



Hollow Indexing Tables/GYH Series

Arc Indexing Applied
Low Friction, No Backlash, High Rigidity



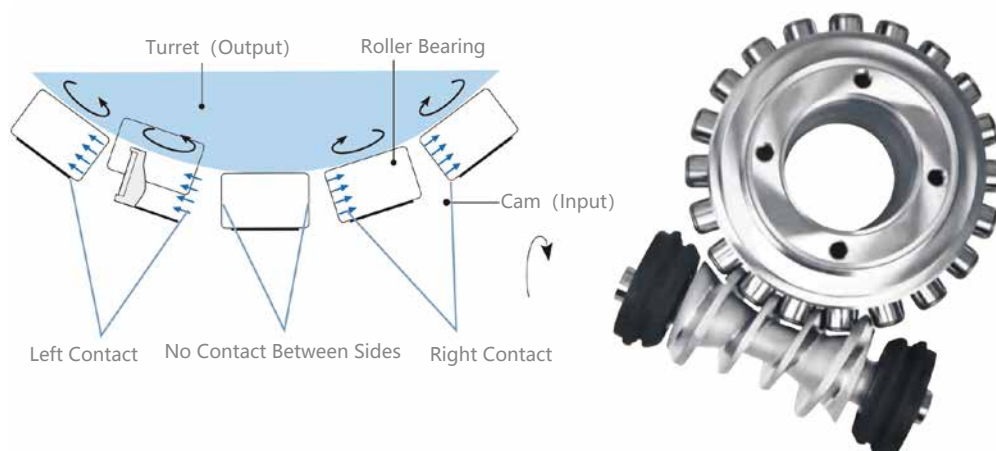
Applies the principle of arc surface indexing for precise motion control

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 ^{Note 1}
GYH	68	M	60K	SV1

48
68
82
90
115
215

M: Planetary

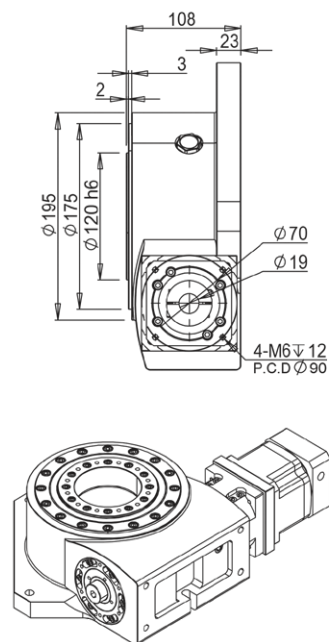
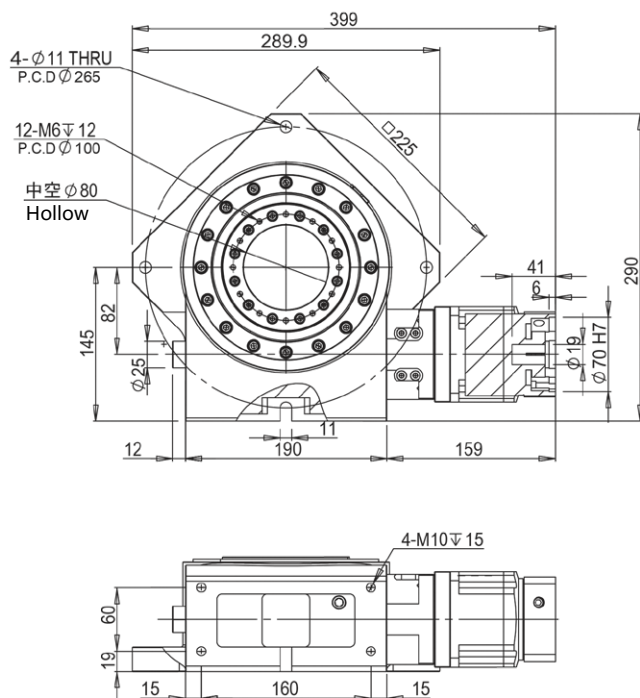
Technical Parameters

Parameters		Model					
		GYH48M	GYH68M	GYH82M	GYH90M	GYH115M	GYH215M
Bearing of Rotary Table		Cross Roller Bearing					
Gear Ratio	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

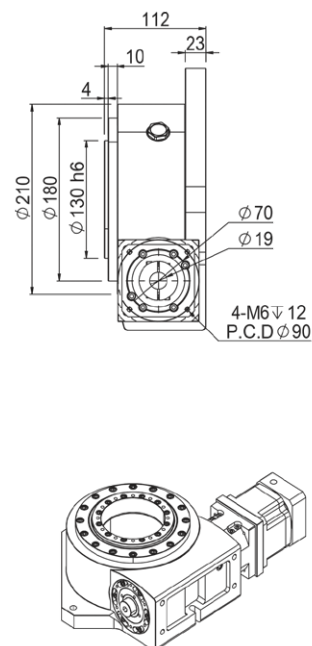
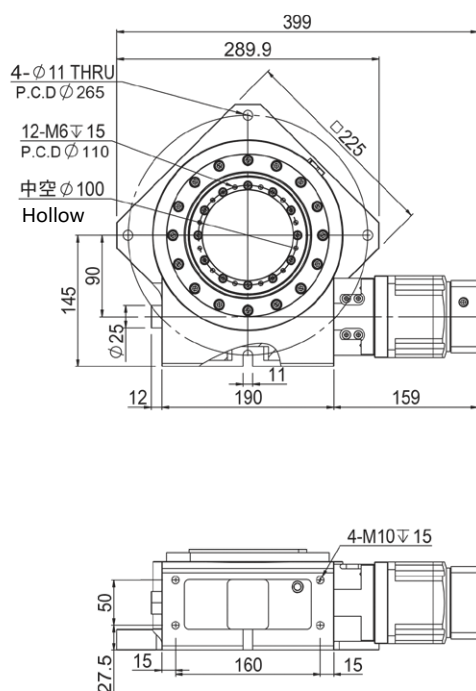
Note 1: Motor

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		$(\begin{matrix} a & b & c & d \\ \square & - & \square & - & \square & - & \square \end{matrix})$ 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)	

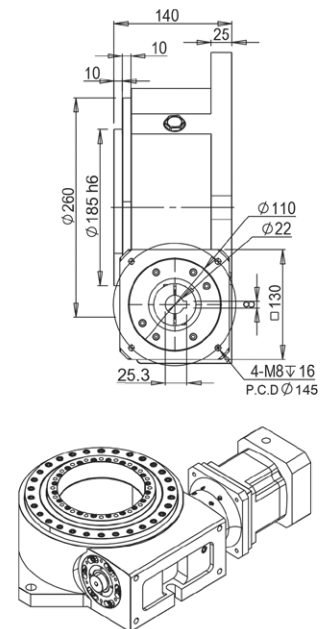
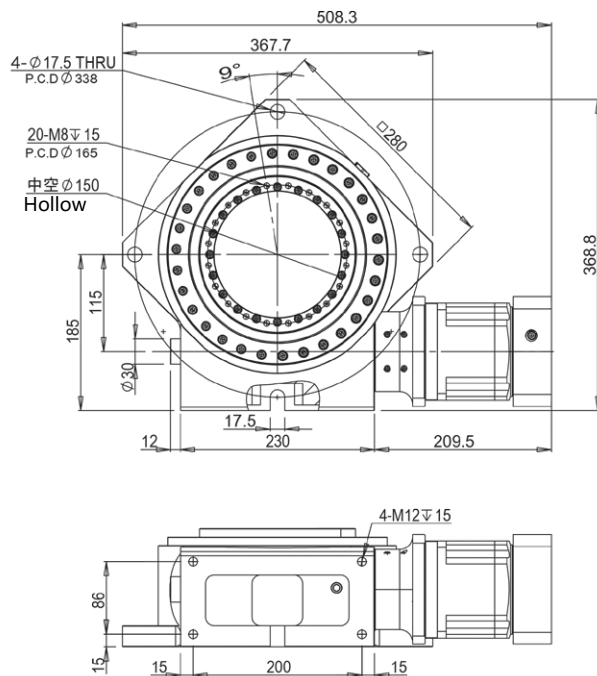
■ GYH82M-72K/96K/120K



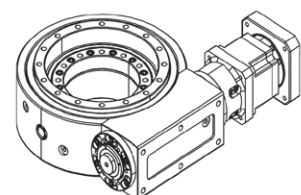
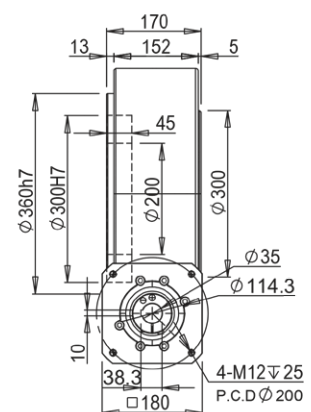
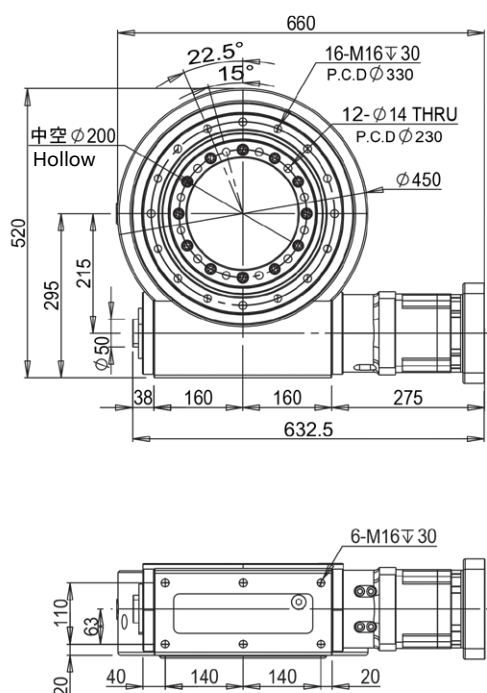
■ GYH90M-60K/80K/100K



■ 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