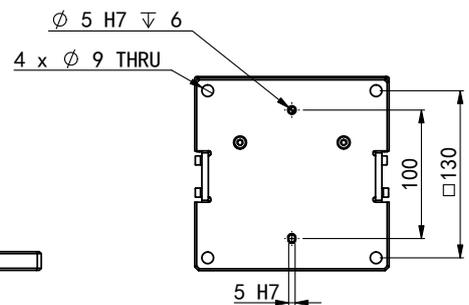
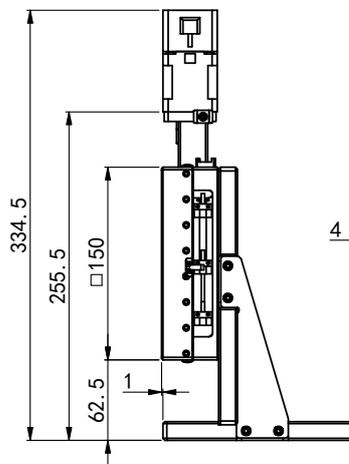
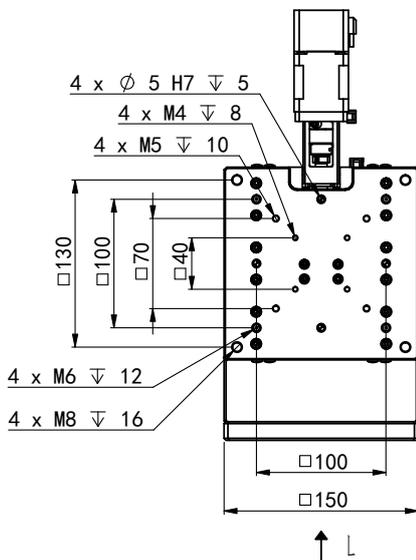
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■ GZ120-35



I Direction

■ GZ150-45

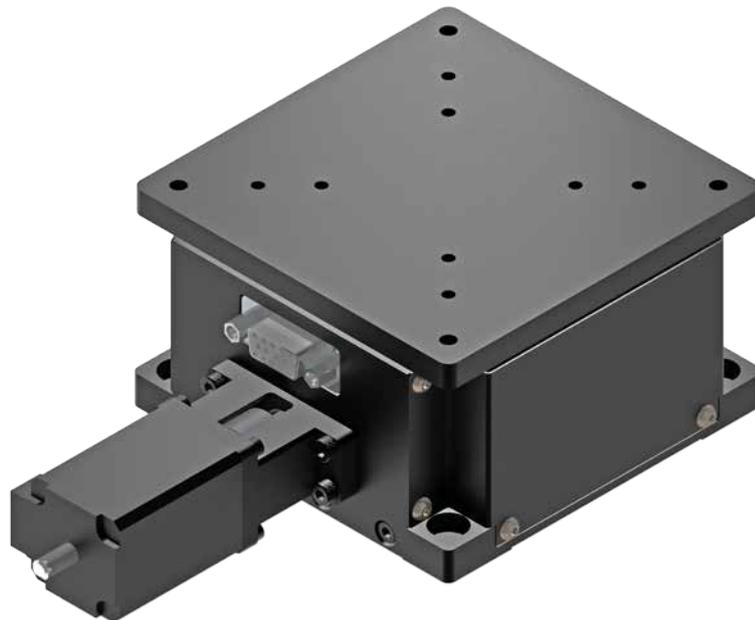


L Direction



Precision Electric Slides/GTZ Series

Joint Application of Oblique Deed & Slider
Z-axis Motion & Multi-point Positioning Control



Precision Oblique Deed Z Axis Electric Slides

GTZ Model Code

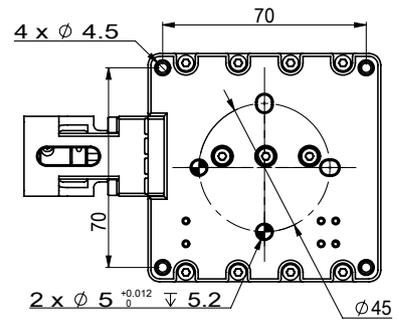
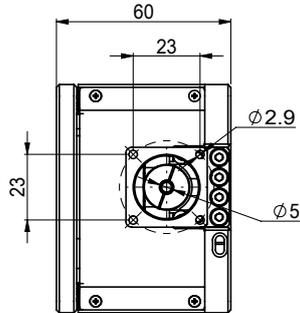
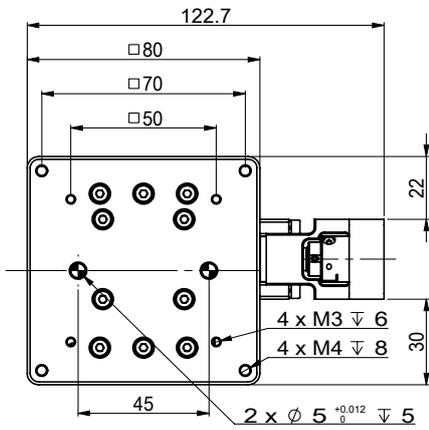
	GTZ	80	-	10	-	B28C
	Series	Size		Stroke		Motor
XXY	Z Axis	80: 80×80mm		10: 0-10mm		B28C1: 28 Stepper Motor Connector Φ5-Φ22-Φ32.53-Φ3
GXYR		100: 100×100mm		20: 0-20mm		B42C1: 42 Stepper Motor Connector Φ5-Φ22-Φ43.84-Φ3.5
GX		120: 120×120mm		25: 0-25mm		S10C2: 100W Servo Motor Connector Φ8-Φ30-Φ50-M4
GZ		150: 150×150mm		40: 0-40mm		S20C2: 200W Servo Motor Connector Φ14-Φ50-Φ70-M5
GTZ		200: 200×200mm		45: 0-45mm		S20C3: 200W Servo Motor Connector Φ11-Φ50-Φ70-M4
GXY						S40C1: 400W Servo Motor Connector Φ14-Φ50-Φ70-M4
GR						S40C2: 400W Servo Motor Connector Φ14-Φ50-Φ70-M5
GYH						
GSH						
GSR						

Technical Parameters

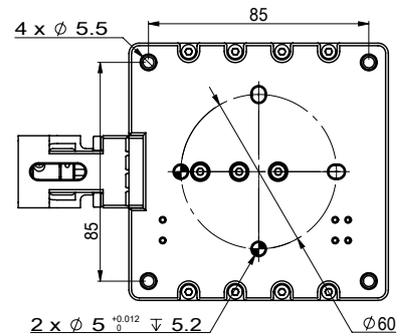
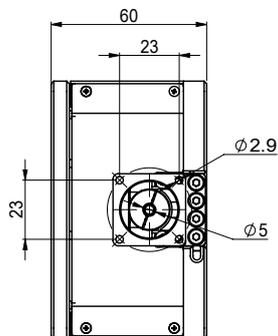
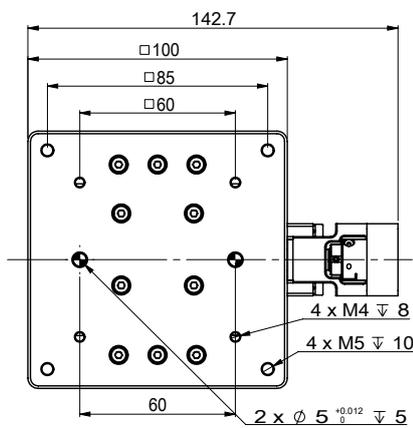
Parameters	Model					
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Table Size	mm	80×80	100×100	120×120	150×150	200×200
Base Size	mm	80×80	100×100	120×120	150×150	210×200
Height	mm	60	60	75	90	120
Stroke	mm	0-10	0-20	0-25	0-40	0-45
One-way Repeatability	mm	±0.001		±0.002		±0.003
Gear Ratio		1 : 2				
Verticality	mm	0.01				0.02
Screw Lead	mm	1		2		
Suggested Dynamic Load	kg	≤ 10	≤ 10	≤ 15	≤ 50	≤ 100
Static Load	kg	≤ 60	≤ 80	≤ 100	≤ 100	≤ 150
Surface Treatment		Black Anodized				
Weight (no motor)	kg	0.83	1.35	2.9	3.6	8.5

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■ GTZ80-10-B28C

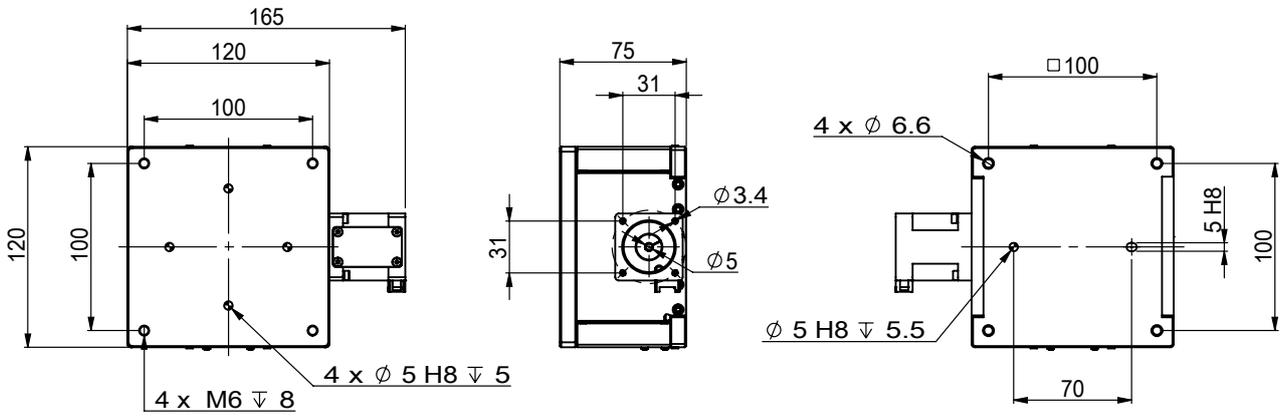


■ GTZ100-20-B28C

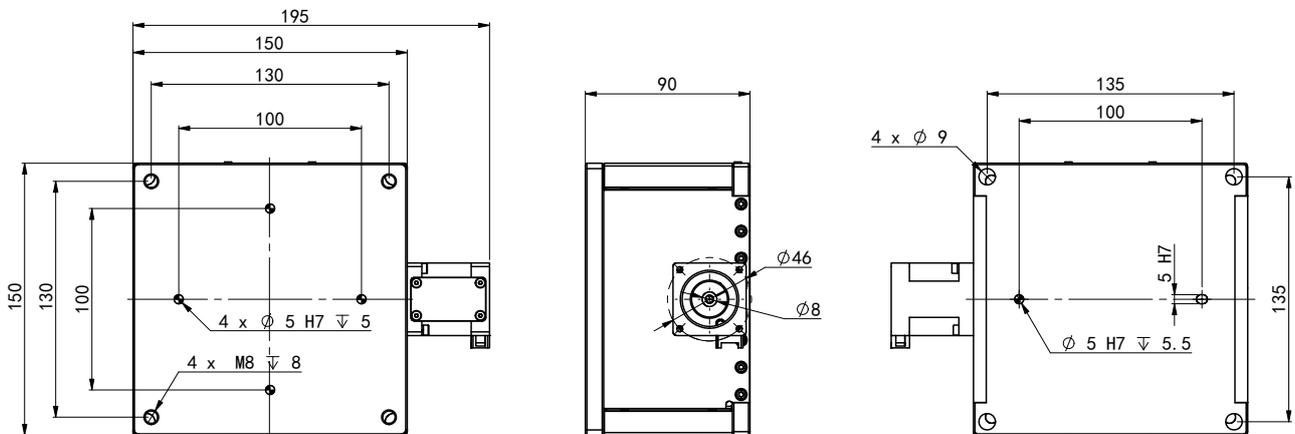


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■ GTZ120-25-B42C

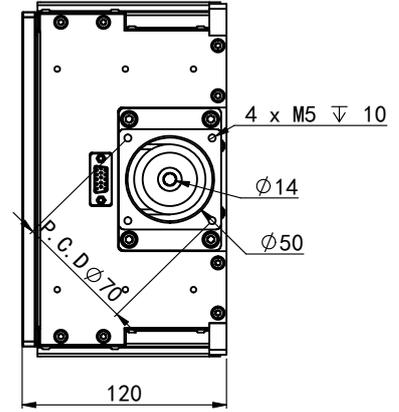
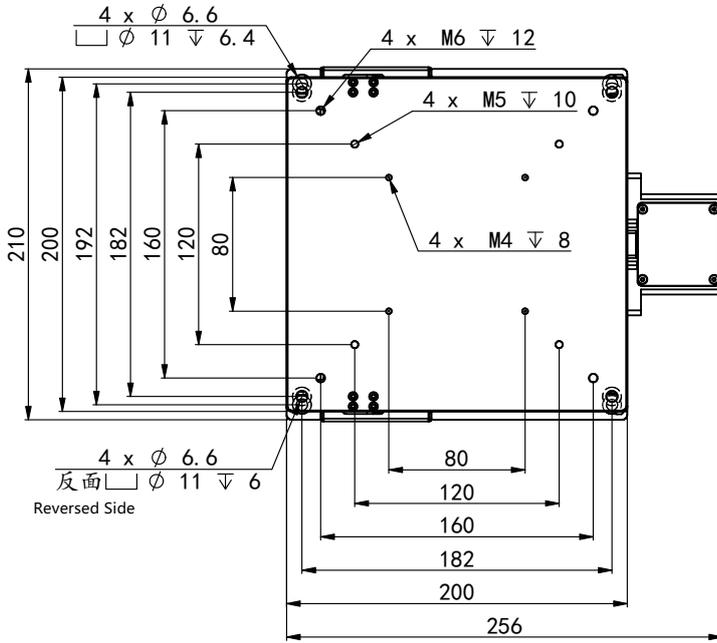


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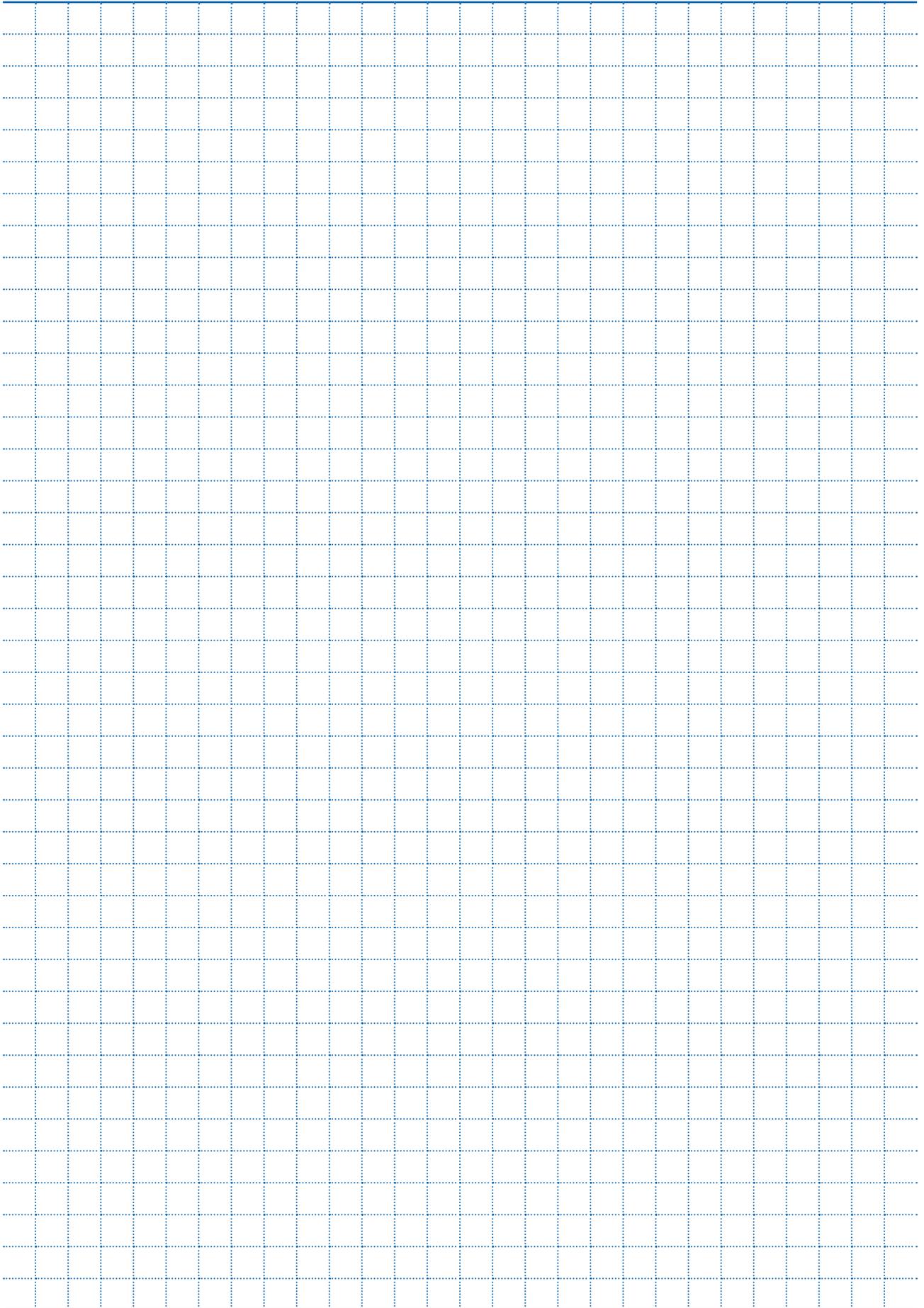


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GTZ200-45-S20C



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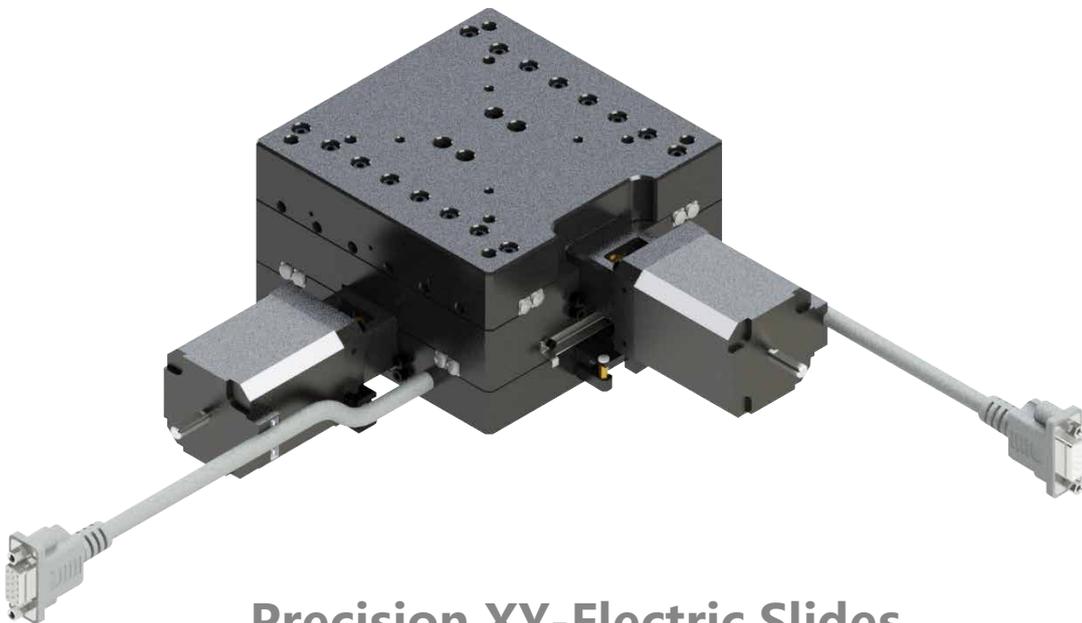




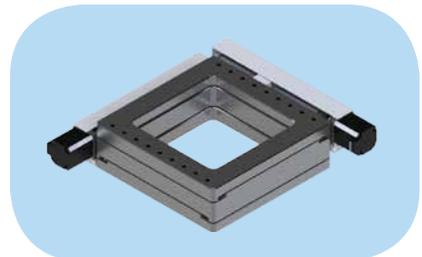
®

Precision Electric Slides/GXY Series

Suit for Combined Motion of X-axis & Y-axis
Multi-point Positioning Control



Precision XY-Electric Slides



GXY Model Code

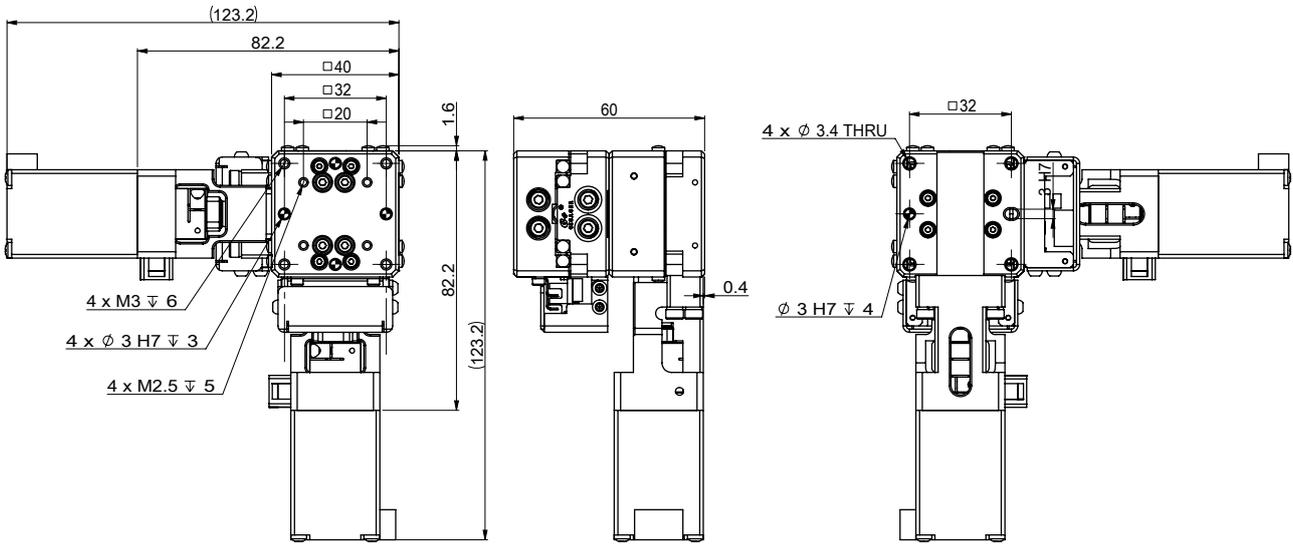
GXY		40		-	6.5		L	-	B28C		
Series	Size	Type	Stroke	Outlet Direction	Motor						
XY Axes	40: 40×40mm	T: Side Drive	6.5: ±6.5mm	L: Left	B28: Dedicated 28 Open Loop Stepper Motor						
XXY	60: 60×60mm	Blank: Standard	10: ±10mm	R: Right	B42: Dedicated 42 Open Loop Stepper Motor						
GXYR	80: 80×80mm		15: ±15mm	Blank: None	BC28: Dedicated 28 Closed Loop Stepper Motor						
GX	100: 100×100mm		20: ±20mm		B28C1: 28 Stepper Motor Connector Φ5-Φ22-Φ32.53-Φ3						
GZ	120: 120×120mm		25: ±25mm		B42C1: 42 Stepper Motor Connector Φ5-Φ22-Φ43.84-Φ3.5						
GTZ	150: 150×150mm		35: ±35mm		S10C2: 100W Servo Motor Connector Φ8-Φ30-Φ46-M4						
GXY			45: ±45mm								

Technical Parameters

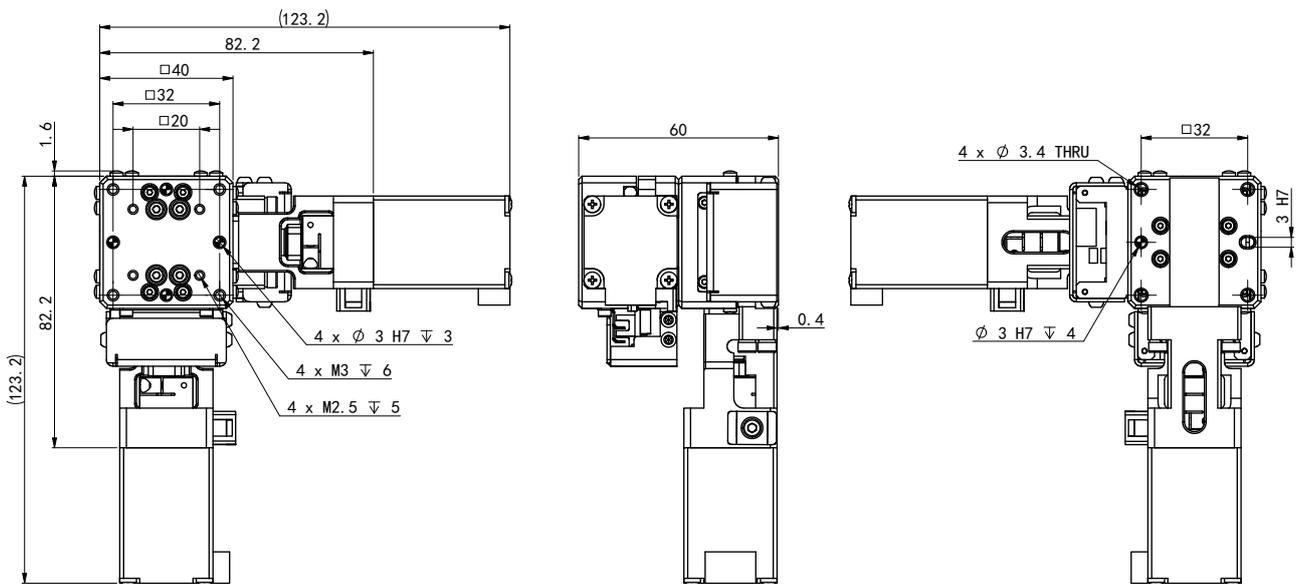
Parameters	Model								
	GXY40-6.5L GXY40-6.5R	GXY60-15L GXY60-15R	GXY60T-10	GXY80-20	GXY100-25	GXY100T-10	GXY120-35	GXY150-45	
Table Size	mm	40×40	60×60	60×60	80×80	100×100	100×100	120×120	150×150
Base Size	mm	40×40	60×60	60×60	80×80	100×100	100×100	120×120	150×150
Height	mm	60	60	55	60	70	55	72	71
Stroke	mm	±6.5	±15	±10	±20	±25	±10	±35	±45
One-way Repeatability	mm	±0.001							
Flatness	mm	0.03							
Screw Lead	mm	1				2			
Suggested Dynamic Load	Horizontal Installation	≤ 10	≤ 30	≤ 30	≤ 50				
	Vertical Installation	≤ 5	≤ 7	≤ 10	≤ 20				
Static Load	kg	≤ 30	≤ 60			≤ 100			
Surface Treatment	Black Anodized								
Weight(no motor)	kg	0.44	0.83	1.2	1.15	1.98	1.2	2.7	4

* This promotional material is for consultation only, if the information does not match the product entity, the product entity shall prevail, if you have any questions please contact our sales representative
If there are any upgrades or changes to the product's structure, specifications, dimensions, or parameters, we will not notify you further. Thanks for your understanding

■ GXY40-6.5L

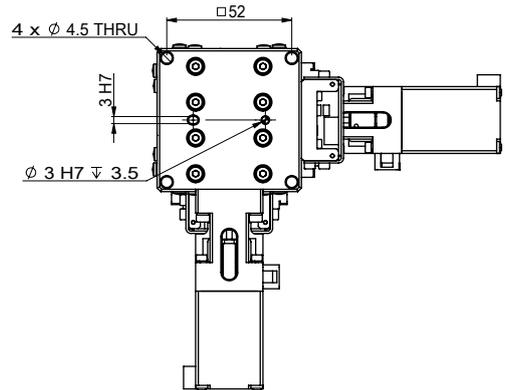
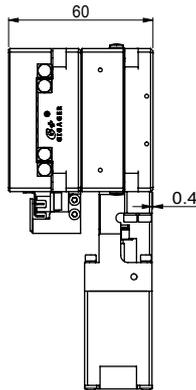
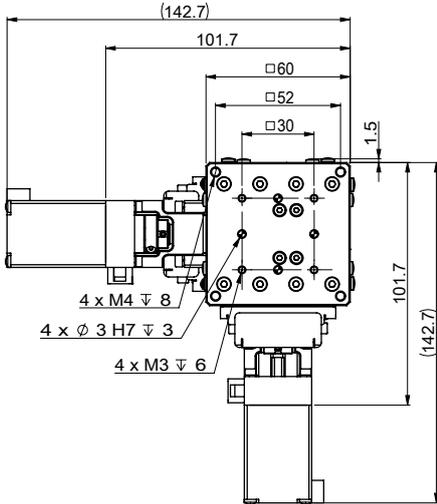


■ GXY40-6.5R

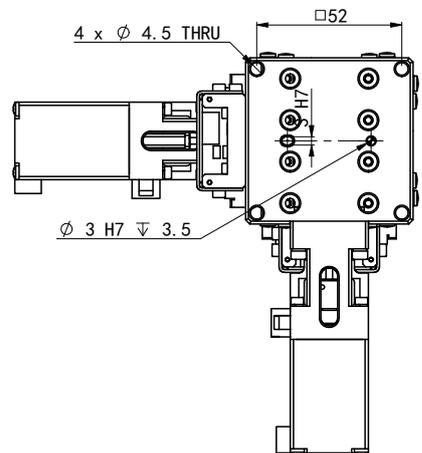
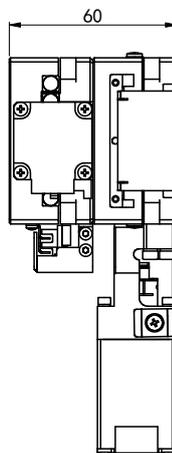
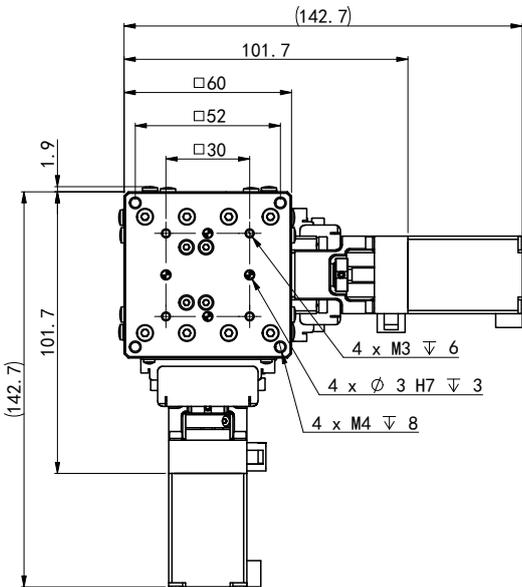


XXY
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■ GXY60-15L

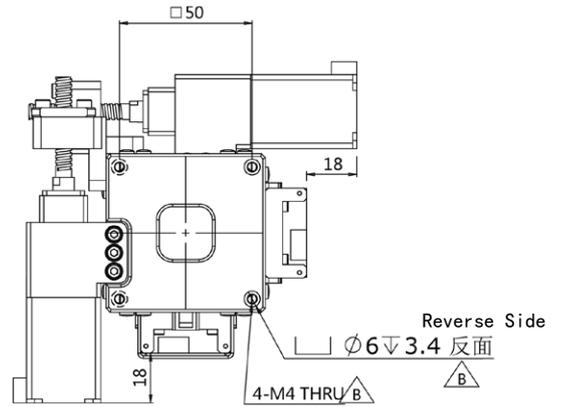
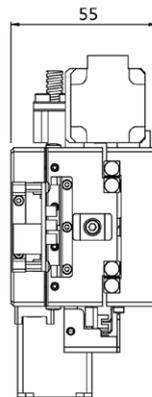
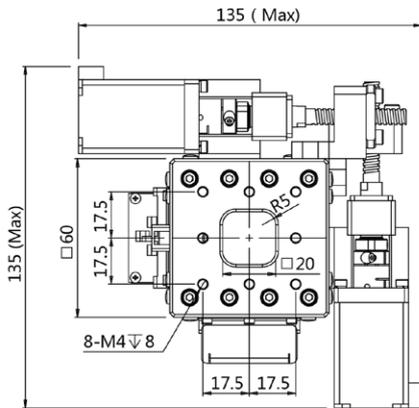
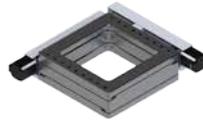


■ GXY60-15R

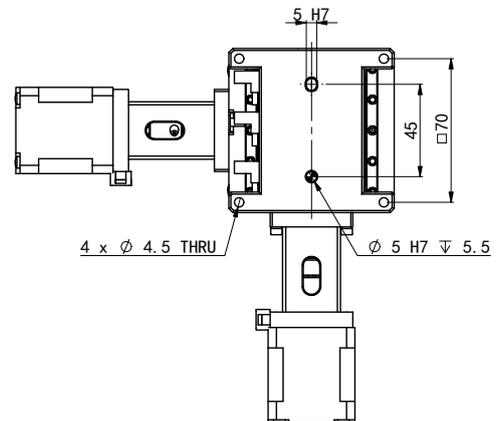
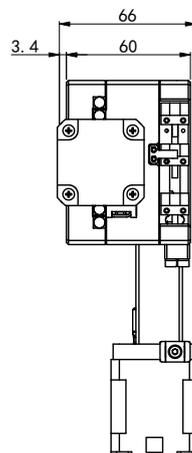
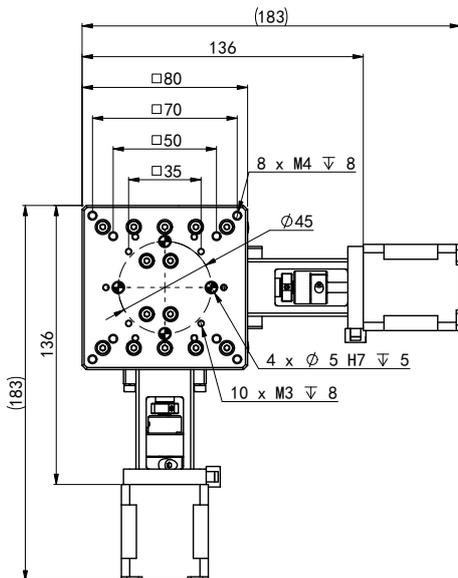


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■ GXY60T-10

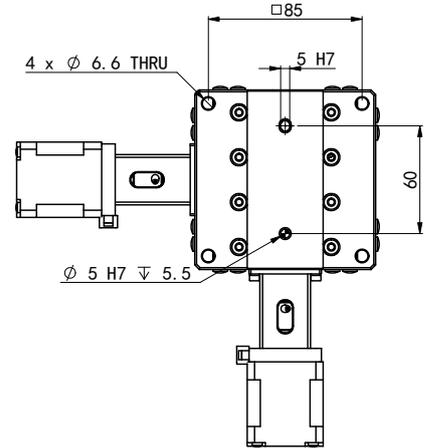
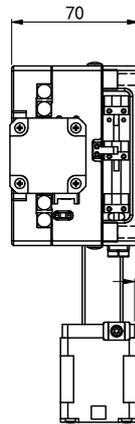
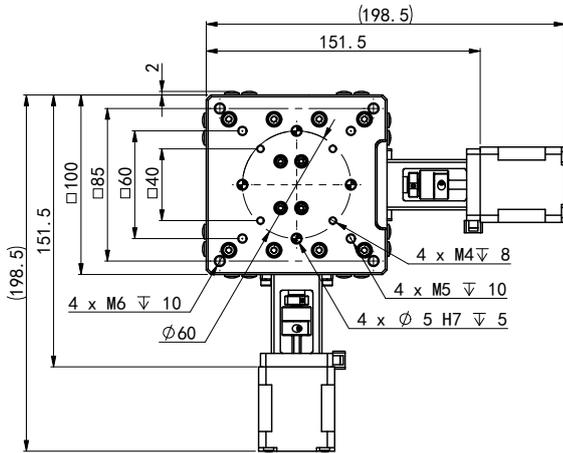


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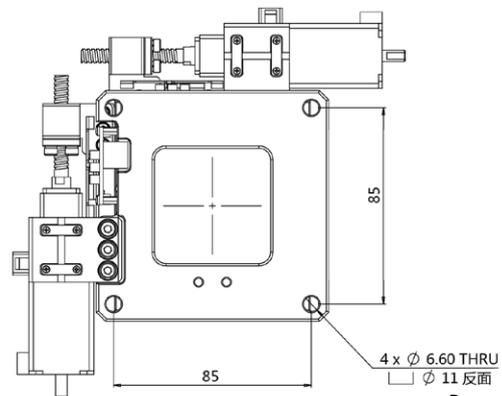
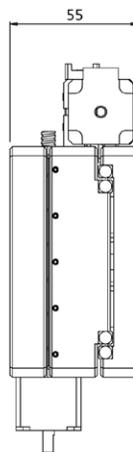
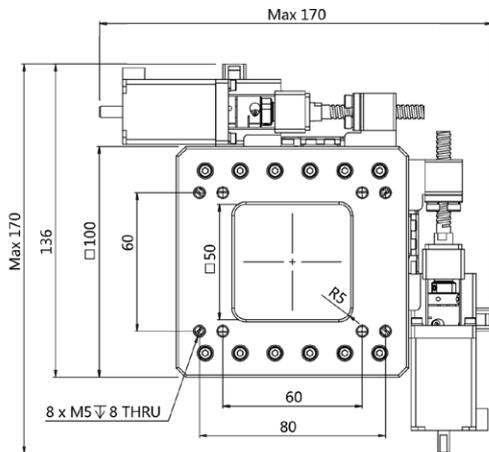
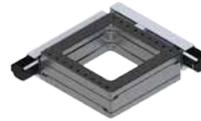


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■ GXY100-25



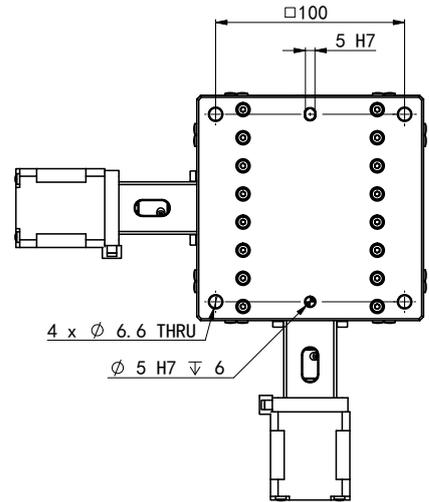
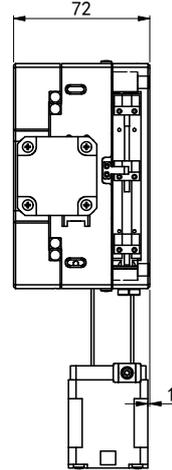
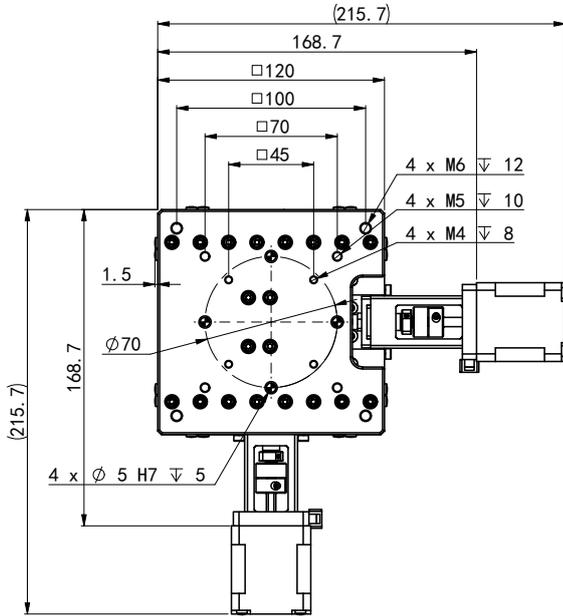
■ GXY100T-10



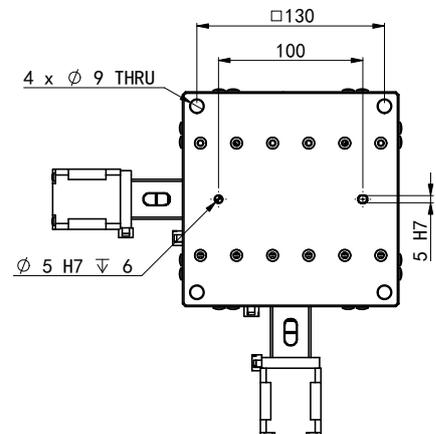
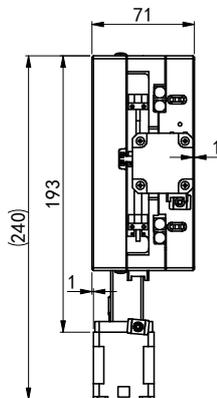
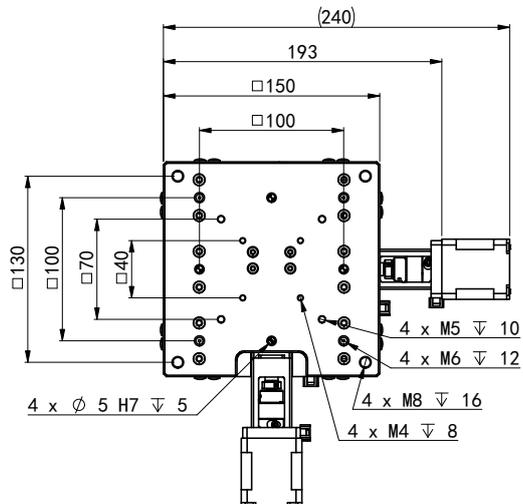
Reverse Side

XXY
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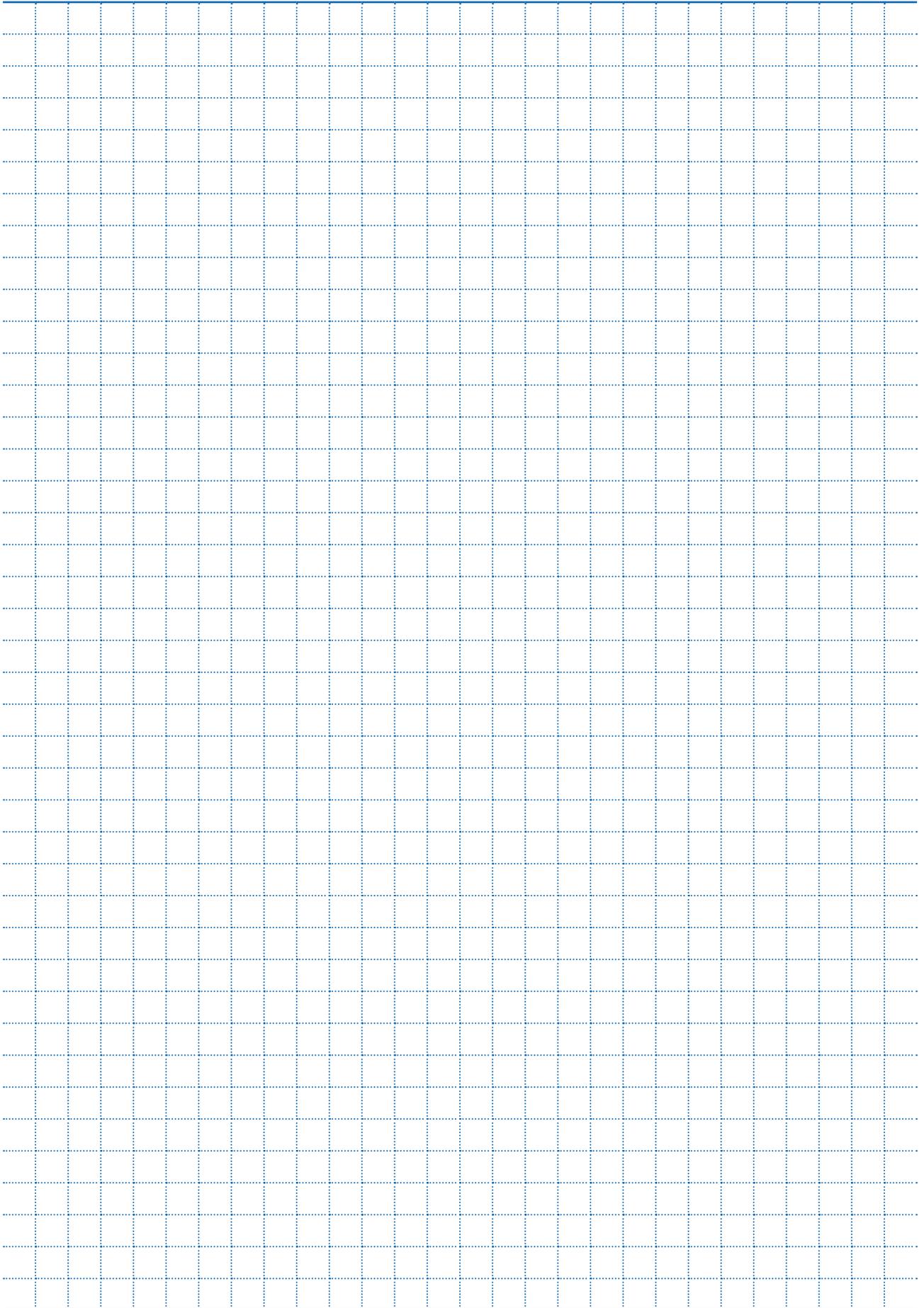
■ GXY120-35



■ GXY150-45



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Worm Electric Rotary Tables/GR Series

Worm Drive, Cross Roller Bearing Support
Dual Lead Worm, Anti-backlash



Large-aperture Hollow Structure
Low Centre of Gravity
Small Volume
Large Gear Ratio
Applied to Automation Equipment Fields

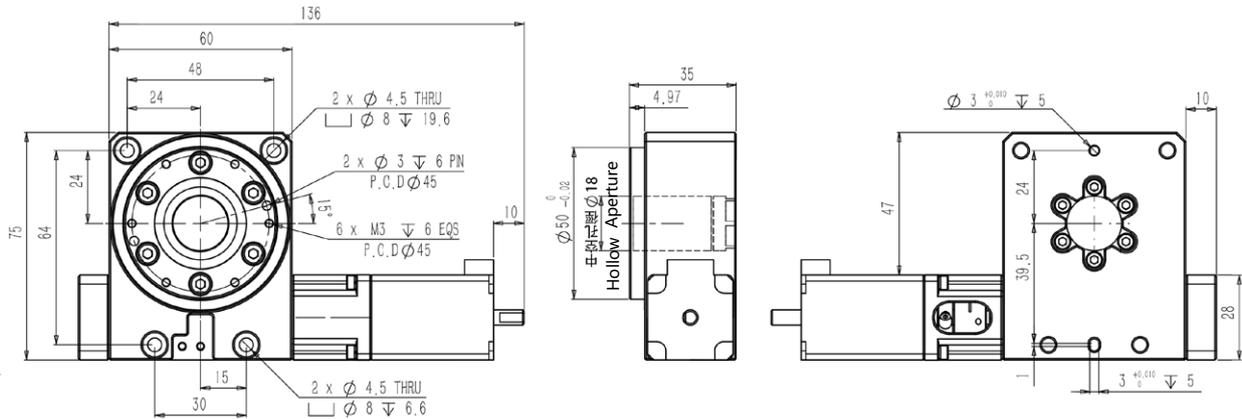
■ GR Model Code

Series	Size	Ratio	Motor
GR	60	90K	OS
XXY	60		OS: Default Open Loop Stepper Motor SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 (Suit for 100W AC Servo Motor)
GXYR			
GX	120		
GZ			
GTZ			OS: Default Open Loop Stepper Motor SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 (Suit for 200~400W AC Servo Motor)
GXY	200		
GR			
GYH			
GSH			
GSR			
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GSA			
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Parameter			
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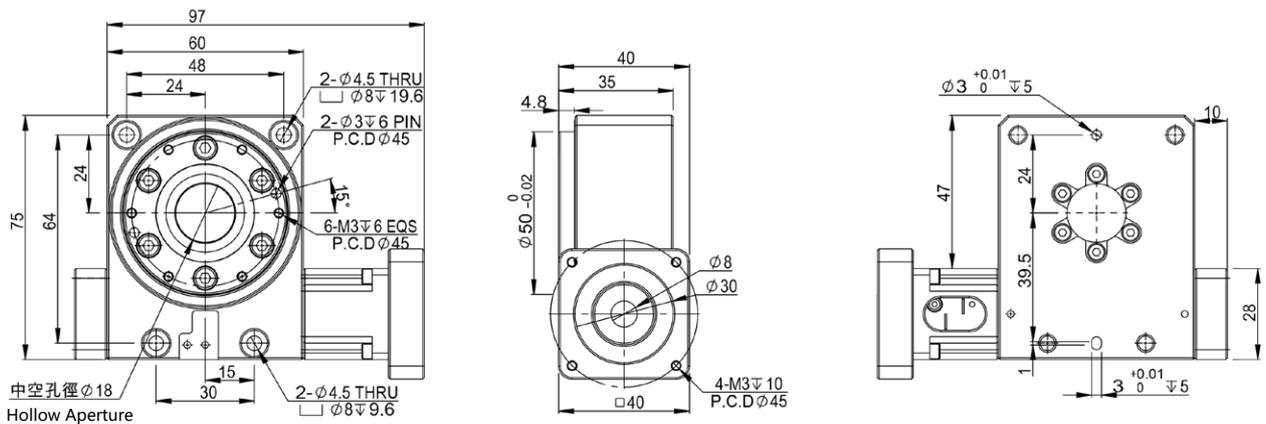
■ Technical Parameters

Parameters		Model					
		GR60-90K-OS	GR60-90K-SV	GR120-90K-OS	GR120-90K-SV	GR200-90-OS	GR200-90-SV
Allowable Torque	N.m	30	30	45		75	
Allowable Moment of Inertia	N.m	5	5	50		100	
Allowable Table Speed	rpm	6	< 16	30		30	
Gear Ratio	i	90					
Repeatability	arc-sec	≤ 10					
Positioning Accuracy	arc-sec	≤ 50					
Allowable Axial Load	N	300		1500		4000	
Table Flatness	mm	≤ 0.01					
Table Concentricity	mm	≤ 0.01					
Ingress Protection	IP	54					
Weight	kg	0.9		3		12	

■ GR60-90K-OS

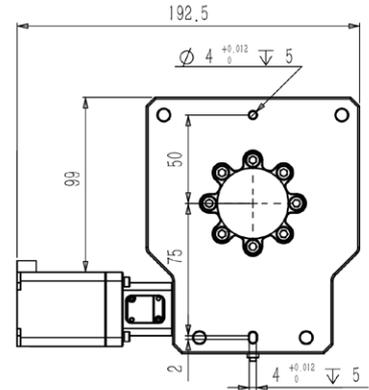
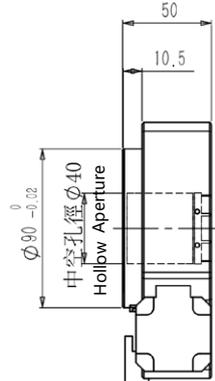
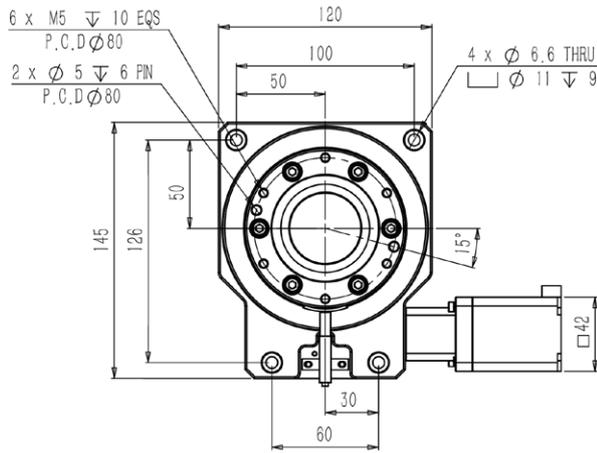


■ GR60-90K-SV

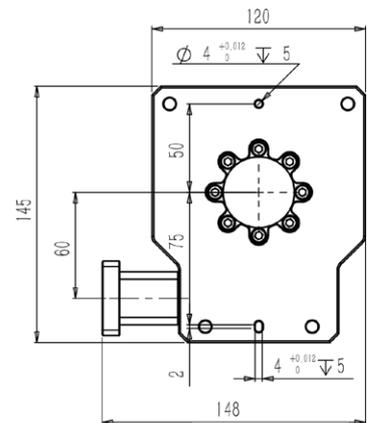
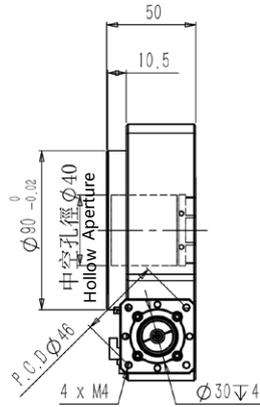
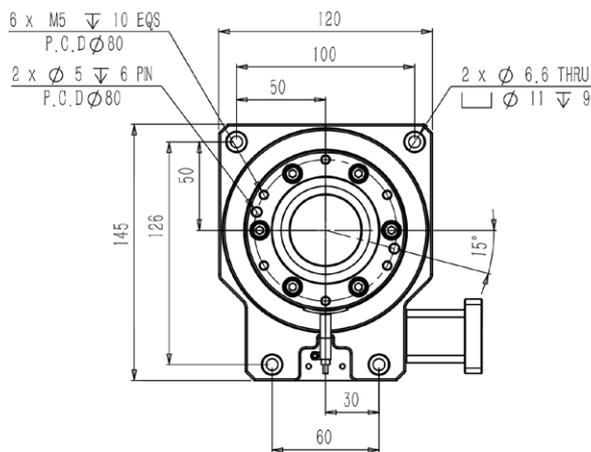


XXY
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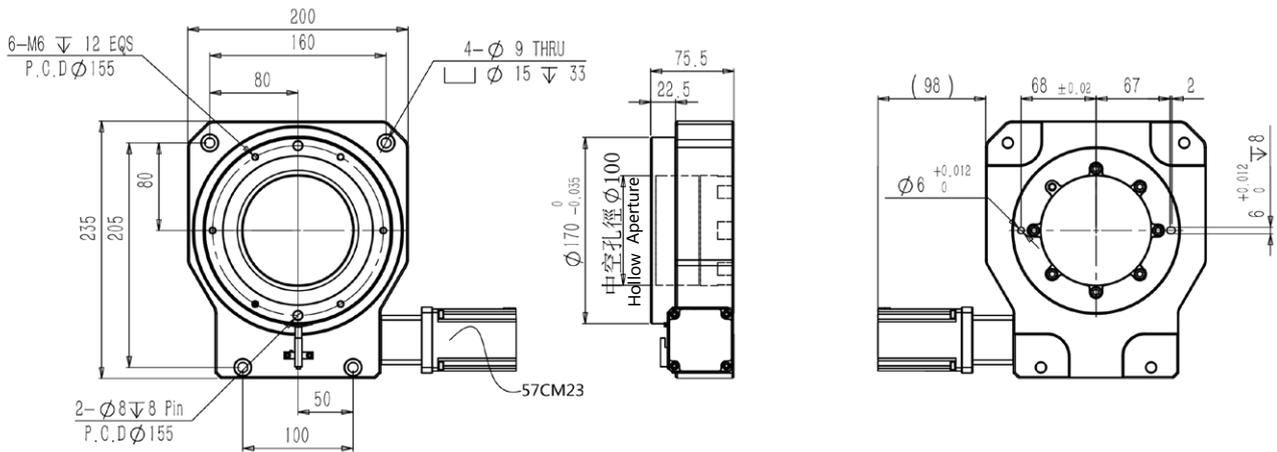
■ GR120-90K-OS



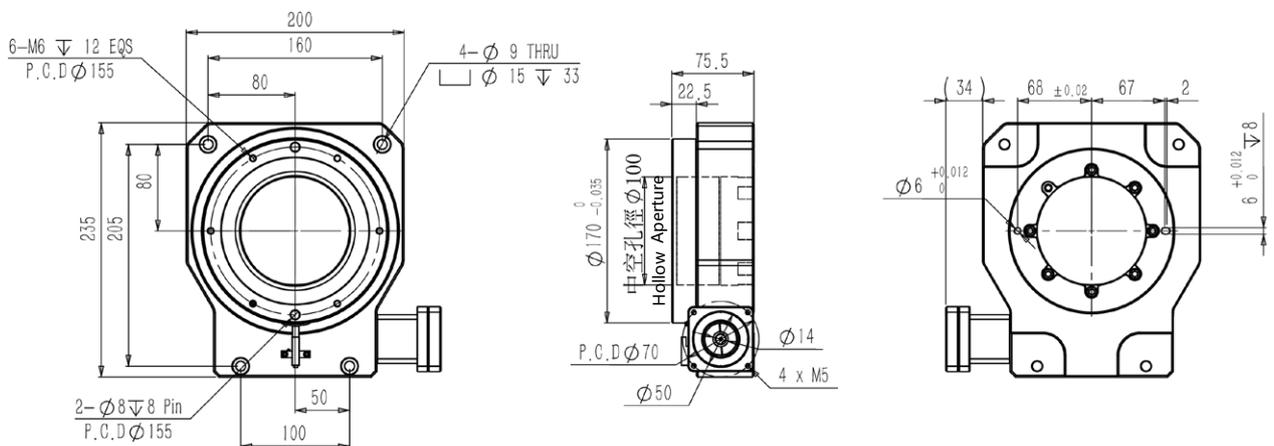
■ GR120-90K-SV



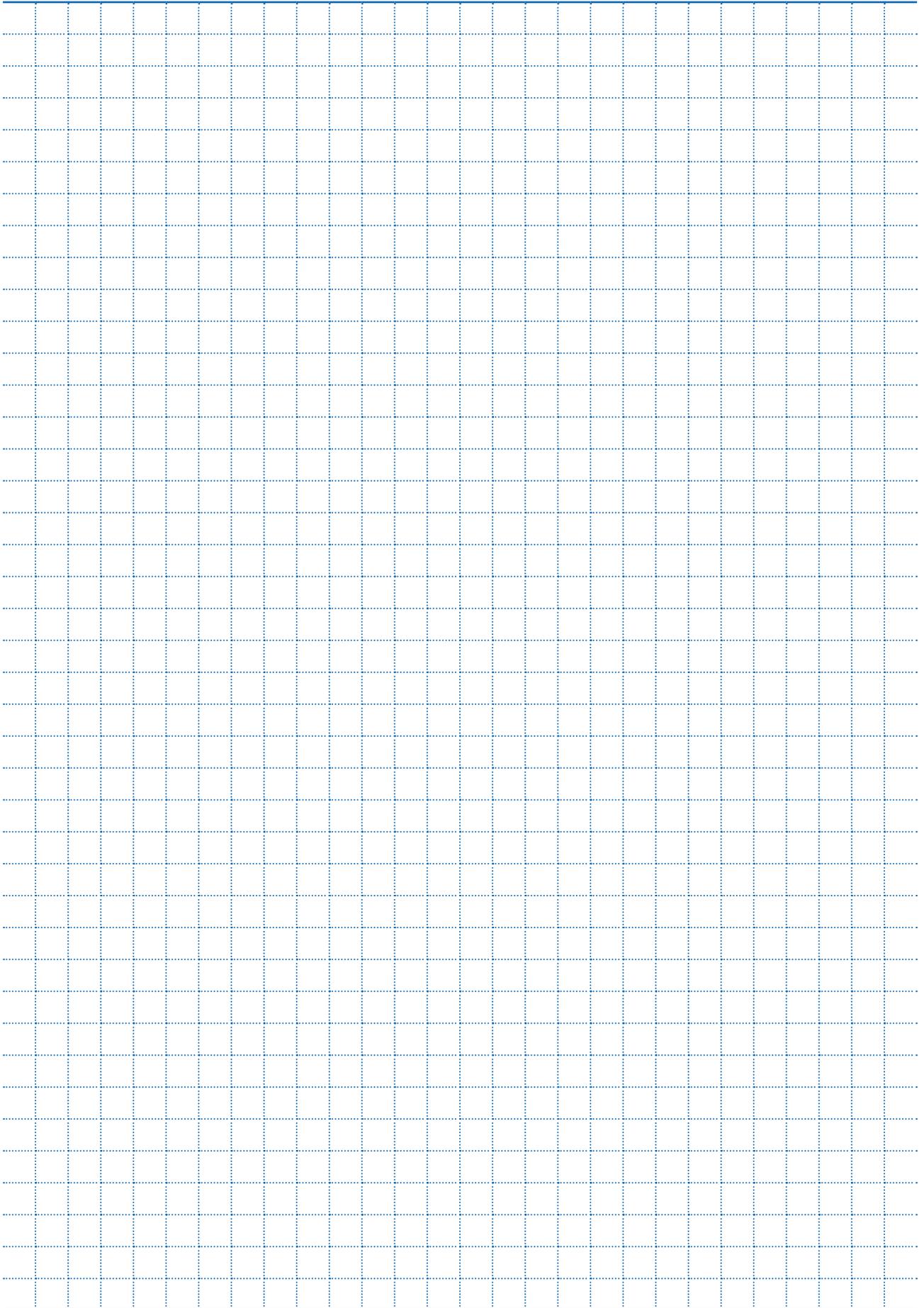
■ GR200-90K-OS



■ GR200-90K-SV



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Hollow Indexing Tables/GYH Series

Arc Indexing Applied
Low Friction, No Backlash, High Rigidity



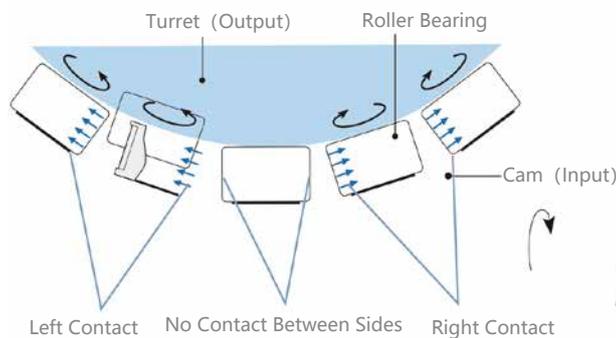
Applies the principle of arc surface indexing for precise motion control

The transmission component consists of an input shaft (arc indexing roller) and a roller (output shaft). The cam groove surface on the input shaft aligns with the driven roller element's outer ring surface, driving the table

Torque transmission during rotation is achieved through internal roller bearings, resulting in a hollow indexing table with zero backlash

The design ensures excellent precision and efficiency while preventing internal parts from wearing, ensuring prolonged high-precision performance

Principle



The left and right sides are interlocked to ensure zero backlash between forward and reverse

GYH Model Code

Series	Size	Type	Ratio	Motor <small>Note 1</small>
GYH	68	M	60K	SV1

48	M: Planetary
68	
82	
90	
115	
215	

XXY
GXYR
GX
GZ
GTZ
GXY
GR
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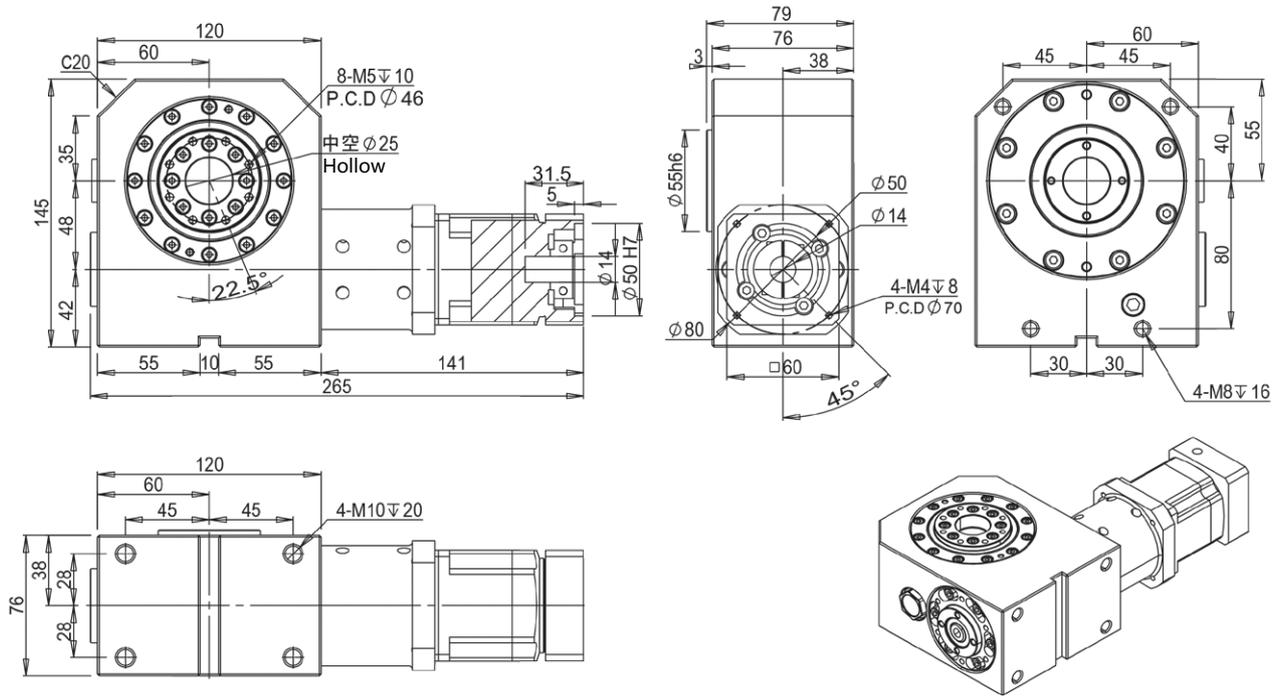
Technical Parameters

Parameters	Model					
	GYH48M	GYH68M	GYH82M	GYH90M	GYH115M	GYH215M
Bearing of Rotary Table	Cross Roller Bearing					
Gear Ratio <i>i</i>	45/60/75	60/80/100	72/96/120	60/80/100	72/96/120	120/160/200
Allowable Torque N.m	28	65	90	120	210	420
Allowable Input Speed rpm	3000					
Repeatability arc-sec	±10					
Positioning Accuracy arc-sec	±40	±30				
Allowable Axial Load N	250	1000	3000	4000	8000	15000
Allowable Moment of Inertia Load N.m	90	200	320	400	640	1000
Table Flatness mm	≤ 0.01					
Table Concentricity mm	≤ 0.01					
Accuracy Life hr	12000					
Ingress Protection IP	50					
Weight kg	9.5	17.5	28	32	53	137

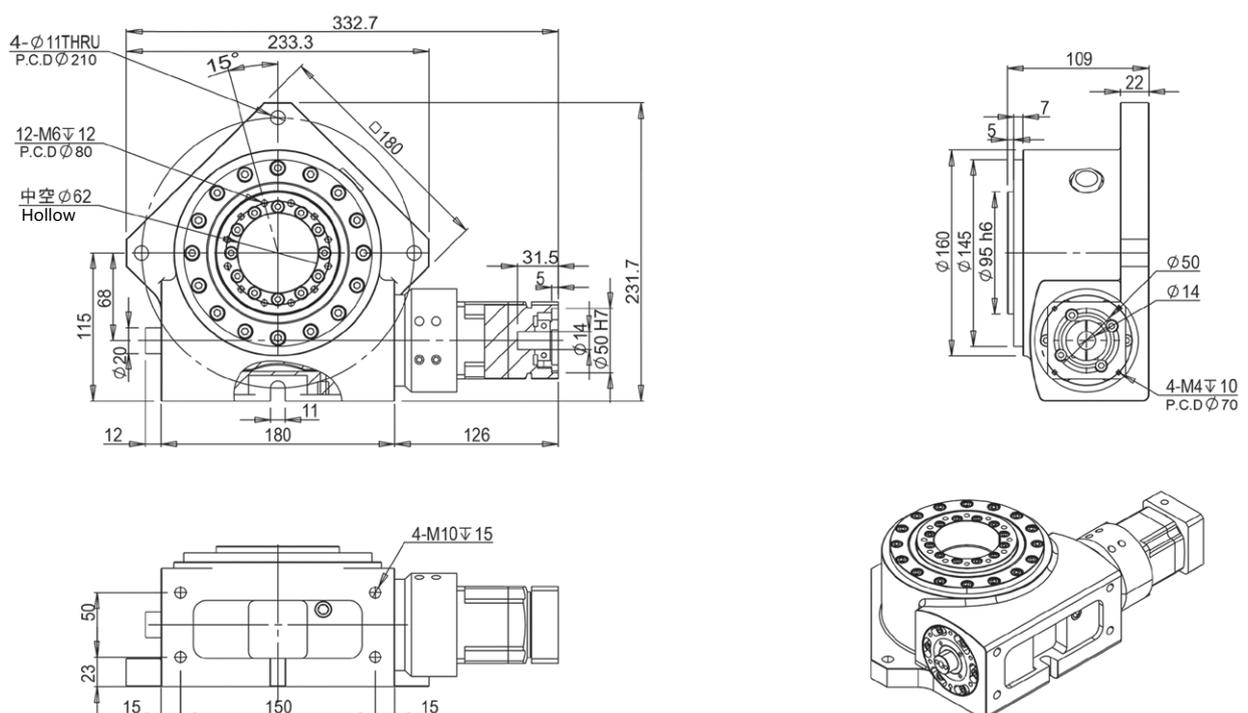
Note 1: Motor

Model					
GYH48M	GYH68M	GYH82M	GYH90M	GYH115M	GYH215M
Suit for 200~400W AC Servo Motor SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4		Suit for 750W AC Servo Motor SV1: Servo Ø19 PCD90,M5 SV2: Servo Ø19 PCD90,M6		Suit for 1000W AC Servo Motor SV1: Servo Ø22 PCD145,M8 SV2: Servo Ø24 PCD145,M8	
Suit for 57 /60 Stepper Motor ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4		Suit for 86 Stepper Motor ST1: Stepper Ø14 PCD98.4,M5 ST2: Stepper Ø14 PCD98.4,M6		$\left(\begin{matrix} a & b & c & d \\ \square & - & \square & - & \square & - & \square \end{matrix} \right)$ a. Motor output shaft diameter b. Motor stop diameter c. Motor mounting hole PCD d. Motor mounting threaded hole According to motor mounting size e.g. (19-70-90-M5)	

■ GYH48M-45K/60K/75K

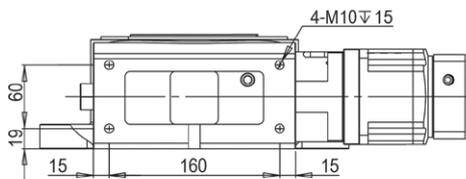
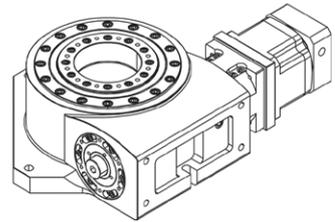
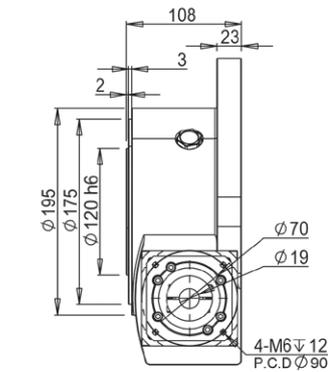
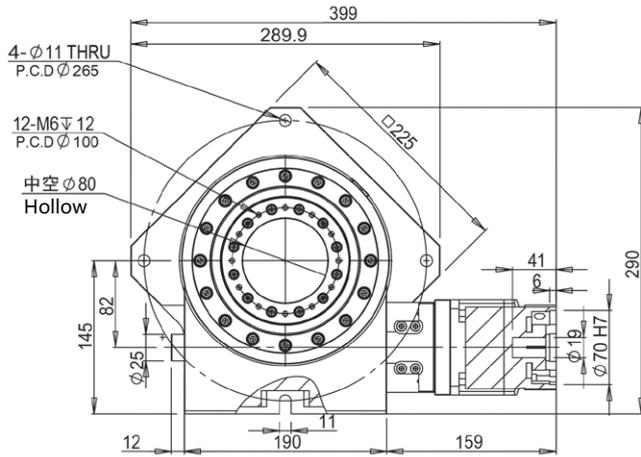


■ GYH68M-60K/80K/100K

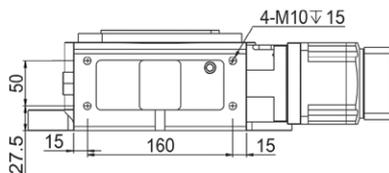
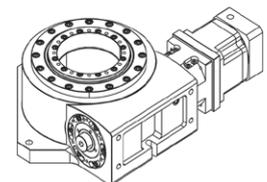
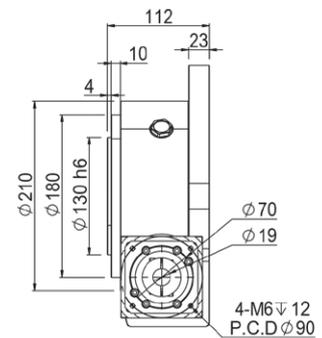
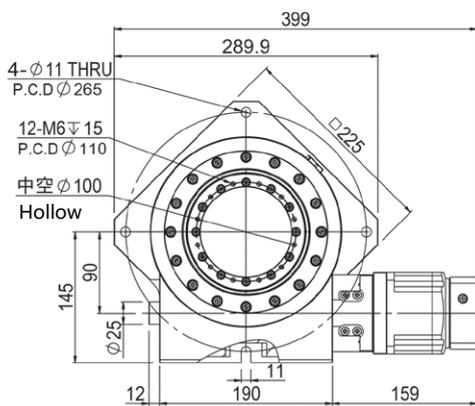


XXY
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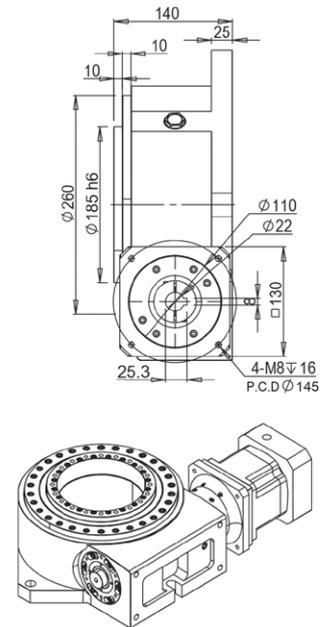
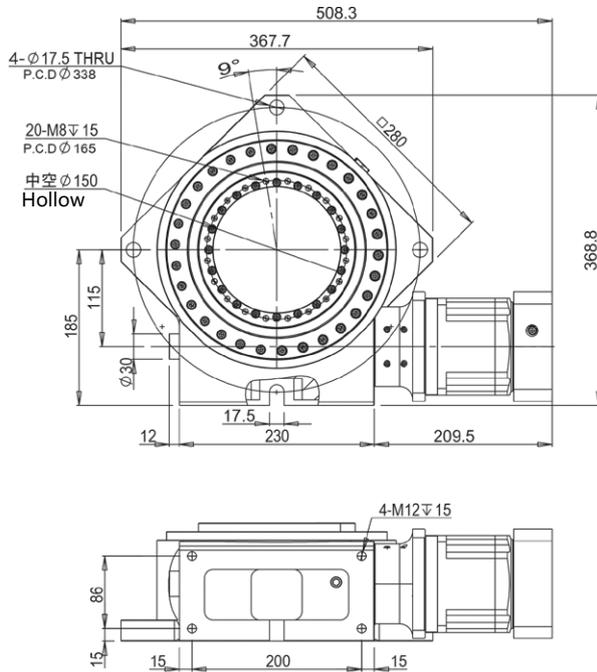
■ GYH82M-72K/96K/120K



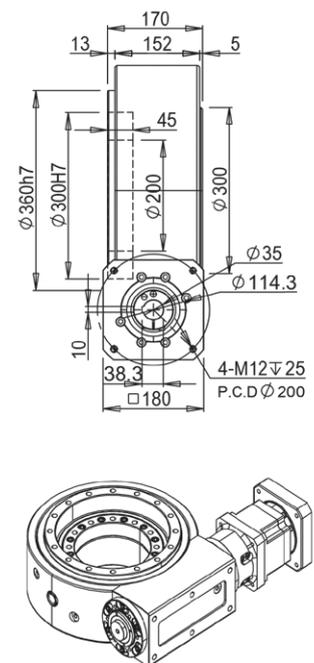
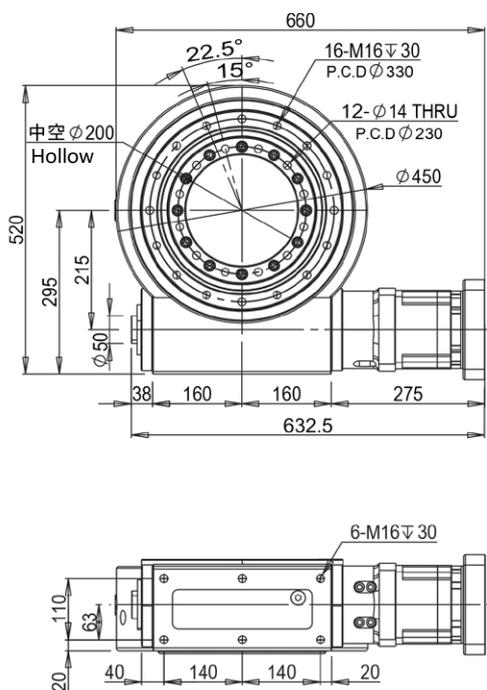
■ GYH90M-60K/80K/100K



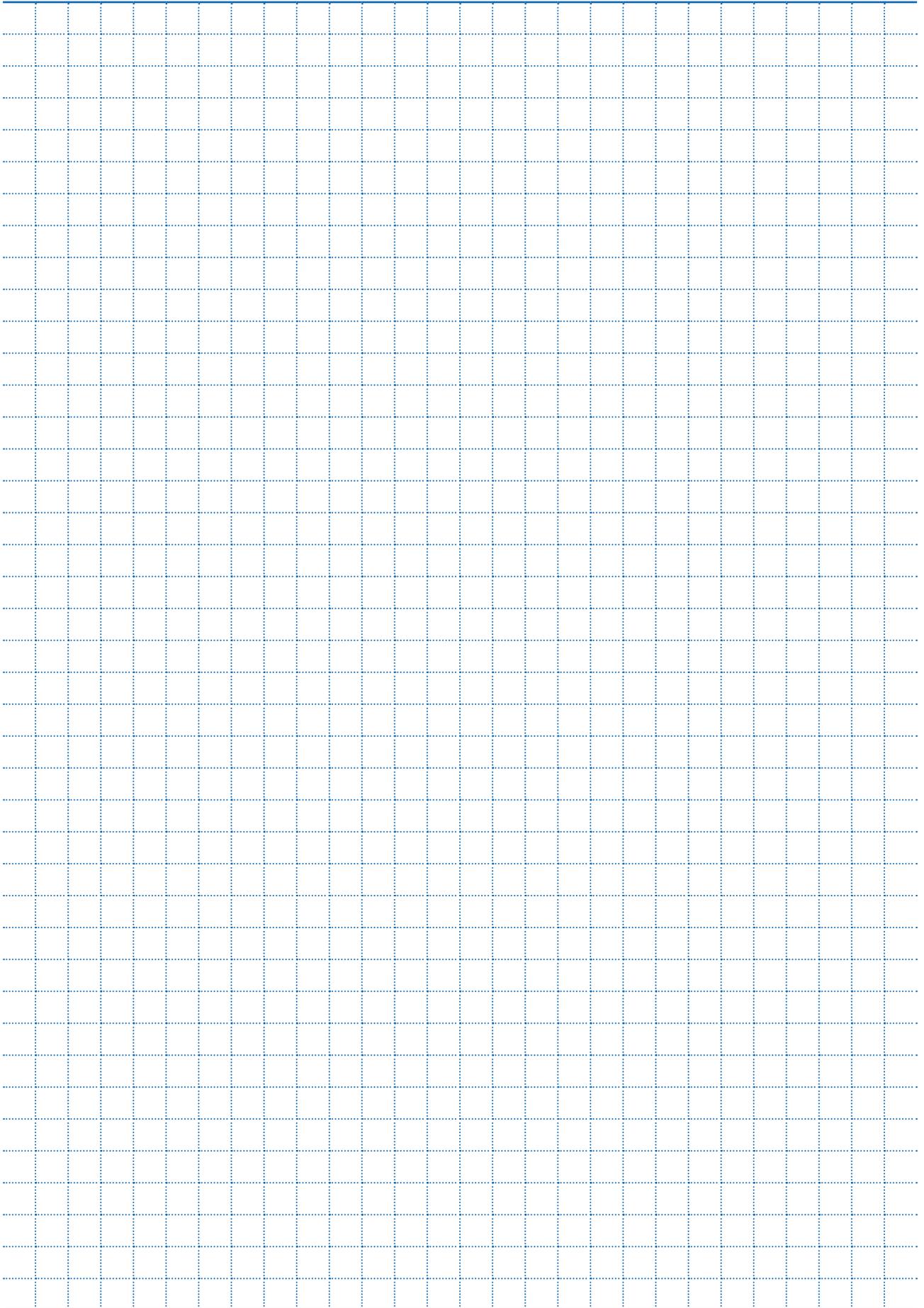
■ GYH115M-72K/96K/120K



■ GYH215M-120K/160K/200K



XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML





Hollow Rotary Tables/GSH Series

Hypoid Gear, High Torque, Low Wear



GSH Series

High Precision, High Efficiency

The spiral guide hypoid gear excels with higher ratio, torque, precision, and efficiency compared to spiral bevel. With sliding rotation, it achieves 30 arc seconds accuracy and 96% efficiency. Geometric tolerance is below 0.002mm meeting JISO standard.

P65

Suitable for high humidity environment, waterproof and dust-proof.

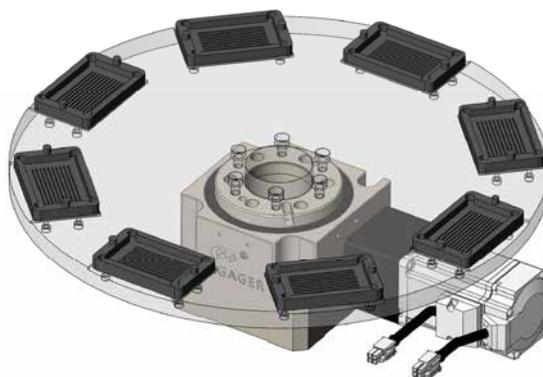
High Torque, High Rigidity

The housing is made of alloy steel material, with a large module tooth root design, which is suitable for the rotation requirements of large inertia loads.

Long Life-span

With high-hardness and high-density gear materials, the accuracy life can reach 30000hrs.

Widely used in auto-mission system, CNC and robot arm fields.

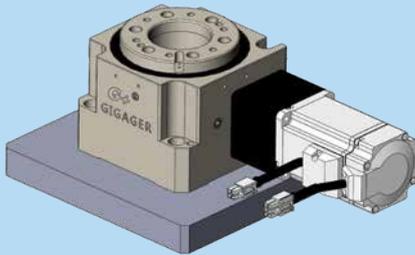


Example

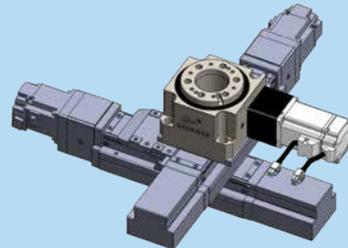
■ Installation

■ Example

Horizontal Installation



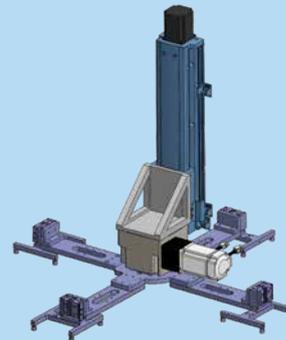
Combined with GXY Series



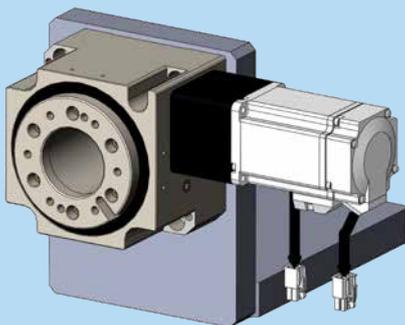
Suspension Installation



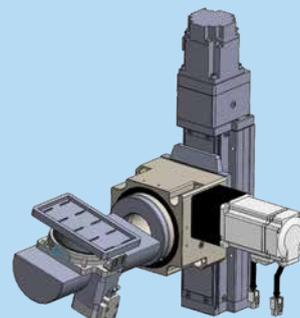
Suspension Installation Example



Vertical Installation



Vertical Installation Example



XXY

GXYR

GX

GZ

GTZ

GXY

GR

GYH

GSH

GSR

GSHR

GSA

GSN

GSB

GSG

Parameter

GSZ

GMR

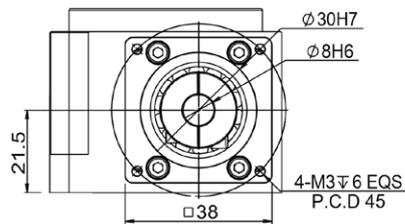
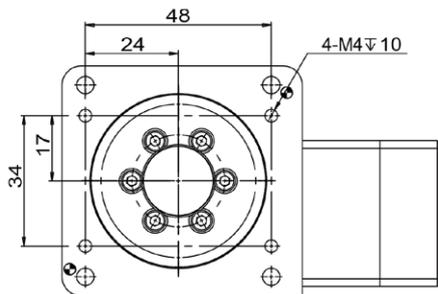
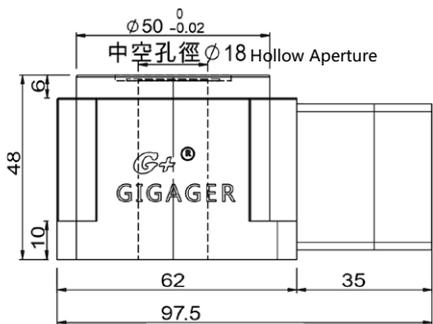
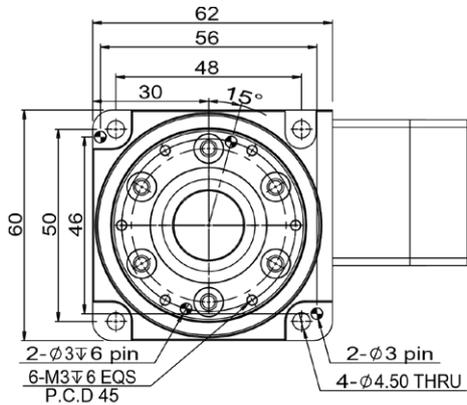
GMC

GMA

GML

GSH60

Series	Size	Ratio	Motor
GSH	60	30K	SV1
	60 100 150 200		SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 Suit for 100W AC Servo Motor ST1: Stepper Ø5 PCD43.8,M3 ST2: Stepper Ø6 PCD43.8,M3 Suit for 42 Stepper Motor



Technical Parameters

Bearing of Rotary Table		Cross Roller Bearing
Allowable Torque	N.m	30
Allowable Moment of Inertia	N.m	5
Allowable Table Speed	rpm	90
Gear Ratio	i	30
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-sec	≤ 50
Allowable Axial Load	N	300
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	54
Weight	kg	0.9

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

GSH100

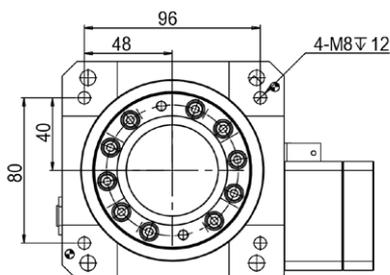
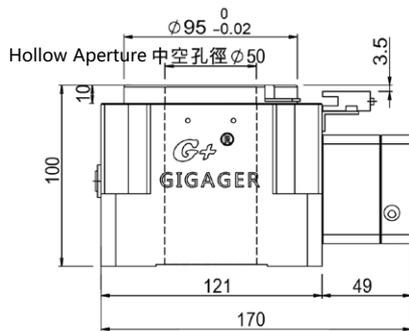
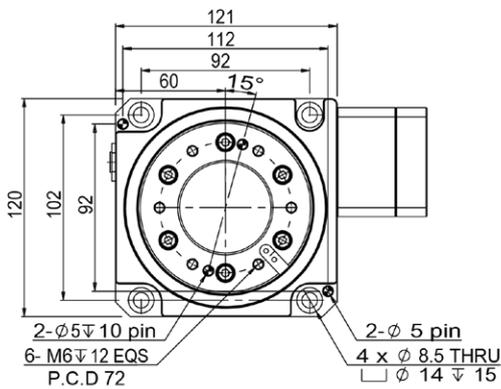
Series	Size	Ratio
GSH	100	30K

Motor
SV1

60
100
150
200

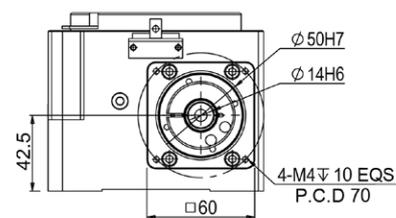
SV1: Servo Ø14 PCD70,M4
 SV2: Servo Ø14 PCD70,M5
 SV3: Servo Ø11 PCD70,M4
 Suit for 200~400W AC Servo Motor

ST1: Stepper Ø6.35 PCD66.67,M4
 ST2: Stepper Ø6.35 PCD70.7,M4
 ST3: Stepper Ø8 PCD70.7,M4
 ST4: Stepper Ø8 PCD66.67,M4
 Suit for 57/60 Stepper Motor



Technical Parameters

Bearing of Rotary Table	Tapered Roller Bearing	
Allowable Torque	N.m	115
Allowable Moment of Inertia	N.m	150
Allowable Table Speed	rpm	90
Gear Ratio	i	30
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-sec	≤ 50
Allowable Axial Load	N	2500
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	65
Weight	kg	8.5



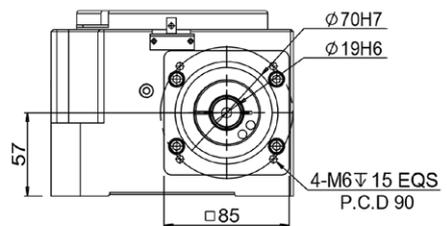
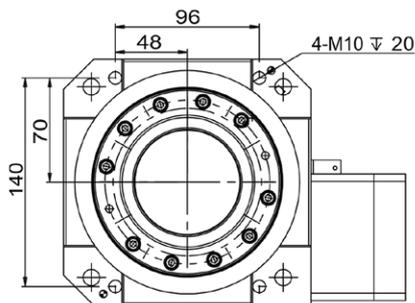
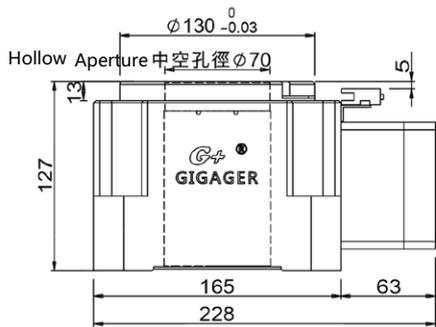
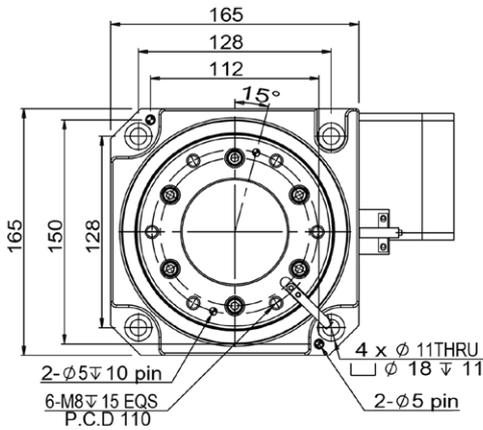
GSH150

Series	Size	Ratio	Motor
GSH	150	30K	SV1

60
100
150
200

SV1: Servo Ø19 PCD90,M5 SV2: Servo Ø19 PCD90,M6 Suit for 750W AC Servo Motor
ST1: Stepper Ø14 PCD98.4,M5 ST2: Stepper Ø14 PCD98.4,M6 Suit for 86 Stepper Motor

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML



Technical Parameters

Bearing of Rotary Table		Tapered Roller Bearing
Allowable Torque	N.m	220
Allowable Moment of Inertia	N.m	400
Allowable Table Speed	rpm	90
Gear Ratio	i	30
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-sec	≤ 50
Allowable Axial Load	N	6000
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	65
Weight	kg	18

GSH200

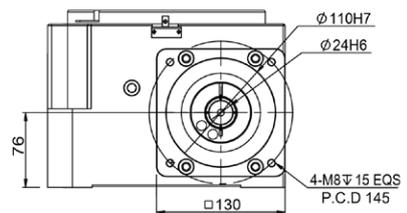
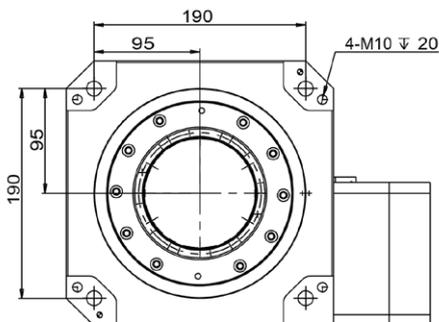
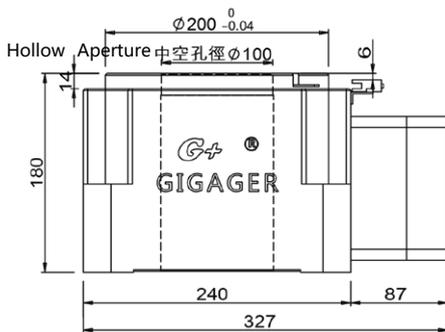
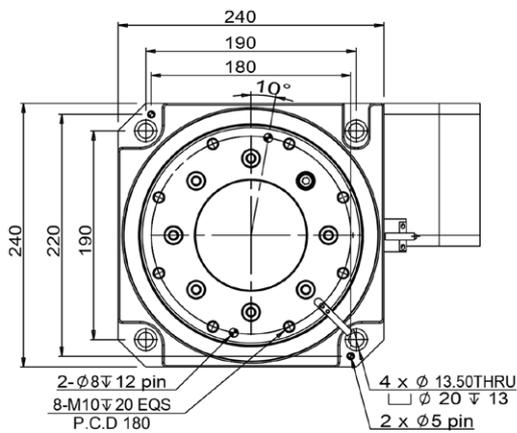
Series	Size	Ratio
GSH	200	30K

60
100
150
200

Motor
SV1

SV1: Servo Ø22 PCD145,M8
 SV2: Servo Ø24 PCD145,M8
 Suit for 1000W AC Servo Motor

- XXY
- GXYR
- GX
- GZ
- GTZ
- GXY
- GR
- GYH
- GSH**
- GSR
- GSHR
- GSA
- GSN
- GSB
- GSG
- Parameter
- GSZ
- GMR
- GMC
- GMA
- GML



Technical Parameters

Bearing of Rotary Table	Tapered Roller Bearing	
Allowable Torque	N.m	450
Allowable Moment of Inertia	N.m	800
Allowable Table Speed	rpm	90
Gear Ratio	i	30
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-sec	≤ 50
Allowable Axial Load	N	10000
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	65
Weight	kg	57



Hollow Rotary Tables/GSR series

Cross Roller Bearing
Vertical & Suspension Installation Available



GSR Series

Large Aperture Structure

Easier wiring and piping ,especially in complicated wiring and piping condition

Right-angle Structure

Provide multiple choices for limited space effectively use the limited space

Diversified Combination

It can be combined with planetary reducer and servo motors of various brands to achieve diversified structural design

Cross-roller Inside

Side and suspension installation available

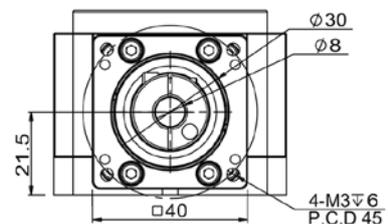
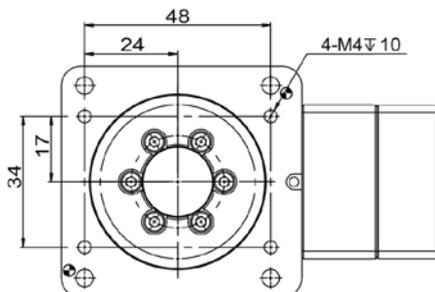
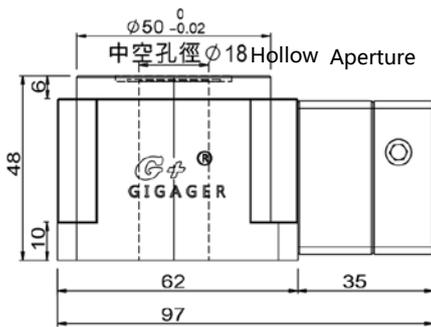
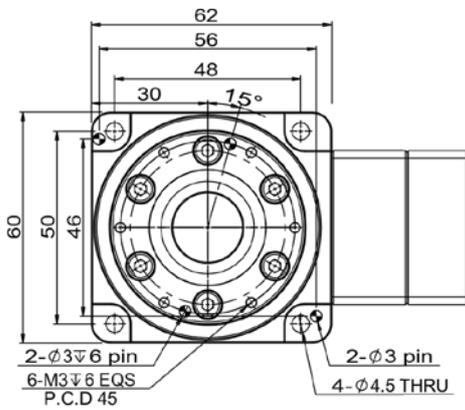
Long Life-span

The accuracy life can reach 30000hrs

GSR60

Series	Size	Type	Ratio	Motor
GSR	60		10K	SV1
	60 110 150 200	M: Planetary N: None		SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 Suit for 100W Servo Motor
				ST1: Stepper Ø5 PCD43.8,M3 ST2: Stepper Ø6 PCD43.8,M4 Suit for 42 Stepper Motor

- XXY
- GXYR
- GX
- GZ
- GTZ
- GXY
- GR
- GYH
- GSH
- GSR**
- GSHR
- GSA
- GSN
- GSB
- GSG
- Parameter
- GSZ
- GMR
- GMC
- GMA
- GML

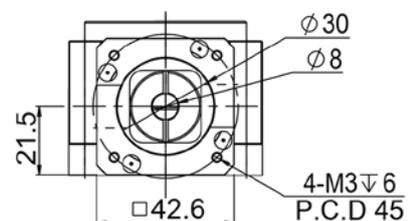
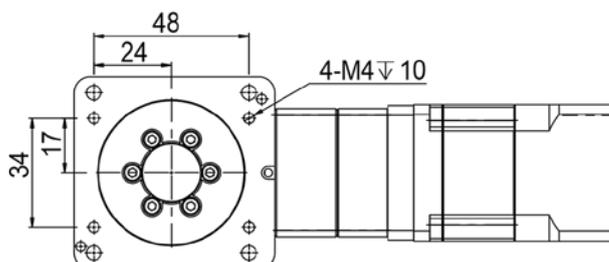
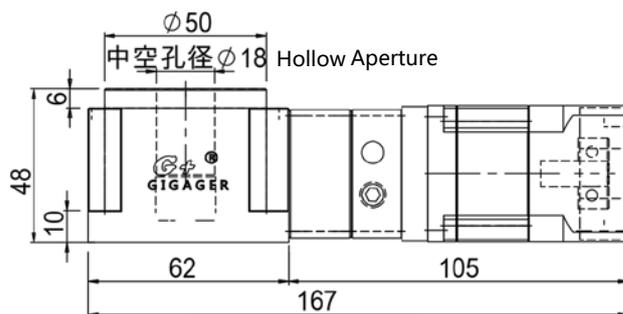
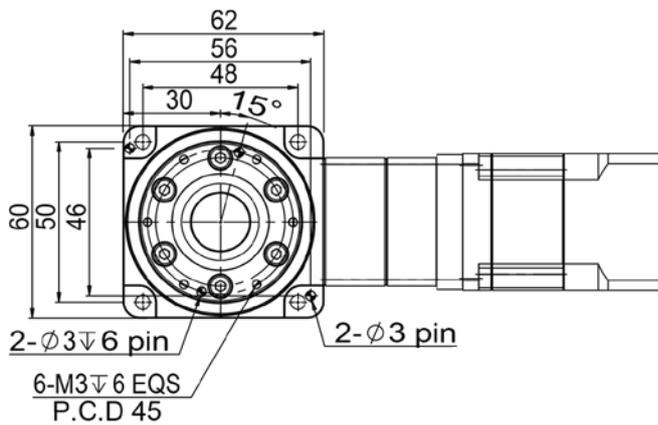


Technical Parameters

Bearing of Rotary Table	Cross Roller Bearing	
Allowable Torque	N.m	12
Allowable Moment of Inertia	N.m	5
Allowable Table Speed	rpm	200
Gear Ratio	i	10
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-min	≤ 2
Allowable Axial Load	N	300
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	40
Weight	kg	0.9

GSR60M

Series	Size	Type	Ratio	Motor
GSR	60	M	30K	SV1
	60 110 150 200	M: Planetary N: None		SV1: Servo Ø8 PCD45, M3 SV2: Servo Ø8 PCD46, M4 Suit for 100W Servo Motor
				ST1: Stepper Ø5 PCD43.8, M3 ST2: Stepper Ø6 PCD43.8, M4 Suit for 42 Stepper Motor



Technical Parameters

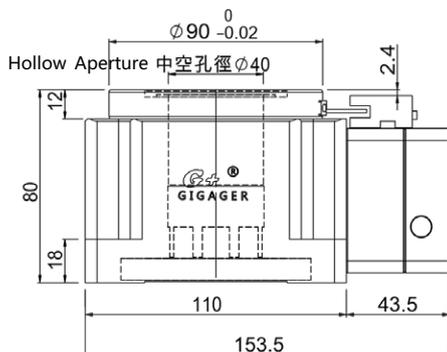
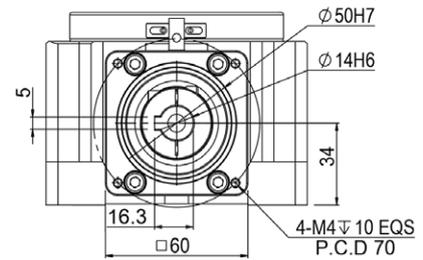
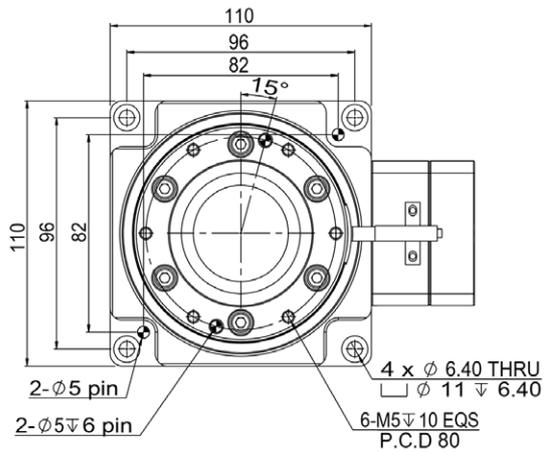
Bearing of Rotary Table		Cross Roller Bearing
Allowable Torque	N.m	12
Allowable Moment of Inertia	N.m	5
Allowable Table Speed	rpm	200
Gear Ratio	i	30/40/50
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-min	≤ 2
Allowable Axial Load	N	300
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	40
Weight	kg	1.5

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

GSR110

Series	Size	Type	Ratio	Motor
GSR	110		10K	SV1
	60	M: Planetary N: None		SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400W Servo Motor
	110			ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor
	150			
	200			

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

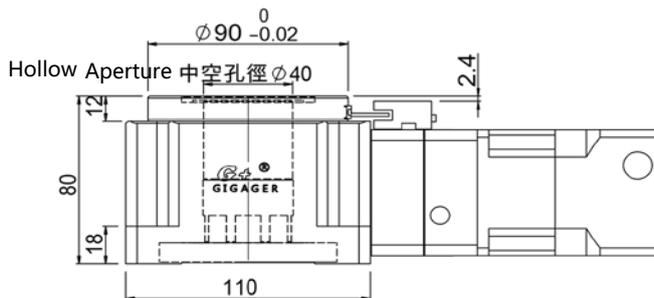
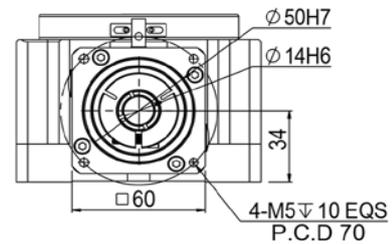
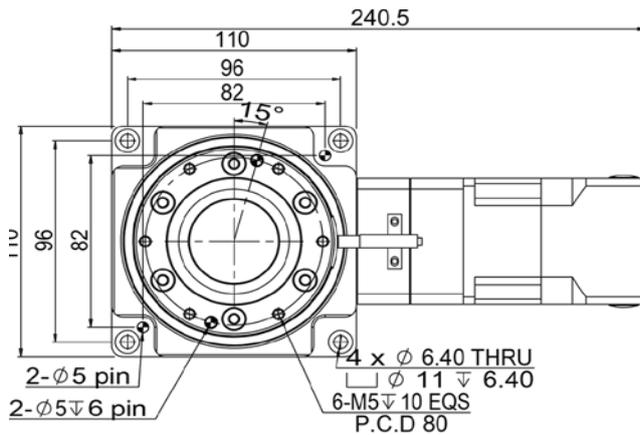


Technical Parameters

Bearing of Rotary Table		Cross Roller Bearing
Allowable Torque	N.m	45
Allowable Moment of Inertia	N.m	50
Allowable Table Speed	rpm	200
Gear Ratio	i	10
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-min	≤ 2
Allowable Axial Load	N	1500
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	40
Weight	kg	3

GSR110M

Series	Size	Type	Ratio	Motor
GSR	110	M	30K	SV1
	60 110 150 200	M: Planetary N: None		SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400W Servo Motor
				ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor



Technical Parameters

Bearing of Rotary Table		Cross Roller Bearing
Allowable Torque	N.m	45
Allowable Moment of Inertia	N.m	50
Allowable Table Speed	rpm	200
Ratio	i	30/40/50/70/100
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-min	≤ 2
Allowable Axial Load	N	1500
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	40
Weight	kg	4.3

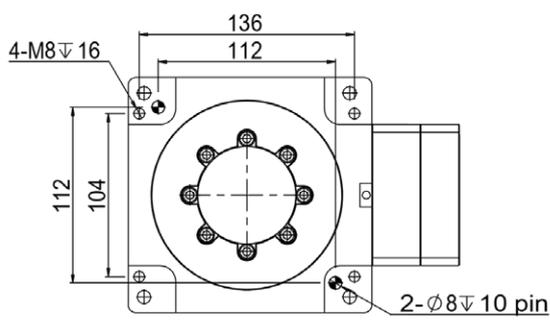
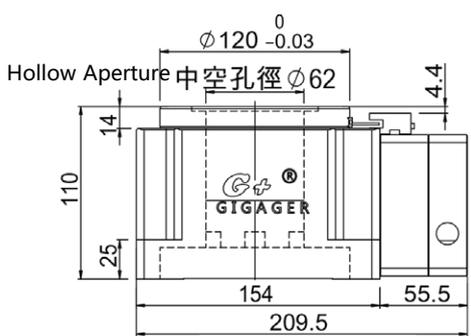
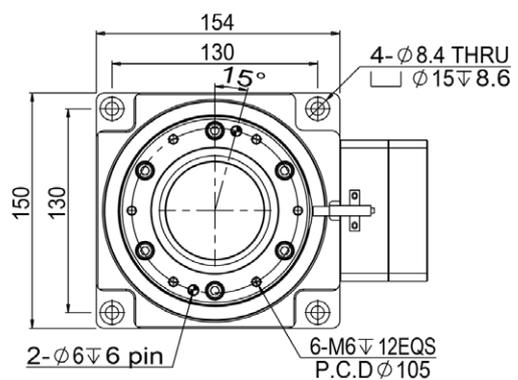
XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

GSR150

Series	Size	Type	Ratio
GSR	150		10K
	60	M: Planetary N: None	
	110		
	150		
	200		

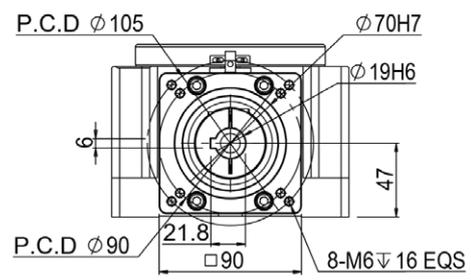
Motor
SV1
SV1: Servo Ø19 PCD90,M5 SV2: Servo Ø19 PCD90,M6 Suit for 750W AC Servo Motor
ST1: Stepper Ø14 PCD98.4,M5 ST2: Stepper Ø14 PCD98.4,M6 Suit for 86 Stepper Motor

- XXY
- GXYR
- GX
- GZ
- GTZ
- GXY
- GR
- GYH
- GSH
- GSR**
- GSHR
- GSA
- GSN
- GSB
- GSG
- Parameter
- GSZ
- GMR
- GMC
- GMA
- GML



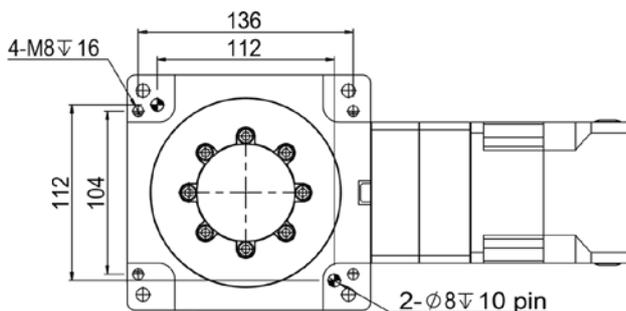
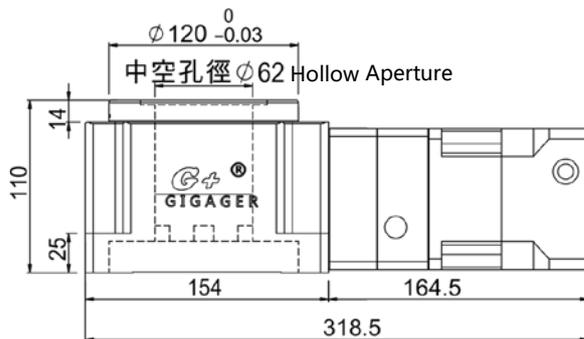
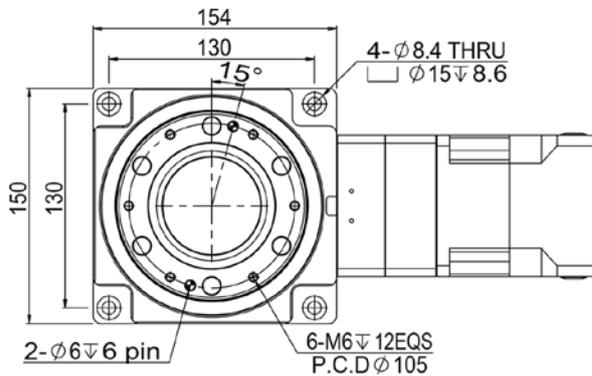
Technical Parameters

	Bearing of Rotary Table	Cross Roller Bearing
Allowable Torque	N.m	80
Allowable Moment of Inertia	N.m	90
Allowable Table Speed	rpm	200
Gear Ratio	i	10
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-min	≤ 2
Allowable Axial Load	N	3500
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	40
Weight	kg	7.5



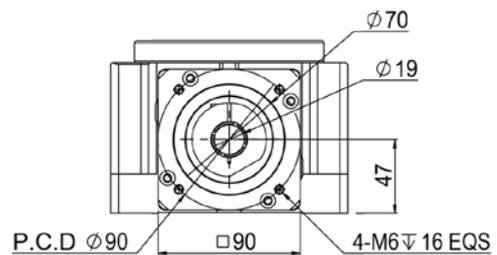
GSR150M

Series	Size	Type	Ratio	Motor
GSR	150	M	30K	SV1
	60 110 150 200	M: Planetary N: None		SV1: Servo Ø19 PCD90,M5 SV2: Servo Ø19 PCD90,M6 Suit for 750W AC Servo Motor
				ST1: Stepper Ø14 PCD98.4,M5 ST2: Stepper Ø14 PCD98.4,M6 Suit for 86 Stepper Motor



Technical Parameters

Bearing of Rotary Table		Cross Roller Bearing
Allowable Torque	N.m	80
Allowable Moment of Inertia	N.m	90
Allowable Table Speed	rpm	200
Gear Ratio	i	30/40/50/70/100
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-min	≤ 2
Allowable Axial Load	N	3500
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	40
Weight	kg	12.1

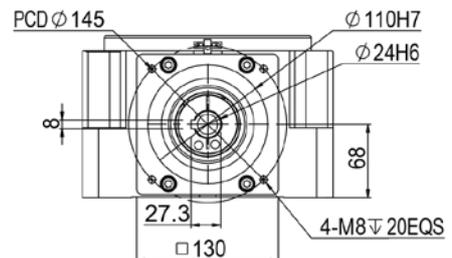
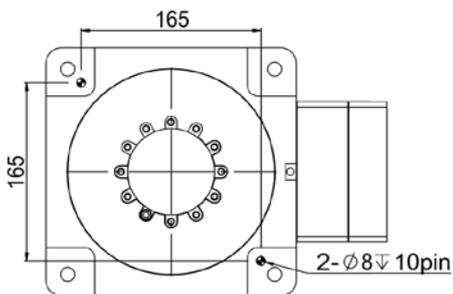
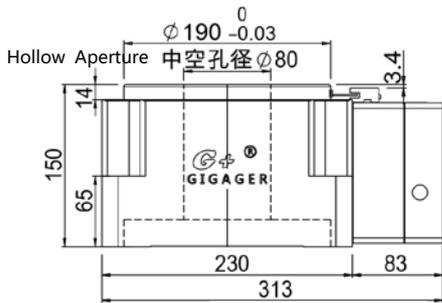
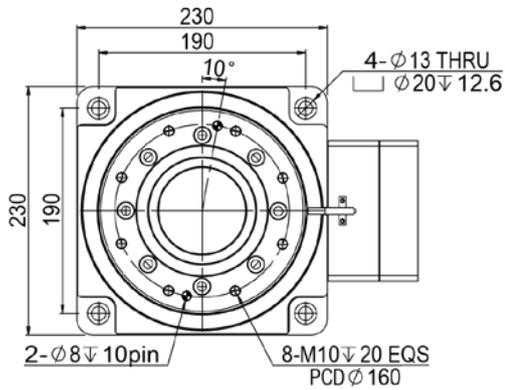


XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

GSR200

Series	Size	Type	Ratio	Motor
GSR	200		10K	SV1
	60 110 150 200	M: Planetary N: None		SV1: Servo Ø22 PCD145,M8 SV2: Servo Ø24 PCD145,M8 Suit for 100W AC Servo Motor

- XXY
- GXYR
- GX
- GZ
- GTZ
- GXY
- GR
- GYP
- GSH
- GSR**
- GSHR
- GSA
- GSN
- GSB
- GSG
- Parameter
- GSZ
- GMR
- GMC
- GMA
- GML

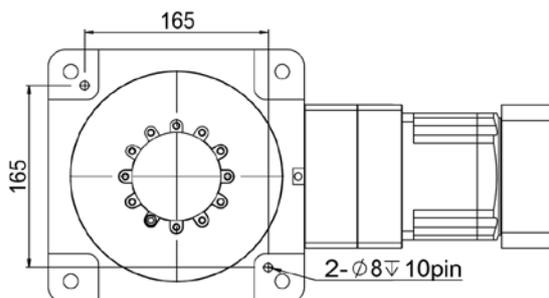
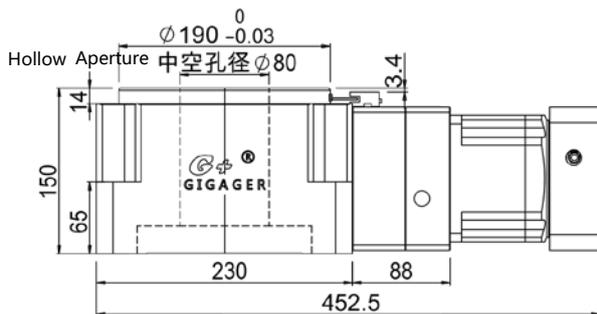
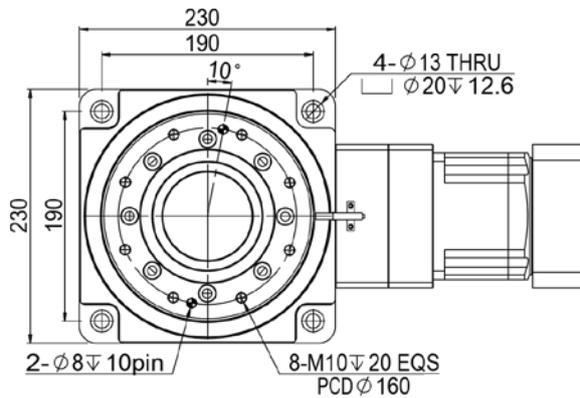


Technical Parameters

	Bearing of Rotary Table	Cross Roller Bearing
Allowable Torque	N.m	170
Allowable Moment of Inertia	N.m	200
Allowable Table Speed	rpm	200
Gear Ratio	i	10
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-min	≤ 2
Allowable Axial Load	N	7000
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	53
Weight	kg	26

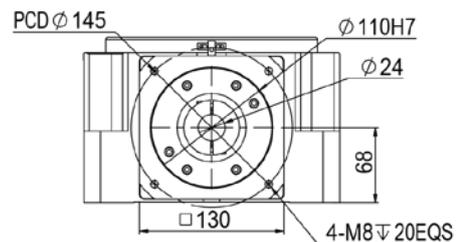
GSR200M

Series	Size	Type	Ratio	Motor
GSR	200	M	30K	SV1
	60 110 150 200	M: Planetary N: None		SV1: Servo Ø22 PCD145,M8 SV2: Servo Ø24 PCD145,M8 Suit for 100W AC Servo Motor



Technical Parameters

Bearing of Rotary Table	Cross Roller Bearing	
Allowable Torque	N.m	170
Allowable Moment of Inertia	N.m	200
Allowable Table Speed	rpm	200
Gear Ratio	i	30/40/50/70/100
Repeatability	arc-sec	≤ 15
Positioning Accuracy	arc-min	≤ 2
Allowable Axial Load	N	7000
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	53
Weight	kg	34



XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML



®

Hollow Rotary Tables/GSHR Series

Hypoid Gear & Cross Roller Bearing
Vertical & Suspension Installation Available



GSHR Series

High Precision and Efficiency: The spiral guide hypoid gear has the advantages of higher ratio, high torque, high precision and low loss than the spiral bevel

It rotates in a sliding way transmission accuracy can reach 30 arc seconds, and the transmission efficiency can reach 96%; the geometric tolerance of the gear is less than 0.002mm, up to JISO standard

High rigidity cross roller bearing output Signal ratio 1 : 30, met the rotary requirement of large inertia load

With high-hardness and high-density gear materials, the accuracy life can reach 30000hrs

Horizontal, side and suspension installation are available

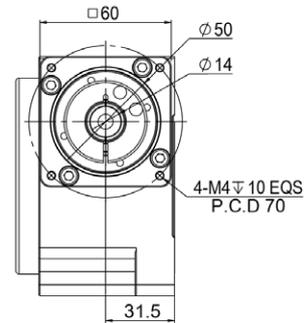
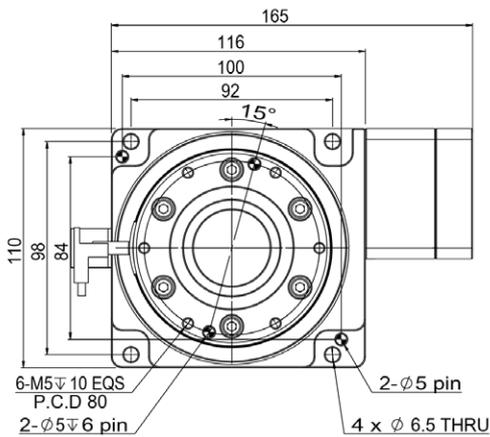
GSHR100

Series	Size	Ratio	Motor
GSHR	100	30K	SV1

100
150
200

SV1: Servo Ø14 PCD70,M4
 SV2: Servo Ø14 PCD70,M5
 SV3: Servo Ø11 PCD70,M4
 Suit for 200~400W AC Servo Motor

ST1: Stepper Ø6.35 PCD66.67,M4
 ST2: Stepper Ø6.35 PCD70.7,M4
 ST3: Stepper Ø8 PCD70.7,M4
 ST4: Stepper Ø8 PCD66.67,M4
 Suit for 57/60 Stepper Motor



Technical Parameters

Bearing of Rotary Table		Cross Roller Bearing
Allowable Torque	N.m	80
Allowable Table Speed	rpm	100
Gear Ratio	i	30
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-min	≤ 1
Allowable Axial Load	N	1500
Allowable Moment of Inertia	N.m	75
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	53
Weight	kg	3.6

XXY
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GSHR
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GSHR150

Series	Size	Ratio
GSHR	150	30K

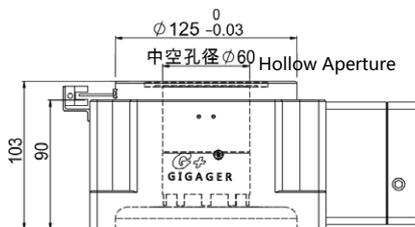
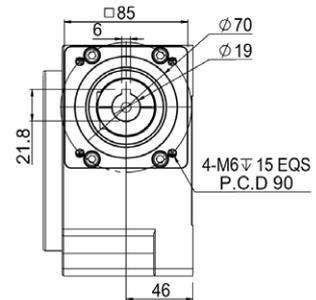
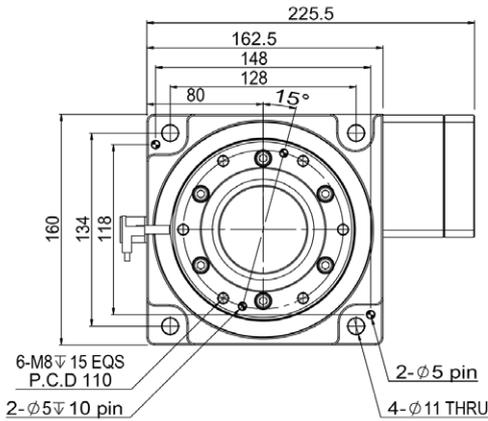
100
150
200

Motor
SV1

SV1: Servo Ø19 PCD90,M5
 SV2: Servo Ø19 PCD90,M6
 Suit for 750W AC Servo Motor

ST1: Stepper Ø14PCD98.4,M5
 ST2: Stepper Ø14PCD98.4,M6
 Suit for 86 Stepper Motor

- XXY
- GXYR
- GX
- GZ
- GTZ
- GXY
- GR
- GYH
- GSH
- GSR
- GSHR**
- GSA
- GSN
- GSB
- GSG
- Parameter
- GSZ
- GMR
- GMC
- GMA
- GML



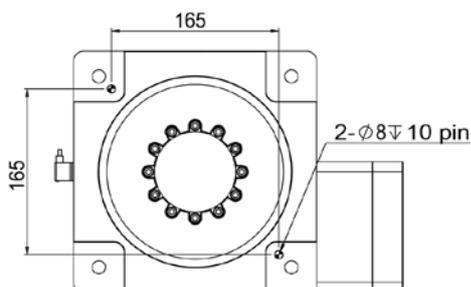
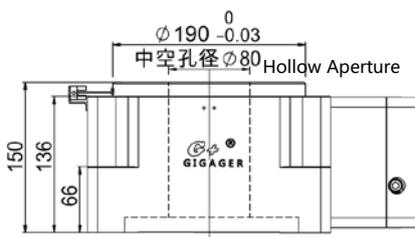
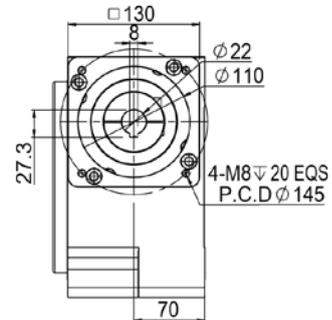
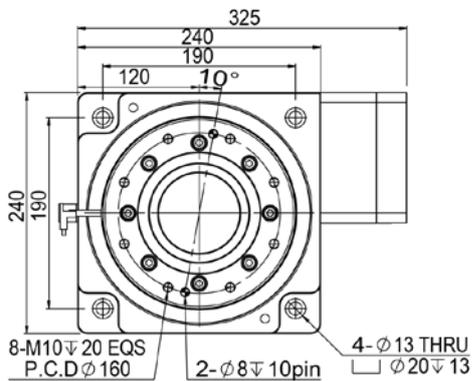
Technical Parameters

Bearing of Rotary Table		Cross Roller Bearing
Allowable Torque	N.m	175
Allowable Table Speed	rpm	100
Gear Ratio	i	30
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-min	≤ 1
Allowable Axial Load	N	4000
Allowable Moment of Inertia	N.m	160
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	53
Weight	kg	9.1

GSHR200

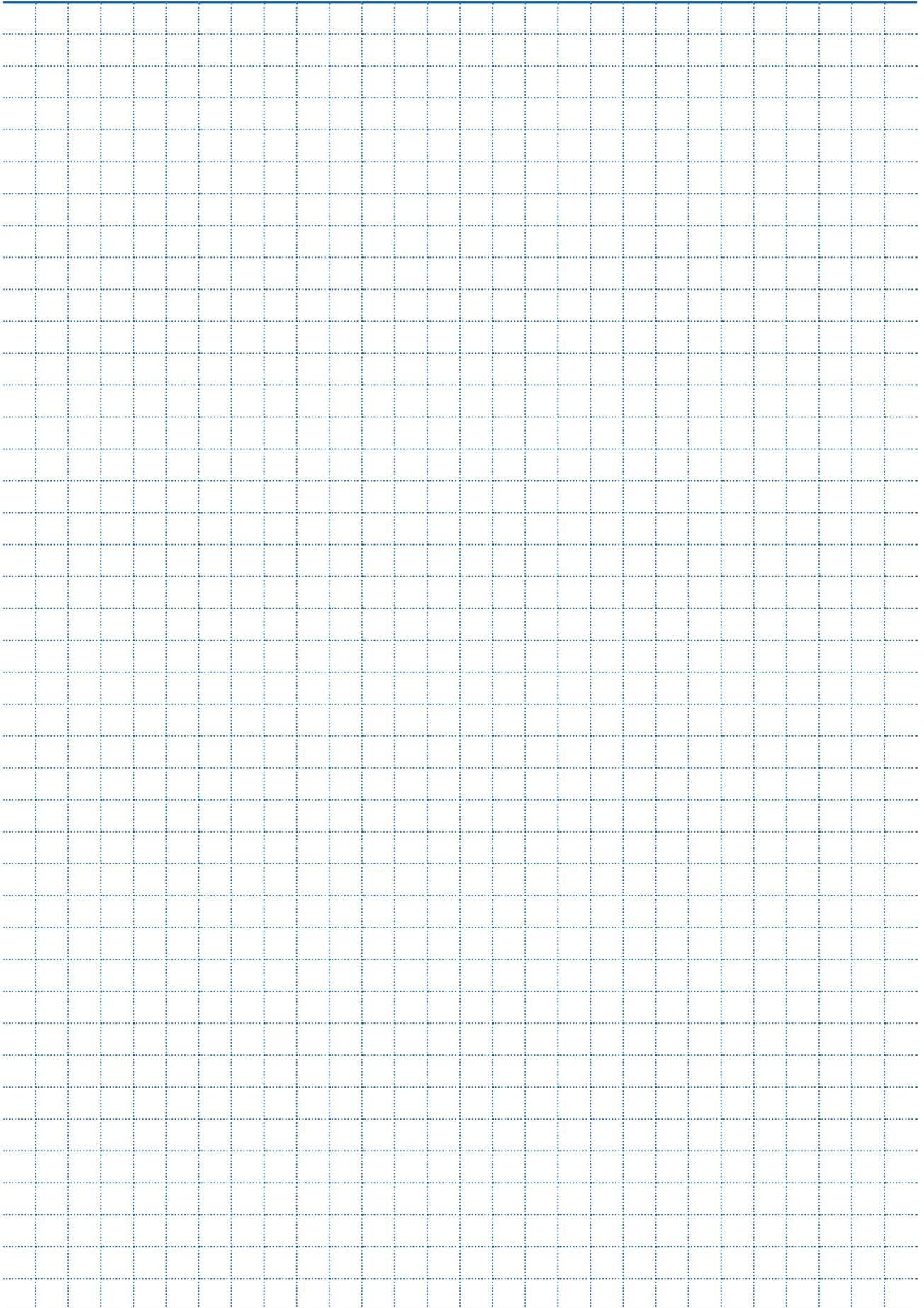
Series	Size	Ratio	Motor
GSHR	200	30K	SV1
	100 150 200		SV1: Servo Ø22 PCD145,M8 SV2: Servo Ø24 PCD145,M8 Suit for 1000W AC Servo Motor

- XXY
- GXYR
- GX
- GZ
- GTZ
- GXY
- GR
- GYH
- GSH
- GSR
- GSHR**
- GSA
- GSN
- GSB
- GSG
- Parameter
- GSZ
- GMR
- GMC
- GMA
- GML



Technical Parameters

Bearing of Rotary Table		Cross Roller Bearing
Allowable Torque	N.m	350
Allowable Table Speed	rpm	100
Gear Ratio	i	30
Repeatability	arc-sec	≤ 10
Positioning Accuracy	arc-min	≤ 1
Allowable Axial Load	N	7000
Allowable Moment of Inertia	N.m	200
Table Flatness	mm	≤ 0.01
Table Concentricity	mm	≤ 0.01
Ingress Protection	IP	53
Weight	kg	32



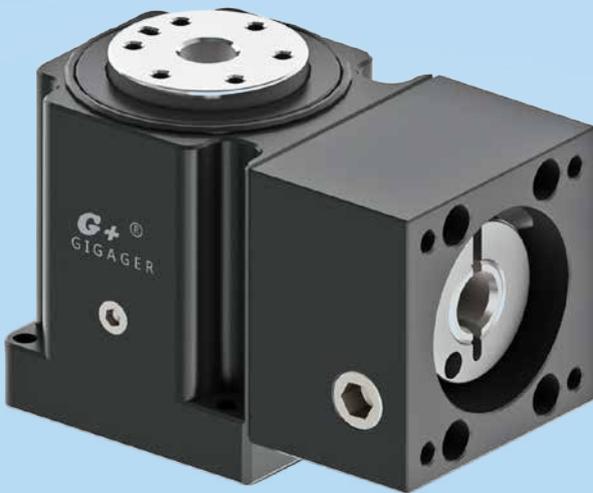


®

Hollow Rotary Tables/GSA Series

Right-angle Hollow Construction
Suitable for Heavy-duty Horizontal Installation

GSA Series Standard Model



Large Hollow Aperture

Wiring and piping are more convenient and concise, and this advantage is particularly prominent in the wiring and piping environment with complex wiring

90° Right-angle Structure

Supply more choices for limited space with the limited space efficiently

Multiple Combinations

Combined with planetary reducers and various brands of servo motors to achieve multiple mechanism designs

Long Life-span

The accuracy life can reach 30000hrs



Series	Size	Type	Ratio	Motor
GSA	42		03K	SV1
	42 45	M: Planetary H: Standard	03K 08K 09K 12K 15K 30K	SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 Suit for 100W AC Servo Motor ST1: Stepper Ø5 PCD43.8,M3 ST2: Stepper Ø6 PCD43.8,M3 Suit for 42 Stepper Motor OS: Dedicated Open Loop Stepper Motor

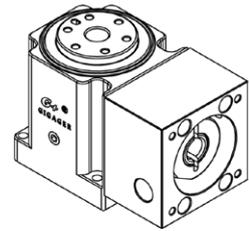
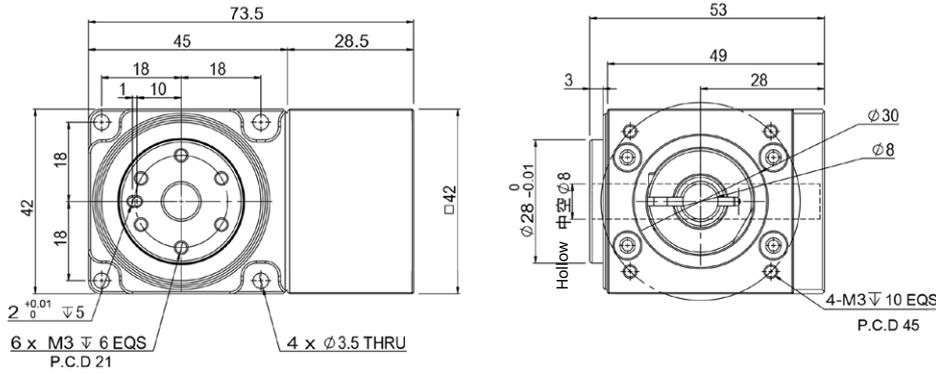
Technical Parameters

Parameters	Model					
	GSA42H	GSA42M				GSA45
Bearing of Rotary Table	Tapered Roller Bearing					Deep Groove Ball Bearing
Gear Ratio i	3	9	12	15	30	8
Permissible Torque N.m	12					3
Allowable Table Speed rpm	200					150
Repeatability arc-sec	≤ 10	≤ 15				≤ 10
Allowable Moment of Inertia N.m	3					1.5
Positioning Accuracy arc-min	≤ 1					
Allowable Axial Load N	100					20
Table Flatness mm	≤ 0.01					
Table Concentricity mm	≤ 0.01					
Ingress Protection IP	40					
Weight kg	0.5	1				0.5

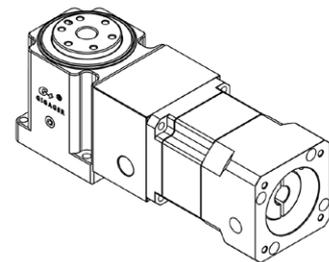
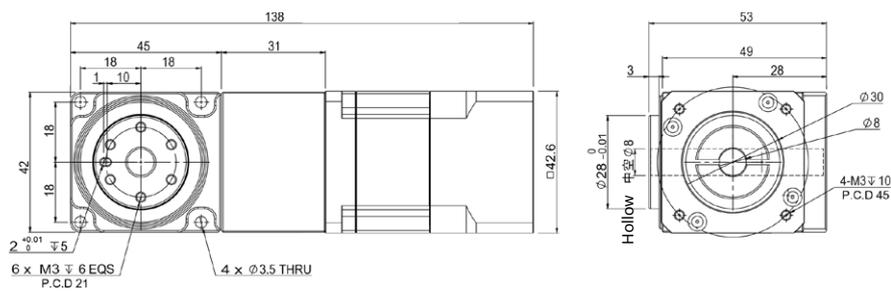
Motor/Drive Parameters

Motor/Driver Parameters	Model	
	GSA45-08K-OS	
Frame Size mm	28	
Rated Current A/phase	1	
Coil Impedance Ω/phase	2.7	
Coil Inductive mh	1.9	
Holding Torque N.m	0.11	
Moment of Inertia g.cm ²	17	
Motor Length mm	40	
Ingress Protection IP	20	
Step Angle °	1.8	
Lead Wire	4	

■ GSA42H-03K



■ GSA42M-9K/12K/15K/30K

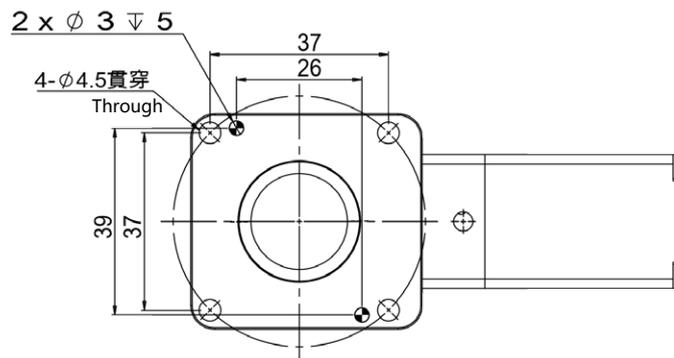
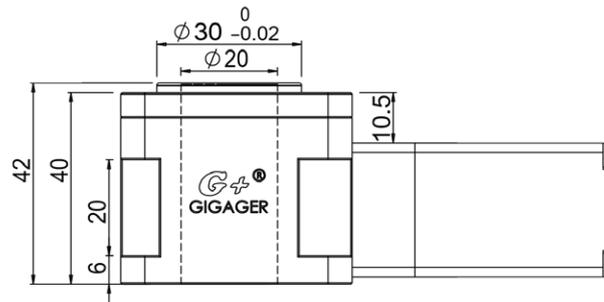
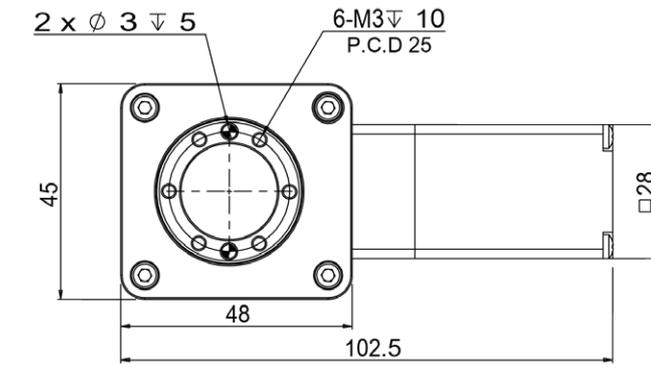


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■ GSA45-08K-OS



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G+[®] Hollow Rotary Table

GSN, GSB, GSG Series

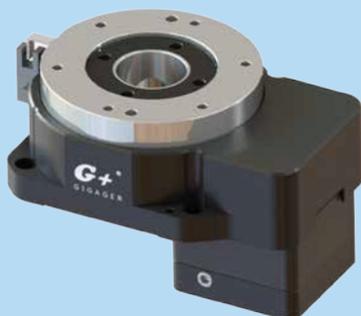


GSN Series

Spec: 60, 85, 130, 200, 280, 450

Allowable Torque: 1.2~380 N.m

Allowable Axial Load: 250~12000 N



GSB Series

Spec: 60, 100, 130, 200

Allowable Torque: 5.3~80 N.m

Allowable Axial Load: 100~1300 N



GSG Series

Spec: 60, 85, 130, 200

Allowable Torque: 8~250N.m

Allowable Axial Load: 250~4000 N

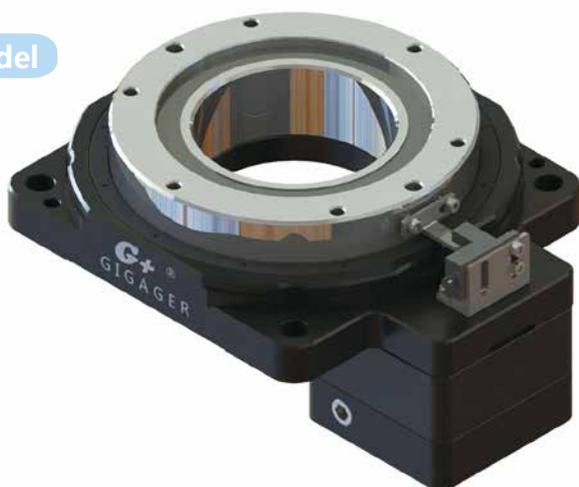


Hollow Rotary Tables/GSN Series

Multiple Combinations Available
For High Precision Repeat Positioning Application

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

Standard Model



Large Aperture Hollow Structure
Easy to wiring and piping

Direct Connection
Rotary table can be directly installed with working table robot arms

Long Life-span
The accuracy life can be reach 20000 hrs

Multiple Installations
Adopting cross roller bearing, it can be installed in horizontal, suspension and side

More Options for Motor Equip
Stepper and servo motor could be equipped



Equip Open Loop Stepper Motor



Equip Closed Loop Stepper Motor



Planetary



Right Angle

GSN60

Series	Size	Type	Ratio	Motor
GSN	60		05K	SV1
	60 85 130 200 280 450	Z: Right Angle M: Planetary None: Standard		SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 Suit for 100W AC Servo Motor
				ST1: Stepper Ø5 PCD43.8,M3 ST2: Stepper Ø6 PCD43.8,M3 Suit for 42 Stepper Motor
				OS: Dedicated Open Loop Stepper Motor CS: Dedicated Closed Loop Stepper Motor

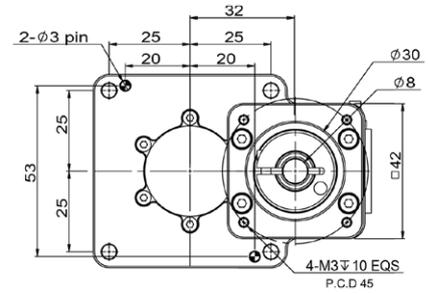
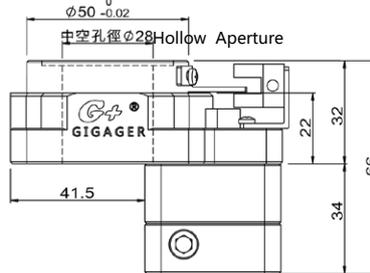
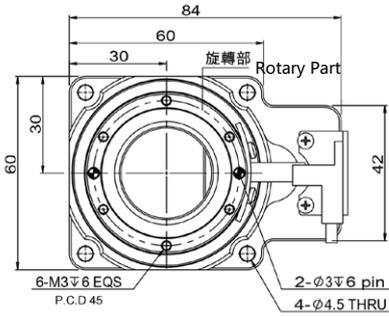
Technical Parameters

Parameters		Model				
		GSN60		GSN60Z	GSN60M	
Bearing of Rotary Table		Cross Roller Bearing				
Gear Ratio	i	5	10	18	15	20
Allowable Torque	N.m	5.2	4.0	1.2	5.2	
Allowable Table Speed	rpm	200		40	200	
Repeatability	arc-sec	≤ 10			≤ 15	
Allowable Moment of Inertia	N.m	5				
Positioning Accuracy	arc-min	≤ 1				
Allowable Axial Load	N	250				
Table Flatness	mm	≤ 0.01				
Table Concentricity	mm	≤ 0.01				
Ingress Protection	IP	40				
Weight	kg	0.6		1	1.1	

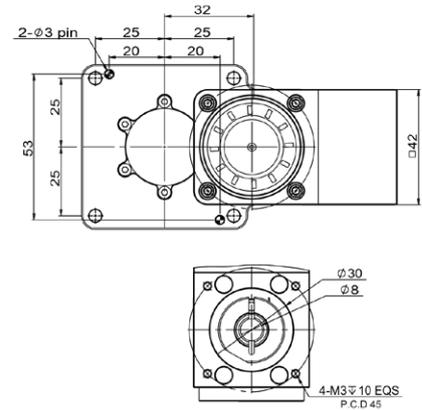
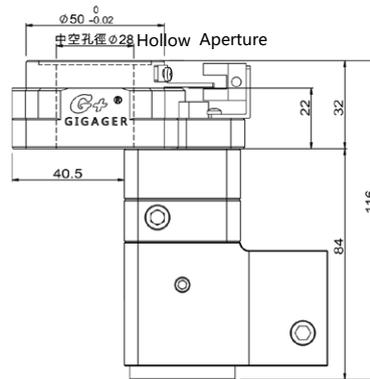
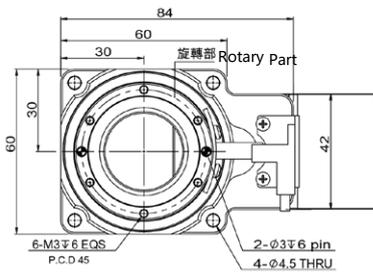
Motor/Drive Parameters

Motor/Driver Parameters		Model	
		GSN60-18K-OS	GSN60-18K-CS
Frame Size	mm	28	
Rated Current	A/phase	1	
Coil Impedance	Ω/phase	3.0	
Coil Inductive	mh	2.2	
Holding Torque	N.m	0.14	
Moment of Inertia	g.cm ²	18	
Encoder Resolution	P/R	-	2500
Ingress Protection	IP	20	
Step Angle	°	1.8	
Drive Configuration		-	Dedicated Drive
Drive Input Voltage		-	DC24V
Drive Command Input Form		-	Pulse + Direction DC5V

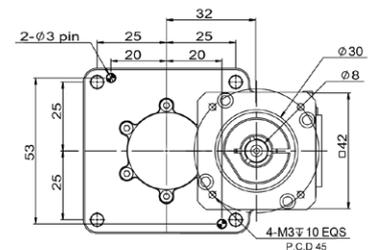
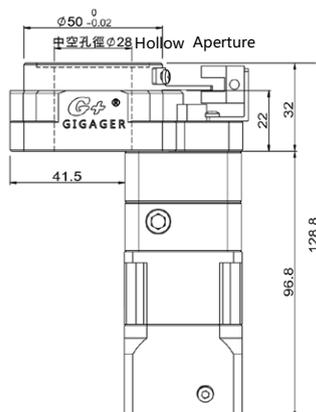
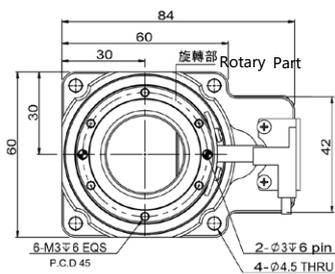
■ GSN60-05K



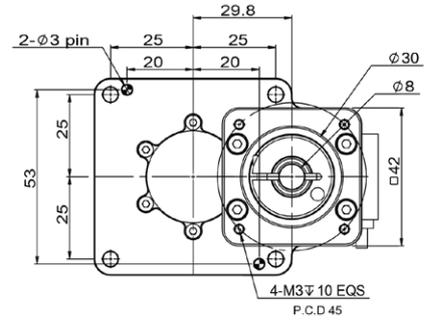
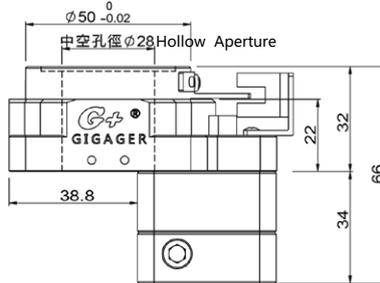
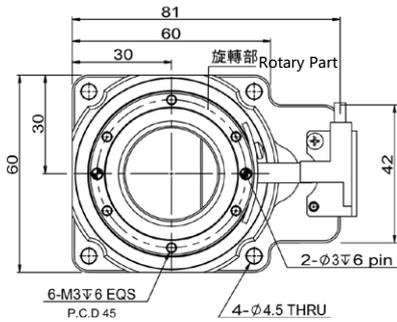
■ GSN60Z



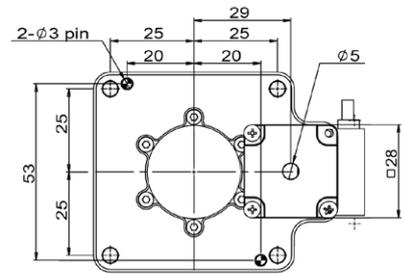
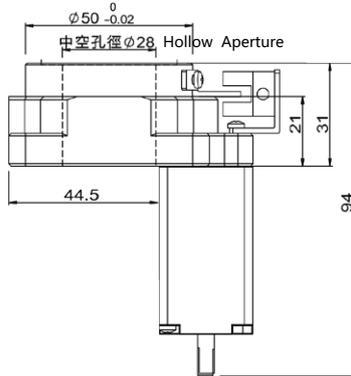
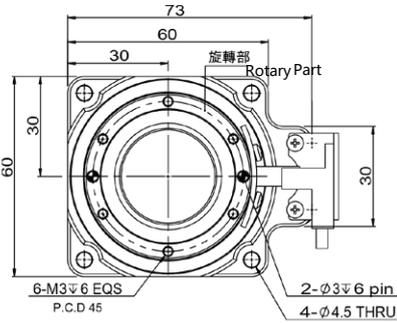
■ GSN60M



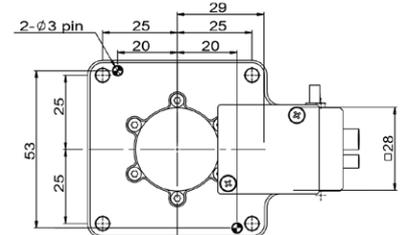
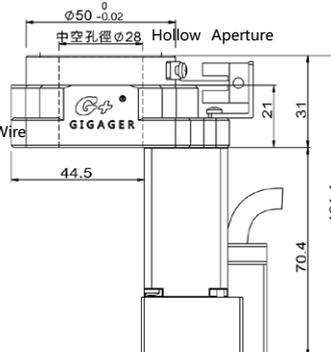
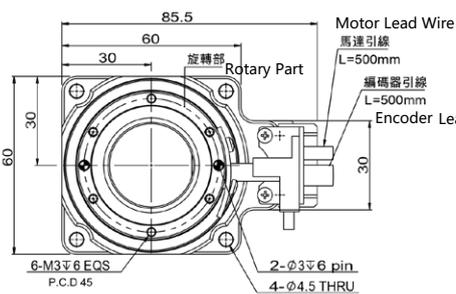
■ GSN60-10K



■ GSN60-18K-OS



■ GSN60-18K-CS



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Parameter
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GSN85

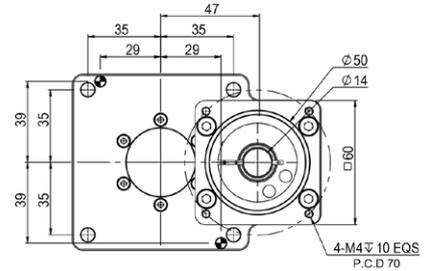
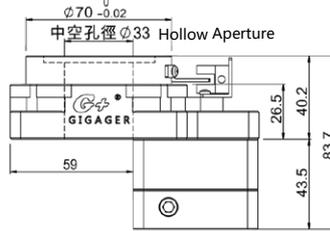
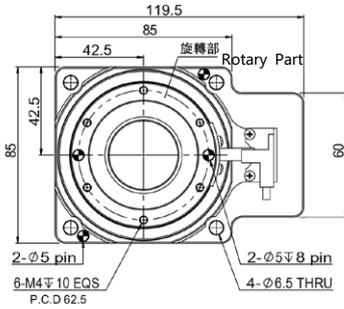
Seires	Size	Type	Ratio	Motor
GSN	85		05K	SV1
	60 85 130 200 280 450	Z: Right Angle M: Planetary None: Standard		SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400W AC Servo Motor ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor

XXY
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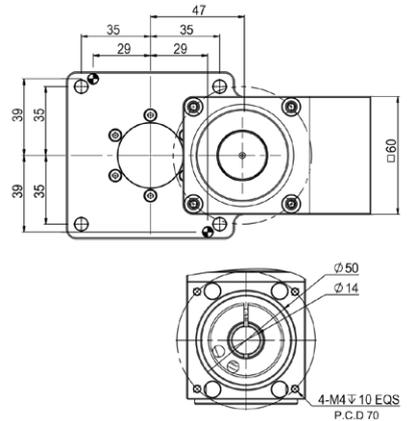
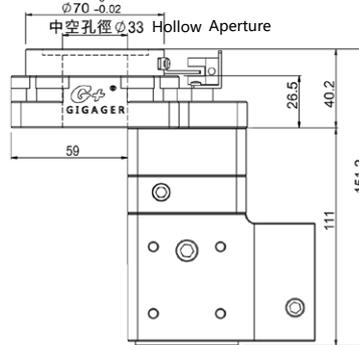
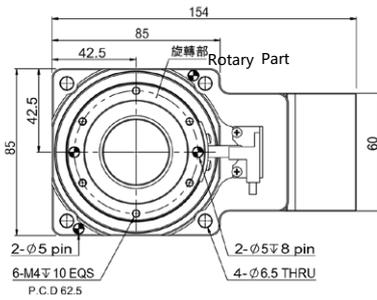
Technical Parameters

Parameters	Model												
	GSN85		GSN85Z				GSN85M						
Bearing of Rotary Table	Cross Roller Bearing												
Gear Ratio	i	5	10	10	15	20	30	15	20	25	35	50	
Allowable Torque	N.m	20	16	20	20	16	16	20	20	20	20	20	
Allowable Table Speed	rpm	200											
Repeatability	arc-sec	≤ 10						≤ 15					
Allowable Moment of Inertia	N.m	10											
Positioning Accuracy	arc-min	≤ 1											
Allowable Axial Load	N	500											
Table Flatness	mm	≤ 0.01											
Table Concentricity	mm	≤ 0.01											
Ingress Protection	IP	40											
Weight	kg	1.4		2.6									

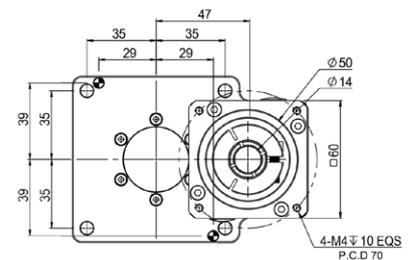
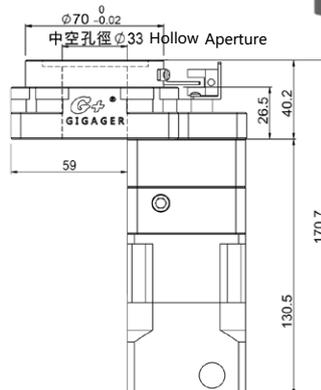
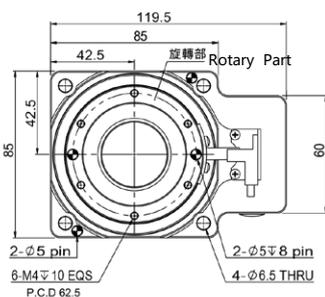
■ GSN85-05K



■ GSN85Z-10K/15K

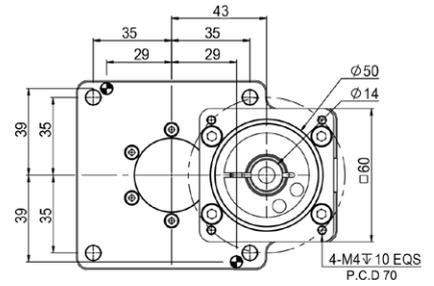
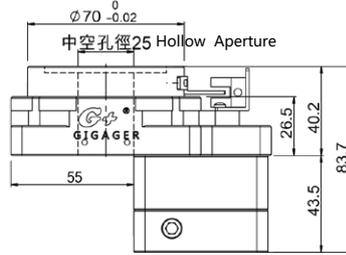
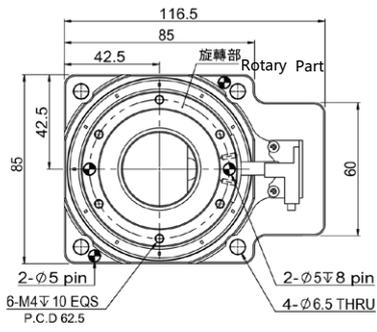


■ GSN85M-15K/20K/25K/35K/50K

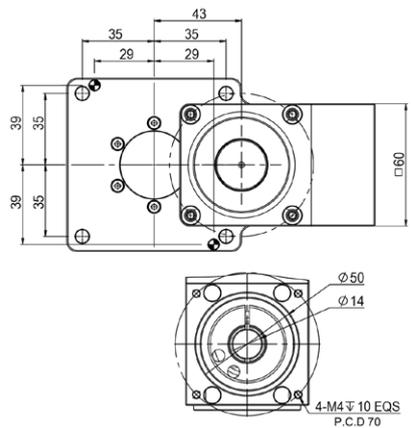
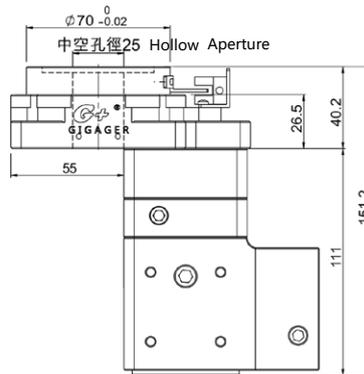
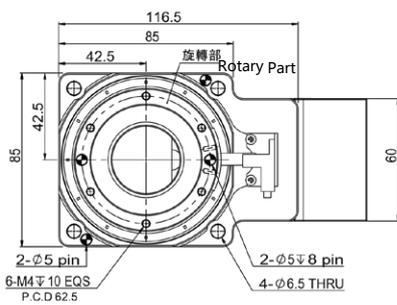


XXY
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■ GSN85-10K



■ GSN85Z-20K/30K



GSN85

Series	Size	Ratio	Motor
GSN	85	18K	SV1
	60		SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 Suit for AC 100W Servo Motor
	85		ST1: Stepper Ø5 PCD43.8,M3 ST2: Stepper Ø6 PCD43.8,M3 Suit for 42 Stepper Motor
	130		
	200		
	280		
	450		OS: Dedicated Open Loop Stepper Motor CS: Dedicated Closed Loop Stepper Motor

Technical Parameters

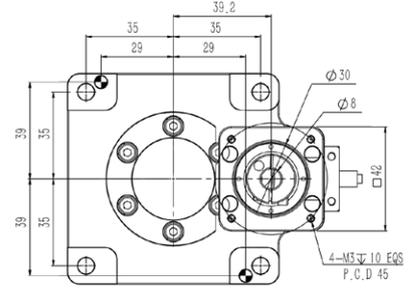
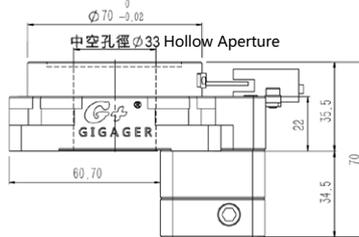
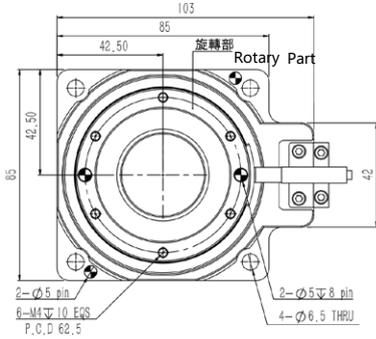
Parameters		Model		
		GSN85-18K	GSN85-18K-OS	GSN85-18K-CS
Bearing of Rotary Table		Cross Roller Bearing		
Gear Ratio	i	18		
Allowable Torque	N.m	3.2		
Allowable Table Speed	rpm	150	50	150
Repeatability	arc-sec	≤ 10		
Allowable Moment of Inertia	N.m	10		
Positioning Accuracy	arc-min	≤ 1		
Allowable Axial Load	N	500		
Table Flatness	mm	≤ 0.01		
Table Concentricity	mm	≤ 0.01		
Ingress Protection	IP	40		
Weight	kg	1	1.2	1.3

Motor/Drive Parameters

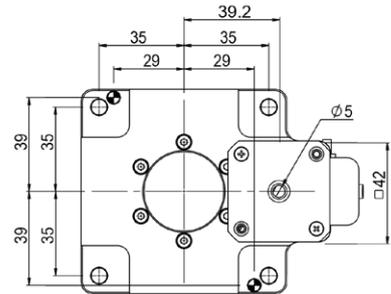
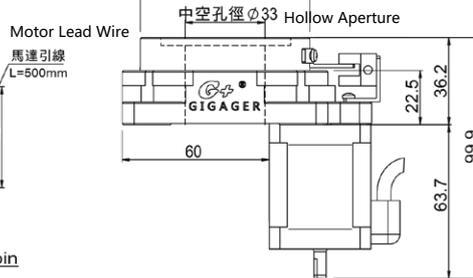
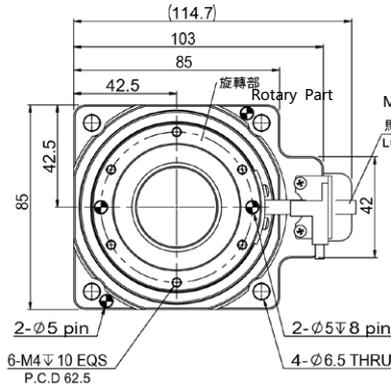
Motor/Driver Parameters		Model	
		GSN85-18K-OS	GSN85-18K-CS
Frame Size	mm	42	
Rated Voltage	V/phase	3.25	
Rated Current	A/phase	1.3	
Coil Impedance	Ω/phase	2.5	
Coil Inductive	mh	6.0	
Holding Torque	N.m	0.6	
Moment of Inertia	g.cm ²	82	
Encoder Resolution	P/R	-	2500
Ingress Protection	IP	20	
Step Angle	°	1.8	
Drive Configuration		-	Dedicated Drive
Drive Input Voltage		-	DC24V
Drive Command Input Form		-	Pulse + Direction DC5V

- XXY
- GXYR
- GX
- GZ
- GTZ
- GXY
- GR
- GYH
- GSH
- GSR
- GSHR
- GSA
- GSN**
- GSB
- GSG
- Parameter
- GSZ
- GMR
- GMC
- GMA
- GML

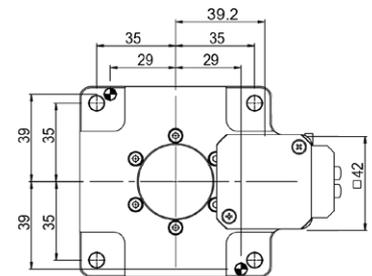
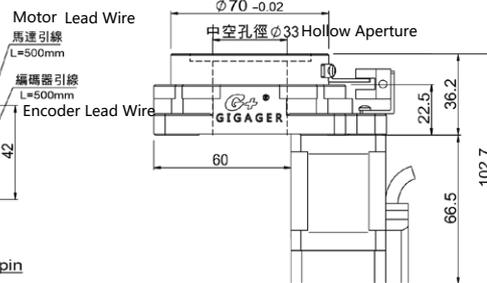
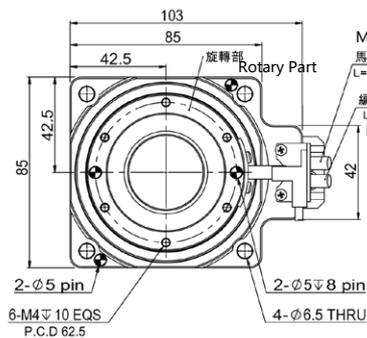
■ GSN85-18K



■ GSN85-18K-OS



■ GSN85-18K-CS



XXY
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GSH
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Parameter
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GMC
GMA
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GSN130

Series	Size	Type	Ratio	Motor
GSN	130		10K	SV1
	60 85 130 200 280 450	Z: Right Angle M: Planetary None: Standard		SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400W AC Servo Motor
				ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor
				OS: Dedicated Open Loop Stepper Motor CS: Dedicated Closed Loop Stepper Motor

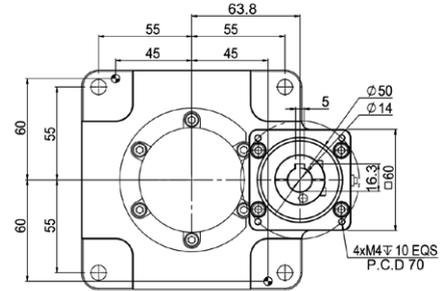
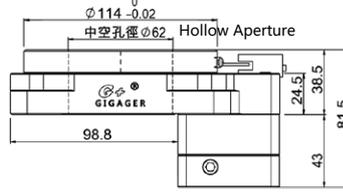
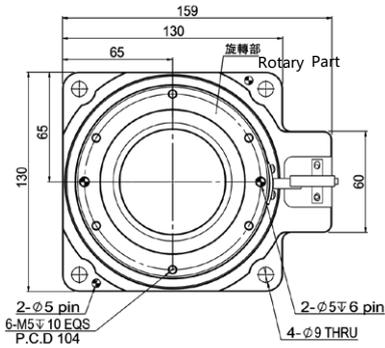
Technical Parameters

Parameters	Model							
	GSN130		GSN130Z		GSN130M			
Bearing of Rotary Table	Cross Roller Bearing							
Gear Ratio	i	10	18	20	30	30	40	50
Allowable Torque	N.m	40	28	40				
Allowable Table Speed	rpm	200	150 OS: 50/CS: 120	200				
Repeatability	arc-sec	≤ 10				≤ 15		
Allowable Moment of Inertia	N.m	50						
Positioning Accuracy	arc-min	≤ 1						
Allowable Axial Load	N	2000						
Table Flatness	mm	≤ 0.01						
Table Concentricity	mm	≤ 0.01						
Ingress Protection	IP	40						
Weight	kg	2.5 OS: 3.1/CS: 3.3		3.8				

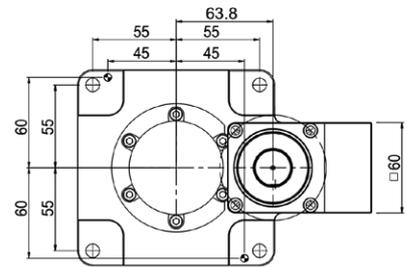
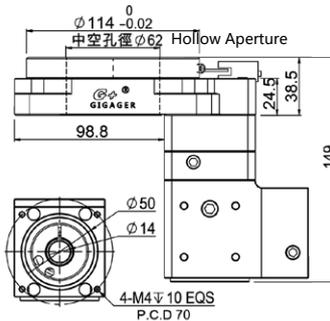
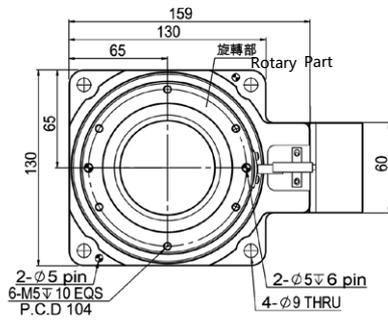
Motor/Drive Parameters

Motor/Driver Parameters	Model	
	GSN130-18K-OS	GSN130-18K-CS
Frame Size	mm	57
Rated Current	A/phase	4.2
Coil Impedance	Ω/phase	1.2
Coil Inductive	mh	4.2
Holding Torque	N.m	2.2
Moment of Inertia	g.cm ²	460
Encoder Resolution	P/R	2500
Ingress Protection	IP	20
Step Angle	°	1.8
Drive Configuration	-	Dedicated Drive
Drive Input Voltage	-	DC24V
Drive Command Input Form	-	Pulse + Direction DC5V

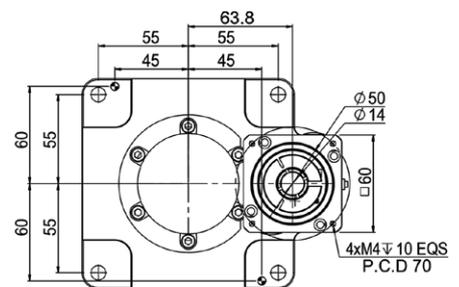
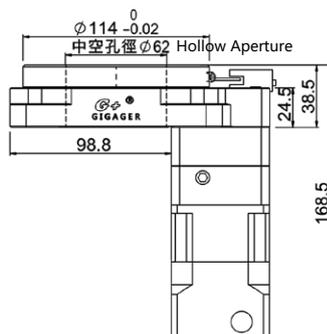
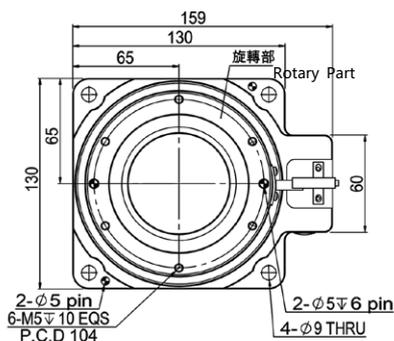
■ GSN130-10K/18K



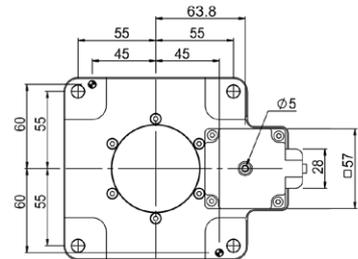
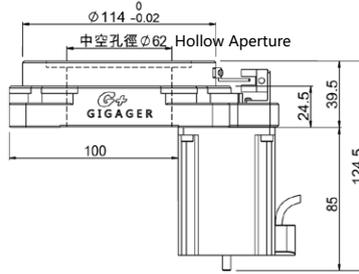
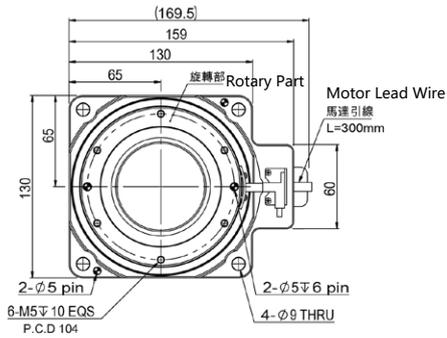
■ GSN130Z-20K/30K



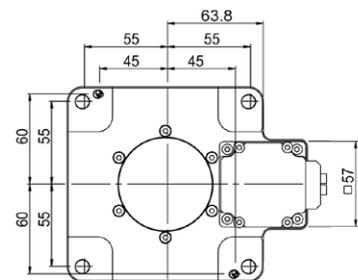
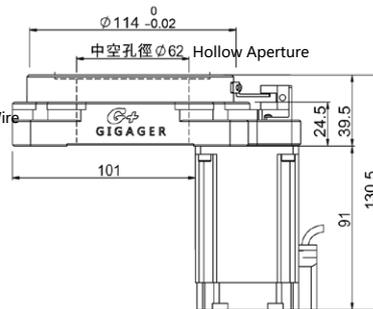
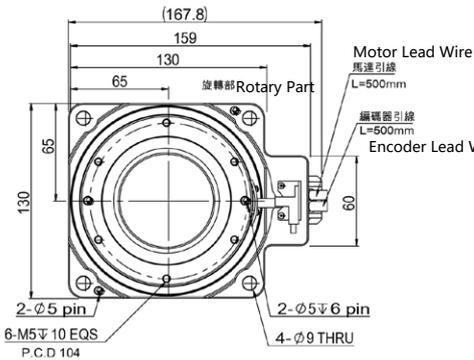
■ GSN130M-30K/40K/50K



■ GSN130-18K-OS



■ GSN130-18K-CS



XXY
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GYH
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Parameter
GSZ
GMR
GMC
GMA
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GSN200

Series	Size	Type	Ratio	Motor
GSN	200		10K	SV1
	60 85 130 200 280 450	Z: Right Angle M: Planetary None: Standard		SV1: Servo Ø19 PCD90,M5 SV2: Servo Ø19 PCD90,M6 Suit for 750W AC Servo Motor
				ST1: Stepper Ø14 PCD98.4,M5 ST2: Stepper Ø14 PCD98.4,M6 Suit for 86 Stepper Motor
				OS: Dedicated Open Loop Stepper Motor CS: Dedicated Closed Loop Stepper Motor

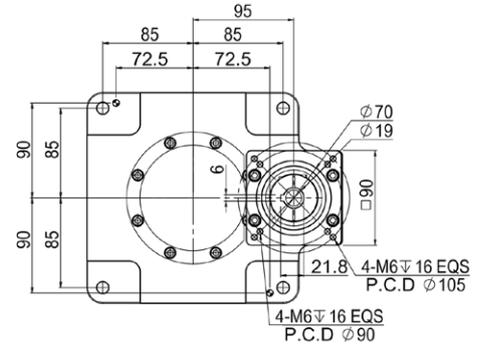
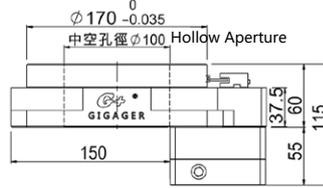
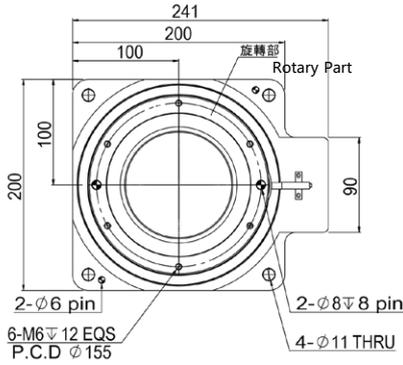
Technical Parameters

Parameters		Model						
		GSN200		GSN200Z		GSN200M		
Bearing of Rotary Table		Cross Roller Bearing						
Gear Ratio	i	10	18	20	30	30	40	50
Allowable Torque	N.m	90	65	90				
Allowable Table Speed	rpm	200	150 OS: 60/CS: 120	200				
Repeatability	arc-sec	≤ 10				≤ 15		
Allowable Moment of Inertia	N.m	100						
Positioning Accuracy	arc-min	≤ 1						
Allowable Axial Load	N	4000						
Table Flatness	mm	≤ 0.01						
Table Concentricity	mm	≤ 0.01						
Ingress Protection	IP	40						
Weight	kg	7.8 OS: 8.8/CS: 9.1		12	11.5			

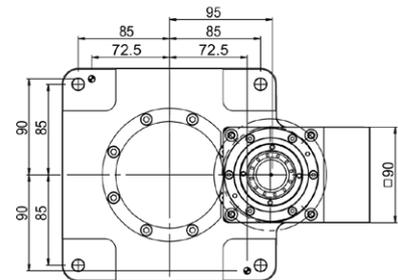
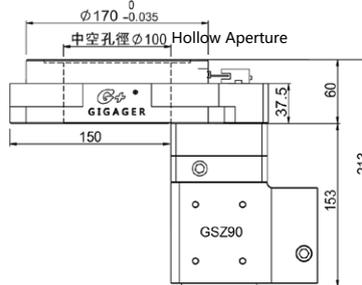
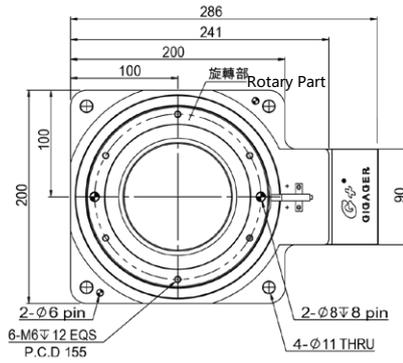
Motor/Drive Parameters

Motor/Driver Parameters		Model	
		GSN200-18K-OS	GSN200-18K-CS
Frame Size	mm	86	
Rated Current	A/phase	5.6	
Coil Impedance	Ω/phase	0.6	
Coil Inductive	mh	5.2	
Holding Torque	N.m	4.2	
Moment of Inertia	g.cm ²	2500	
Encoder Resolution	P/R	-	2500
Ingress Protection	IP	20	
Step Angle	°	1.8	
Drive Configuration		-	Dedicated Drive
Drive Input Voltage		-	DC48V
Drive Command Input Form		-	Pulse + Direction DC5V

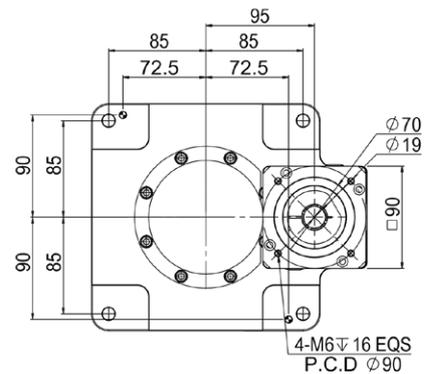
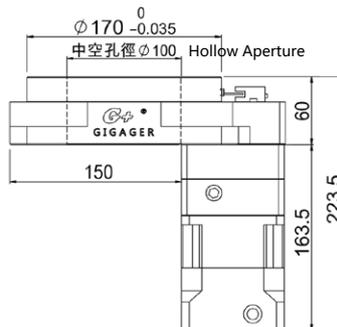
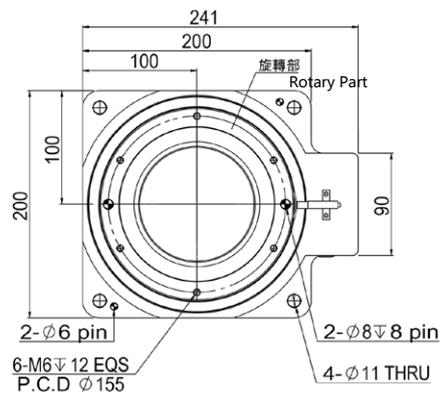
■ GSN200-10K/18K



■ GSN200Z-20K/30K

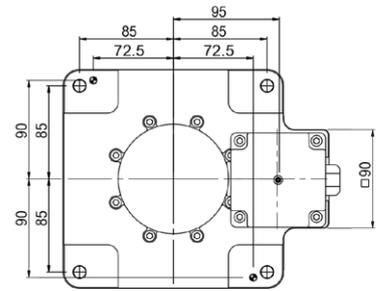
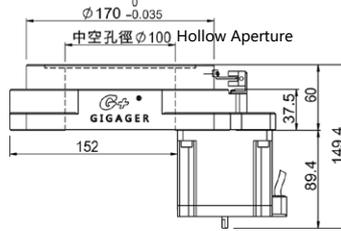
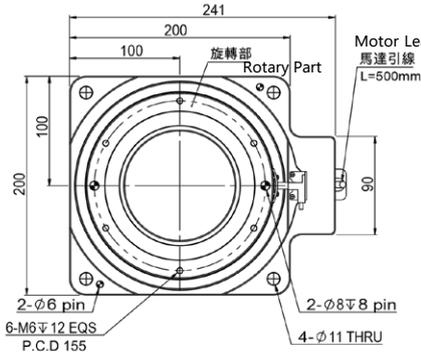


■ GSN200M-30K/40K/50K

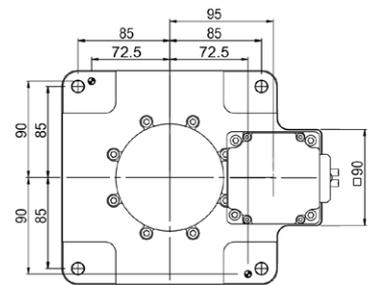
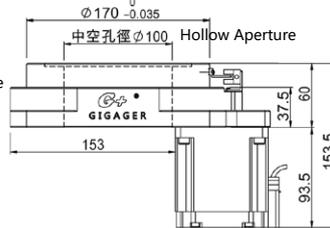
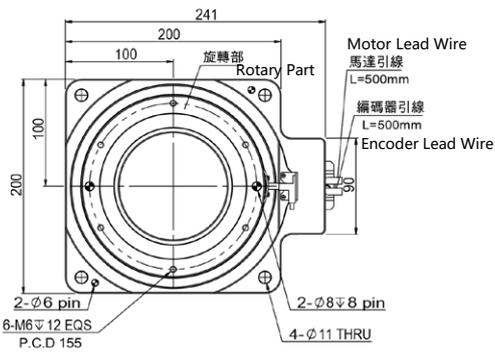


XXY
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■ GSN200-18K-OS



■ GSN200-18K-CS



GSN280

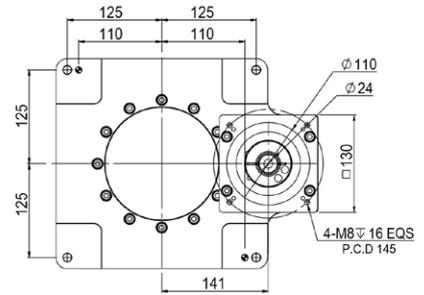
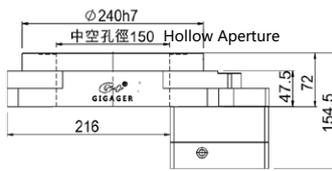
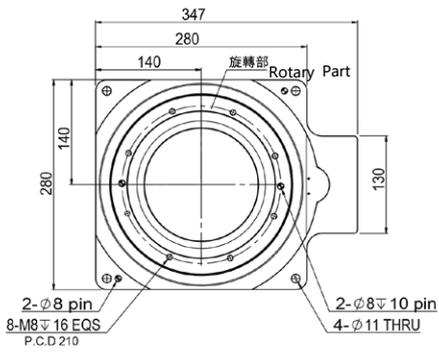
Series	Size	Type	Ratio	Motor
GSN	280		10K	SV1
	60 85 130 200 280 450	M: Planetary None: Standard		SV1: Servo Ø22 PCD145,M8 SV2: Servo Ø24 PCD145,M8 Suit for 1000W AC Servo Motor

■ Technical Parameter

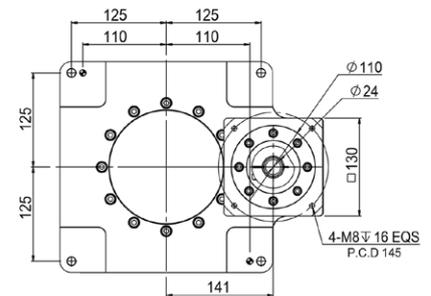
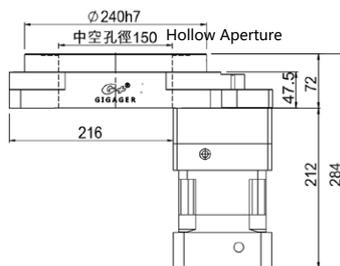
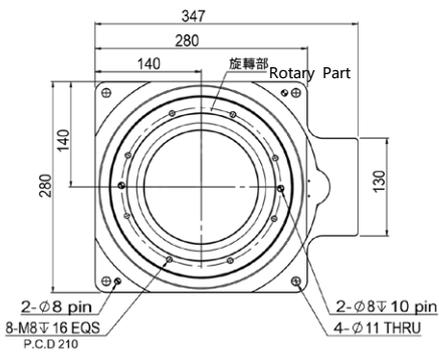
Parameters		Model			
		GSN280	GSN280M		
Bearing of Rotary Table		Cross Roller Bearing			
Gear Ratio	i	10	30	40	50
Allowable Torque	N.m	120			
Allowable Table Speed	rpm	200			
Repeatability	arc-sec	≤ 10			≤ 15
Allowable Moment of Inertia	N.m	200			
Positioning Accuracy	arc-min	≤ 1			
Allowable Axial Load	N	8000			
Table Flatness	mm	≤ 0.01			
Table Concentricity	mm	≤ 0.01			
Ingress Protection	IP	40			
Weight	kg	20	28		

XXY
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GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

■ GSN280-10K



■ GSN280M-30K/40K/50K



GSN450

Series	Size	Type	Ratio	Input Terminal Installation Dimensions
GSN	450		10K	(\square^a - \square^b - \square^c - \square^d)
	60 85 130 200 280 450	M: Planetary None: Standard		a. Motor output shaft diameter b. Motor spigot diameter c. Motor mounting hole PCD d. Motor mounting threaded hole According to the motor mounting size e.g.: (19-70-90-M5)

■ Technical Parameters

Parameters	Model						
	GSN450	GSN450M					
Bearing of Rotary Table	Cross Roller Bearing						
Gear Ratio	i	10	30	40	50	70	100
Allowable Torque	N.m	380					
Allowable Table Speed	rpm	150					
Repeatability	arc-sec	≤ 10				≤ 15	
Allowable Moment of Inertia	N.m	750					
Positioning Accuracy	arc-min	≤ 1					
Allowable Axial Load	N	12000					
Table Flatness	mm	≤ 0.01					
Table Concentricity	mm	≤ 0.01					
Ingress Protection	IP	40					
Weight	kg	86.5	103.5				

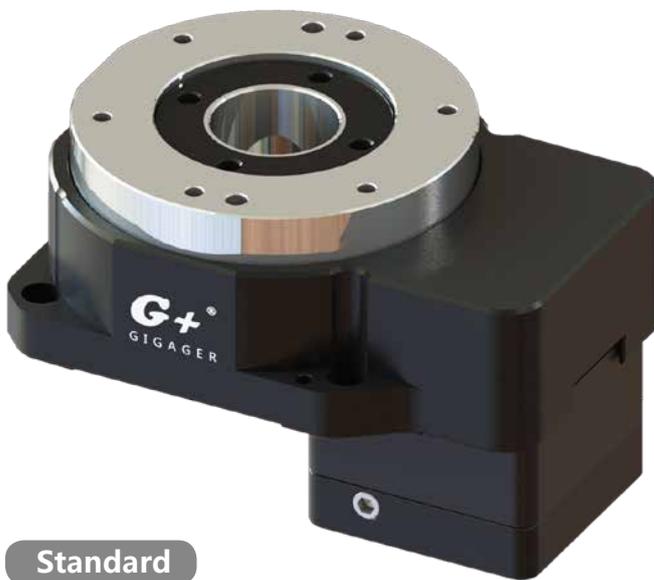
XXY
GXYR
GX
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GTZ
GXY
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GYH
GSH
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GSHR
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GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML



®

Hollow Rotary Tables/GSB Series

Internal Tapered Roller Bearings
Suit for Horizontal Installation



Standard

Hollow Structure

Easy to wiring and piping

Direct Connection

Rotary table can be directly installed with working table and robot arms

Multiple Options for

Motor Stepper and servo motor could be equipped

Long Life-span

The precision life can be reach 2000hrs



Dedicated Open Loop Stepper Motor



Right Angle Type



Planetary Type

GSB60

Series	Size	Type	Ratio	Motor
GSB	60		05K	SV1
	60 100 130 200	Z: Right Angle M: Planetary None: Standard		SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 Suit for 100W AC Servo Motor
				ST1: Stepper Ø5 PCD43.8,M3 ST2: Stepper Ø6 PCD43.8,M3 Suit for 42 Stepper Motor
				OS: Dedicated Stepper Motor

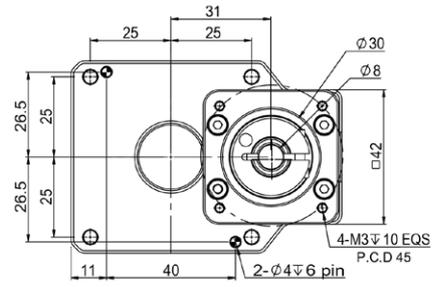
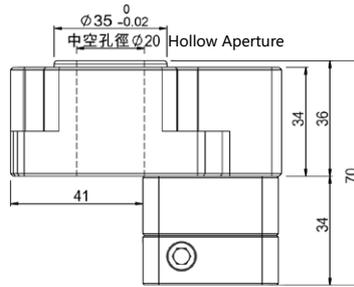
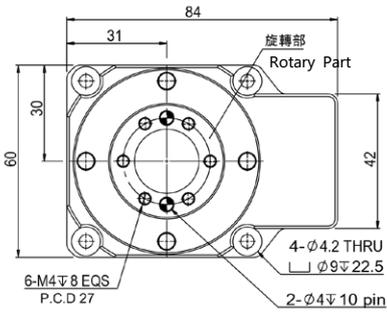
Technical Parameters

Parameters	Model			
	GSB60	GSB60Z	GSB60M	
Bearing of Rotary Table	Tapered Roller Bearing			
Gear Ratio	i	5	15	20
Allowable Torque	N.m	5.3	5.3	
Allowable Table Speed	rpm	200		
Repeatability	arc-sec	≤ 10		≤ 15
Allowable Moment of Inertia	N.m	5		
Positioning Accuracy	arc-min	≤ 1		
Allowable Axial Load	N	100		
Table Flatness	mm	≤ 0.01		
Table Concentricity	mm	≤ 0.01		
Ingress Protection	IP	40		
Weight	kg	0.7(OS: 1)	1	

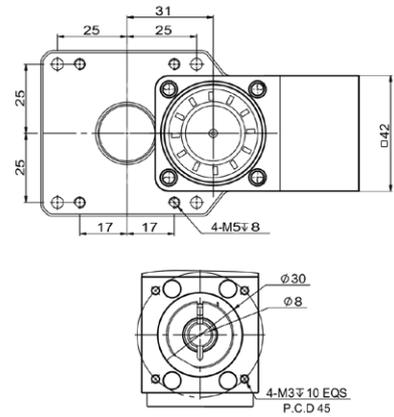
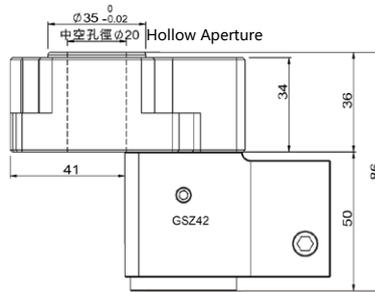
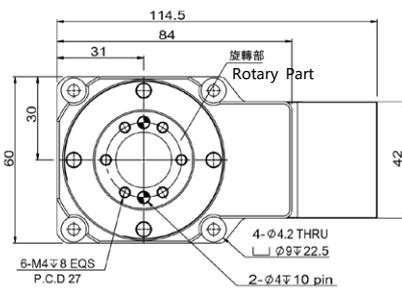
Motor

Model	Frame Size	Rated Current	Coil Impedance	Coil Inductive	Holding Torque	Moment of Inertia	Ingress Protection	Step Angle
	mm	A/phase	Ω/phase	mh	N.m	g.cm ²	IP	
GSB60-05K-OS	42	1.3	2.5	6.0	0.6	82	20	1.8°

■ GSB60-05K

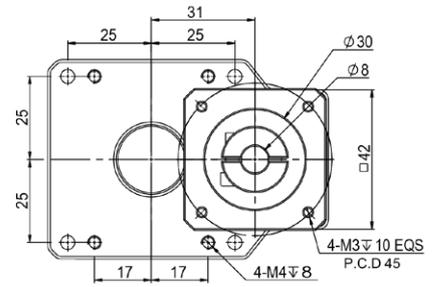
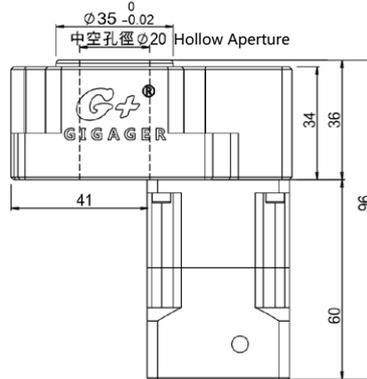
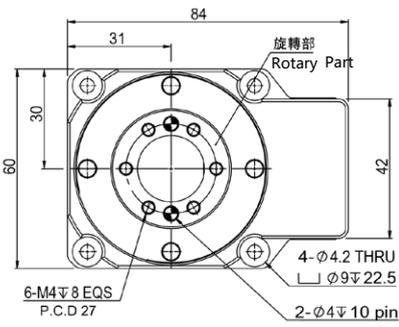


■ GSB60Z-15K

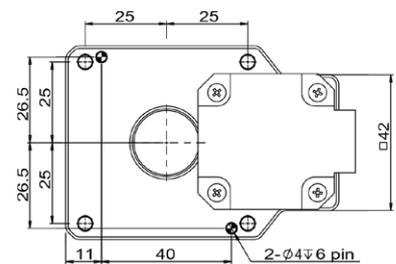
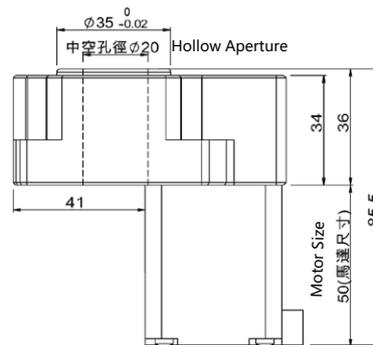
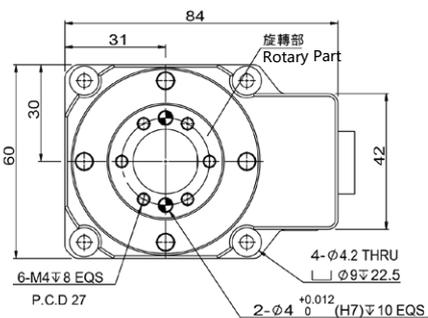


XXY
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GSB60M-20K



GSB60-05K-OS



GSB100

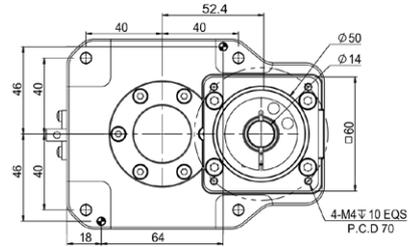
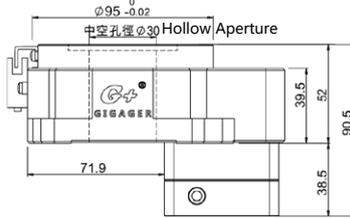
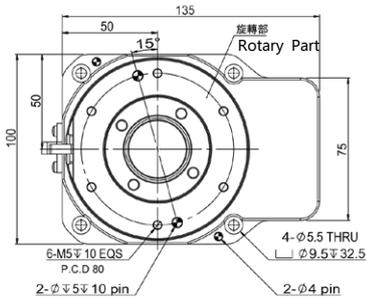
Series	Size	Type	Ratio	Motor
GSB	100		08K	SV1
	60 100 130 200	Z: Right Angle M: Planetary None: Standard		SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400W AC Servo Motor ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor

- XXY
- GXYR
- GX
- GZ
- GTZ
- GXY
- GR
- GYH
- GSH
- GSR
- GSHR
- GSA
- GSN
- GSB**
- GSG
- Parameter
- GSZ
- GMR
- GMC
- GMA
- GML

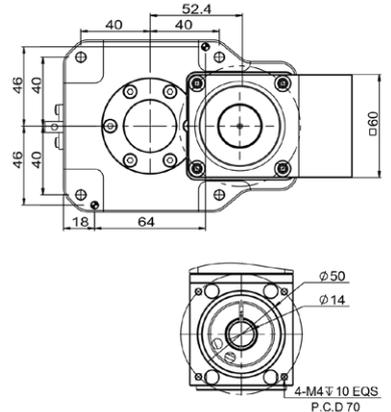
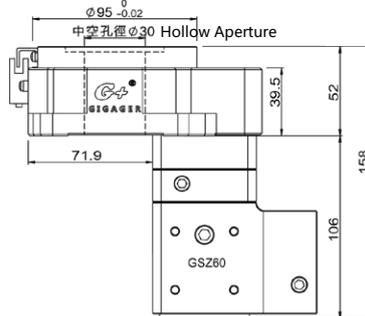
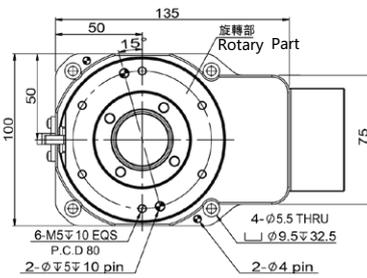
■ Technical Parameters

Parameters		Model					
		GSB100	GSB100Z			GSB100M	
Bearing of Rotary Table		Tapered Roller Bearing					
Gear Ratio	i	8	16	24	24	32	40
Allowable Torque	N.m	26					
Allowable Table Speed	rpm	200					
Repeatability	arc-sec	≤ 10			≤ 15		
Allowable Moment of Inertia	N.m	50					
Positioning Accuracy	arc-min	≤ 1					
Allowable Axial Load	N	700					
Table Flatness	mm	≤ 0.01					
Table Concentricity	mm	≤ 0.01					
Ingress Protection	IP	40					
Weight	kg	2.7	4				

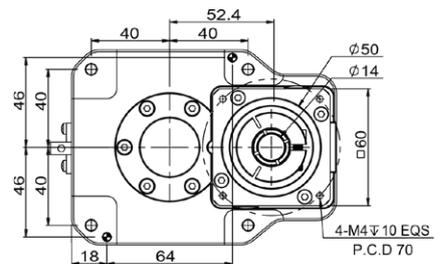
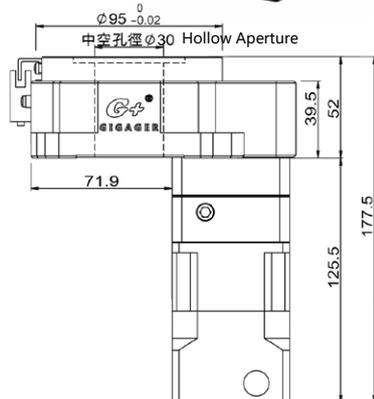
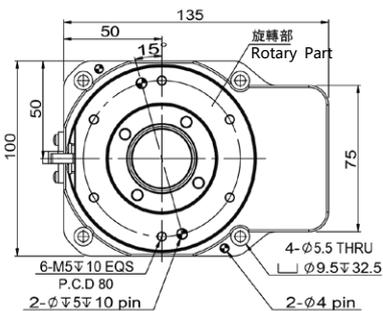
GSB100-08K



GSB100Z-16K/24K



GSB100M-24K/32K/40K



GSB130

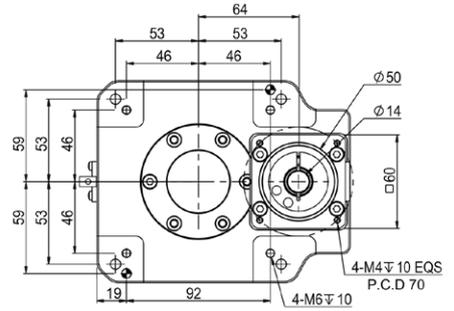
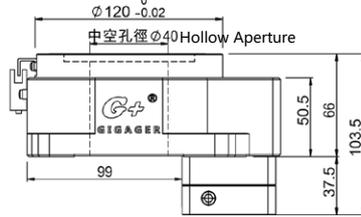
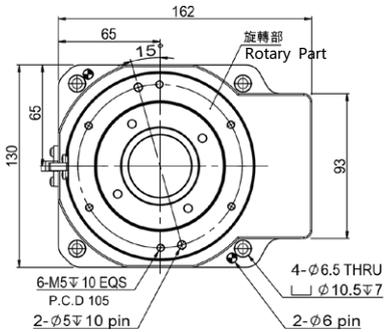
Series	Size	Type	Ratio	Motor
GSB	130		10K	SV1
	60 100 130 200	Z: Right Angle M: Planetary None: Standard		SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400W AC Servo Motor ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor

■ Technical Parameters

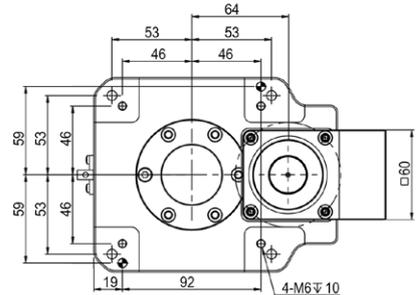
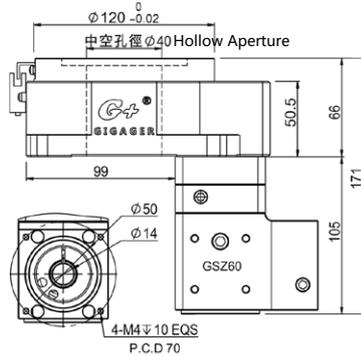
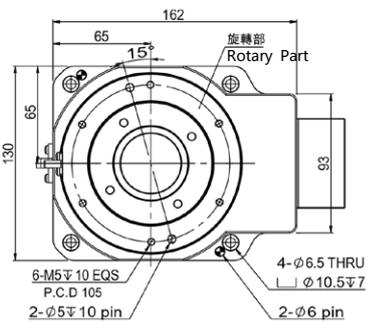
Parameters		Model					
		GSB130		GSB130Z		GSB130M	
Bearing of Rotary Table		Tapered Roller Bearing					
Gear Ratio	i	10	20	30	30	40	50
Allowable Torque	N.m	48					
Allowable Table Speed	rpm	200					
Repeatability	arc-sec	≤ 10			≤ 15		
Allowable Moment of Inertia	N.m	60					
Positioning Accuracy	arc-min	≤ 1					
Allowable Axial Load	N	1000					
Table Flatness	mm	≤ 0.01					
Table Concentricity	mm	≤ 0.01					
Ingress Protection	IP	40					
Weight	kg	5	6.3				

- XXY
- GXYR
- GX
- GZ
- GTZ
- GXY
- GR
- GYH
- GSH
- GSR
- GSHR
- GSA
- GSN
- GSB**
- GSG
- Parameter
- GSZ
- GMR
- GMC
- GMA
- GML

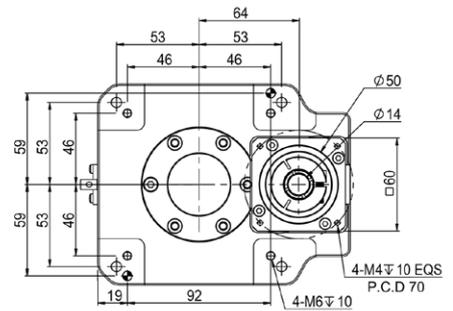
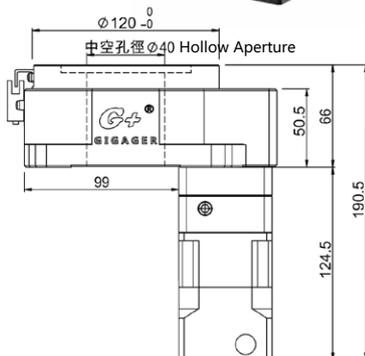
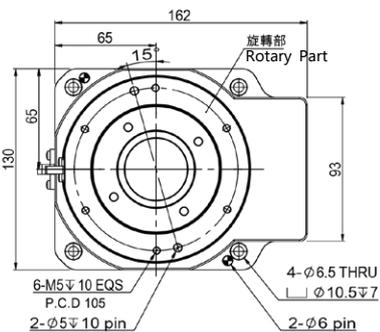
GSB130-10K



GSB130Z-20K/30K



GSB130M-30K/40K/50K



GSB200

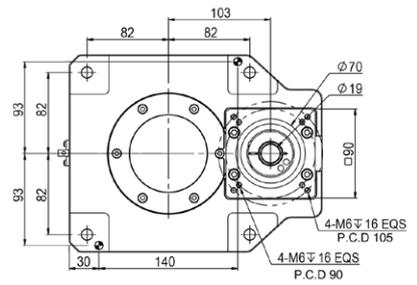
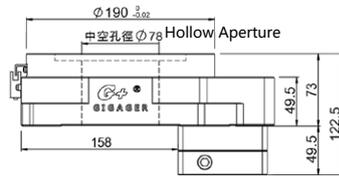
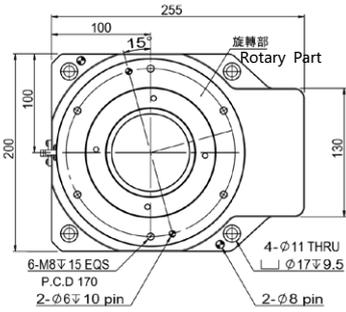
Series	Size	Type	Ratio	Motor
GSB	200		10K	SV1
	60 100 130 200	Z: Right Angle M: Planetary None: Standard		SV1: Servo Ø19 PCD90,M5 SV2: Servo Ø19 PCD90,M6 Suit for 750W AC Servo Motor
				ST1: Stepper Ø14 PCD98.4,M5 ST2: Stepper Ø14 PCD98.4,M6 Suit for 86 Stepper Motor

Technical Parameters

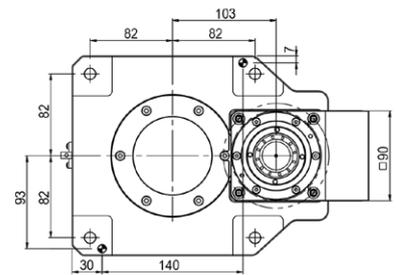
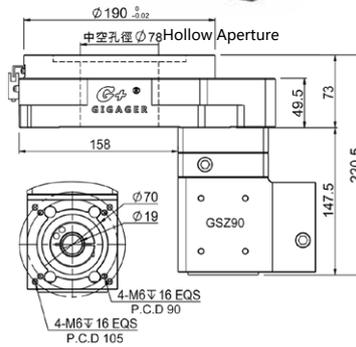
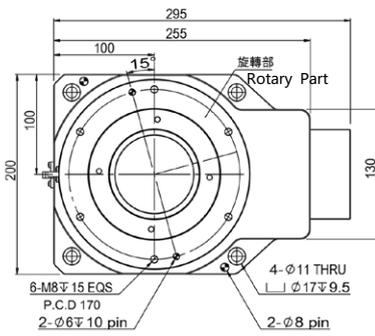
Parameters	Model						
	GSB200	GSB200Z			GSB200M		
Bearing of Rotary Table	Tapered Roller Bearing						
Gear Ratio	i	10	20	30	30	40	50
Allowable Torque	N.m	80					
Allowable Table Speed	rpm	200					
Repeatability	arc-sec	≤ 10			≤ 15		
Allowable Moment of Inertia	N.m	150					
Positioning Accuracy	arc-min	≤ 1					
Allowable Axial Load	N	1300					
Table Flatness	mm	≤ 0.01					
Table Concentricity	mm	≤ 0.01					
Ingress Protection	IP	40					
Weight	kg	13	17				

XXY
GXYR
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GTZ
GXY
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GSH
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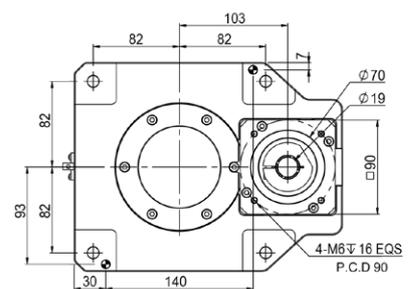
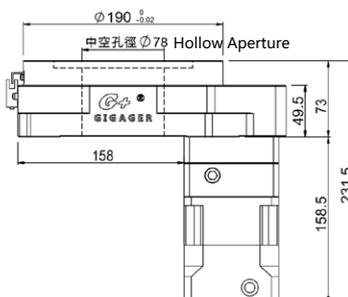
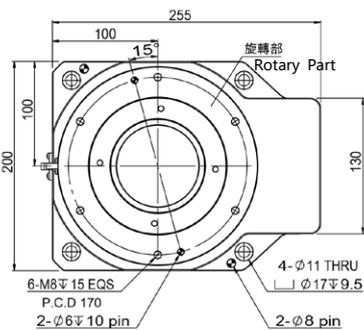
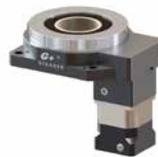
GSB200-10K



GSB200Z-20K/30K



GSB200M-30K/40K/50K





®

Hollow Rotary Tables/GSG Series

High Gear Ratio & High Torque
Two-stage Reduction with Integrated Design



GSG Planetary Model

Large Aperture Structure

Easier wiring and piping , especially in complicated wiring and piping condition

Two-stage Reduction with Integrated Design

Pinion bearing and the second stage coaxial integration assembly, greatly improved the concentricity and gear torque, meanwhile save space and lower cost

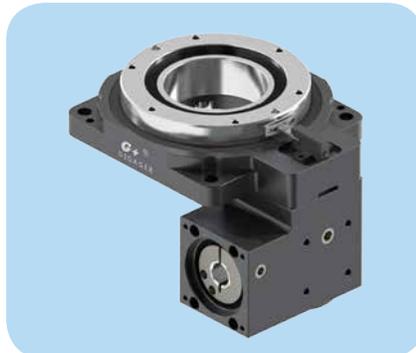
High Torque Gear

Gear coefficient improved, more loading

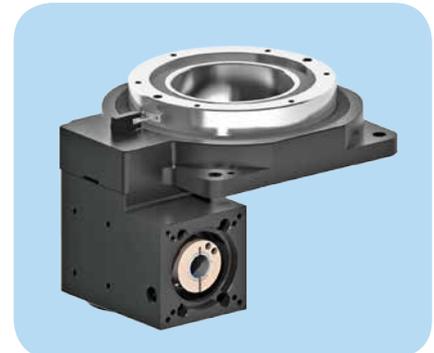
Long life-span: The precision life can reach 30000hrs



Right Angle Standard Type



Right Angle-Left Direction



Right Angle-Right Direction

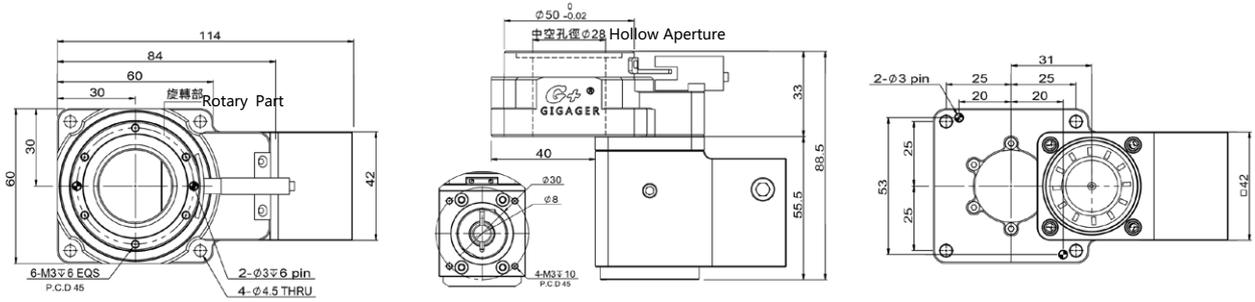
GSG60

Series	Size	Type	Ratio	Motor	Output Direction
GSG	60	Z	15K	SV1	
	60 85 130 200	Z: Right Angle M: Planetary		SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 Suit for 100W AC Servo Motor ST1: Stepper Ø5 PCD43.8,M3 ST2: Stepper Ø6 PCD43.8,M3 Suit for 42 Stepper Motor	R: Right L: Left None: Standard

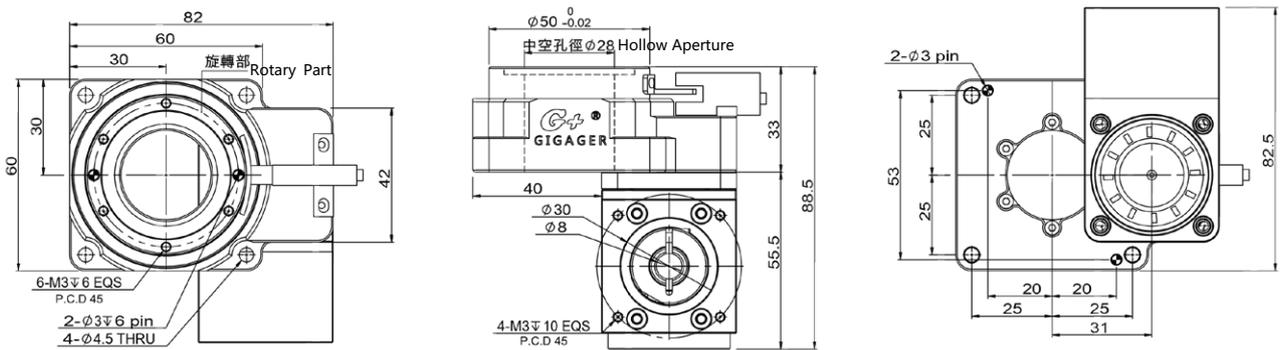
Technical Parameters

Parameters		Model	
		GSG60Z	GSG60M
Bearing of Rotary Table		Cross Roller Bearing	
Allowable Torque	N.m	8	
Allowable Table Speed	rpm	200	
Gear Ratio	i	15	20
Repeatability	arc-sec	≤ 10	≤ 15
Positioning Accuracy	arc-min	≤ 1	
Allowable Axial Load	N	250	
Allowable Moment of Inertia	N.m	5	
Table Flatness	mm	≤ 0.01	
Table Concentricity	mm	≤ 0.01	
Ingress Protection	IP	40	
Weight	kg	1	1

■ GSG60Z-15K

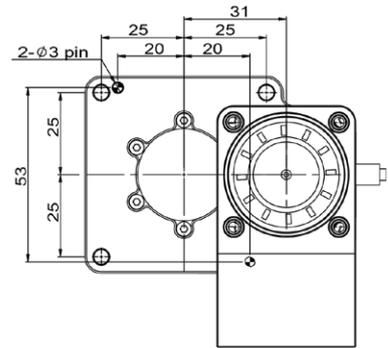
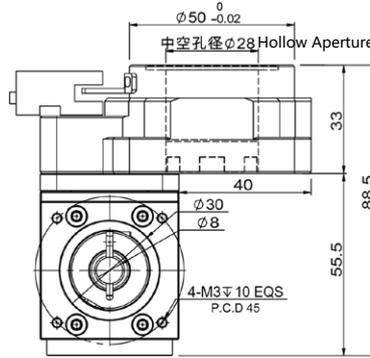
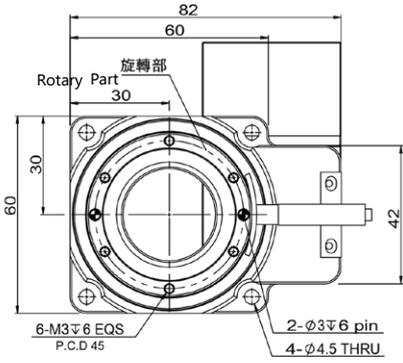


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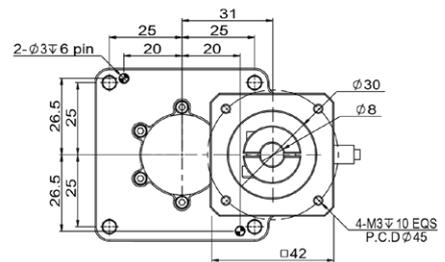
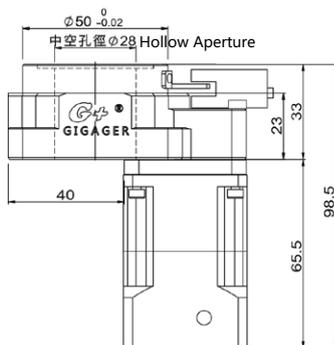
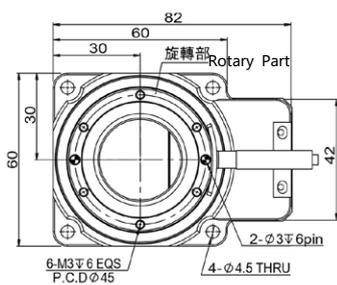


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■ GSG60Z-15K-R



■ GSG60M-20K



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GSG85

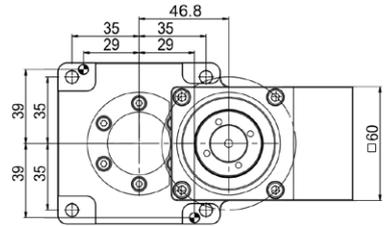
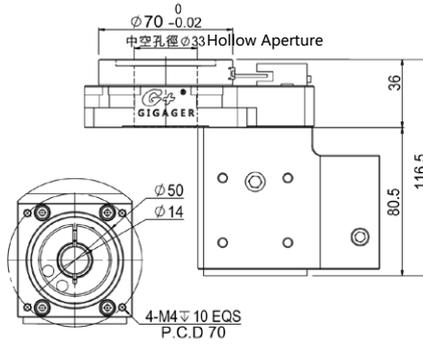
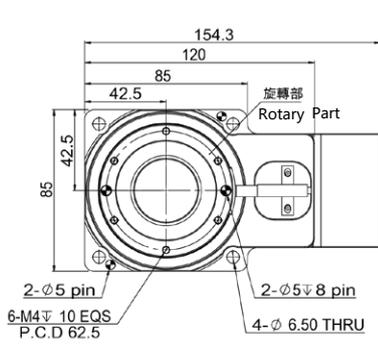
Series	Size	Type	Ratio	Motor	Output Direction
GSG	85	Z	18K	SV1	
	60 85 130 200	Z: Right Angle M: Planetary		SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400W AC Servo Motor ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor	R: Right L: Left None: Standard

Technical Parameters

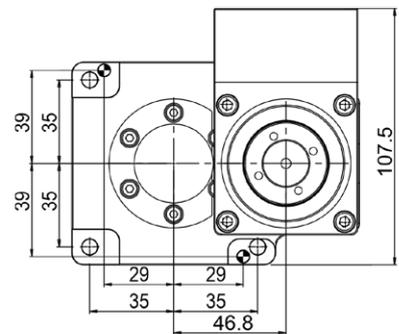
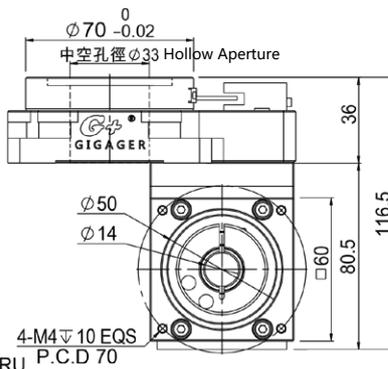
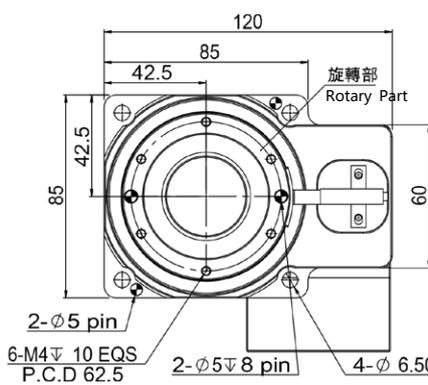
Parameters		Model		
		GSG85Z	GSG85M	
Bearing of Rotary Table		Cross Roller Bearing		
Gear Ratio	i	18	18	30
Allowable Torque	N.m	115		
Allowable Table Speed	rpm	200		
Repeatability	arc-sec	≤ 10	≤ 15	
Allowable Moment of Inertia	N.m	10		
Positioning Accuracy	arc-min	≤ 1		
Allowable Axial Load	N	500		
Table Flatness	mm	≤ 0.01		
Table Concentricity	mm	≤ 0.01		
Ingress Protection	IP	40		
Weight	kg	2.2		

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■ GSG85Z-18K

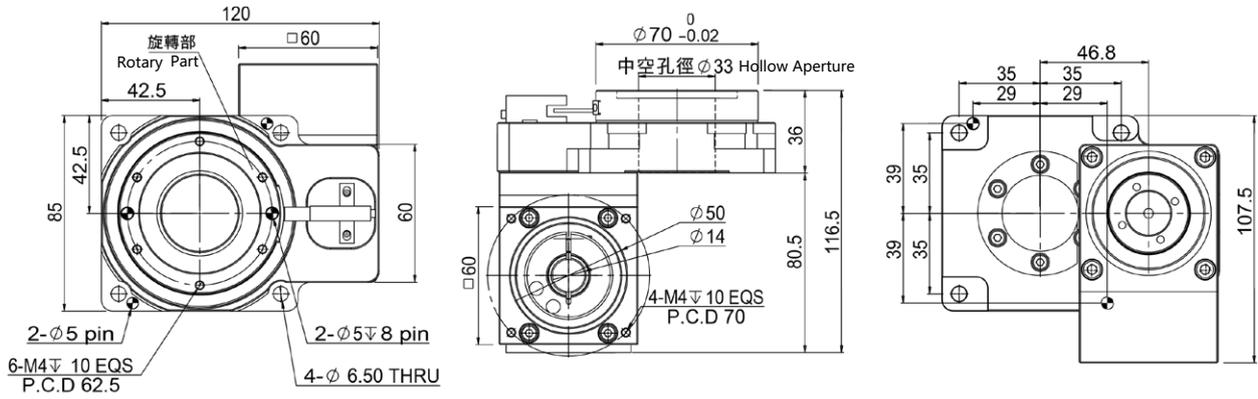


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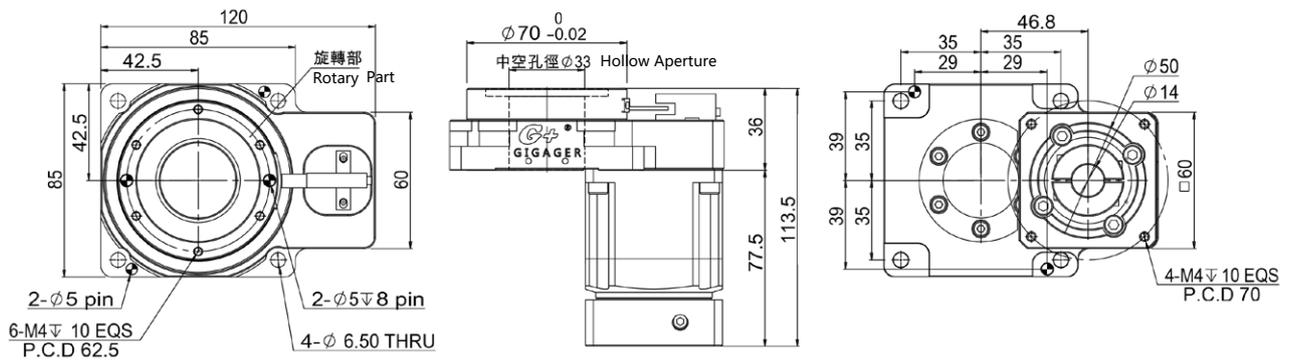


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■ GSG85Z-18K-R



■ GSG85M-18K/30K



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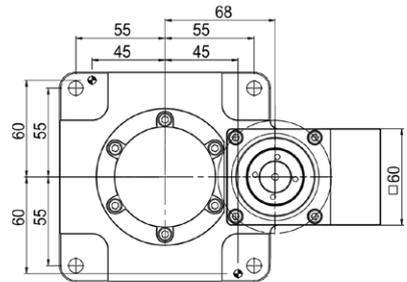
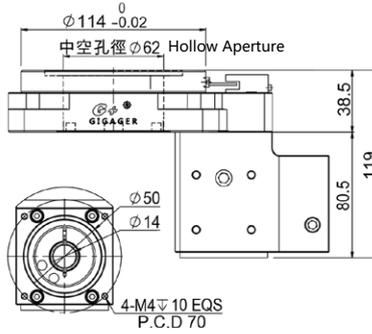
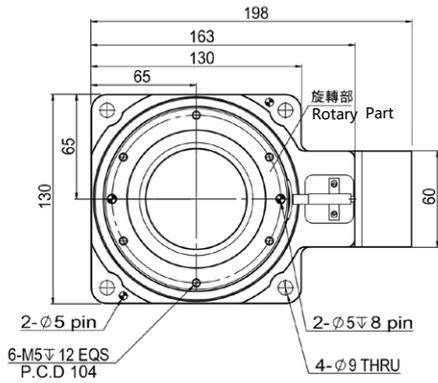
GSG130

Series	Size	Type	Ratio	Motor	Output Direction
GSG	130	Z	18K	SV1	
	60 85 130 200	Z: Right Angle M: Planetary		SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400W AC Servo Motor ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor	R: Right L: Left None: Standard

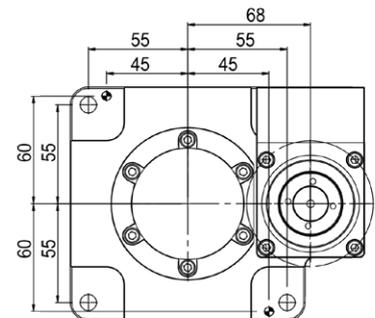
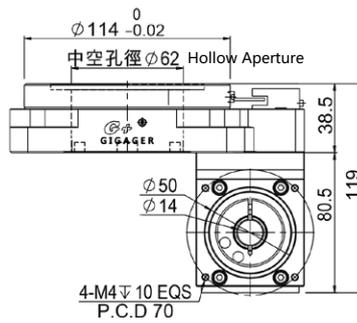
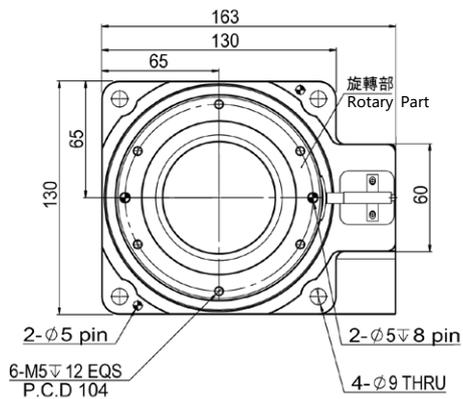
Technical Parameters

Parameters		Model	
		GSG130Z	GSG130M
Bearing of Rotary Table		Cross Roller Bearing	
Gear Ratio	i	18	18 30
Allowable Torque	N.m	140	
Allowable Table Speed	rpm	200	
Repeatability	arc-sec	≤ 10	≤ 15
Allowable Moment of Inertia	N.m	50	
Positioning Accuracy	arc-min	≤ 1	
Allowable Axial Load	N	2000	
Table Flatness	mm	≤ 0.01	
Table Concentricity	mm	≤ 0.01	
Ingress Protection	IP	40	
Weight	kg	3.5	

■ GSG130Z-18K

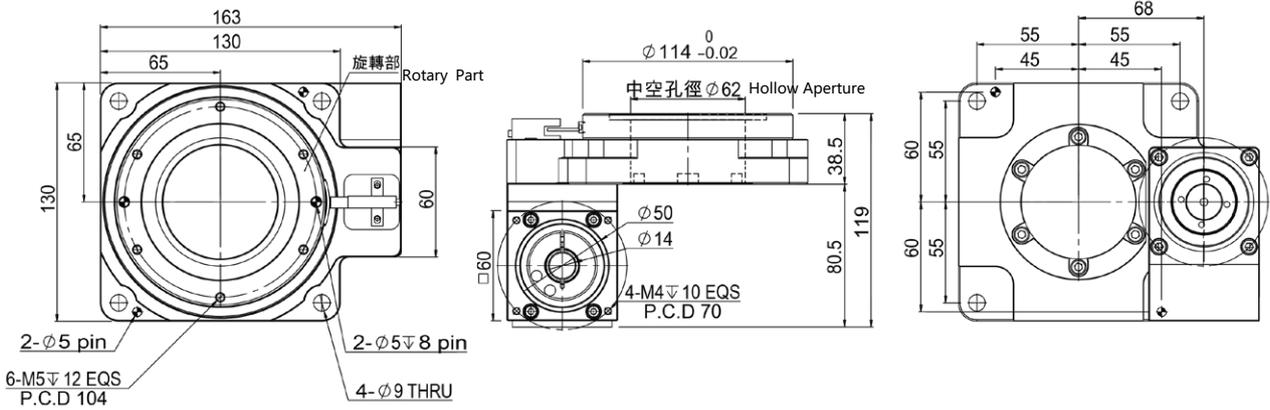


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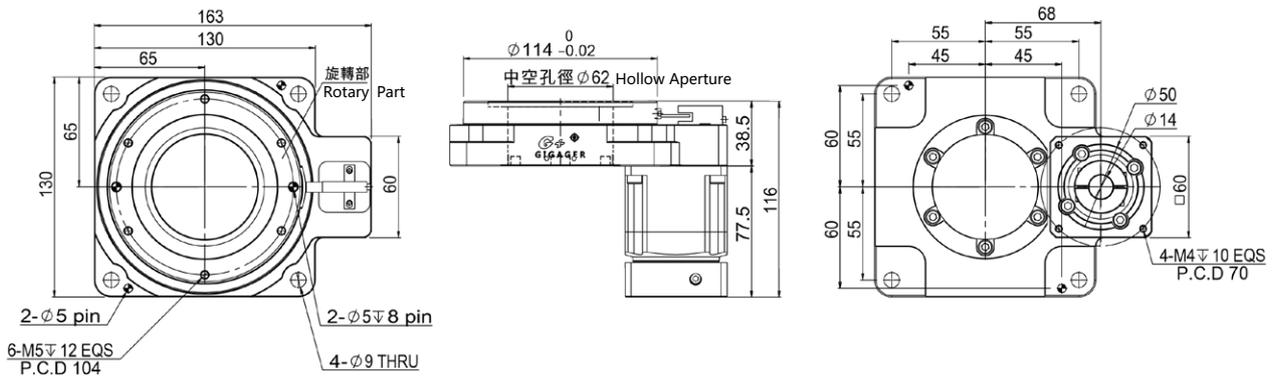


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■ GSG130Z-18K-R



■ GSG130M-18K/30K



GSG200

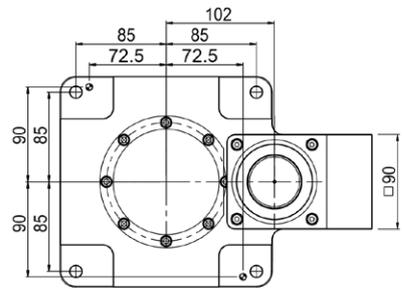
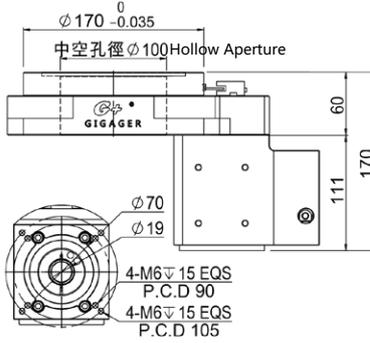
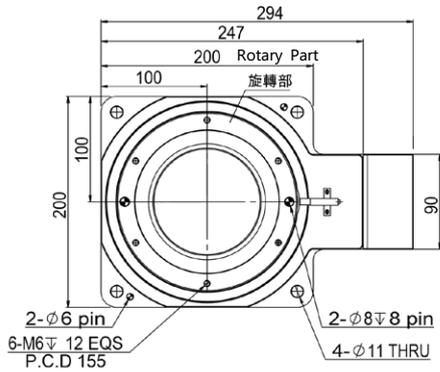
Series	Size	Type	Ratio	Motor	Output Direction
GSG	200	Z	20K	SV1	
	60 85 130 200	Z: Right Angle M: Planetary		SV1: Servo Ø19 PCD90,M5 SV2: Servo Ø19 PCD90,M6 Suit for 750W AC Servo Motor ST1: Stepper Ø14 PCD98.4,M5 ST2: Stepper Ø14 PCD98.4,M6 Suit for 86 Type Stepper Motor	R: Right L: Left None: Standard

Technical Parameters

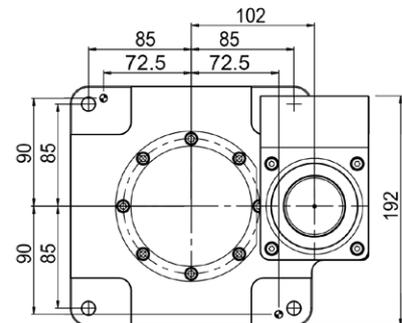
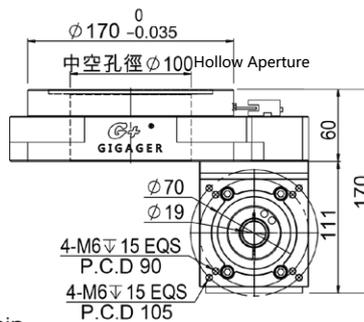
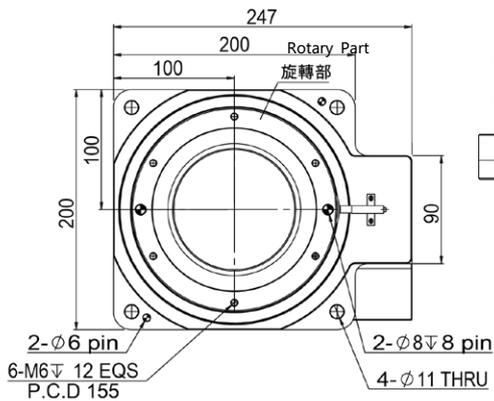
Parameters		Model	
		GSG200Z	GSG200M
Bearing of Rotary Table		Cross Roller Bearing	
Gear Ratio	i	20/30	30 50
Allowable Torque	N.m	250	
Allowable Table Speed	rpm	200	
Repeatability	arc-sec	≤ 10	≤ 15
Allowable Moment of Inertia	N.m	100	
Positioning Accuracy	arc-min	≤ 1	
Allowable Axial Load	N	4000	
Table Flatness	mm	≤ 0.01	
Table Concentricity	mm	≤ 0.01	
Ingress Protection	IP	40	
Weight	kg	11	

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■ GSG200Z-20K/30K

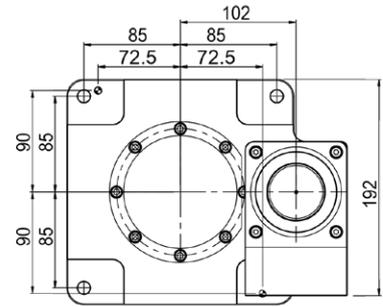
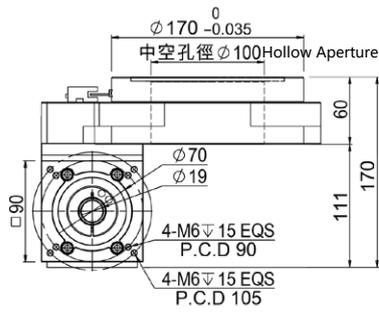
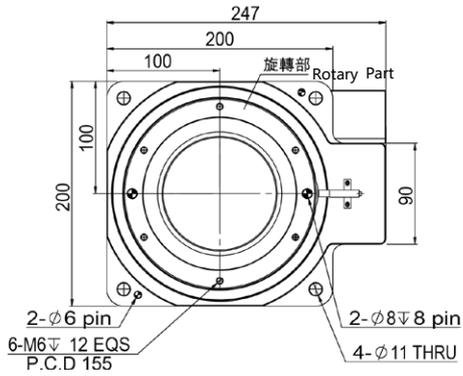


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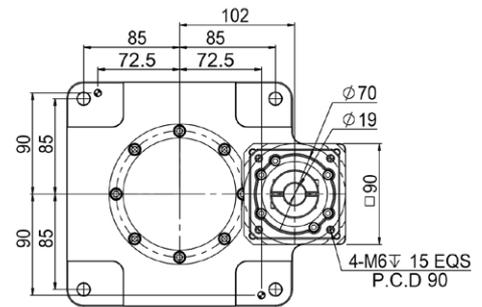
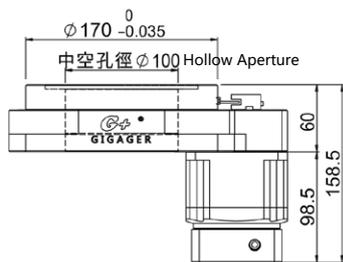
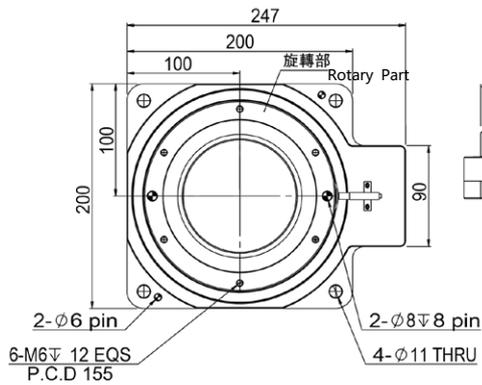


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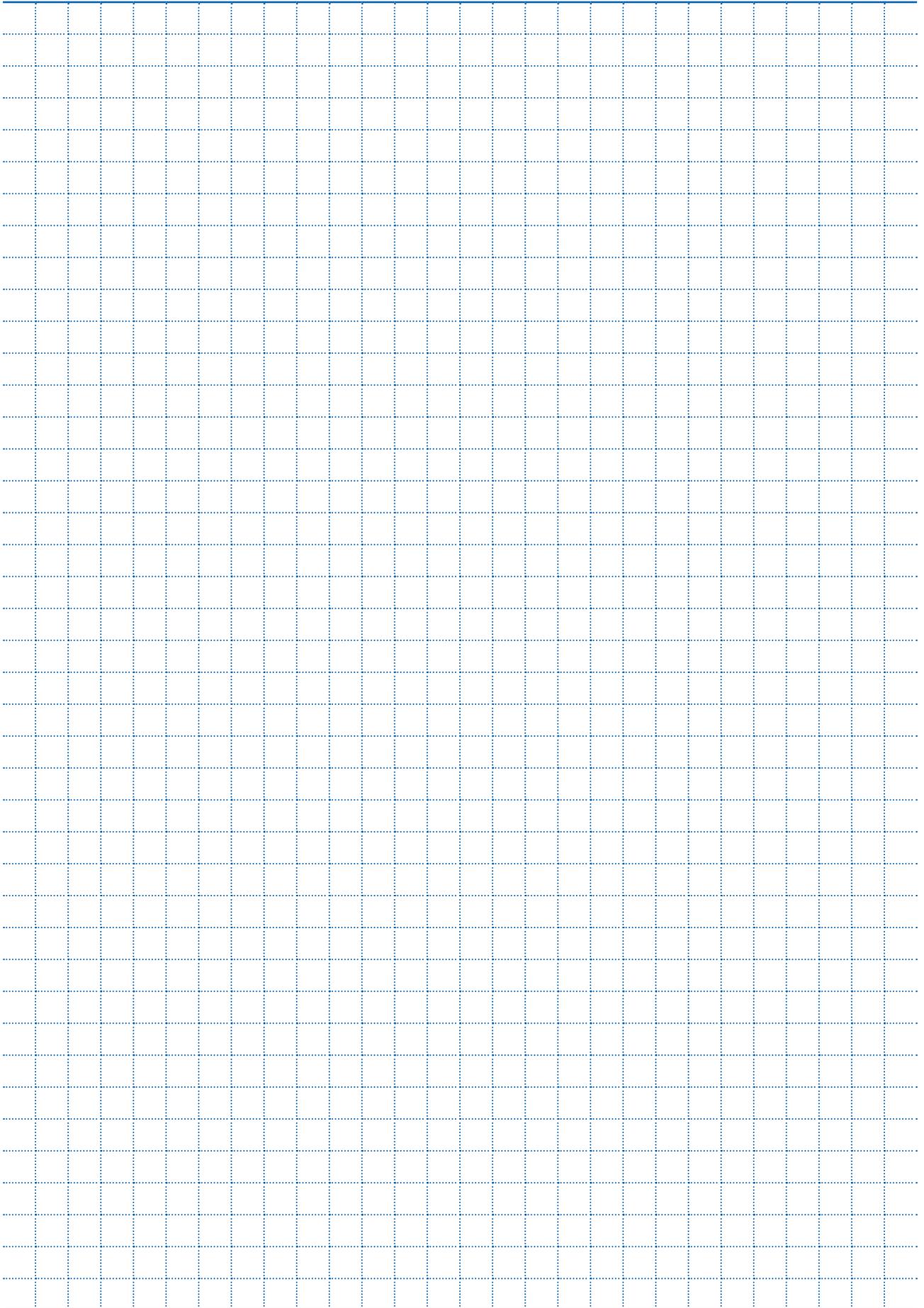
■ GSG200Z-20K/30K-R



■ GSG200M-30K/50K



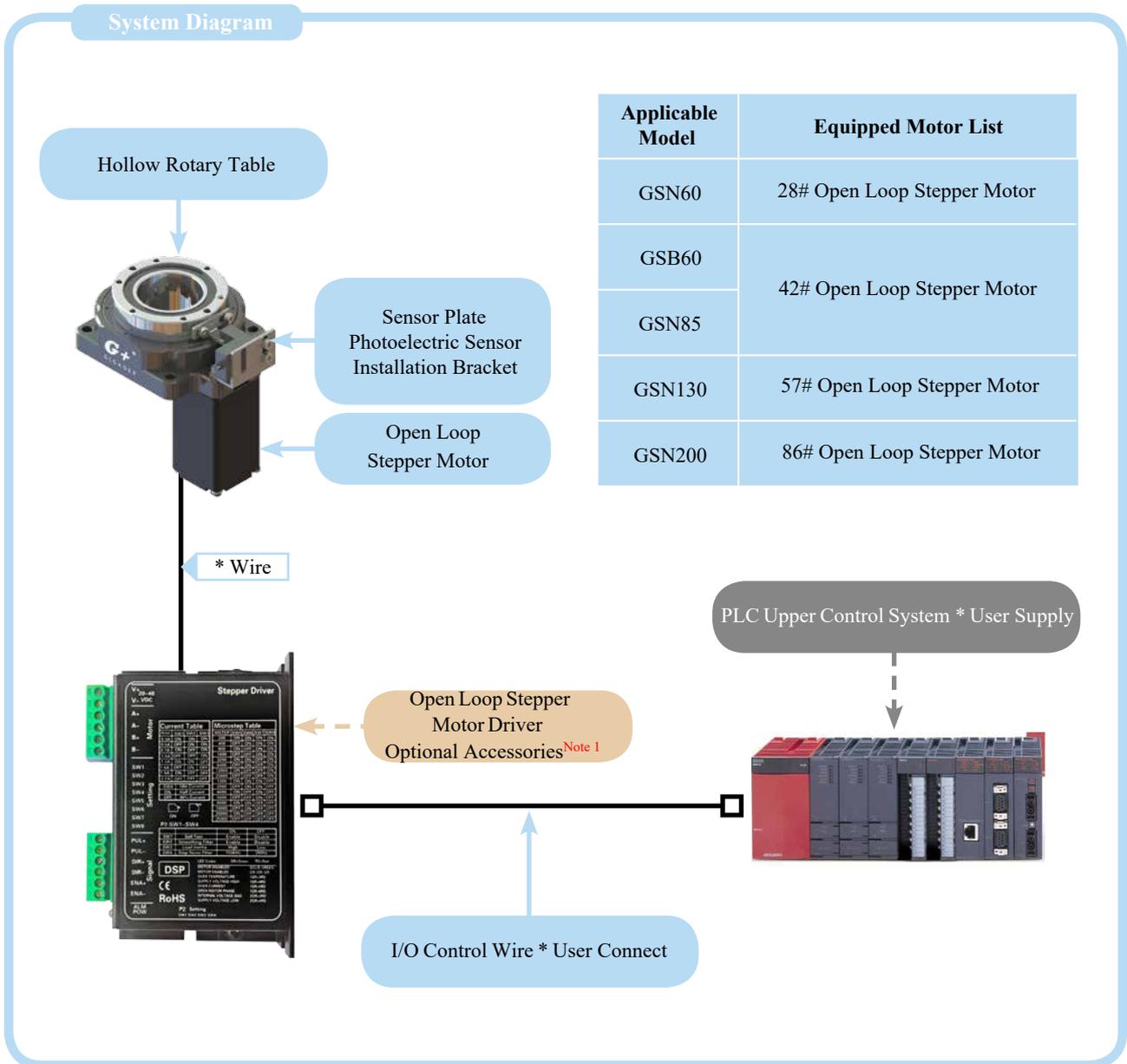
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System of Hollow Rotary Actuator • OS (Open Loop)

Standard Configuration	Optional Accessories
Rotary Table * 1 set	Open Loop Stepper Motor Driver * 1 set
Open Loop Stepper Motor * 1 set	
Sensor Plate * 1 pcs	
Photoelectric Home Sensor * 1 set	
Sensor Bracket * 1 set	

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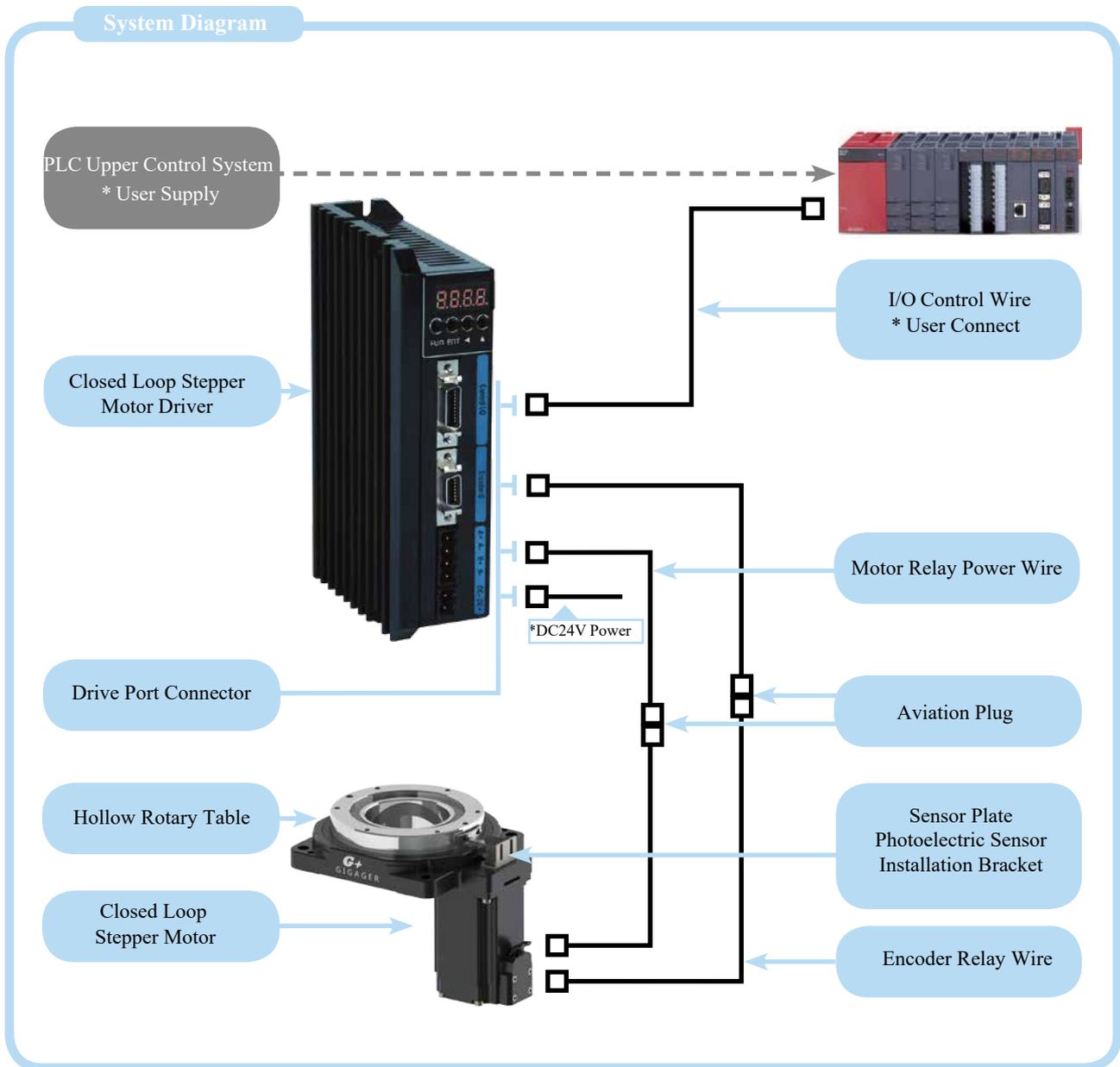
Note 1: Optional Accessories: The above Optional Accessories are for user's reference only, user can purchase as per the requirement

System of Hollow Rotary Actuator •CS (Closed Loop)

Standard Configuration

Rotary Table * 1 set	Encoder Relay Wire 1 pcs (3M)
Closed Loop Stepper Motor * 1 set	I/O Control Wire 1 pcs(1M)
Closed Loop Stepper Motor Driver * 1 set	Sensor Plate 1 pcs
Drive Port Connector * 4 pcs	Photoelectric Home Sensor 1 set
Motor Relay Power Wire 1 pcs (3M)	Sensor Installation Bracket 1 set

System Diagram

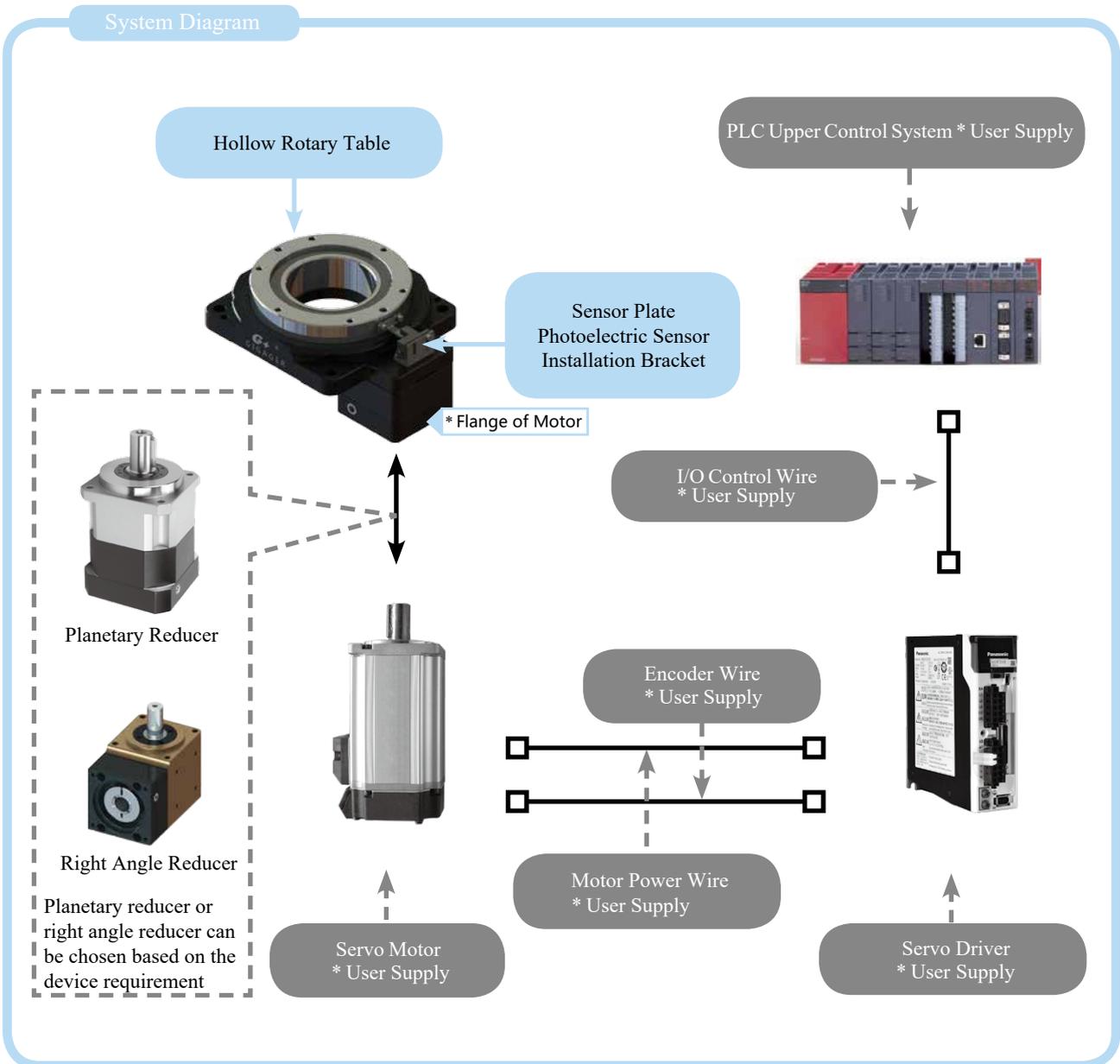


Note 1: Optional Accessories: The above Optional Accessories are for user's reference only, user can purchase as per the requirement

System of Hollow Rotary Table • SV (For Servo Motor)

Applicable Series: GSH,GSR,GSA,GSN,GSB,GSG

Standard Configuration	
Rotary Table * 1 set	Photoelectric Home Sensor 1 set
Sensor Plate 1 pcs	Sensor Installation Bracket 1 set

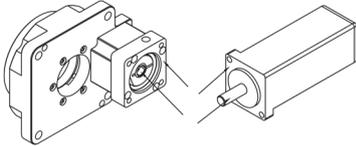
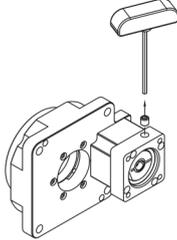
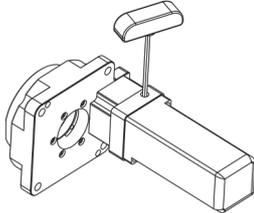
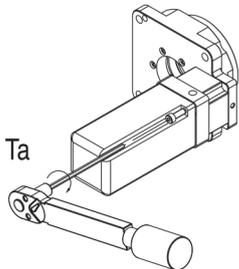
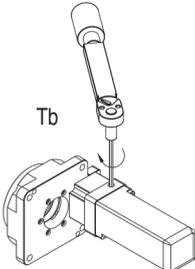
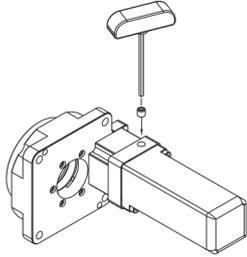


Note 1: Optional Accessories: The above Optional Accessories are for user's reference only, user can purchase as per the requirement

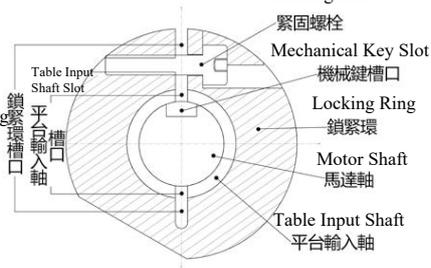
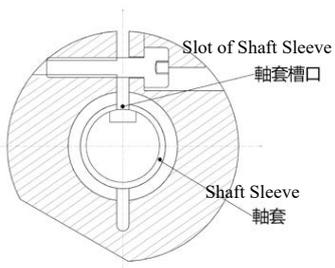
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- Parameter**
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- GMA
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Motor Installation Instruction • SV (Servo Type)

Motor Installation Instruction

		
<p>First match the size of the motor and the rotating platform and remove any foreign objects on the surface</p>	<p>Remove the screw plug on the adapter flange and adjust the position until the fastening bolt can be seen Note 1</p>	<p>Adjust the motor and adapter flange position and gently tighten the fastening bolts until the locking ring is no longer freewheeling</p>
		
<p>Diagonal preliminary fixing bolts, after the completion of step 5, refer to the tightening torque standard Ta Note 2 tighten the fastening bolts</p>	<p>Refer to the tightening torque standard Tb Note 2 tighten the fastening bolts</p>	<p>Tighten the screw plug</p>

Note 1: How to Install Motor?

 <p>Fastening Bolt 緊固螺栓 Mechanical Key Slot 機械鍵槽口 Locking Ring 鎖緊環 Motor Shaft 馬達軸 Table Input Shaft 平台輸入軸</p> <p>Table Input Shaft Slot 平台輸入槽口 Locking Ring Slot 鎖緊環槽口</p> <p>Installation method for motor with mechanical key</p>	<p>Pull out the mechanical key, adjust the position of the locking ring, align its notch with the notch of the input shaft of the rotating platform, and then apply grease to the platform input shaft hole and the motor shaft, insert the motor shaft and make the mechanical key slot and Align the locking ring notches to maximize the fastening bolts of the locking ring for a stronger connection</p>	 <p>Slot of Shaft Sleeve 軸套槽口 Shaft Sleeve 軸套</p> <p>Installation method with sleeve</p>	<p>Since the motor shaft diameter is too small to match the shaft input shaft hole of the platform, the sleeve can be added for adjustment. The installation method is the same as the motor mounting method with mechanical keys. It only needs to put the sleeve and open with the locking ring. Align the notches and tighten the fastening bolts of the locking ring</p>
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Note 2: Wrench Bolt Tightening Torque

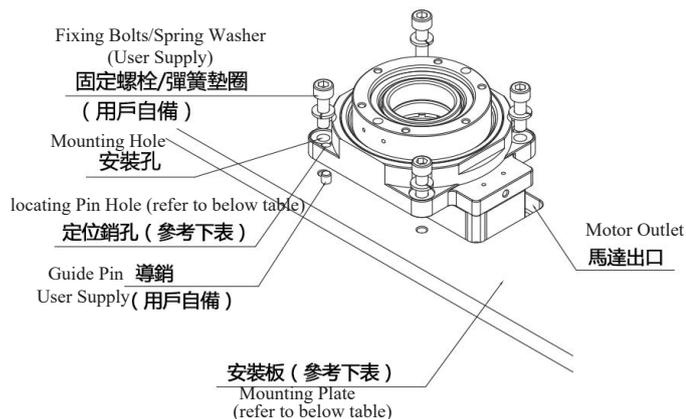
Wrench Bolt Size	Motor Installation Ta(8.8T)		Locking Ring Installation Tb(12.9T)	
	N.m	kgf.cm	N.m	kgf.cm
M3	1.28	13	2.15	22
M4	2.9	30	4.95	50
M5	5.75	59	9.7	99
M6	9.9	101	16.5	168
M8	24	245	40	408
M10	48	489	81	826
M12	83	846	140	1428
M14	132	1346	220	2243
M16	200	2039	340	3467

Installation Instruction of Hollow Rotary Tables

Applicable Series: GSN, GSB

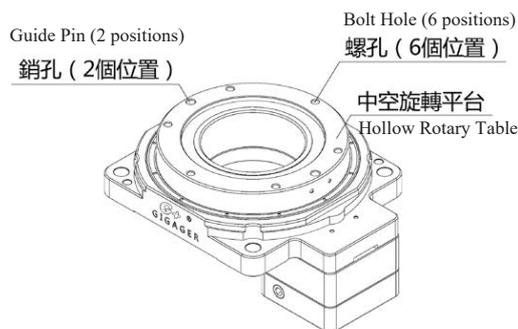
How to install a hollow rotary actuator?

Leave a motor outlet on the machine mounting plate to expose the motor
Use the two locating pin holes (the locating pin holes in GSB60 and GSN60 are common to the mounting holes) and mount the hollow rotating actuator to the machine mounting plate shown below. These mounting holes are used to accurately position the hollow rotating actuator on the machine, making sure to secure the locating pins to the mounting plate



How to install a load on a hollow rotary actuator?

Install the load using the 6 mounting holes on the hollow rotating actuator. There are 2 pin holes for mounting the load on the hollow rotating actuator, which can be used to determine the position of the load. Be sure to fix the positioning pin firmly on the load



Locating pin hole size

Vcdng" O qf gn	Diameter ϕ o +	Depth ϕ o +	S wcp\k{s}
I UP: 7	$\phi 5^{+0.012}_0$ (H7)	$17^{+0.05}_0$ TW+	4
I UP352		$36^{+0.05}_0$ TW+	4
I UP422	$\phi 8^{+0.02}_{-0.012}$ J 9+	$38^{+0.05}_0$ TW+	4
I UD322	$\phi 6^{+0.02}_{-0.012}$ J 9+	$35^{+0.05}_0$ TW+	4
I UD352	$\phi 8^{+0.02}_{-0.012}$ J 9+	$37^{+0.05}_0$ TW+	4
I UD422	$\phi 7^{+0.02}_{-0.012}$ J 9+	$45^{+0.05}_0$ TW+	4
I UP4: 2	$\phi 7^{+0.02}_{-0.012}$ J 9+	$47^{+0.05}_0$ TW+	4

Mounting plate thickness

Cewcvqt "O qf gn	Vj lenpguu
I UP 82	O qtg'yj cp'7o o
I UD82	
I UP: 7	O qtg'yj cp' o o
I UD322	
I UP 352	O qtg'yj cp'32o o
I UD352	
I UP 422	
I UD422	
I UP 4: 2	O qtg'yj cp37o o

Installation Precautions

Before installation, read the following installation precautions and install as follows.

- Indoor (area not directly in contact with sunlight)
- Area without heat radiation
- Working environment temperature: 0~+50°C
- Temperature below the origin sensor: 0~+40°C
- Working environment humidity: less than 85%
- There is no flammable or explosive acid gas
- Place to block dust, oil and splashes
- Place without direct shock or excessive impact

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

Calculation Reference

Applicable Series: GSH,GSR,GSA,GSN,GSB,GSG

Load Calculation / Loads Moment of Inertia (J_w)

The moment of inertia of the load shall be less than 30 times the moment of inertia of the transmission

Calculate the Acceleration Torque (T_a) Refer to below formula

$$\text{Acceleration Torque } T_a[\text{N} \cdot \text{m}] = (J_M + J_A + J_W) * \frac{\pi}{30} * \frac{(N_2 - N_1)}{t}$$

J_M : Motor Moment of Inertia [$\text{kg} \cdot \text{m}^2$]

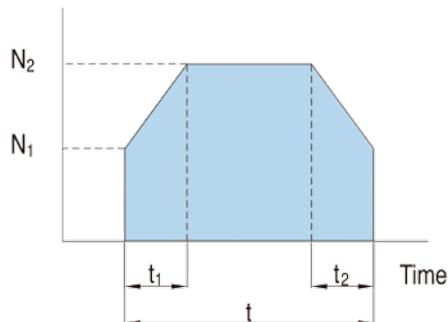
J_A : Mechanism Moment of Inertia [$\text{kg} \cdot \text{m}^2$]

J_W : Load Moment of Inertia [$\text{kg} \cdot \text{m}^2$]

N_2 : Working Speed [r/min]

N_1 : Starting Speed [r/min]

t_1 : Acceleration (Deceleration) Time [S]



Calculate the Required Torque

The required torque is calculated by multiplying the sum of the load torque caused by the frictional resistance and the acceleration torque caused by the moment of inertia by the safety factor

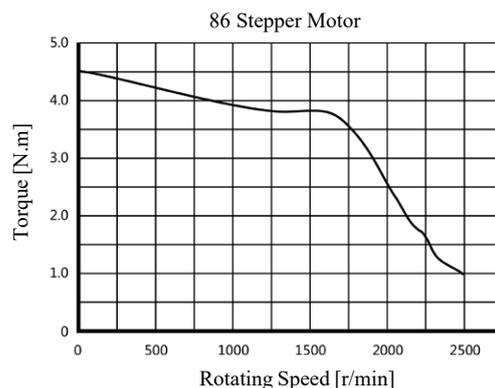
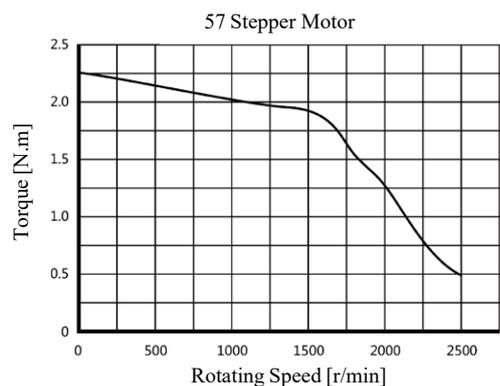
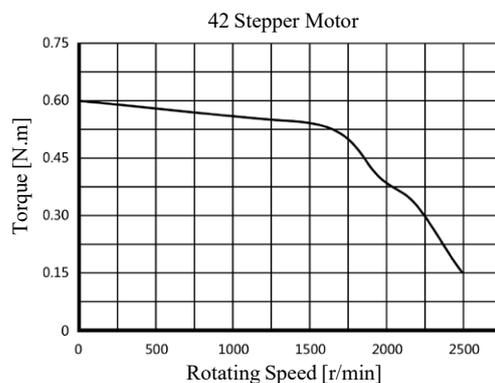
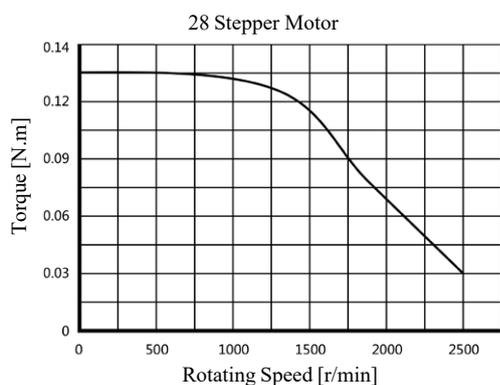
Required T =(Load torque [N.m]+ Acceleration torque [N.m]) *Safety factor

$$=(T_L + T_a) * S$$

Safety factor S more than 1.5.

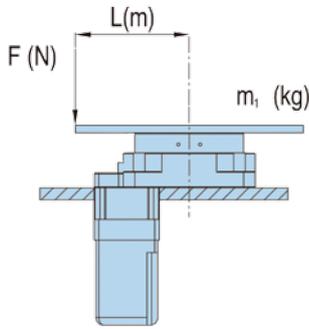
The torque required of the selected motor T must be within the scope of speed - torque

Stepping Motor Speed Torque Characteristic Curve



Axial Load, Calculation of Inertia Moment Load

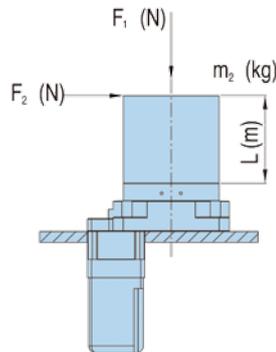
When applying the load on the hollow rotating actuator as shown below, be sure to calculate that the axial load and the moment of inertia load are within the specified range of calculation of the following formula



Axial Load [N] : $F_t = F + m_1 * g$

Inertia Moment Load [N.m] : $M = F * L$

g: Gravity Acceleration 9.807[m/s²]



Axial Load [N] : $F_t = F_1 + m_2 * g$

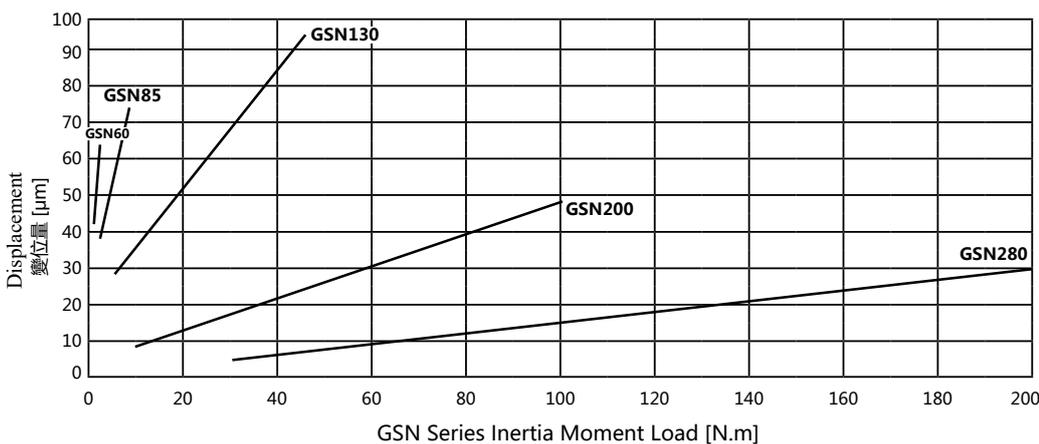
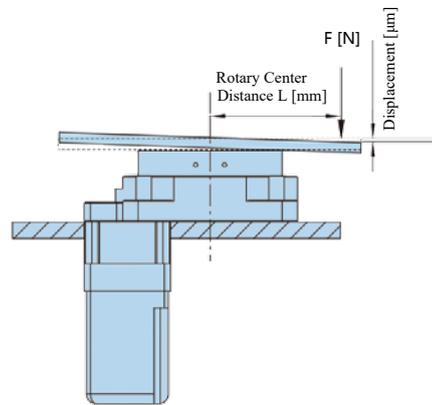
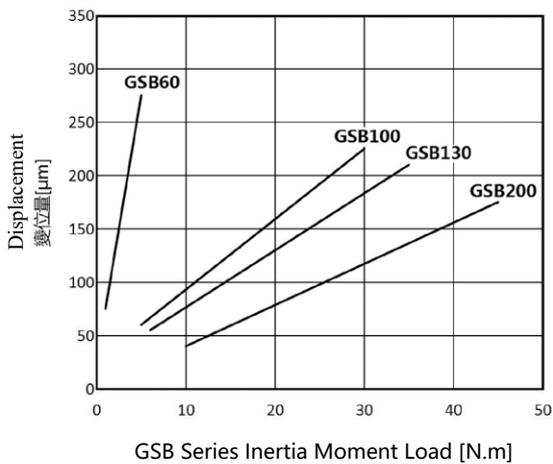
Inertia Moment Load [N.m] : $M = F_2 * (L + A)$

g: Gravity Acceleration 9.807[m/s²]

Model	A
GSN60	0.010
GSB60	0.010
GSN85	0.015
GSB100	0.015
GSN130	0.017
GSB130	0.017
GSN200	0.033
GSB200	0.033
GSN280	0.051

Actuator Rigid Reference

Different types of rotating actuators use different types of support bearings, which have a certain influence on the Permissible Moment of Inertia Load of the rotating platform, that is, the larger the model, the greater the permissible moment of inertia load. However, the amount of displacement for the moment of inertia load will be smaller. For details, refer to the following chart (L = 200mm)



Terminology

	Motor Type	Rotating actuator adaptable motor type
	Rotary Actuator Bearing	The type of bearing used for Rotary Actuator
	Permissible Torque ^{Note 1}	The mechanical strength thresholds of the speed reduction mechanism, including the acceleration torque and the load inertia must be used within this Permissible Torque range
XXY	Allowable Speed	The table surface speed allowed by the mechanical strength of the speed reduction mechanism
GXYR	Moment of Inertia	The sum of values of Moment of inertia of the motor rotor + the inertia of the deceleration mechanism on the rotating actuator
GX	Allowable Axial Load	Allowable value of axial load applied to the axis of the rotating platform
GZ	Allowable Moment of Inertia Load	The load is applied at a position deviating from the center of the rotating platform, so that the force of the tilting of the rotating platform will occur when the center of the eccentricity * the load is calculated as the allowable value of the inertia moment load
GTZ	Positioning Accuracy	The error between the theoretical rotation angle and the actual rotation angle ^{Note 2} when the rotary platform is positioned at any point within 360°
GXY	Repetitive Positioning Accuracy	Indicates the error value generated when the same position is repeatedly positioned from the same direction
GR	Table Flatness	Operating amplitude of the table surface
GYH	Platform Concentricity	Concentricity error value of inner and outer diameter of rotating platform without load
GSH	Allowable Input Speed	The allowable input speed of the mechanical strength of the reducer structure
GSR	Backlash	Refers to the gear clearance of the rotating platform after fixing the motor shaft
GSR	Destructive Torque	When the reducer is subjected to this torque, the structure will be destroyed
GSHR	Accuracy Lifespan	Designed life span that maintains accuracy under normal use of the reducer
GSA	Ingress Protection ^{Note 3}	For the protection structure of machines based on IEC529 and EN60034-5 (= IEC60034-5), it can be classified according to the degree of dustproof and waterproof

Note 1: Unit Exchange of Torque

Torque Unit	1 N.m	1 N.cm	1 kgf.m	1 kgf.cm	1 lbf.ft	1 lbf.in
1 N.m	1	10 ²	0.10197	10.197	0.7376	8.8509
1 N.cm	10 ⁻²	1	1.0197×10 ⁻³	0.10197	7.376×10 ⁻³	8.8509×10 ⁻²
1 kgf.m	9.8066	980.665	1	10 ²	7.233	86.79
1 kgf.cm	9.8066×10 ⁻²	9.8066	10 ⁻²	1	7.233×10 ⁻²	0.8680
1 lbf.ft	1.356	1.356×10 ²	0.1383	13.83	1	12
1 lbf.in	0.113	11.3	1.152×10 ⁻²	1.152	8.333×10 ⁻²	1

Note 2: Angle Units

Angle Units	Value	Symbol	Shorthand
Degree	1/360 Circle	°	Deg
Arc Minute	1/60 Degree	' (Prime Number)	Aremin,Amin,MOA
Arc-second	1/60 Arcmin	'' (Double Prime Number)	Arcsec
1/1000 Arc Second	1/1000 Arcsec		Mas

Note 3: IP Ingress Protection

IP No.	Dustproof (first number)	IP No.	Waterproof (second number)
IP 0 X	No special protection	IP X 0	No special protection
IP 1 X	Objects over 50 mm in diameter cannot enter	IP X 1	Drops falling vertically will not cause damage to the appliance
IP 2 X	Objects over 80 mm in length and over 12mm in diameter cannot enter	IP X 2	Prevents water droplets from immersing when tilted 15 degrees
IP 3 X	Objects with a diameter or thickness exceeding 2.5 mm and a diameter exceeding 2.5 mm cannot enter	IP X 3	In the range of 60° from the vertical direction, the sprayed water spray is not damaged.
IP 4 X	Objects with a thickness exceeding 1.0 mm and a diameter exceeding 1.0 mm cannot enter	IP X 4	Spilled by water in any direction without damage
IP 5 X	Prevent incoming dust from affecting equipment operation	IP X 5	Directly affected by water spray in any direction without damage
IP 6 X	Completely prevent dust from entering	IP X 6	Impact water in any direction directly subjected to strong currents does not enter the interior
		IP X 7	Underwater immersion can still be used normally under certain conditions
		IP X 8	Can be used underwater



Right Angle Gearbox/GSZ Series

Small Volume, Light Weight
High Precision, Low Backlash



Using bevel gear structure adjustable backlash,
unique right-angle design, effectively saving space

High torque, high precision, low backlash, small
volume, light weight, easy to install

Allowable Torque: 12Nm-95Nm

Size: 42/60/90

Model

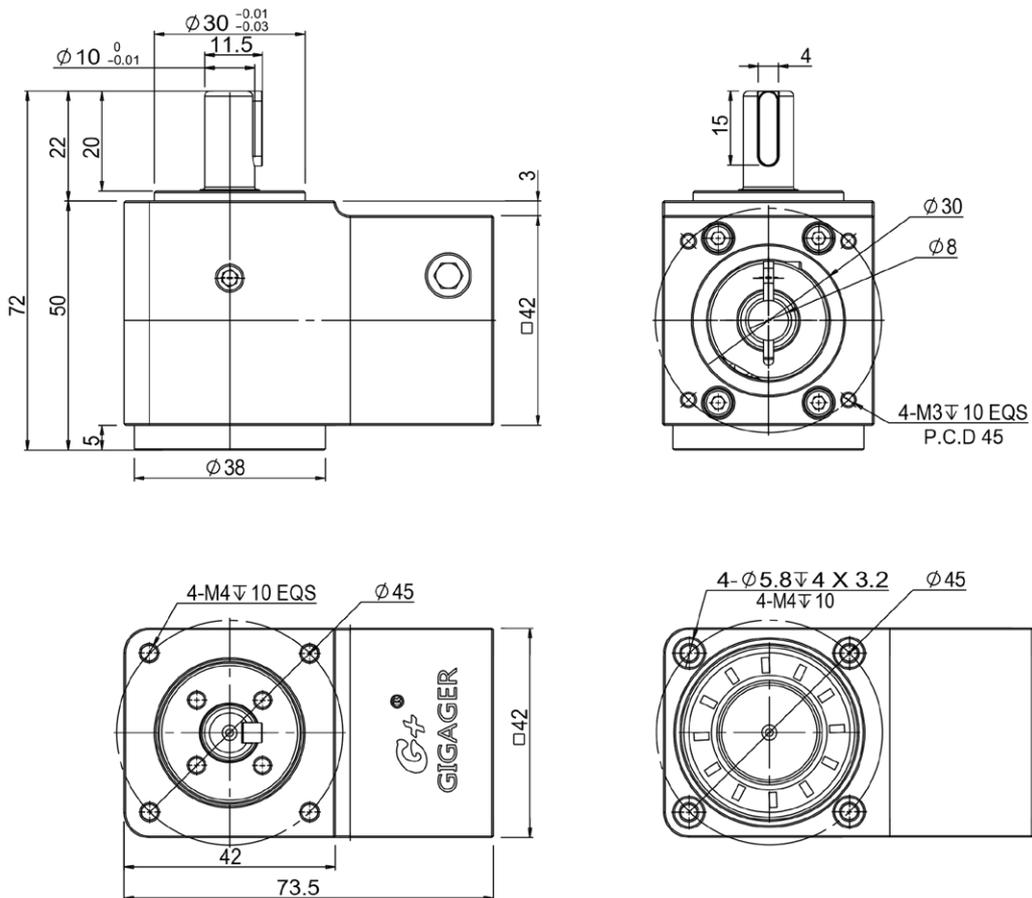
Series	Size	Gear Ratio		Motor
GSZ	42	03		SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4
	60	02	03	SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4
	90	02	03	SV1: Servo Ø19 PCD90,M5 SV2: Servo Ø19 PCD90,M6

Technical Parameters

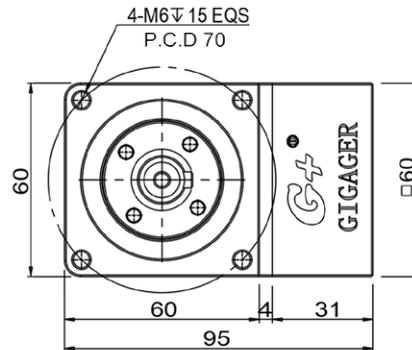
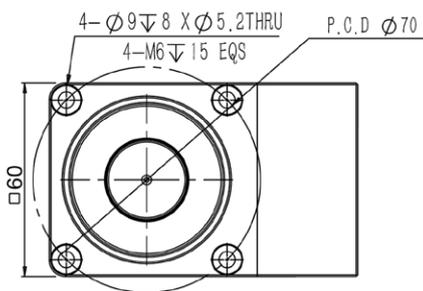
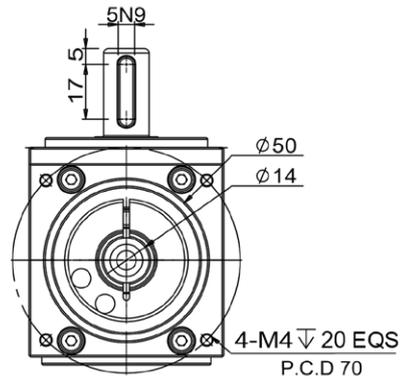
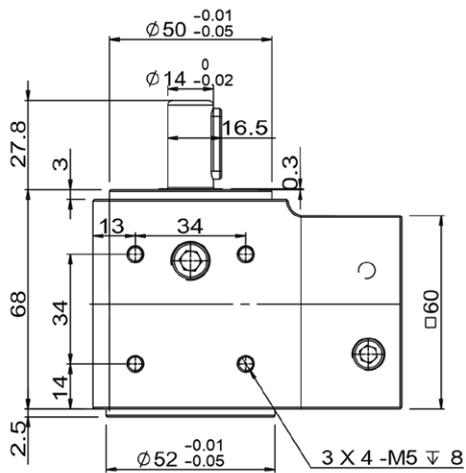
Parameters		Model		
		GSZ42	GSZ60	GSZ90
Allowable Torque	N.m	12	48	95
Max Input Speed	rpm	2500		
Gear Ratio	i	3	2/3	2/3
Backlash	arc-min	≤ 0.5		
Weight	kg	0.5	1.3	4.1

XXY
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GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

■ **GSZ42-03K-SV**



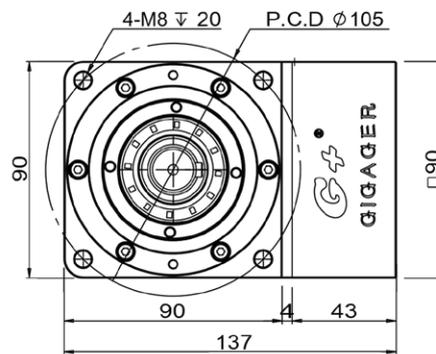
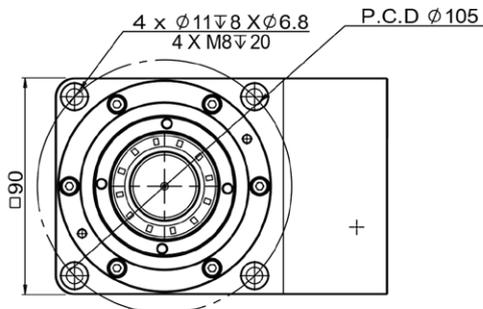
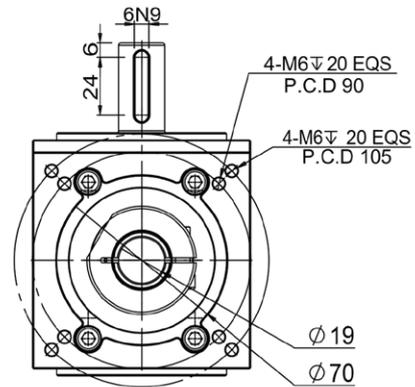
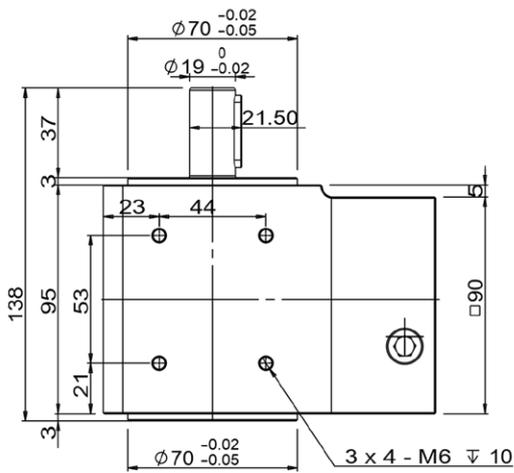
■ **GSZ60-02K-SV**
GSZ60-03K-SV



XXY
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Parameter
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GSZ90-02K-SV
GSZ90-03K-SV





Precision Mini Rotary Axis

Reliable, Smart, Modular Design, Easy Installation



GMR Series 4.5 Axis



GMC Series 5 Axis



GMA Series



GML Series

Smart

Modular design, small volume
easy to install

Reliable

Closed loop motor control
Support Ethercat/CANopen

Customized

Customized service available

Applicable Industries:

Laser engraving equipment (multi-faceted processing)
Gluing equipment (multi-side coating)
Testing equipment (3D detection)
Light small gantry processing equipment automation
equipment (multi-face processing)

GMR60

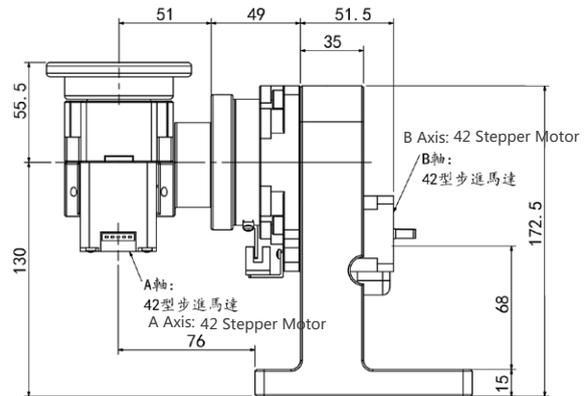
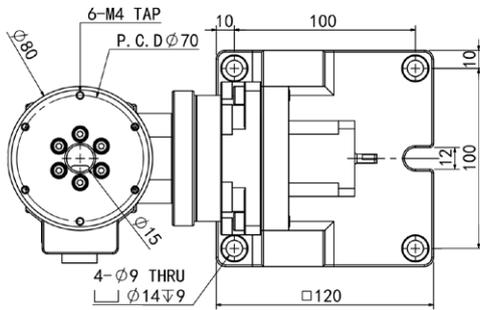


Series	Size	Rotary Radius	A Axis Motor Flange	B Axis Motor Flange	Accessories
GMR	60	100	SV1	SV1	
XXY		100	SV1: Servo Ø8 PCD45, M3 SV2: Servo Ø8 PCD46, M4 Suit for 100 AC Servo Motor	SV1: Servo Ø14 PCD70, M4 SV2: Servo Ø14 PCD70, M5 SV3: Servo Ø11 PCD70, M4 Suit for 200~400W AC Servo Motor	L: Lengthen Metal Sheet None: Standard
GXYR		140	ST1: Stepper Ø5 PCD43.8,M3 ST2: Stepper Ø6 PCD43.8,M3 Suit for 42 Stepper Motor	ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor	
GX		190	S: Stepper Motor	S: Dedicated Stepper Motor	

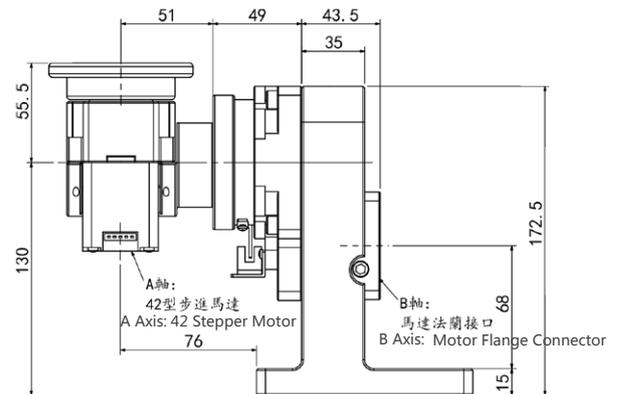
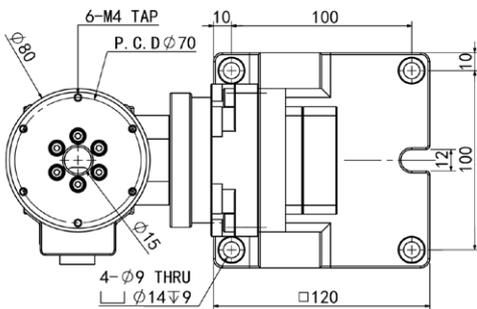
Technical Parameters

Parameters		GMR60-100	GMR60-140	GMR60-190
Allowable Torque	N.m	5.3		
Allowable Load	kg	3		
Rotation Angle	A Axis	360°		
	B Axis	±180°		
Rotation Accuracy	A Axis	≤ 30"		
	B Axis	≤ 30"		
Repeatability	A Axis	≤ 10"		
	B Axis	≤ 10"		
Max Rotation Radius	mm	90	130	180
2D Concentricity	mm	±0.02		
2D Flatness	mm	±0.02		
Rotation Amplitude of Table Surface	mm	±0.005		
Gear Ratio	i	A(1:5) B(1:10) S(1:18)		
Allowable Rotation Speed	° /sec	1080		
Ingress Protection		IP60		
Motor	A Axis	42 Stepper Motor/100W Servo Motor		
	B Axis	57/60 Stepper Motor/200W~400W Servo Motor		

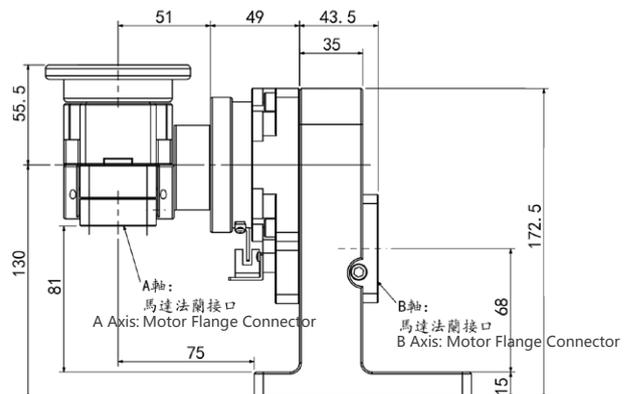
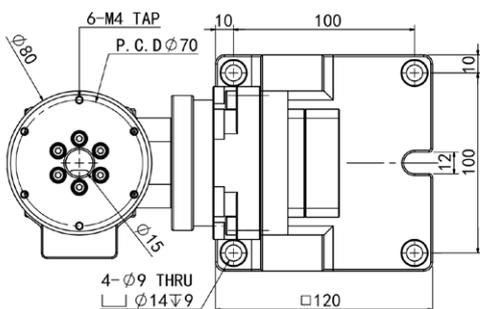
■ GMR60-100-S-S



■ GMR60-100-S-SV1

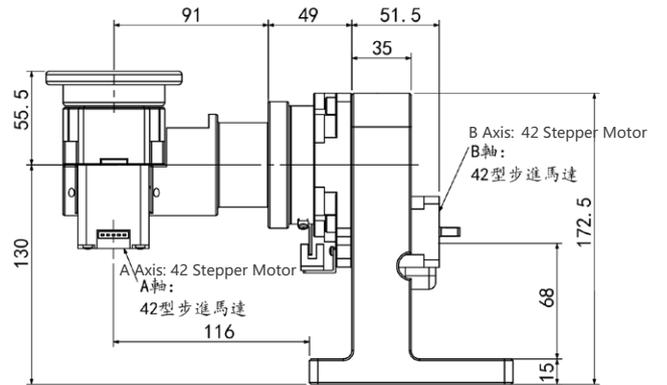
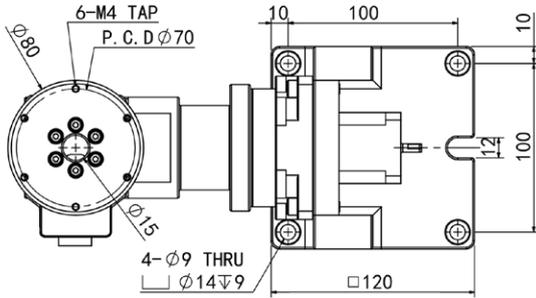


■ GMR60-100-SV1-SV1

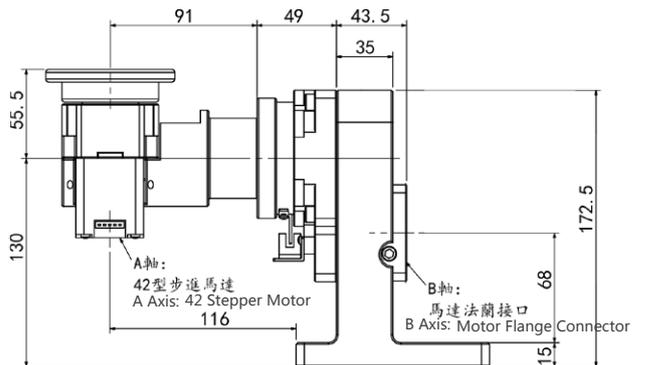
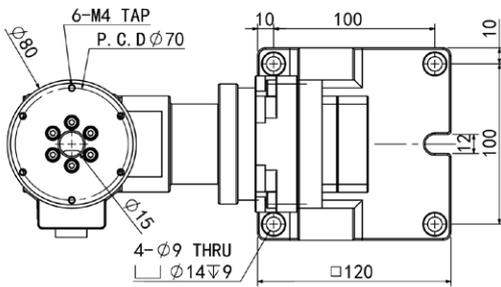


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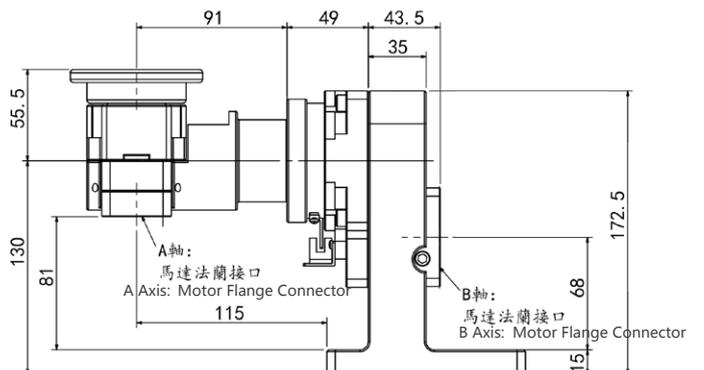
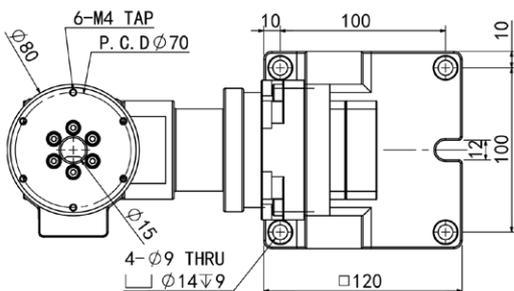
■ GMR60-140-S-S



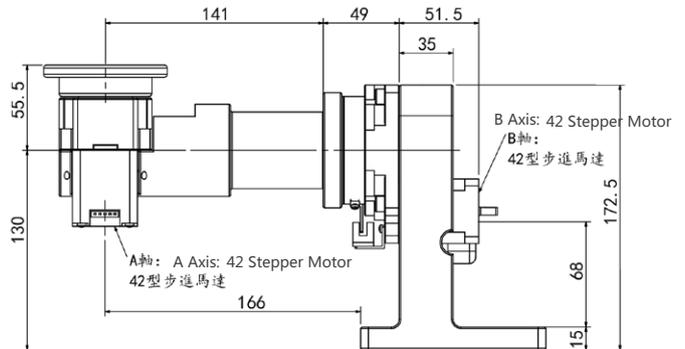
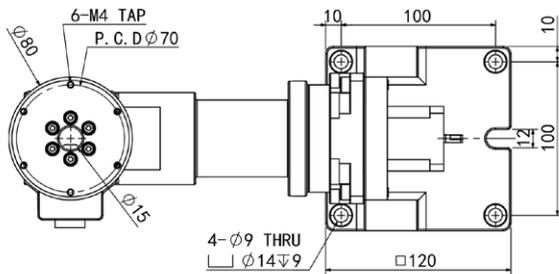
■ GMR60-140-S-SV1



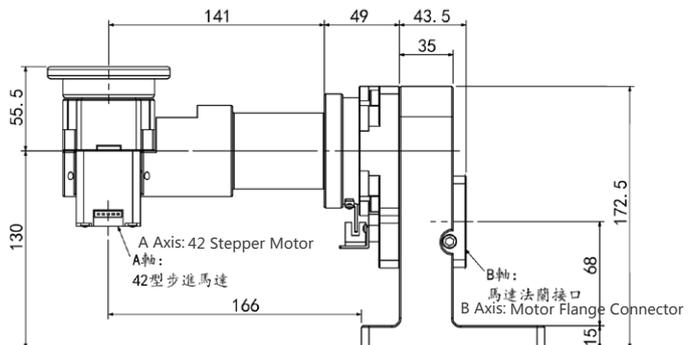
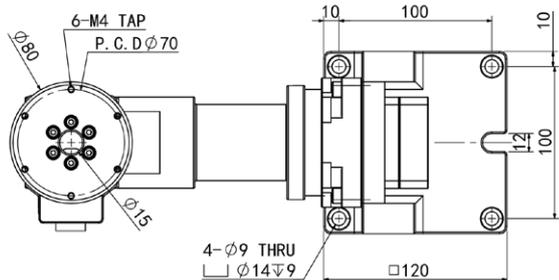
■ GMR60-140-SV1-SV1



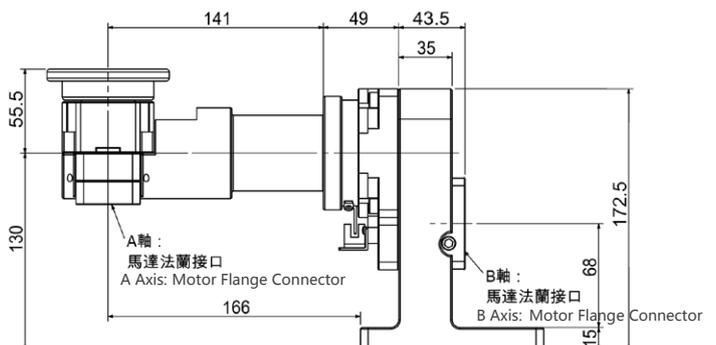
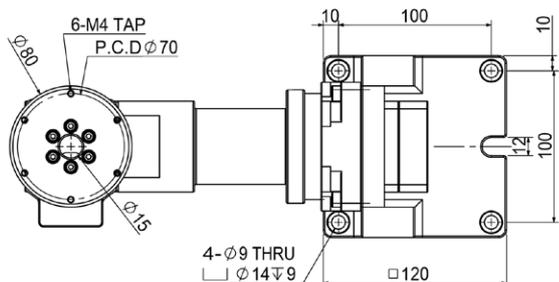
■ GMR60-190-S-S



■ GMR60-190-S-SV1



■ GMR60-190-SV1-SV1



XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
GSN
GSB
GSG
Parameter
GSZ
GMR
GMC
GMA
GML

GMC60



Series	Size	Plate Length	A Axis Motor Flange	B Axis Motor Flange	Accessories
GMC	60	150	S	SV1	
	60 85	150 200	S: Dedicated Open Loop Stepper Motor	SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 Suit for 100W AC Servo Motor ST1: Stepper Ø5 PCD43.8,M3 ST2: Stepper Ø6 PCD43.8,M3 Suit for 42 Stepper Motor S: Dedicated Stepper Motor	A: Pneumatic Connector None: Standard

Technical Parameters

Parameters		GMC60-150	GMC60-200
Allowable Torque	N.m	5.3	
Allowable Load	kg	5	
Rotation Angle	A Axis	360°	
	B Axis	±95°	
Rotation Accuracy	A Axis	≤ 30"	
	B Axis	≤ 30"	
Repeatability	A Axis	≤ 10"	
	B Axis	≤ 10"	
Max Rotation Radius	mm	150	200
2D Concentricity	mm	±0.02	
2D Flatness	mm	±0.02	
Rotation Amplitude of Table Surface	mm	±0.005	
Gear Ratio	i	A(1:5) B(1:20)	
Allowable Rotation Speed	° /sec	720	
Ingress Protection		IP60	
Motor	A Axis	42 Stepper Motor	
	B Axis	42 Stepper Motor	

GMC85

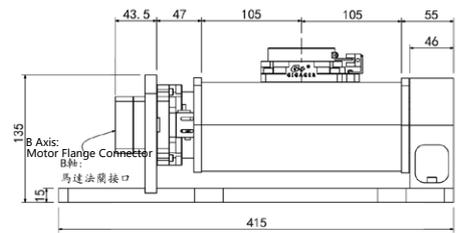
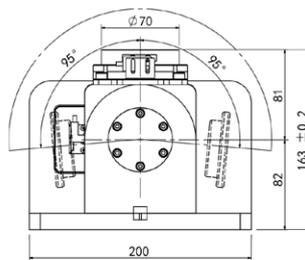
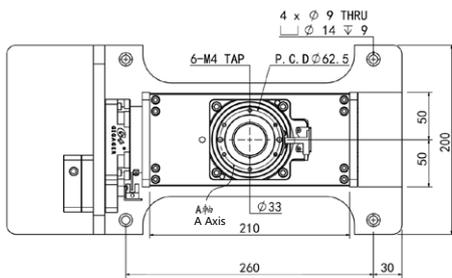


Series	Size	Plate Length	A Axis Motor Flange	B Axis Motor Flange	Accessories
GMC	85	210	S	SV1	
	60	210	S: Standard Open Loop Stepper Motor	SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit For 200~400W AC Servo Motor	A: Pneumatic Connector None: Standard
	85	310			
				ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor	
				S: Dedicated Stepper Motor	

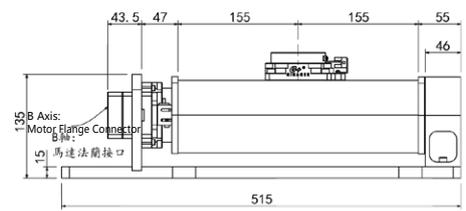
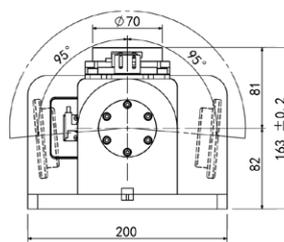
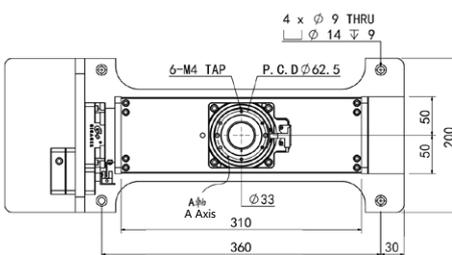
Technical Parameters

Parameters		GMC85-210	GMC85-310
Allowable Torque	N.m	16	
Allowable Load	kg	20	
Rotation Angle	A Axis	360°	
	B Axis	±95°	
Rotation Accuracy	A Axis	≤ 30"	
	B Axis	≤ 30"	
Repeatability	A Axis	≤ 10"	
	B Axis	≤ 10"	
Max Rotation Radius	mm	210	310
2D Concentricity	mm	±0.02	
2D Flatness	mm	±0.02	
Rotation Amplitude of Table Surface		±0.005	
Gear Ratio	i	A (1:18) B (1:10)	
Allowable Rotation Speed	° /sec	540	
Ingress Protection		IP60	
Motor	A Axis	57/60 Stepper Motor/200W Servo Motor	
	B Axis	57/60 Stepper Motor/200W Servo Motor	

■ GMC85-210-S-SV1



■ GMC85-310-S-SV1



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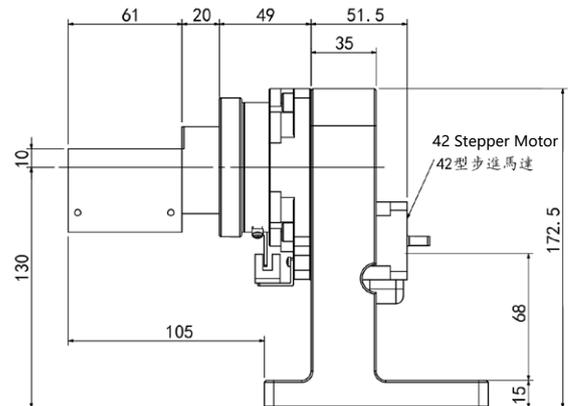
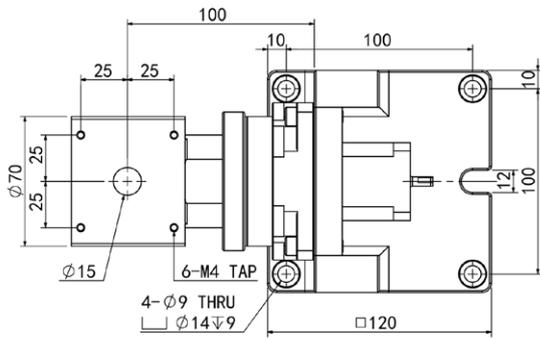


Series	Size	Rotary Radius	Motor Flange	Accessories
GMA	85	100	SV1	
		100 140 190	SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400 AC Servo Motor	L: Lengthen Metal Sheet None: Standard
			ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor	
			S: Dedicated Stepper Motor	

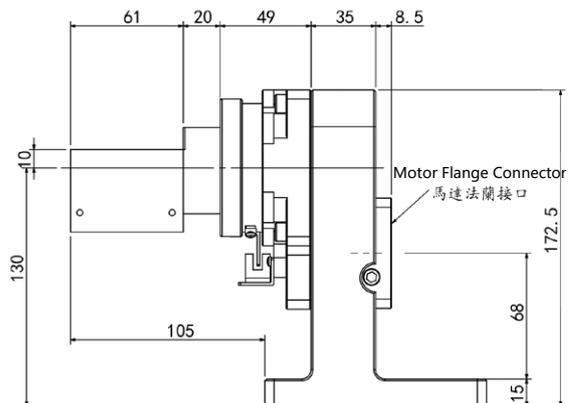
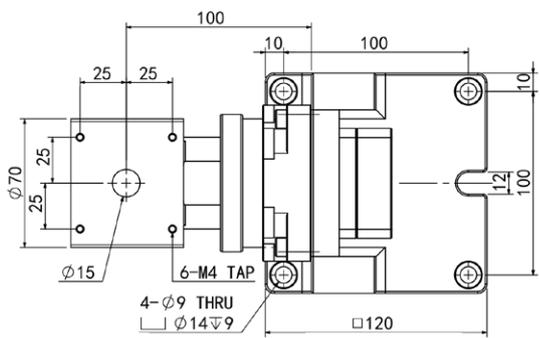
Technical Parameters

Model / Spec		GMA85-100	GMA85-140	GMA85-190
Allowable Torque	N.m	16		
Allowable Load	kg	10	8	6
Rotation Angle	°	±180		
Rotation Accuracy		≤ 30"		
Repeatability		≤ 10"		
Max Rotation Radius	mm	90	130	180
Rotary Concentricity	mm	±0.01		
Flatness	mm	±0.01		
Gear Ratio	i	10		
Allowable Rotation Speed	° /sec	1080		
Ingress Protection		IP60		
Motor		57/60 Stepper Motor/200W~400W Servo Motor		

■ GMA85-100-S

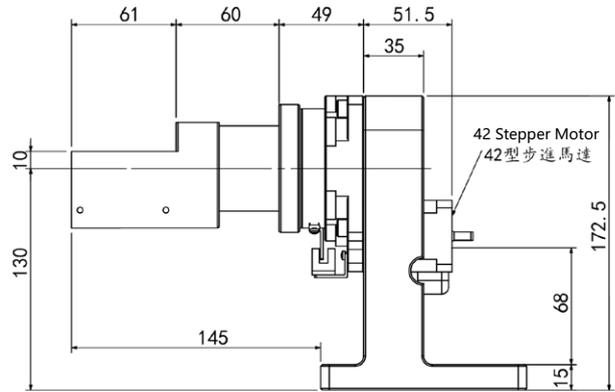
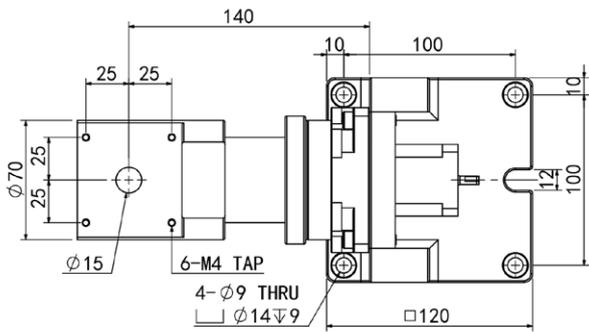


■ GMA85-100-SV1

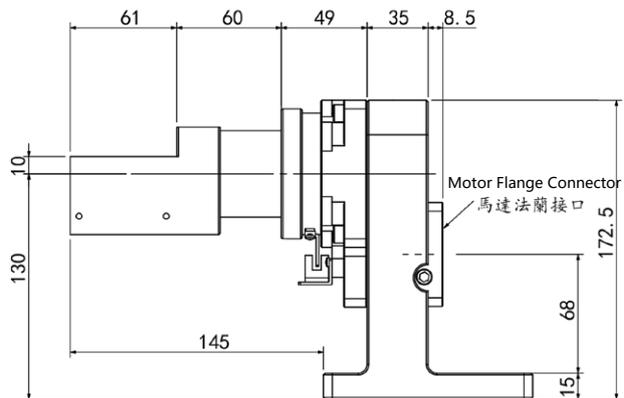
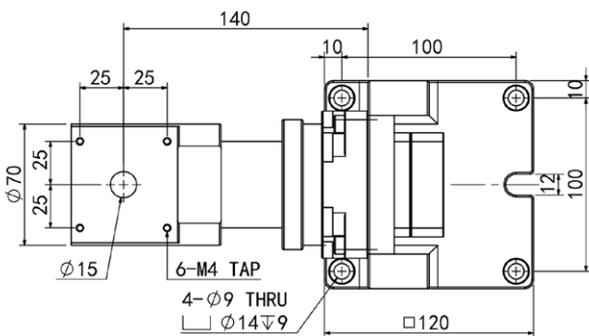


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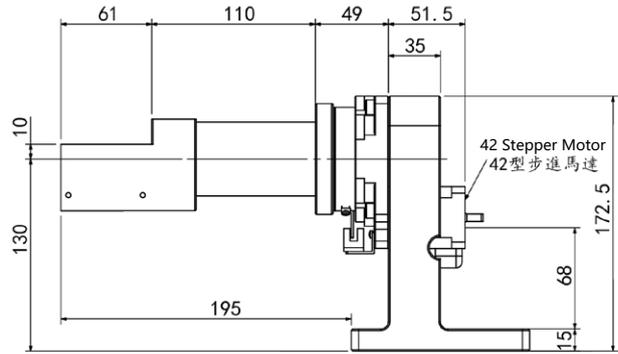
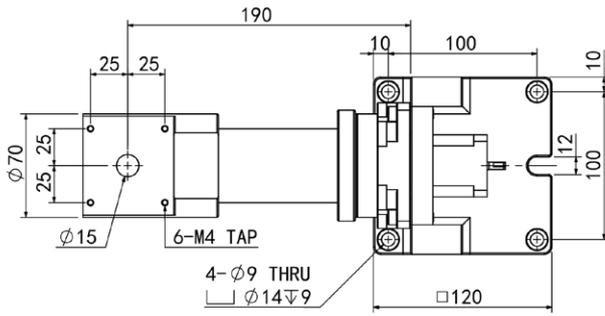
■ GMA85-140-S



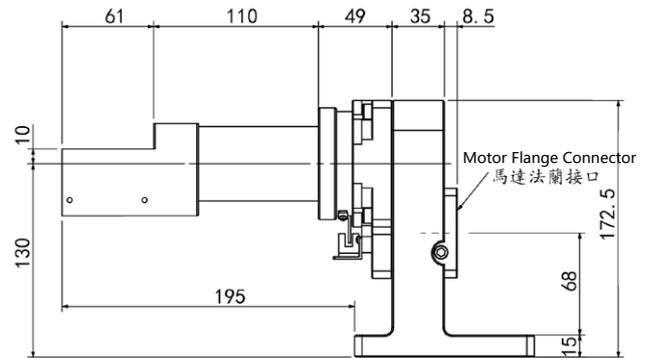
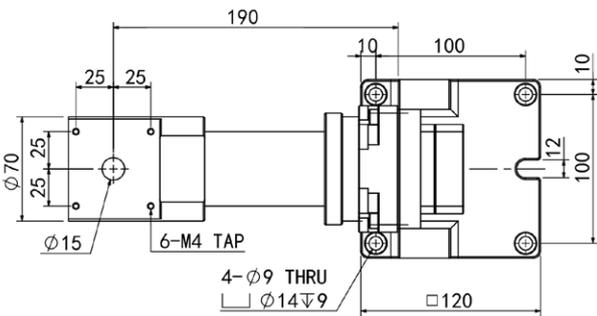
■ GMA85-140-SV1



■ GMA85-190-S



■ GMA85-190-SV1



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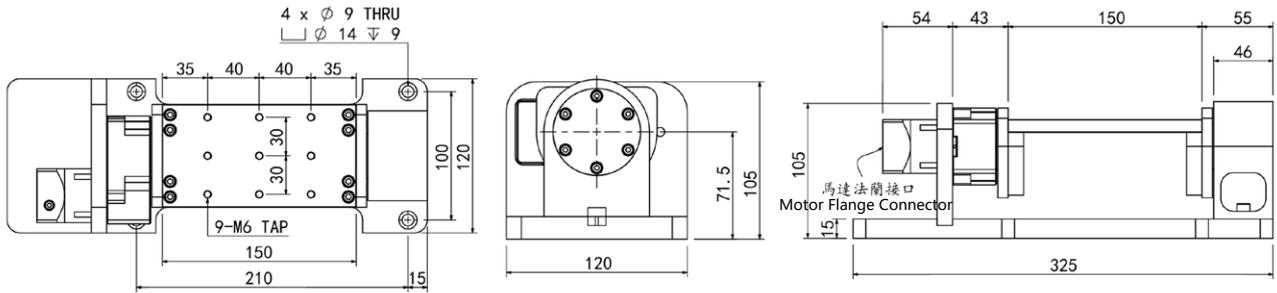


Series	Size	Plate Length	Motor Flange	Accessories
GML	60	150	SV1	
	60 85	150 200	SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 Suit for 100W AC Servo Motor	A: Pneumatic Connector None: Standard
			ST1: Stepper Ø5 PCD43.8,M3 ST2: Stepper Ø6 PCD43.8,M3 Suit for 42 Stepper Motor	
			S: Dedicated Stepper Motor	

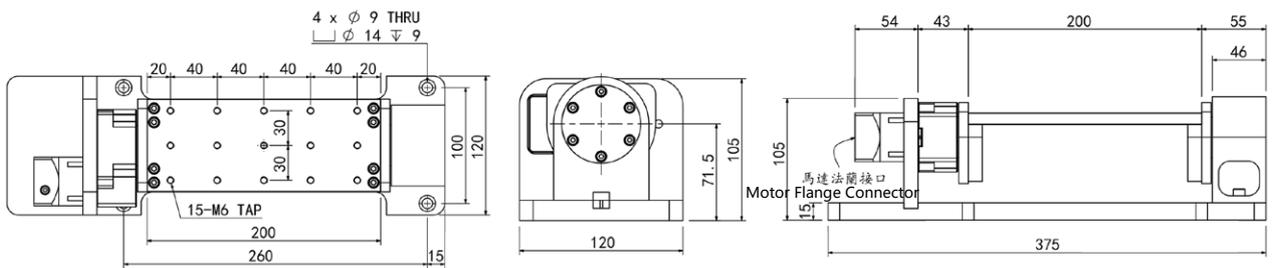
Technical Parameters

Model/Spec		GML60-150	GML60-200
Allowable Torque	N.m	5.3	
Allowable Load	kg	5	
Rotation Angle	°	±95	
Rotation Accuracy		≤ 30"	
Repeatability		≤ 10"	
Max Rotary Radius	mm	150	200
Rotated Concentricity	mm	±0.01	
Flatness	mm	±0.01	
Gear Ratio	i	20	
Allowable Rotation Speed	°/sec	720	
Ingress Protection		IP60	
Motor		42 Stepper Motor/50W~100W Servo Motor	

■ GML60-150-SV1



■ GML60-200-SV1



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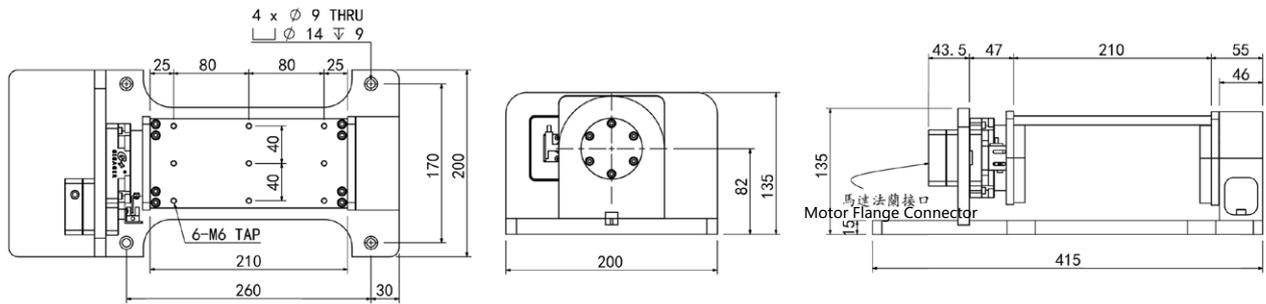


Series	Size	Plate Length	A Axis Motor Flange	Accessories
GML	85	150	SV1	
	60	210	SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400 AC Servo Motor	A: Pneumatic Connector None: Standard
	85	310	ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4 ST3: Stepper Ø8 PCD70.7,M4 ST4: Stepper Ø8 PCD66.67,M4 Suit for 57/60 Stepper Motor	
			S: Dedicated Stepper Motor	

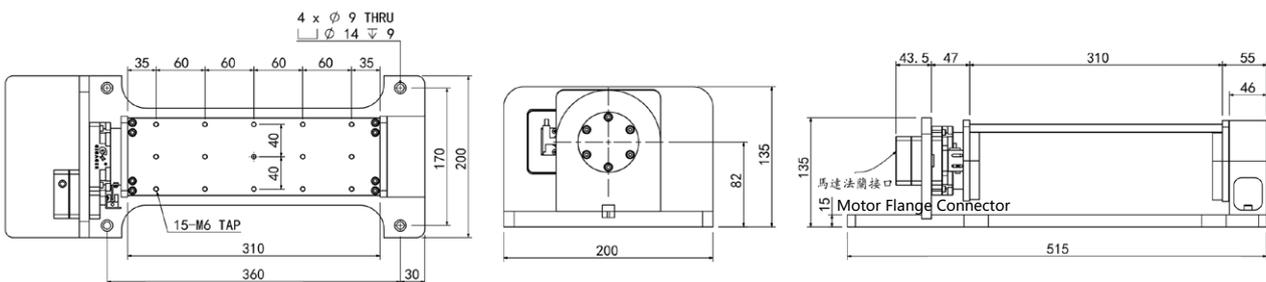
Technical Parameters

Model / Spec		GML85-210	GML85-310
Allowable Torque	N.m	16	
Allowable Load	kg	20	
Rotation Angle	°	±95	
Rotation Accuracy		≤ 30"	
Repeatability		≤ 10"	
Max Rotary Radius	mm	210	310
Rotary Concentricity	mm	±0.01	
Flatness	mm	±0.01	
Gear Ratio	i	10	
Allowable Rotation Speed	°/sec	540	
Ingress Protection		IP60	
Motor		57~60 Stepper Motor/200W~400W Servo Motor	

■ GML85-210-SV1



■ GML85-310-SV1



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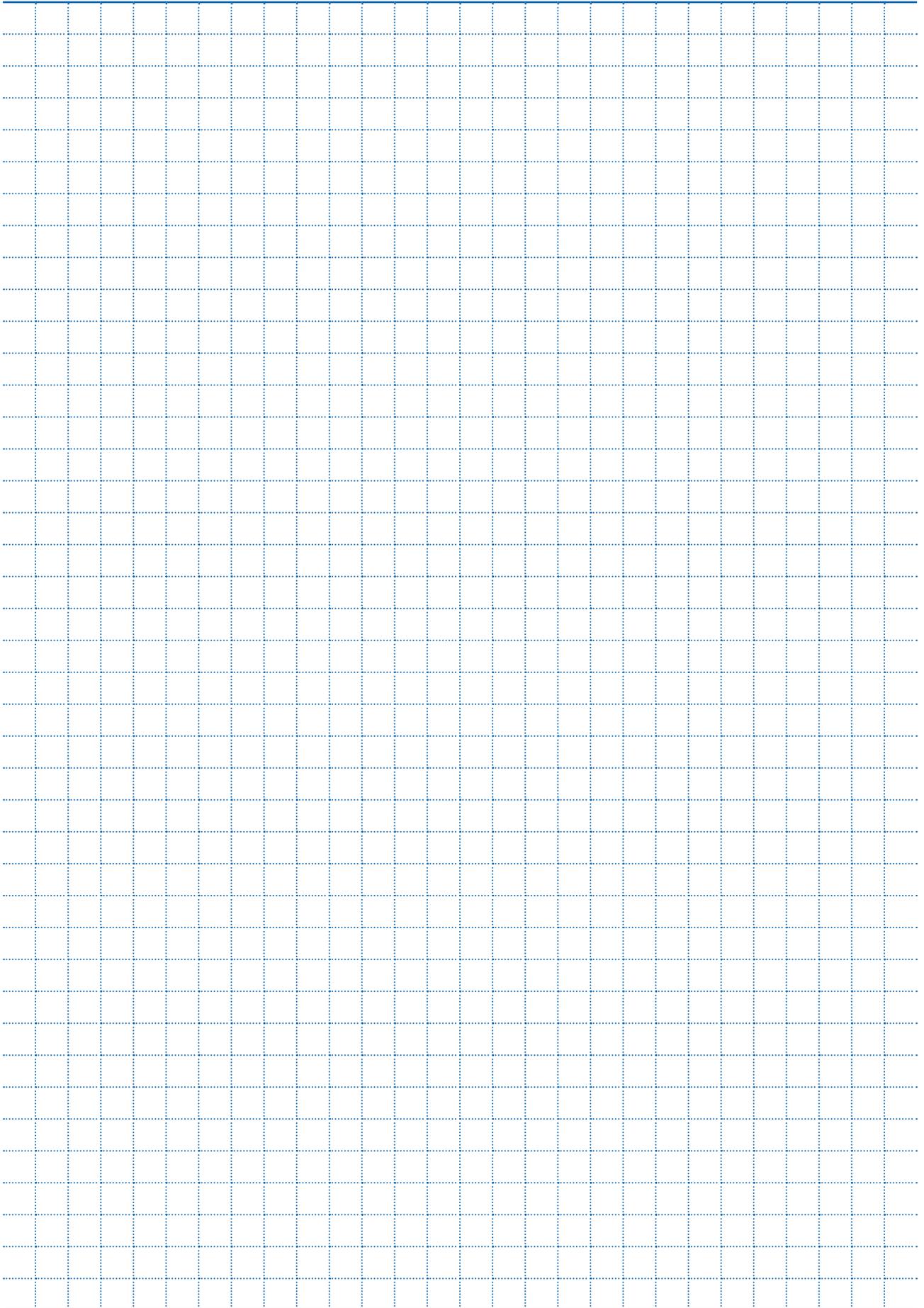
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