

## MOSRAC Hollow Integrated Servo Robot Joint Module



Domestic Website



International Website

ShenZhen Mosrac Motor Co., Ltd

Sales Hotline: 86-18100274370

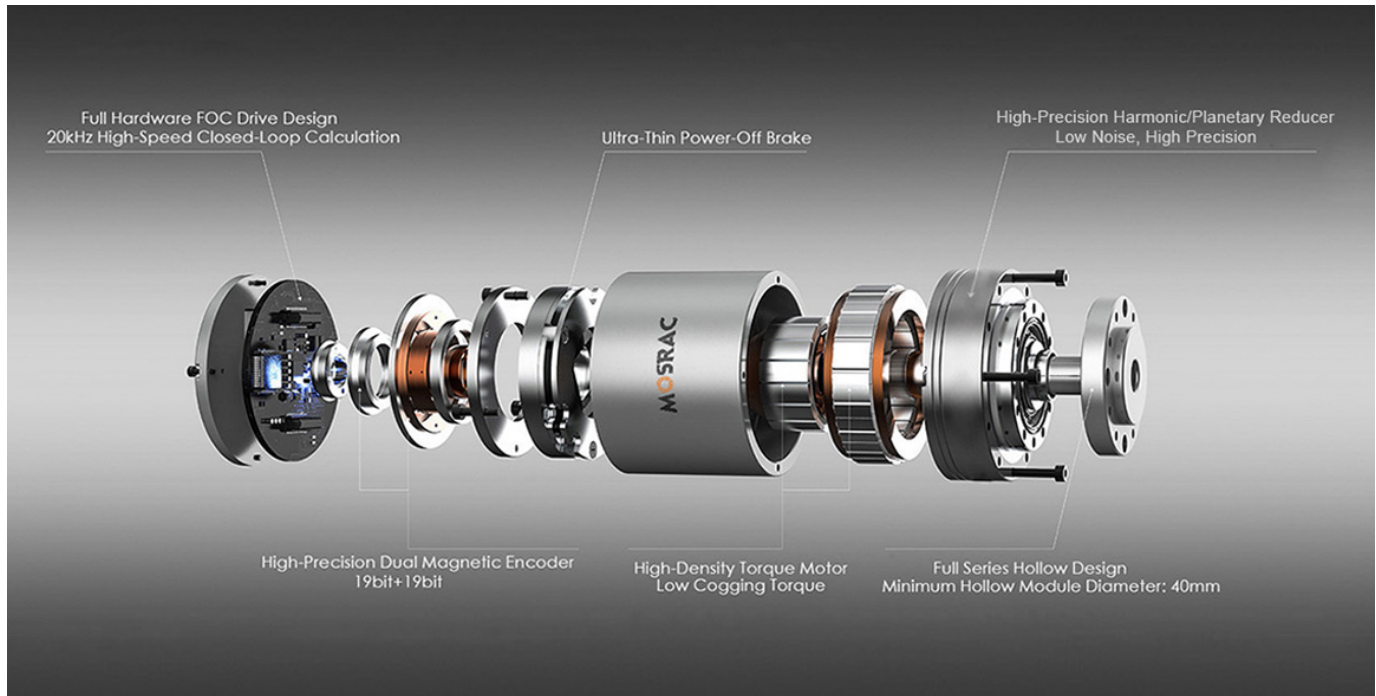
Email : sales12@mosrac.com

Address: Building 1, No. 90-1, Davang Road, Rentian Community, Fuhai Street, Bao'an District, Shenzhen

Technical Support : 86-18675590097

Website : <http://www.mosrac.com>

# Harmonic integrated servo robot joint module



## Product Parameters

Model	H08-40		H11-52		H14-70		H17-80		H20-90		H25-110	
Motor Type	Inner Rotor Torque Motor											
Diameter	40mm		52mm		70mm		80mm		90mm		110mm	
Inner Diameter	4.6mm		6mm		14mm		14mm		18mm		18mm	
Weight with brake/without brake	None /185g		495/434g		1108/1023g		1350/1223g		1991/1960g		3098/2927g	
Backlash	15arcsec											
Noise	<70db											
Temperature Range	-20~80° C											
Operating Voltage	24~36v				24~48v							
Rated Power	36W		120W		120W		200W		250W		500W	
Gear Ratio	51	101	51	101	51	101	51	101	81	121	81	121
Rated Speed	60rpm	30rpm	60rpm	30rpm	60rpm	30rpm	60rpm	30rpm	38rpm	25rpm	38rpm	25rpm
Rated Torque	1.0nm	1.6nm	3.5nm	6.8nm	12nm	14nm	22nm	38nm	52nm	55nm	96nm	144nm
Peak Torque	2.8nm	3.5nm	6.8nm	13nm	38nm	45nm	52nm	66nm	104nm	110nm	206nm	220nm
Encoder Accuracy	19bit											
Encoder Type	Dual Magnetic Encoder											

# Planetary Integrated Servo Robot Joint Module



### High-Precision Metal Planetary Reducer

Metal gears, withstand large torque, high precision, hysteresis better than  $\pm 12$  arcmin (0.2 degrees) Low noise, high speed <70db, low speed silent, double bearing structure at the output end, no axial clearance.



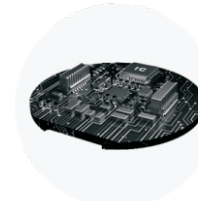
### High-Density Torque Motor

High-Density Brushless External Rotor Torque Motor (Low Cogging Torque, Long Life)



### Dual Absolute Encoder

The motor end has 16-bit accuracy, the output end has a single-turn absolute value, the angle is not lost when the power is off, and no external battery is required



### Integrated Drive with Bus Control

Adopting FPGA design, stable performance, strong anti-interference; CAN2.0A bus interface, bus rate 1.0MHZ, supports 254 joints or IO devices in series.



### Full Parameter Configuration

The internal integrated trajectory contour working mode, acceleration and deceleration, speed limit, torque limit, and temperature limit can all be set; 20khz current loop frequency, 10kHz speed loop, and 1kHz position loop, three loops are all open, and various working modes can be freely realized.

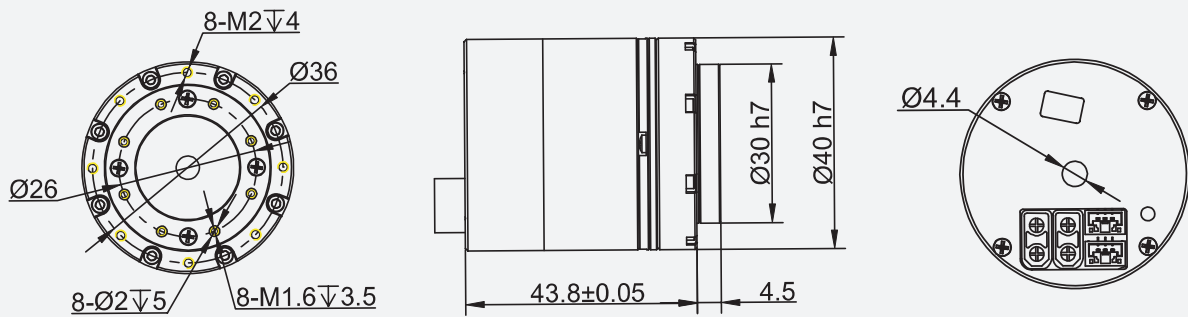
## Product Parameters

Model	P05-32	P08/P08D-40	P11/P11D-52	P11L-52
Motor Type	Brushless Torque Motor			
Reducer Type	Planetary Reducer			
Diameter	32mm	40mm	52mm	52mm
Length	33.4mm	52/48mm	64/61mm	82mm
Weight	82g	190/199g	391/436g	517g
Gear Ratio	6:1	36:1		
Backlash	12arcmin			
Noise	<70db			
Working Temperature	-20~80° C			
Working Voltage	24v			
Maximum Power	35W	36W	60W	72W
Rated Speed	50rpm			
Rated Torque	0.2nm	1.0nm	6.6nm	12nm
Peak Torque	0.48nm	2.2nm	14nm	18nm
Torque Constant	0.2nm/a	1.1nm/a	2.2nm/a	6nm/a
Axial Load		1284N	1605N	1605N
Radial Load		2520N	3150N	3150N

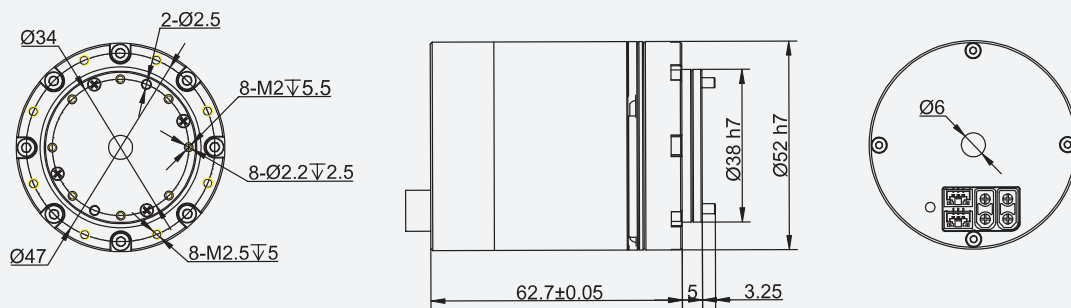


Drawings

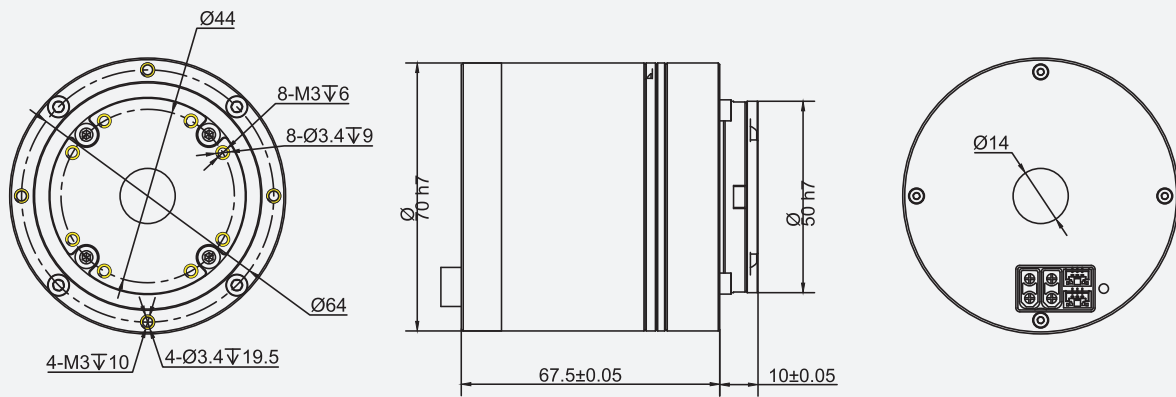
H08-40



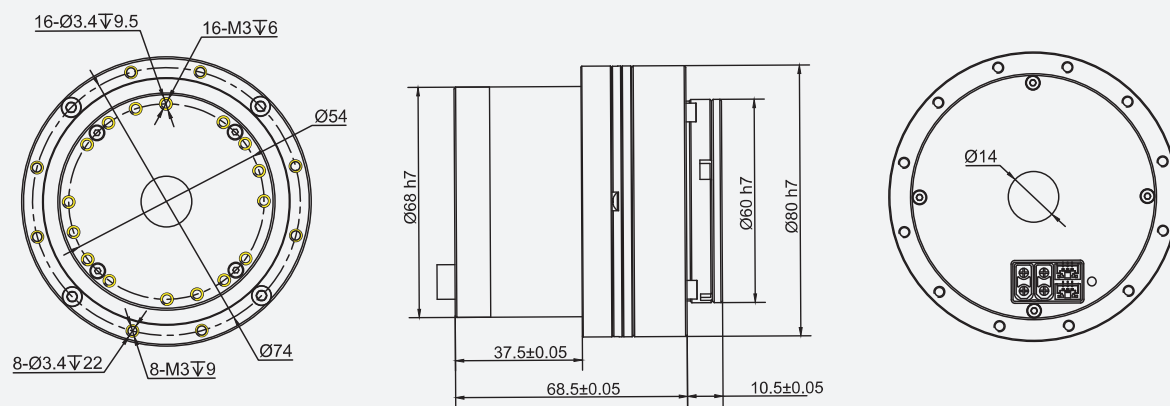
H11-52



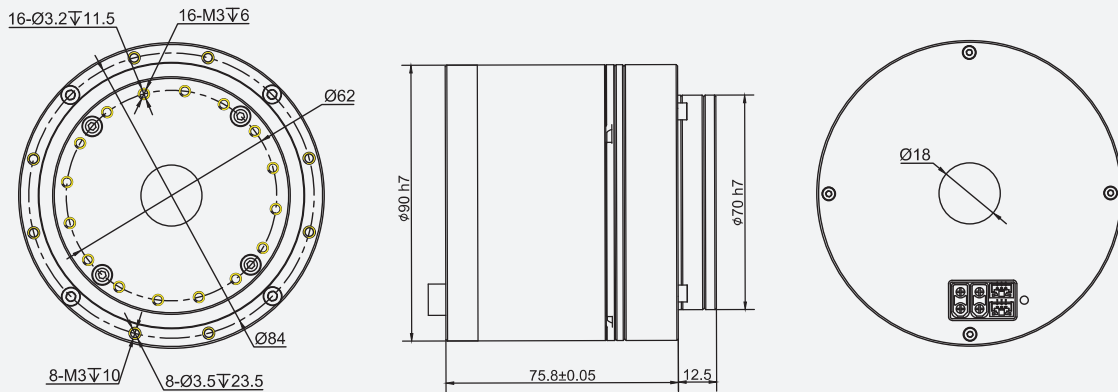
H14-70



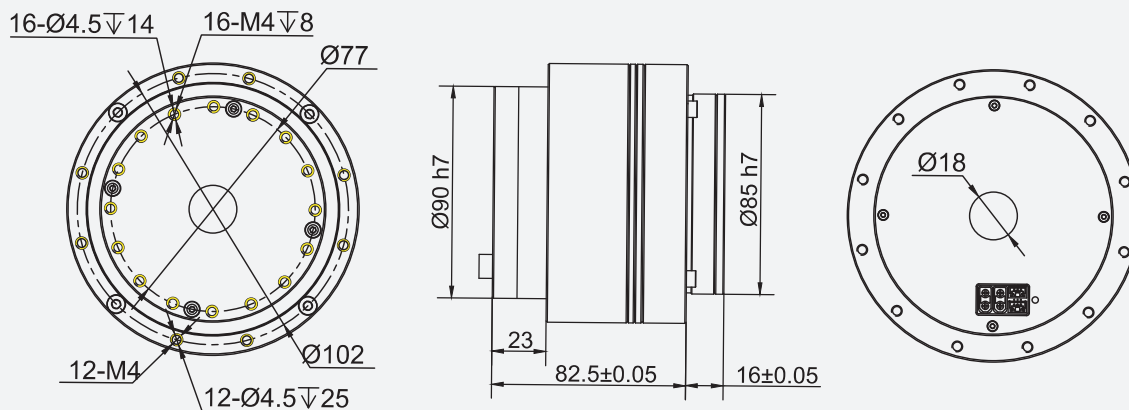
H17-80



H20-90

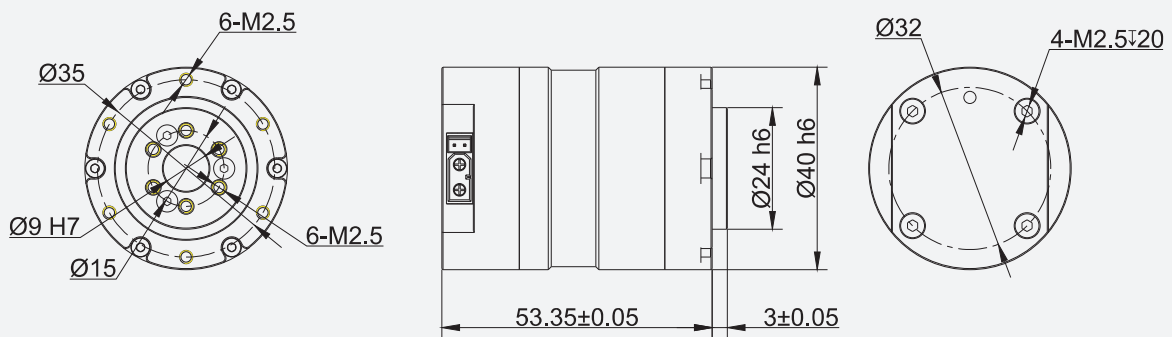


H25-110

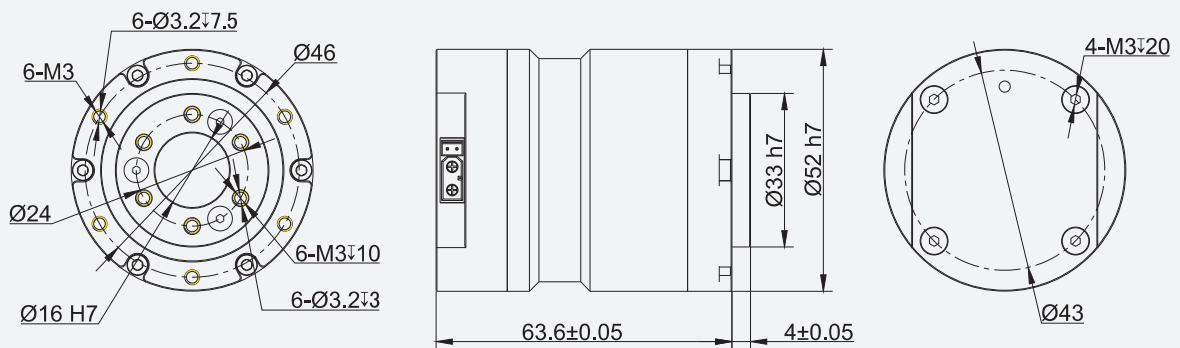


Drawings

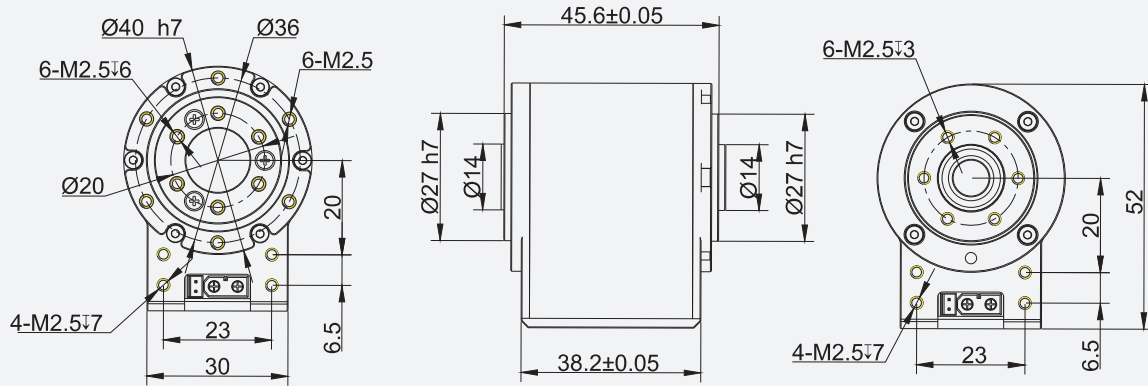
P08-40



P11-52



P08D-40



P11D-52

