



Korean Distributor



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Articulating a Smarter Future



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Jiangsu EYOU Robotics Technology Co., Ltd

Articulating a Smarter Future

About EYOU

Jiangsu EYOU Robotics Technology Co., Ltd

EYOU Robotics was founded in 2018. The company has self-developed high-precision joint FOC algorithms, and launched the planetary, harmonic and actuator joint modules, covering all kinds of power needs of the upper limbs, waist, and lower limbs of humanoid robots.

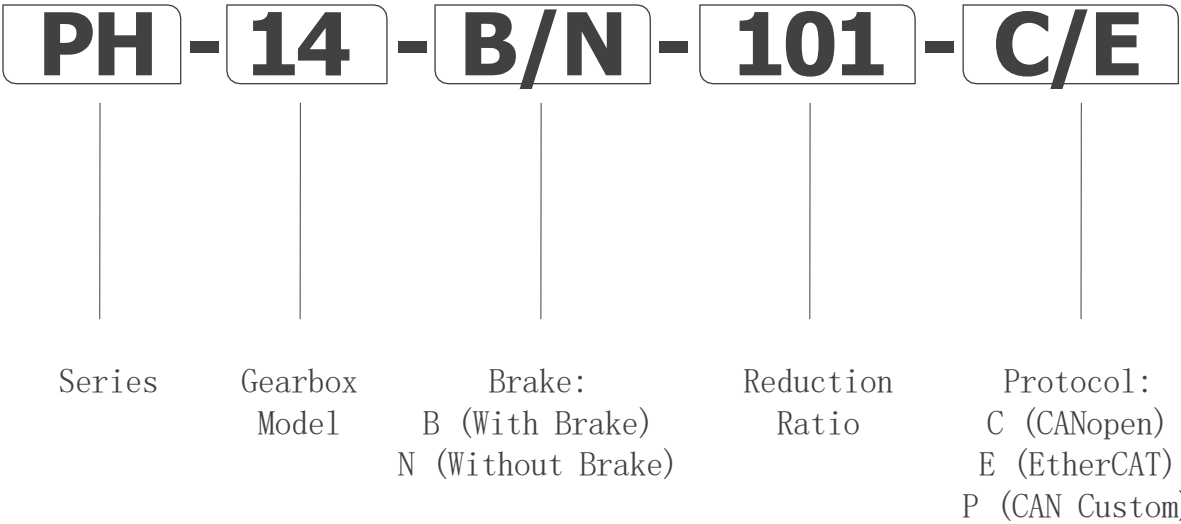
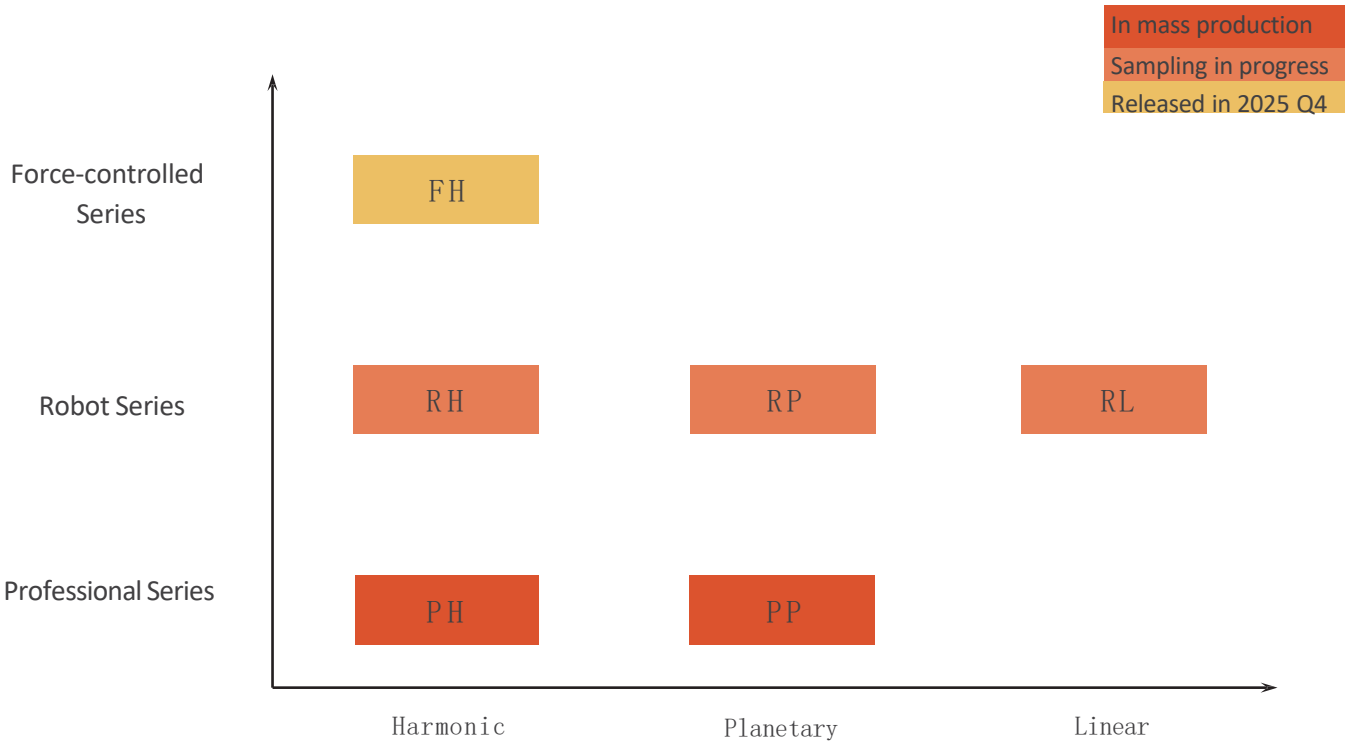
In 2024, EYOU has achieved annual sales of 30,000 joint module units, securing the top position in Chinese humanoid robot industry for harmonic joint module.

With a current production capacity of 80,000 units (Wuxi) and a production capacity of 180,000 units (Shanghai automated production line), EYOU is fully committed to supporting the Chinese humanoid robotics industry into the "mass production era".

Partners (Partial)



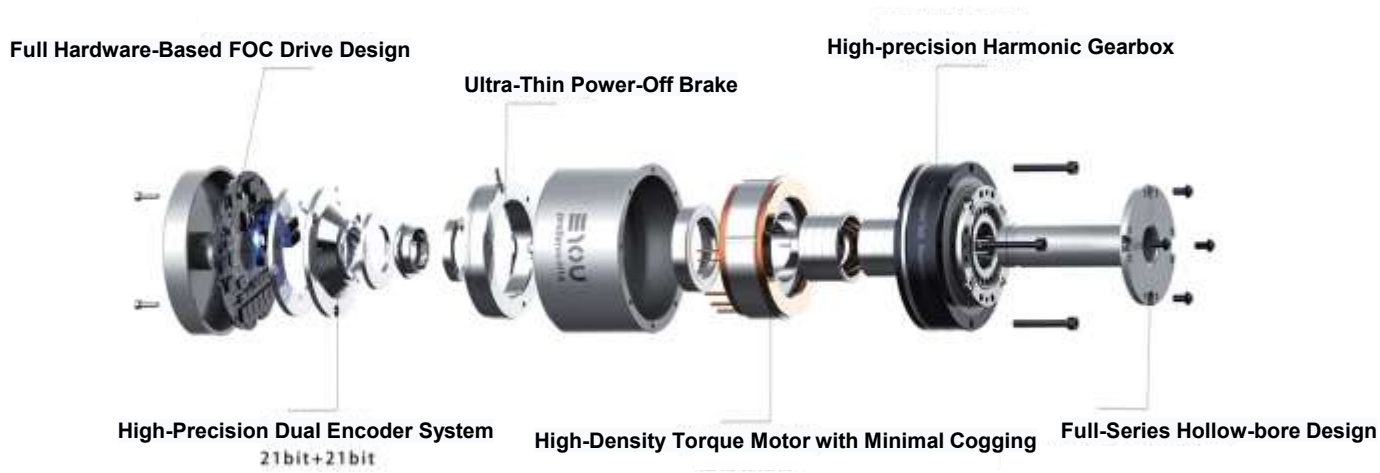
EYOU Product Matrix



PH Harmonic Series



Product Design



Features

Motor	Inner Rotor Torque Motor	Encoder	Dual Magnetic Encoders
Noise	<60 dB @ 30cm	Accuracy	19bit
Temperature	-20-80°C	Brake	Optional
Backlash	15 arcsec	Protocol	EtherCAT/CAN

Specification

SSPT (Start-Stop Peak Torque)
MALT (Maximum Average Load Torque)
IPMT (Instantaneous Permissible Maximum Torque)

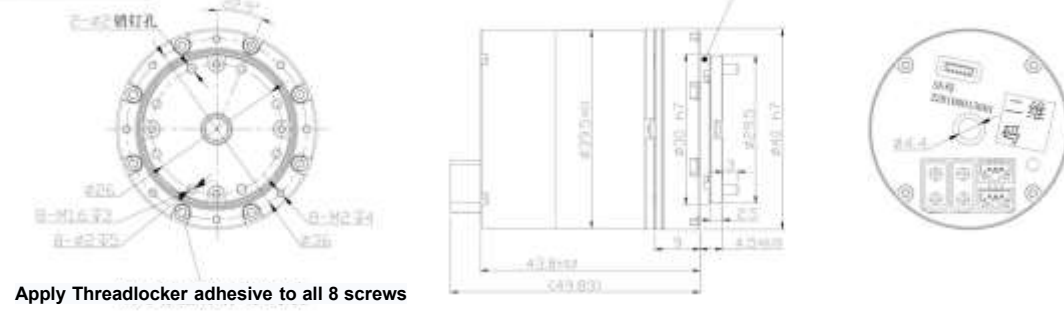
Model	Ø (mm)	Bore (mm)	Weight (kg)	Voltage (V)	Ratio	Power (W)	Speed (rpm)	Torque (Nm)	MALT (Nm)	SSPT (Nm)	IPMT (Nm)
PH08-51	40 mm	4.4 mm	N:186g	14V~42V	51	38W	60rpm	1.8Nm	2.3Nm	3.3Nm	6.6Nm
PH08-101					101	35W	30rpm	2.4Nm	3.3Nm	4.8Nm	9 Nm
PH11-51	52 mm	6 mm	N:400g	24V~48V	51	50W	60rpm	3.5Nm	5.5Nm	8.3Nm	17 Nm
PH11-101			B:455g		101		30rpm	5 Nm	8.8Nm	11 Nm	25 Nm
PH14-51	70 mm	10.8 mm	N:906g	24V~48V	51	80W	60rpm	6.6Nm	8.6Nm	23 Nm	43 Nm
PH14-101			B:990g		101		30rpm	9.6Nm	13.5Nm	34 Nm	66 Nm
PH17-51	80 mm	10.8 mm	N:1090g	24V~48V	51	170W	60rpm	19.8Nm	32 Nm	42Nm	86 Nm
PH17-101			B:1178g		101		30rpm	30 Nm	49 Nm	66Nm	134 Nm
PH20-81	90 mm	13 mm	N:1606g	24V~48V	81	210W	26rpm	42 Nm	58 Nm	91Nm	158 Nm
PH20-101			B:1790g		101		22rpm	50 Nm	61 Nm	102 Nm	182 Nm
PH20-121					121		18rpm	50 Nm	61 Nm	108Nm	182 Nm
PH25-81	110 mm	13 mm	N:2600g	24V~48V	81	270W	26rpm	78 Nm	107 Nm	169Nm	315 Nm
PH25-101			B:2780g		101		22rpm	84 Nm	133 Nm	194 Nm	351 Nm
PH25-121					121		18rpm	84 Nm	133 Nm	207Nm	376 Nm

Product Details

PH08-C

8 holes are machined as dowel holes, with two diagonally opposed holes arbitrarily chosen for alignment pin installation.

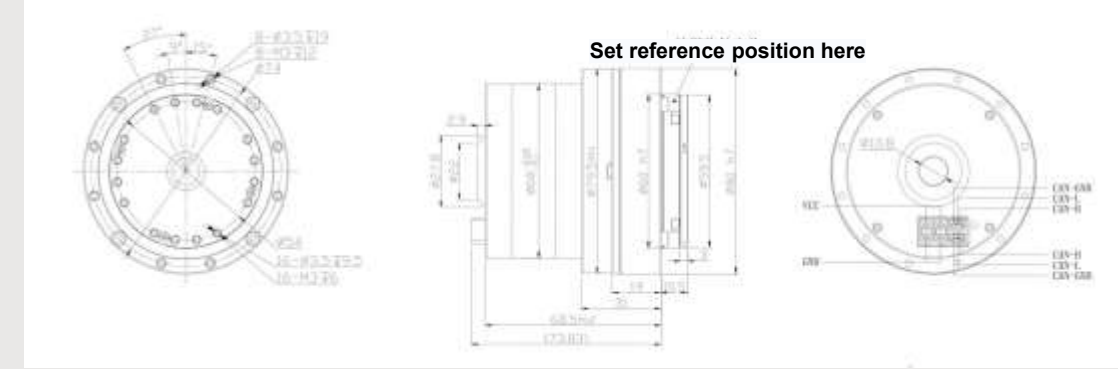
Set reference position here



Apply Threadlocker adhesive to all 8 screws

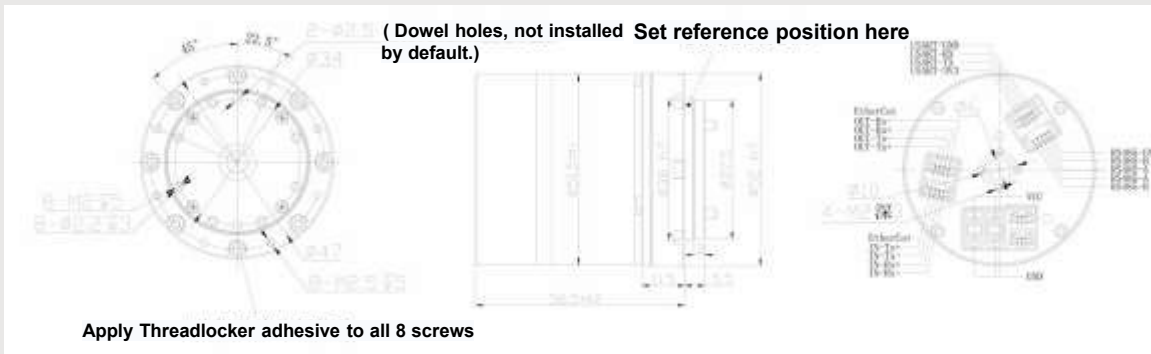
PH17-C

Set reference position here



PH11-C

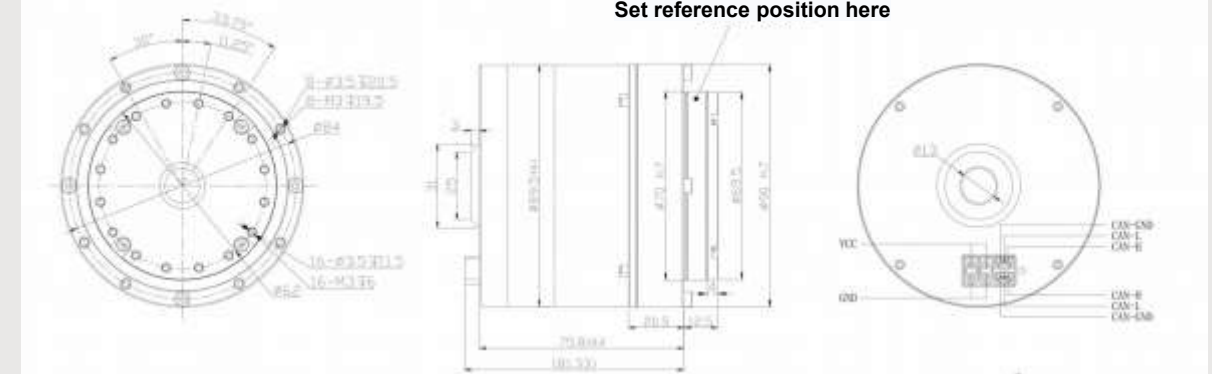
(Dowel holes, not installed Set reference position here by default.)



Apply Threadlocker adhesive to all 8 screws

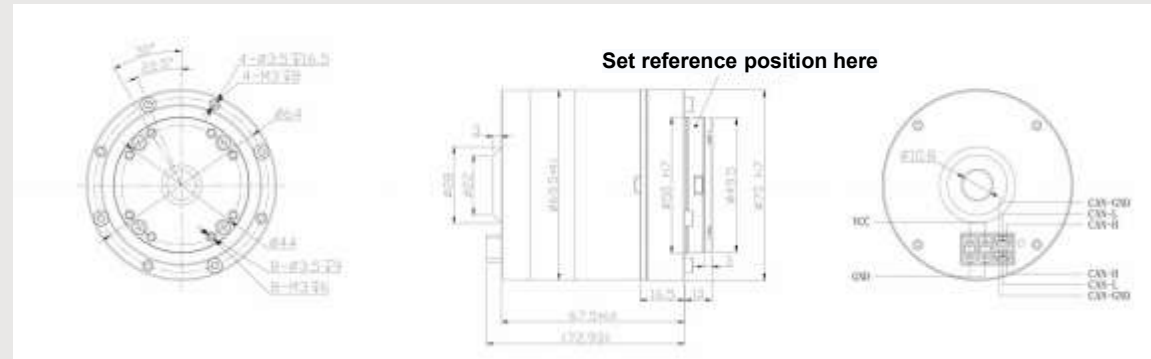
PH20-C

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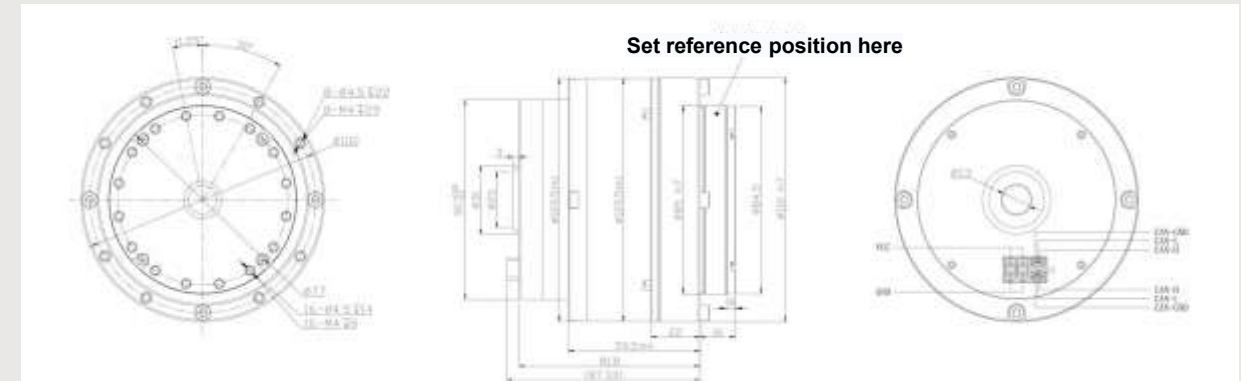
PH14-C

Set reference position here



PH25-C

Set reference position here



PHA Light-weight Series



PHU14

PHU17

PHU20

Features

Housing	Inner Rotor Torque Motor	Encoder	Dual Magnetic Encoders
Noise	<60dB @ 30cm	Accuracy	19bit
Temperature	-20-60°C	Voltage	24V~48V
Backlash	15 arcsec	Protocol	CANopen + EtherCAT

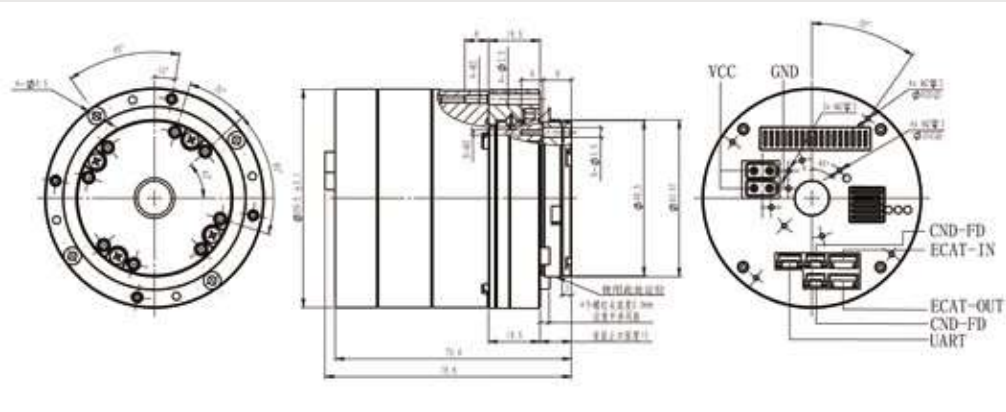
Specification

SSPT (Start-Stop Peak Torque)
MALT (Maximum Average Load Torque)
IPMT (Instantaneous Permissible Maximum Torque)

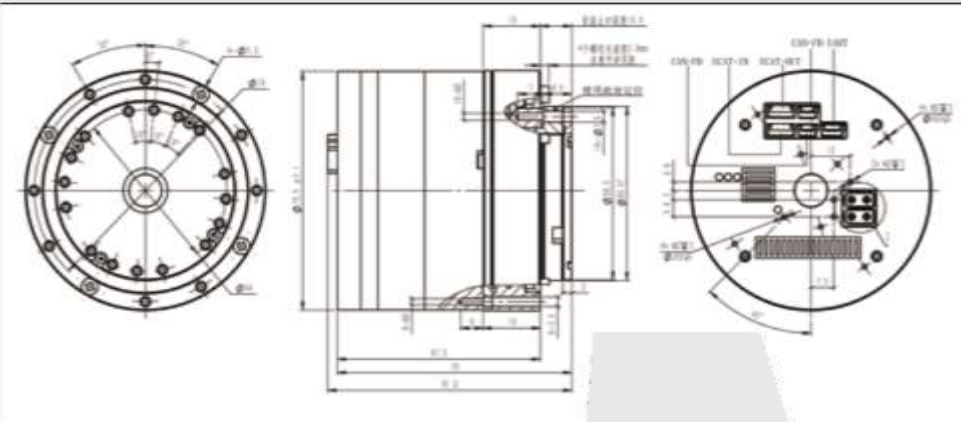
Model	Ø (mm)	Length (mm)	Bore (mm)	Weight (kg)	Power (W)	Speed (rpm)	Torque (Nm)	SSPT (Nm)	MALT (Nm)	IPMT (Nm)
PHU14-51	70mm	75.4mm	10.8mm	B:840g	105W	60rpm	6.6Nm	23Nm	8.6Nm	43Nm
PHU14-101						36rpm	9.6Nm	34Nm	13.5Nm	66Nm
PHU17-51	80mm	78mm	10.8mm	B:1204g	251W	60rpm	19.8Nm	42Nm	32Nm	86Nm
PHU17-101						36rpm	30Nm	66Nm	49Nm	134Nm
PHU20-81	90mm	85.8mm	13mm	B:1747g	267W	37.5rpm	42Nm	91Nm	58Nm	158Nm
PHU20-101						30rpm	50Nm	102Nm	61Nm	182Nm
PHU20-121						30rpm	50Nm	108Nm	61Nm	182Nm

Product Details

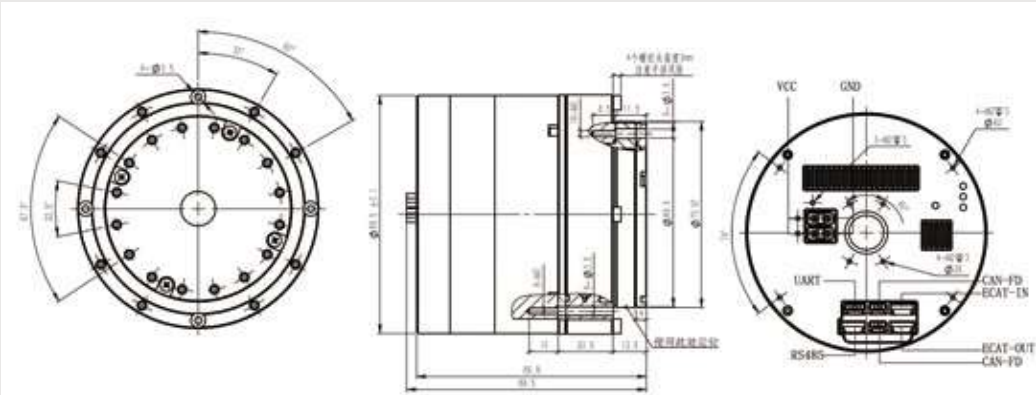
PHU14



PHU17



PHU20



PHA Light-weight Series



PHA11

PHA14

PHA17

Features

Housing	High-Strength Magnesium Alloy	Encoder	Dual Magnetic Encoders
Noise	<60dB @ 30cm	Accuracy	18bit
Temperature	-20-60°C	Voltage	24V~48V
Backlash	12 arcsec	Protocol	CAN/CANFD

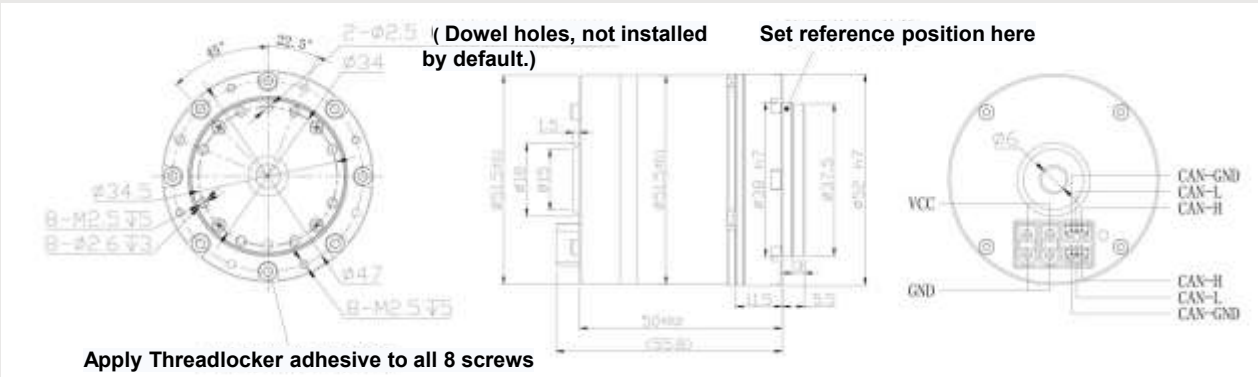
Specification

SSPT (Start-Stop Peak Torque)
MALT (Maximum Average Load Torque)
IPMT (Instantaneous Permissible Maximum Torque)

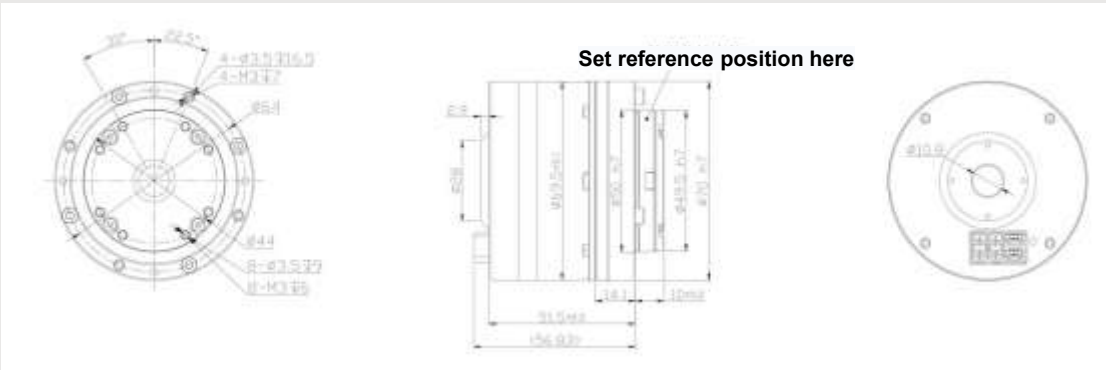
Model	Ø (mm)	Length (mm)	Bore (mm)	Weight (kg)	Power (W)	Speed (rpm)	Torque (Nm)	MALT (Nm)	SSPT (Nm)	IPMT (Nm)
PHA11-N-101-C	52 mm	61.3 mm	6 mm	375g	55W	30rpm	5 Nm	8.9Nm	11 Nm	33 Nm
PHA14-N-101-C	70 mm	66.8 mm	10.8 mm	645g	105W	30rpm	9.6Nm	13.5Nm	34 Nm	67 Nm
PHA17-N-101-C	80 mm	73.3 mm	10.8 mm	900g	151W	20rpm	34 Nm	49 Nm	66 Nm	90 Nm

Product Details

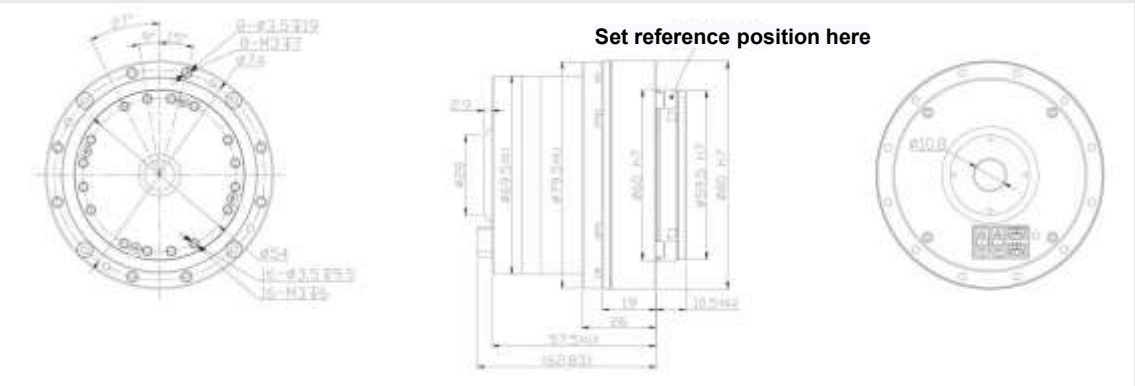
PHA11-N-101-C



PHA14-N-101-C



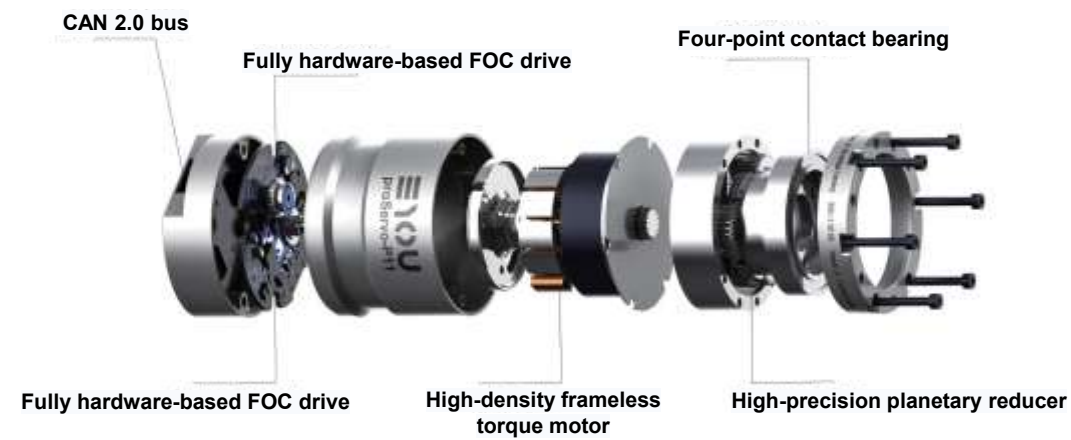
PHA17-N-101-C



PP Planetary Series



Product Design



Features

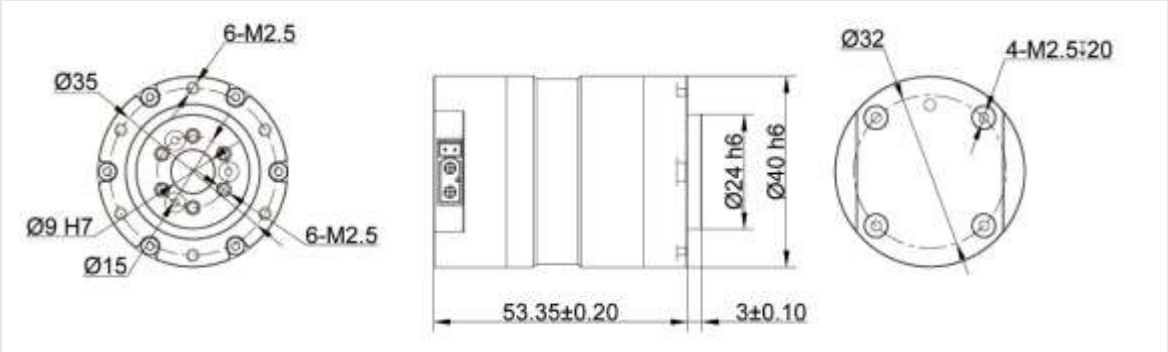
Motor	Brushless Torque Motor	Encoder	Dual Absolute Encoders
Noise	<60dB @ 1m	Voltage	24V
Temperature	-20-80℃	Protection	IP54
Backlash	12 arcmin	Protocol	CAN

Specification

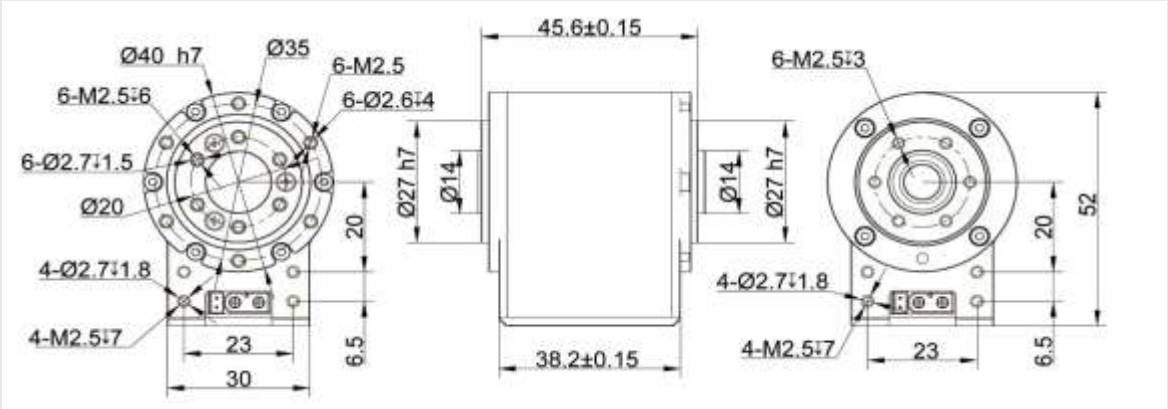
Model	Ø (mm)	Length (mm)	Weight (kg)	Ratio	Power (W)	Speed (rpm)	Torque (Nm)	Peak Torque
PP05	32mm	33.4mm	86g	6	35W	50rpm	0.2Nm	0.48Nm
PP08	40mm	52mm	189g	36	36W	50rpm	1.0Nm	2.2Nm
PP08D	40mm	48mm	199g	36	36W	50rpm	1.0Nm	2.2Nm
PP11	52mm	64mm	390g	36	60W	50rpm	6.6Nm	10Nm
PP11D	52mm	61mm	437g	36	60W	50rpm	6.6Nm	10Nm
PP11L	52mm	82mm	521g	36	72W	50rpm	10Nm	18Nm

Product Details

PP08



PP08D



PP11

Technical drawing of the PP11 component, showing three views: front view, side view, and top view.

Front View (Left):

- Outer diameter: $\varnothing 46$
- Inner diameter: $\varnothing 24$
- Central hole diameter: $\varnothing 16 \text{ H7}$
- 6 mounting holes: $6-\varnothing 3.2 \pm 0.1$
- 6-M3 holes
- 6-M3 ± 0.10 holes
- 6-M3 ± 0.1 holes

Side View (Middle):

- Overall length: 63.6 ± 0.20
- Inner diameter: $\varnothing 33 \text{ h7}$
- Outer diameter: $\varnothing 52 \text{ h7}$
- Flange thickness: 4 ± 0.10

Top View (Right):

- Outer diameter: $\varnothing 43$
- 4-M3 ± 0.20 holes

PP11D

PP11L

Technical drawing of the PP11L component, showing three views: front, side, and top.

Front View (Left): A circular flange with the following features:

- 6-M3 holes (outer ring)
- 6-Ø3.2 holes (inner ring)
- Ø16 H7 central hole
- Ø24 hole (inner ring)
- Ø46 outer diameter

Side View (Middle): A cross-section showing the component's profile with the following dimensions:

- Total length: 80.3 ± 0.20
- Flange thickness: 4 ± 0.10
- Internal hole diameter: $\varnothing 33 \text{ h7}$
- Outer diameter: $\varnothing 52 \text{ h7}$

Top View (Right): A circular cross-section showing the following features:

- 4-M3/20 holes (outer ring)
- Ø43 outer diameter

RL50

Reduction Method	Reverse Ball Screw
Lifespan	> 6200h
Temperature	-10-50°C
Noise	< 65 dB @1m
Encoder	18bit Dual Magnetic Encoder
Response Time	< 0.5ms
Certification	CE/UL
Protocol	CANFD

Model	Axial Length	Ø (mm)	Stroke Length	Lead of Push Rod	Weight (kg)	Maximum Speed	Torque (Nm)	Peak Torque (Nm)	Positioning Repeatability
RL50-C	125mm	32mm	35mm	2mm	252g	38.1mm/s	200N	500N	±0.01

RL50-C

Technical drawing of the RL50-C solenoid valve, showing dimensions and stroke points.

Dimensions:

- Stroke Zero Point: 124.7 ± 0.3
- Stroke Zero Point: 145.7 ± 0.3

Other dimensions shown include:

- Body diameter: $\varnothing 32.4$ mm
- Central section diameter: $\varnothing 30$ mm
- Mounting bracket diameter: $\varnothing 50.8$ mm
- Stroke length: 18.0 mm
- Angle: 10°
- Width: 8.1 mm