

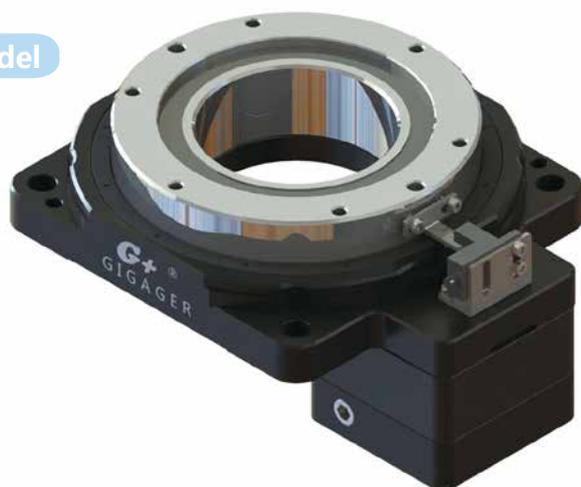


# Hollow Rotary Tables/GSN Series

Multiple Combinations Available  
For High Precision Repeat Positioning Application

XXY
GXYR
GX
GZ
GTZ
GXY
GR
GYH
GSH
GSR
GSHR
GSA
<b>GSN</b>
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
<b>GSN</b>	<b>60</b>		<b>05K</b>	<b>SV1</b>
	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

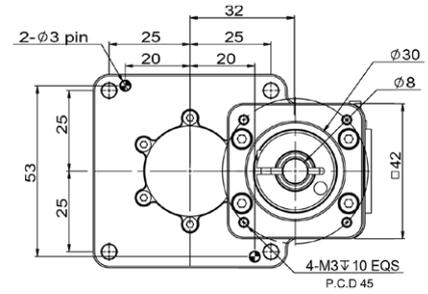
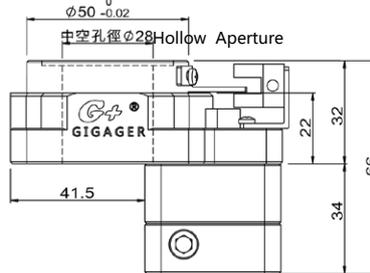
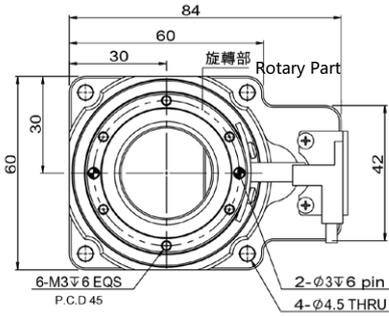
## Technical Parameters

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	

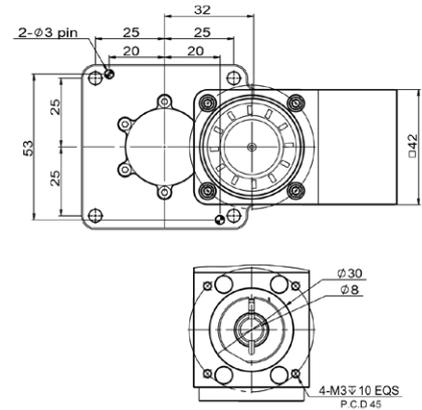
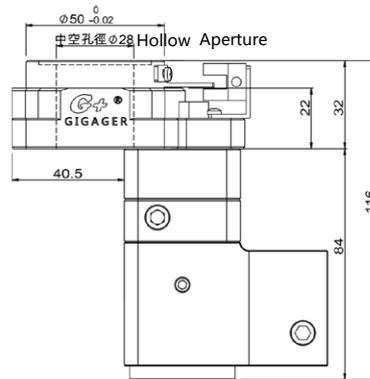
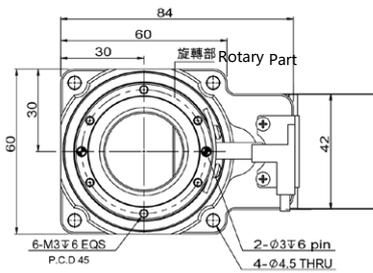
## Motor/Drive Parameters

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 <sup>2</sup>	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

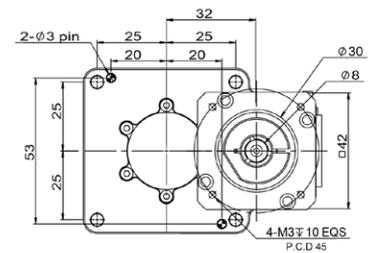
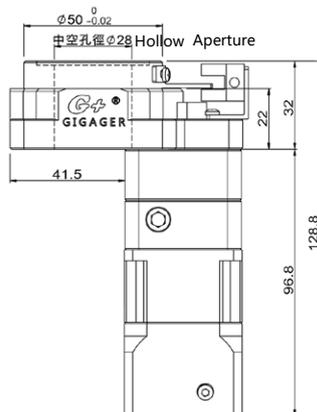
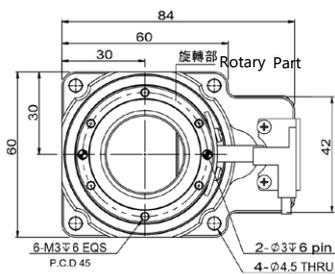
**■ GSN60-05K**



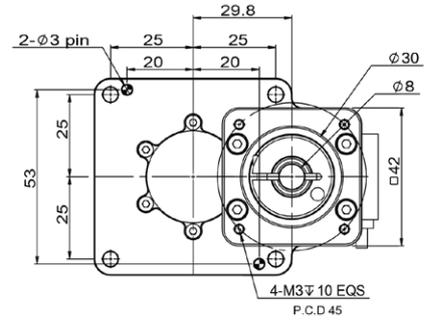
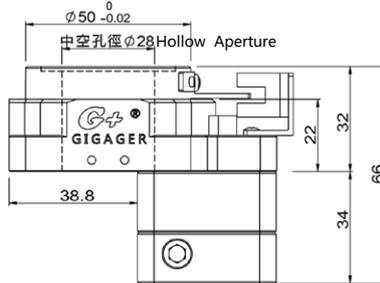
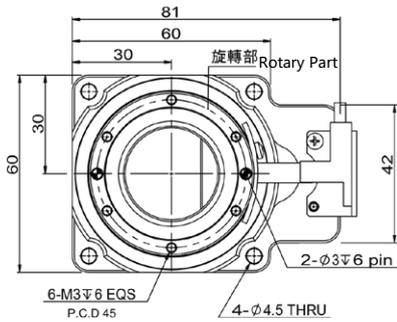
**■ GSN60Z**



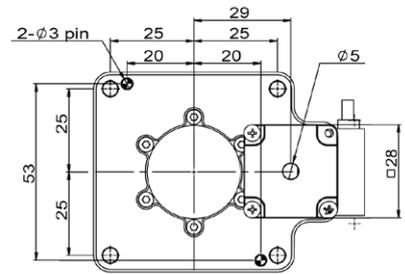
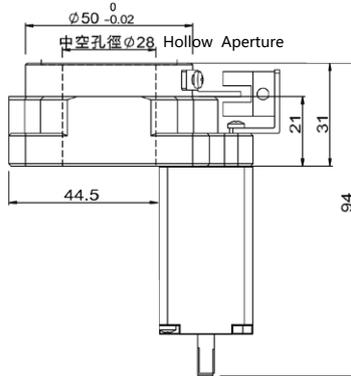
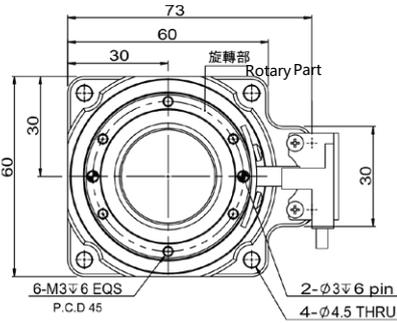
**■ GSN60M**



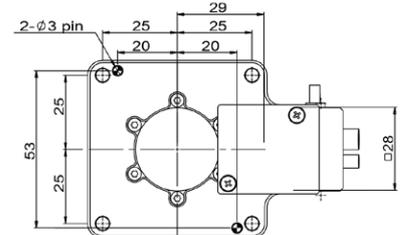
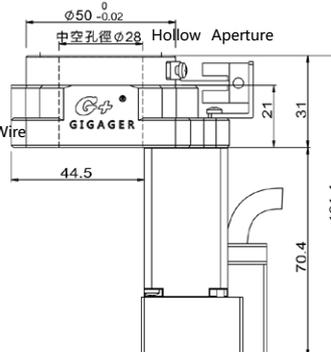
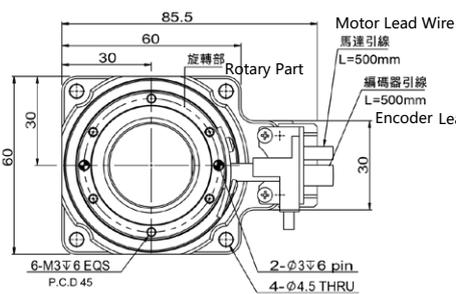
## ■ GSN60-10K



## ■ GSN60-18K-OS



## ■ GSN60-18K-CS



XXY
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GSH
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<b>GSN</b>
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# GSN85

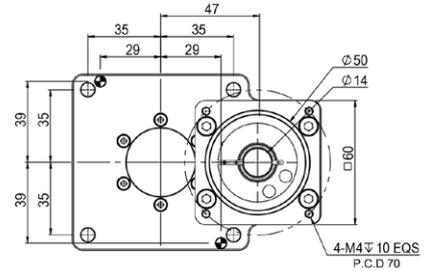
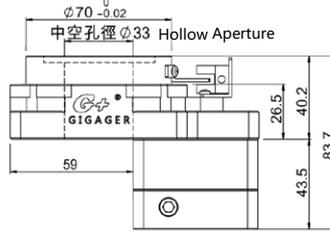
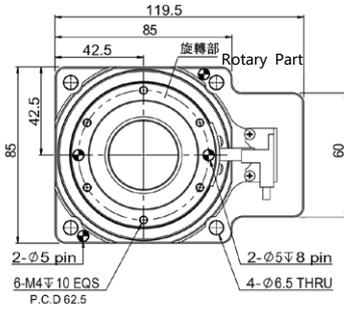
Seires	Size	Type	Ratio	Motor
<b>GSN</b>	<b>85</b>		<b>05K</b>	<b>SV1</b>
	60 85 130 200 280 450	Z: Right Angle M: Planetary None: Standard		SV1: Servo Ø14 PCD70,M4 SV2: Servo Ø14 PCD70,M5 SV3: Servo Ø11 PCD70,M4 Suit for 200~400W AC Servo Motor  ST1: Stepper Ø6.35 PCD66.67,M4 ST2: Stepper Ø6.35 PCD70.7,M4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

XXY
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<b>GSN</b>
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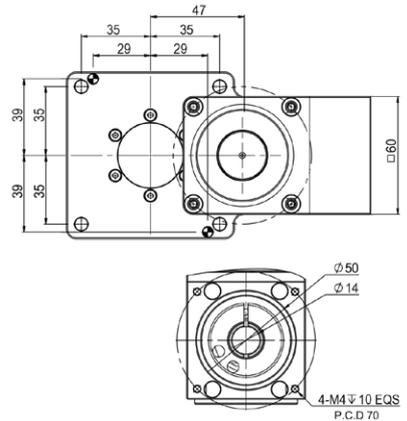
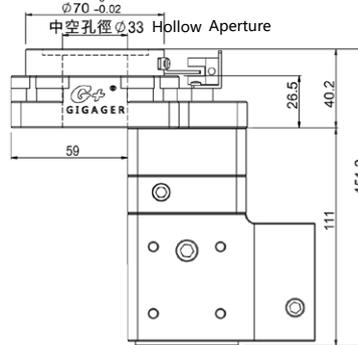
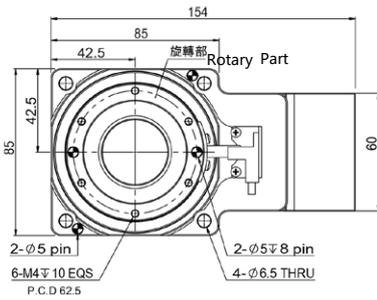
## Technical Parameters

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									

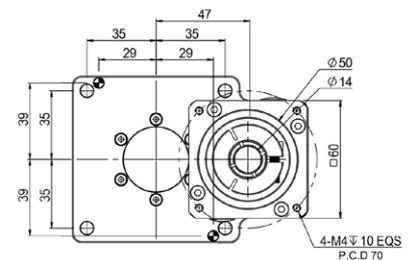
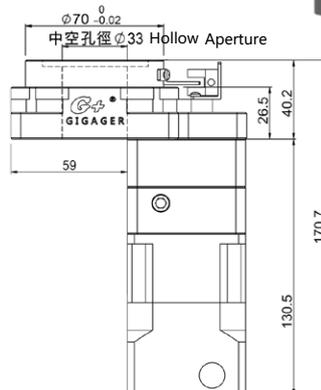
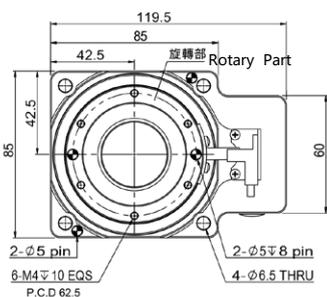
## ■ GSN85-05K



## ■ GSN85Z-10K/15K

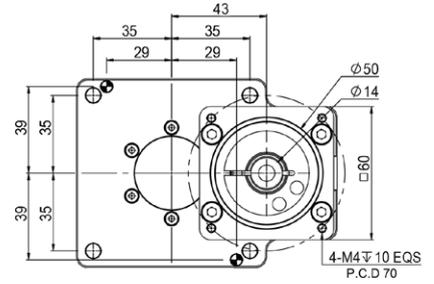
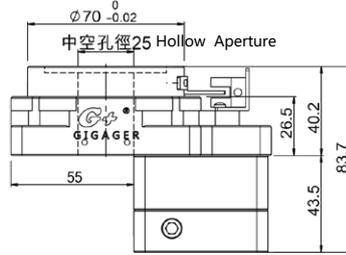
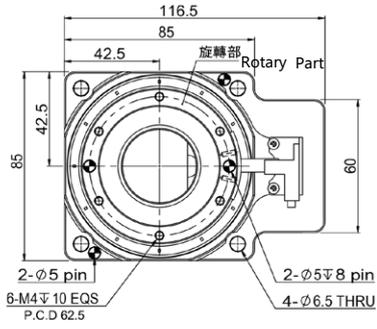


## ■ GSN85M-15K/20K/25K/35K/50K

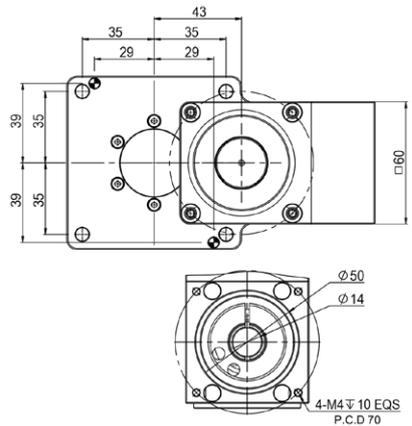
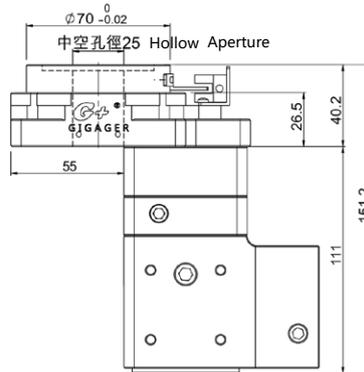
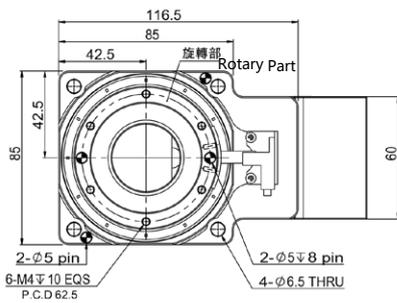


XXY
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<b>GSN</b>
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Parameter
GSZ
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■ GSN85-10K



■ GSN85Z-20K/30K



# GSN85

Series	Size	Ratio	Motor
<b>GSN</b>	<b>85</b>	<b>18K</b>	<b>SV1</b>
	60		
	<b>85</b>		
	130		
	200		
	280		
	450		
			SV1: Servo Ø8 PCD45,M3 SV2: Servo Ø8 PCD46,M4 Suit for AC 100W 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

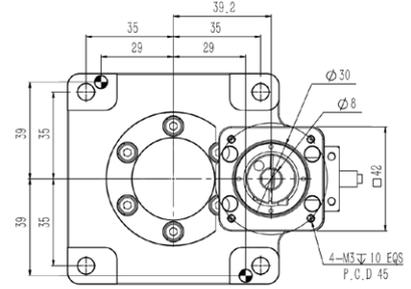
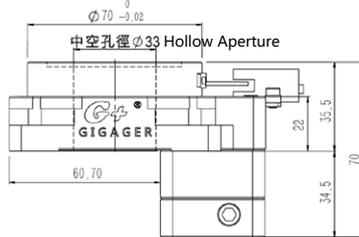
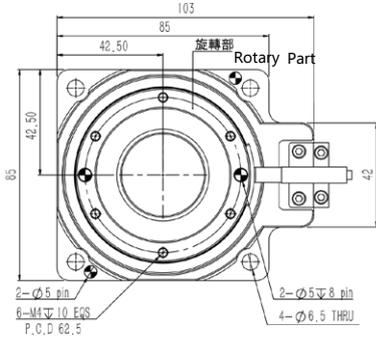
Parameters		Model		
		GSN85-18K	GSN85-18K-OS	GSN85-18K-CS
Bearing of Rotary Table		Cross Roller Bearing		
Gear Ratio	i	18		
Allowable Torque	N.m	3.2		
Allowable Table Speed	rpm	150	50	150
Repeatability	arc-sec	≤ 10		
Allowable Moment of Inertia	N.m	10		
Positioning Accuracy	arc-min	≤ 1		
Allowable Axial 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

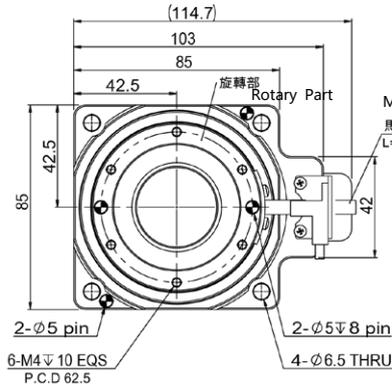
Motor/Driver Parameters		Model	
		GSN85-18K-OS	GSN85-18K-CS
Frame Size	mm	42	
Rated Voltage	V/phase	3.25	
Rated Current	A/phase	1.3	
Coil Impedance	Ω/phase	2.5	
Coil Inductive	mh	6.0	
Holding Torque	N.m	0.6	
Moment of Inertia	g.cm <sup>2</sup>	82	
Encoder Resolution	P/R	-	2500
Ingress Protection	IP	20	
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
- GSB
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- GSB
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- Parameter
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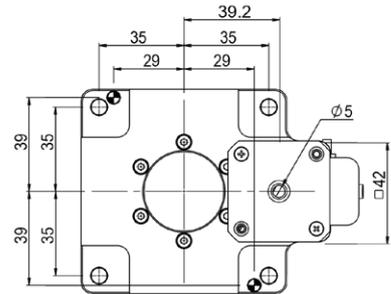
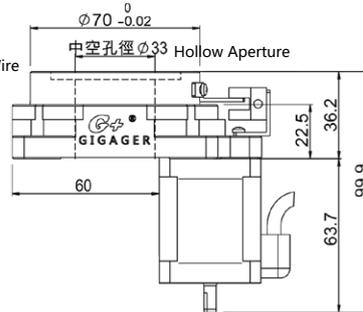
**■ GSN85-18K**



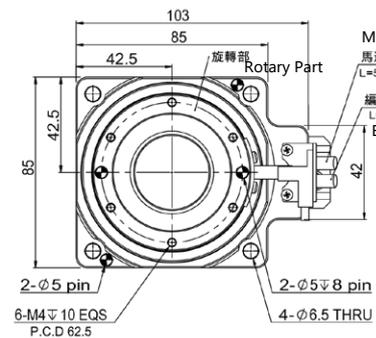
**■ GSN85-18K-OS**



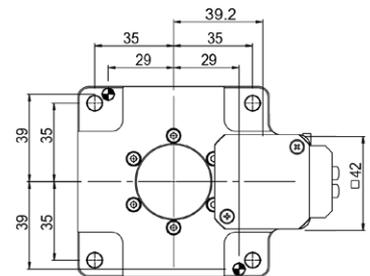
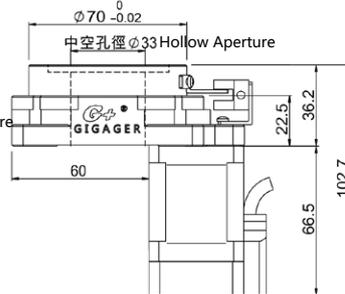
Motor Lead Wire  
馬達引線  
L=500mm



**■ GSN85-18K-CS**



Motor Lead Wire  
馬達引線  
L=500mm  
編碼器引線  
Encoder Lead Wire  
L=500mm



# GSN130

Series	Size	Type	Ratio	Motor
<b>GSN</b>	<b>130</b>		<b>10K</b>	<b>SV1</b>
	60 85 <b>130</b> 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

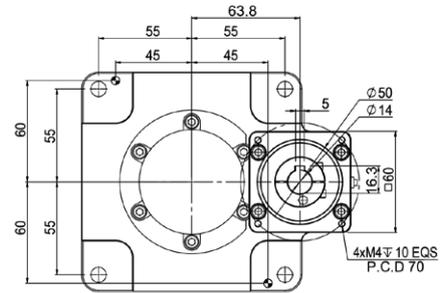
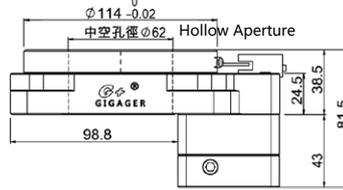
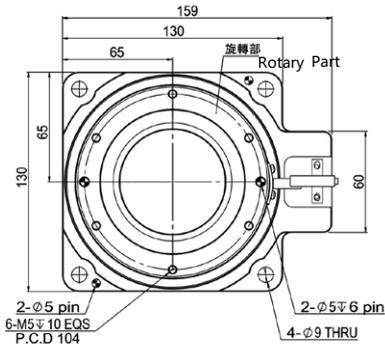
## Technical Parameters

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 <sup>2</sup>	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



XXY

GXYR

GX

GZ

GTZ

GXY

GR

GYH

GSH

GSR

GSHR

GSA

**GSN**

GSB

GSG

Parameter

GSZ

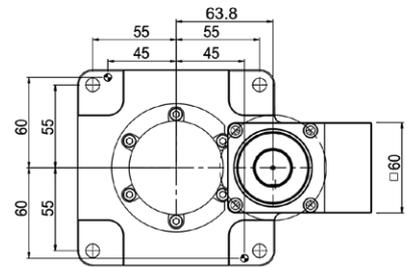
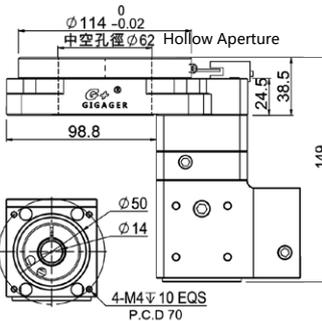
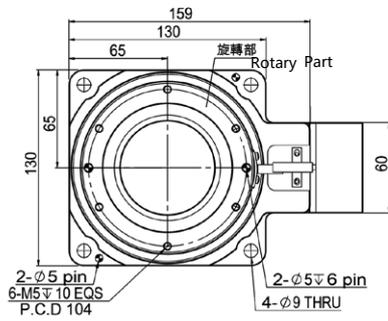
GMR

GMC

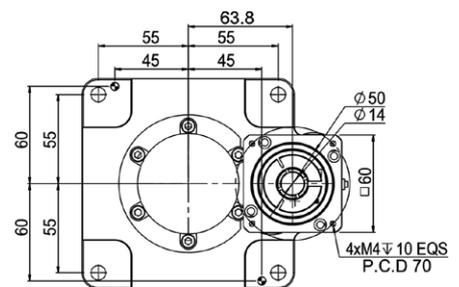
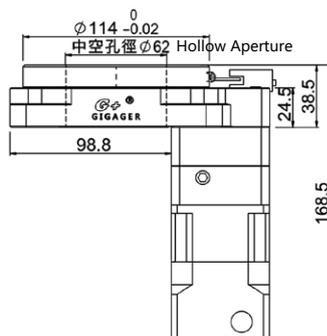
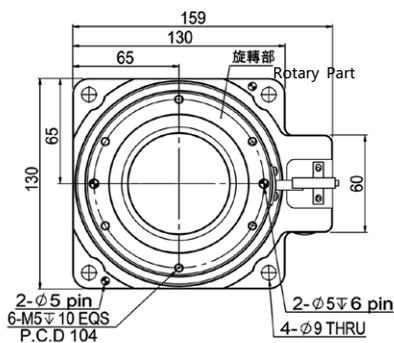
GMA

GML

■ GSN130Z-20K/30K



■ GSN130M-30K/40K/50K





# GSN200

Series	Size	Type	Ratio	Motor
<b>GSN</b>	<b>200</b>		<b>10K</b>	<b>SV1</b>
	60 85 130 <b>200</b> 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

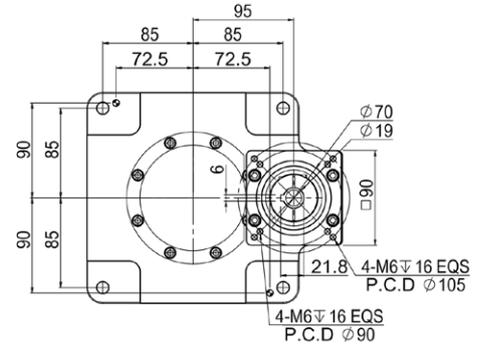
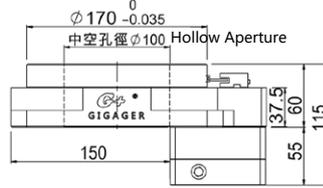
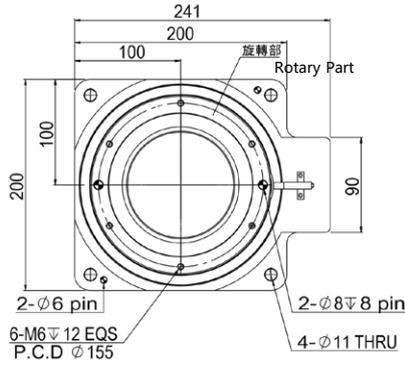
## Technical Parameters

Parameters	Model	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			

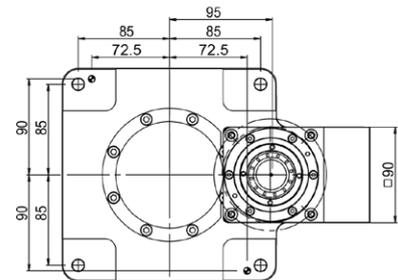
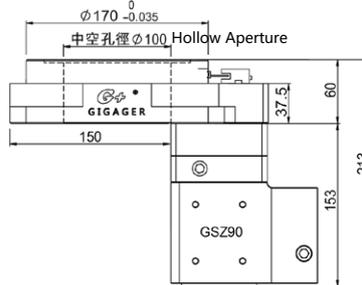
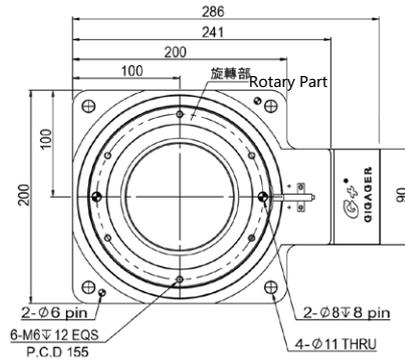
## Motor/Drive Parameters

Motor/Driver Parameters	Model	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 <sup>2</sup>	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

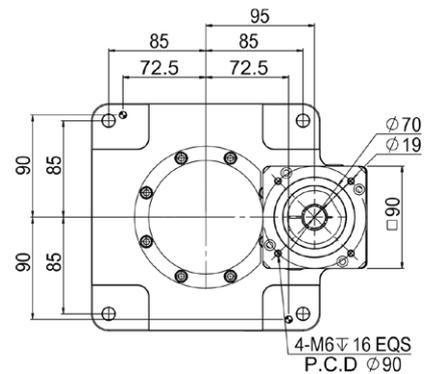
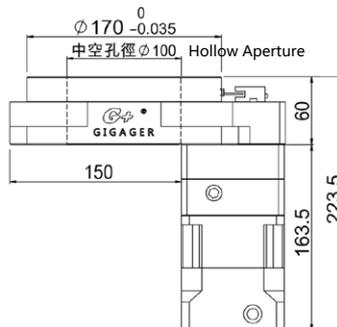
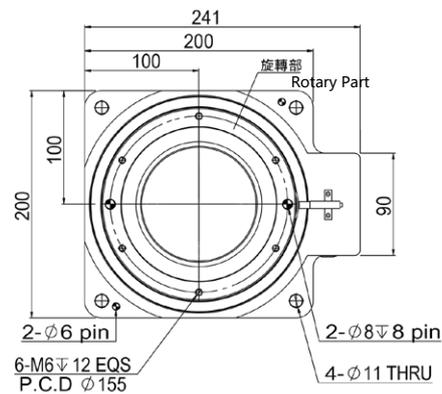
## ■ GSN200-10K/18K



## ■ GSN200Z-20K/30K

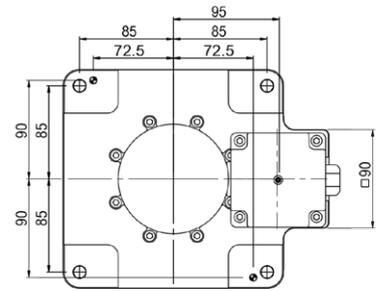
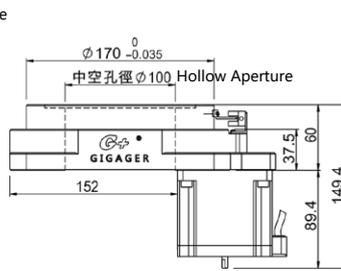
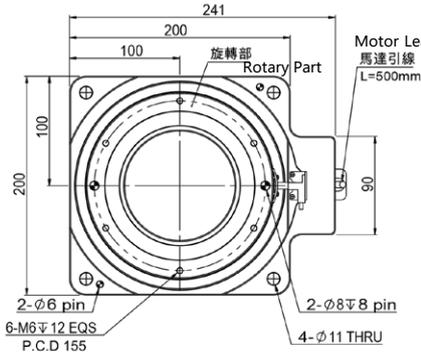


## ■ GSN200M-30K/40K/50K

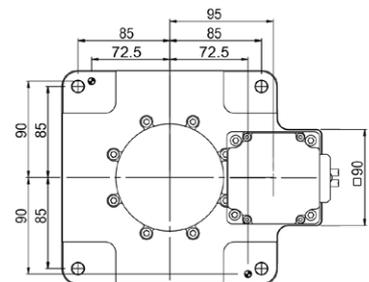
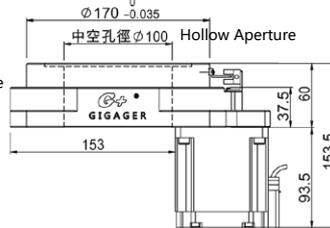
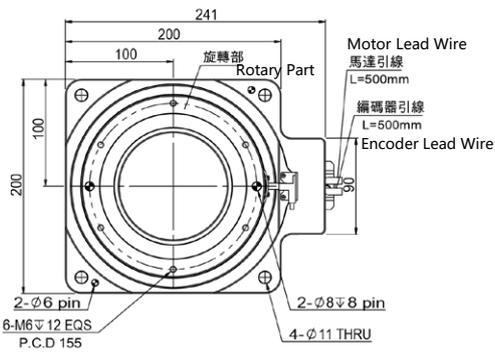


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■ GSN200-18K-OS



■ GSN200-18K-CS



# GSN280

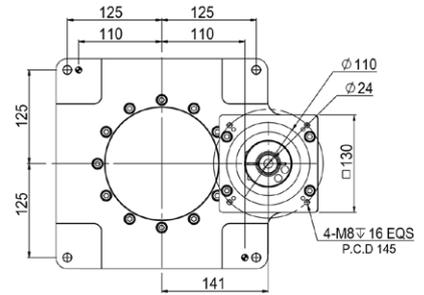
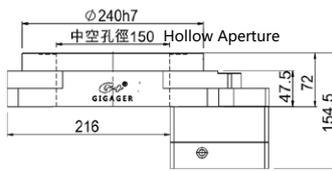
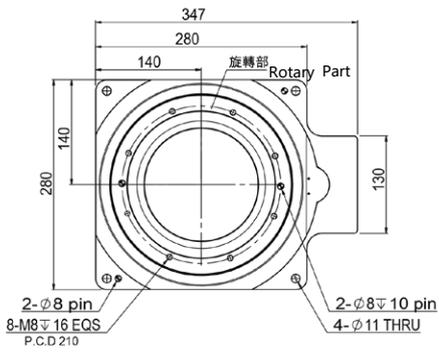
Series	Size	Type	Ratio	Motor
<b>GSN</b>	<b>280</b>		<b>10K</b>	<b>SV1</b>
	60 85 130 200 <b>280</b> 450	M: Planetary None: Standard		SV1: Servo Ø22 PCD145,M8 SV2: Servo Ø24 PCD145,M8 Suit for 1000W AC Servo Motor

## ■ Technical Parameter

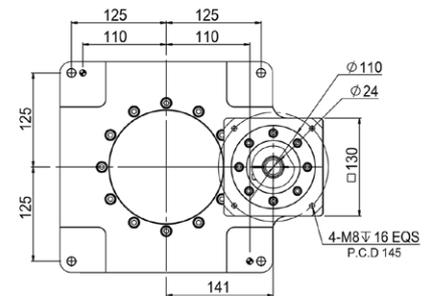
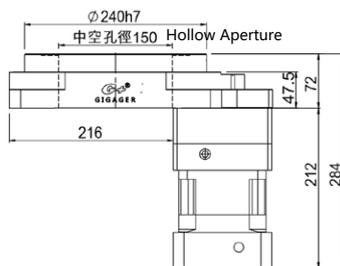
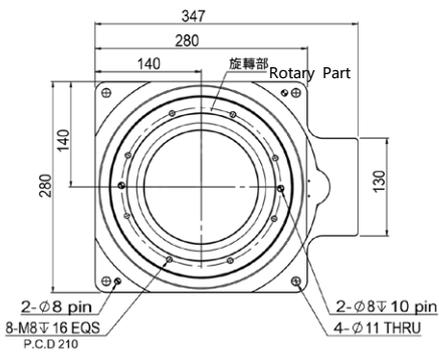
Parameters		Model			
		GSN280	GSN280M		
Bearing of Rotary Table		Cross Roller Bearing			
Gear Ratio	i	10	30	40	50
Allowable Torque	N.m	120			
Allowable Table Speed	rpm	200			
Repeatability	arc-sec	≤ 10			≤ 15
Allowable Moment of Inertia	N.m	200			
Positioning Accuracy	arc-min	≤ 1			
Allowable Axial Load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

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■ GSN280-10K



■ GSN280M-30K/40K/50K



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# GSN450

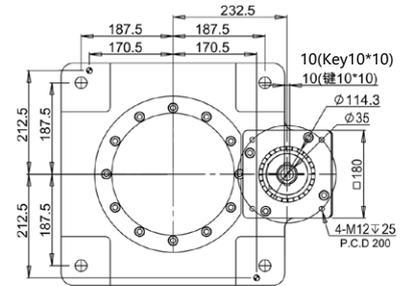
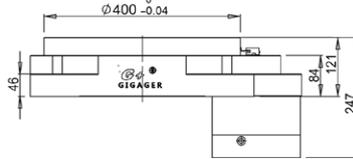
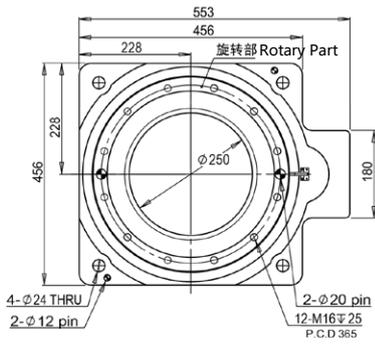
Series	Size	Type	Ratio	Input Terminal Installation Dimensions
<b>GSN</b>	<b>450</b>		<b>10K</b>	( $\square^a$ - $\square^b$ - $\square^c$ - $\square^d$ )
	60 85 130 200 280 <b>450</b>	M: Planetary None: Standard		a. Motor output shaft diameter b. Motor spigot diameter c. Motor mounting hole PCD d. Motor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

## ■ Technical Parameters

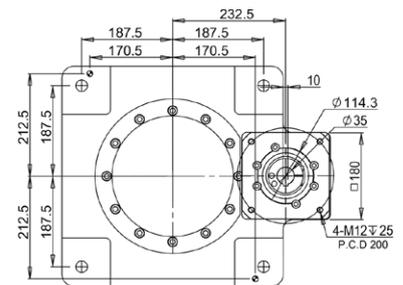
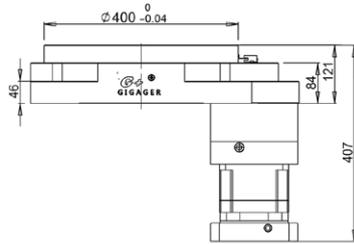
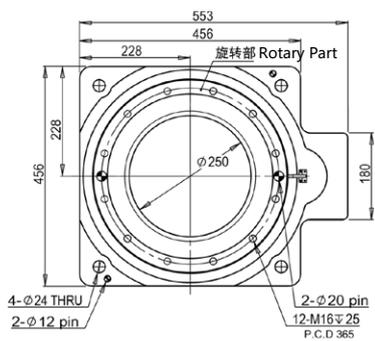
Parameters	Model						
	GSN450	GSN450M					
Bearing of Rotary Table	Cross Roller Bearing						
Gear Ratio	i	10	30	40	50	70	100
Allowable Torque	N.m	380					
Allowable Table Speed	rpm	150					
Repeatability	arc-sec	≤ 10				≤ 15	
Allowable Moment of Inertia	N.m	750					
Positioning Accuracy	arc-min	≤ 1					
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				

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**■ GSN450-10K**



**■ GSN450M-30K/40K/50K/70K/100K**



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