

**EYOU**  
意优科技

한국 대리점



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**EYOU**

Articulating a Smarter Future



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**Jiangsu EYOU Robotics Technology Co., Ltd**

Articulating a Smarter Future

# About EYOU

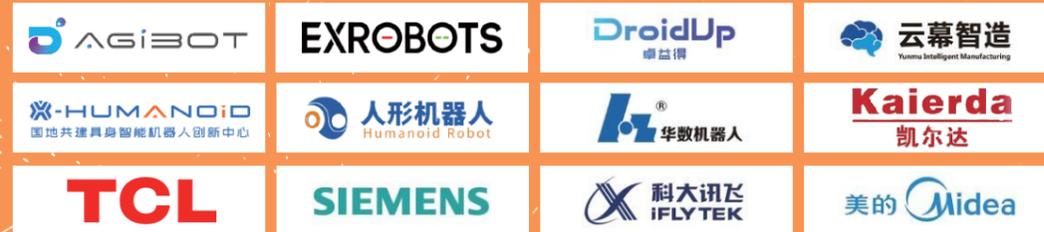
## Jiangsu EYOU Robotics Technology Co., Ltd

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.

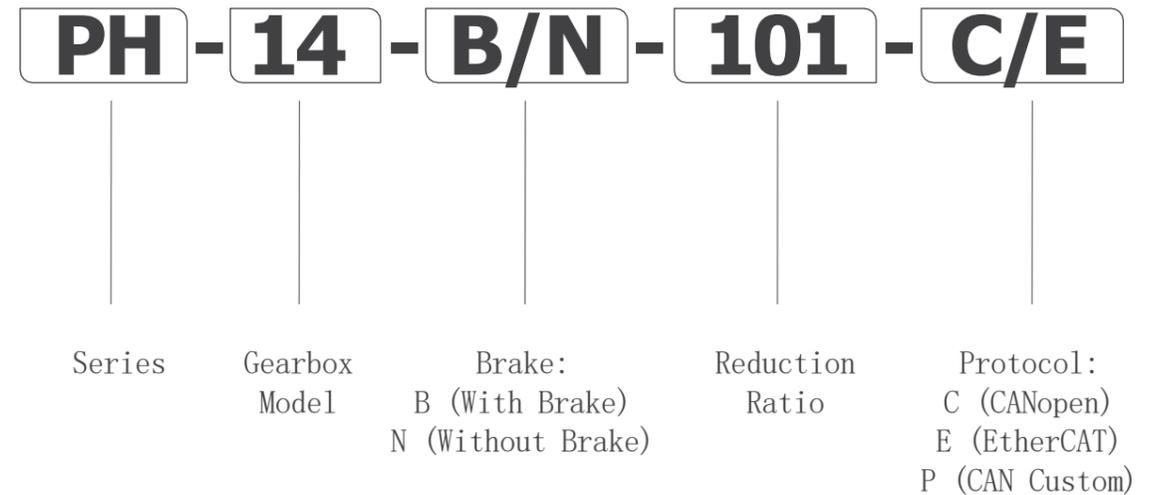
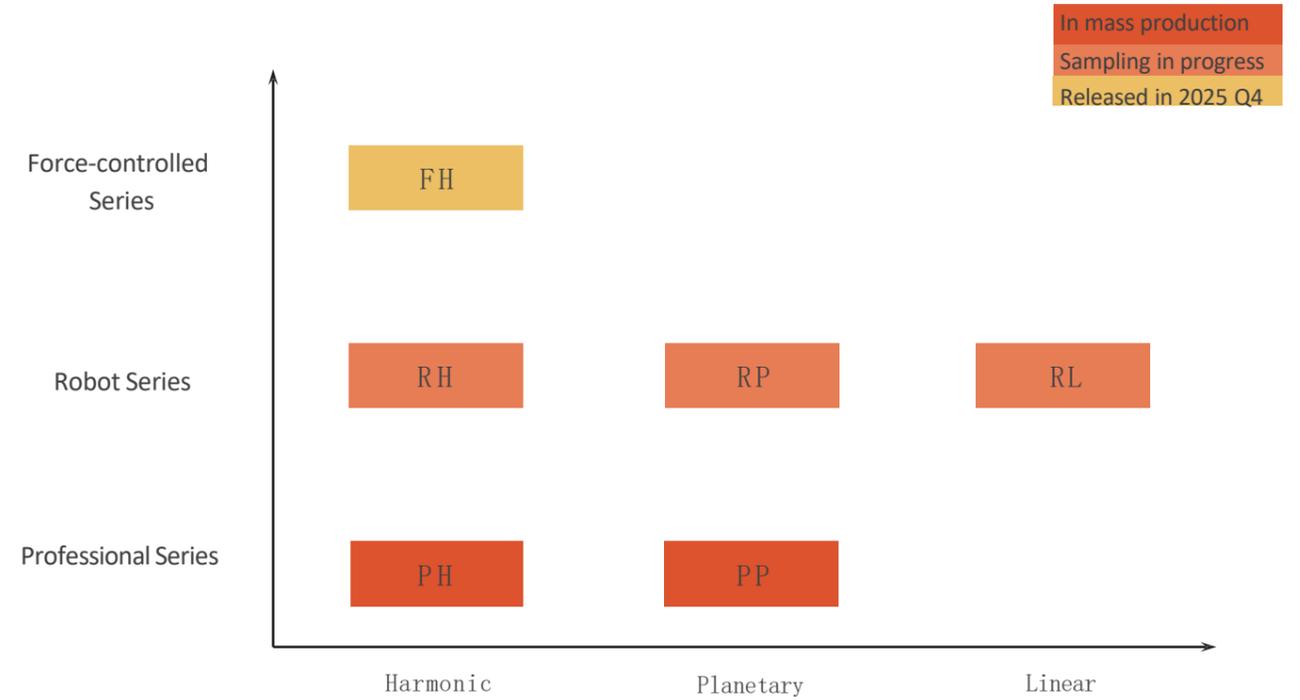
In 2024, EYOU has achieved annual sales of 30,000 joint module units, securing the top position in Chinese humanoid robot industry for harmonic joint module.

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)



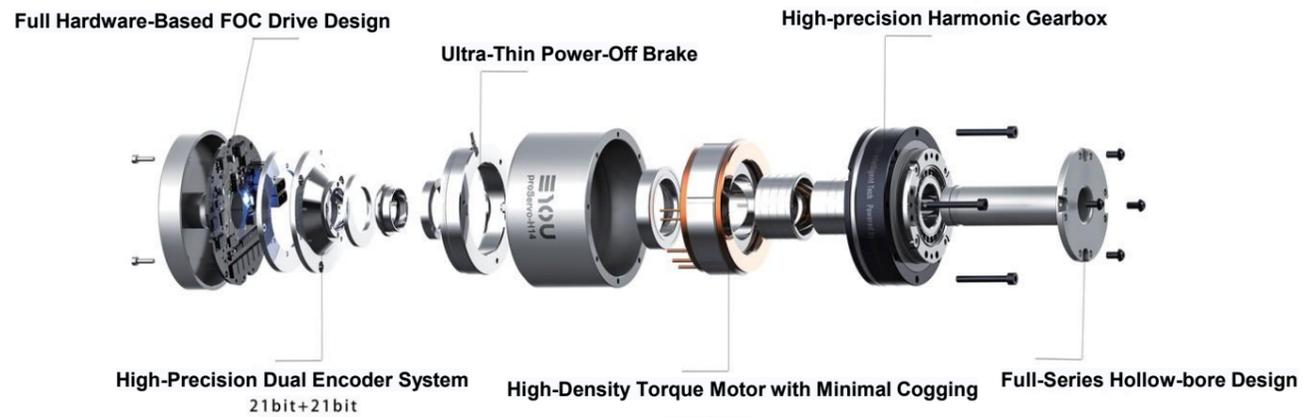
# EYOU Product Matrix



## 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	∅ (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	24V~36V	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~36V	51	50W	60rpm	3.5Nm	5.5Nm	8.3Nm	17 Nm
PH11-101			B:455g		101		30rpm	5 Nm	8.8Nm	11Nm	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			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			101		22rpm		84 Nm	133 Nm	194 Nm	351 Nm	
PH25-121			121		18rpm		84 Nm	133 Nm	207Nm	376 Nm	



## PHU Upgraded Harmonic 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	CAN FD + EtherCAT

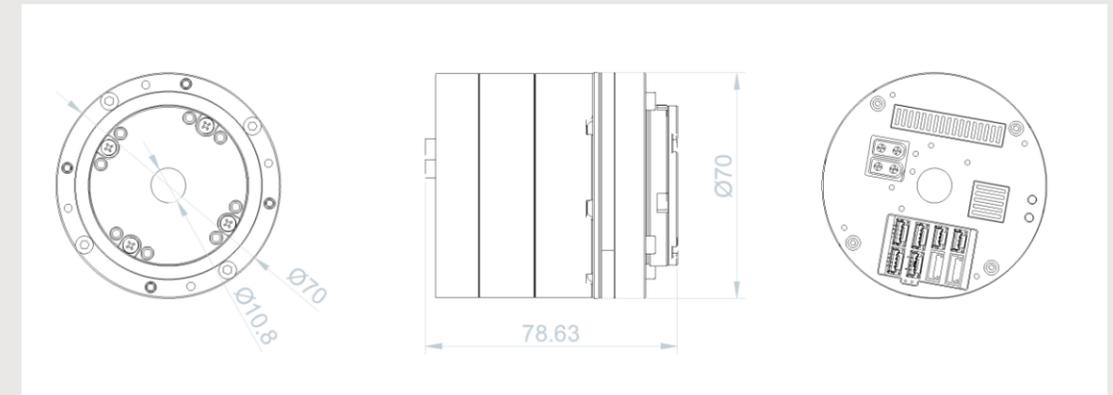
### Specification

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

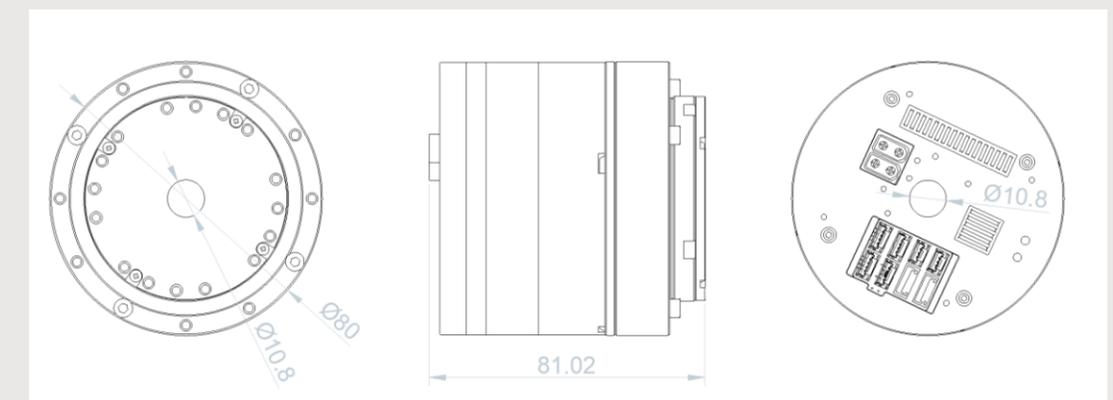
Model	Ø (mm)	Length (mm)	Bore (mm)	Weight (kg)	Power (W)	Speed (rpm)	Torque (Nm)	SSPT (Nm)	MALT (Nm)	IPMT (Nm)
PHU14-51	70mm	75.4mm	10.8mm	B:840g	105W	60rpm	6.6Nm	23Nm	8.6Nm	43Nm
PHU14-101						36rpm	9.6Nm	34Nm	13.5Nm	66Nm
PHU17-51	80mm	78mm	10.8mm	B:1204g	251W	60rpm	19.8Nm	42Nm	32Nm	86Nm
PHU17-101						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

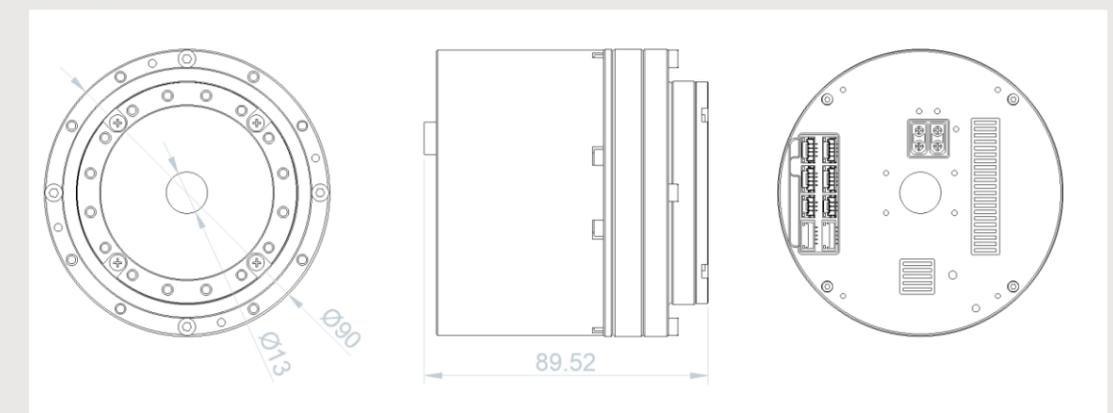
#### PHU14



#### 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

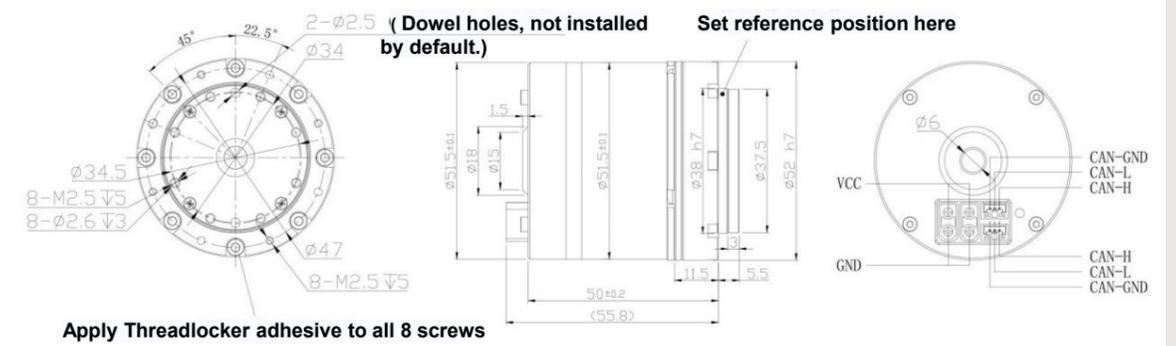
## Specification

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

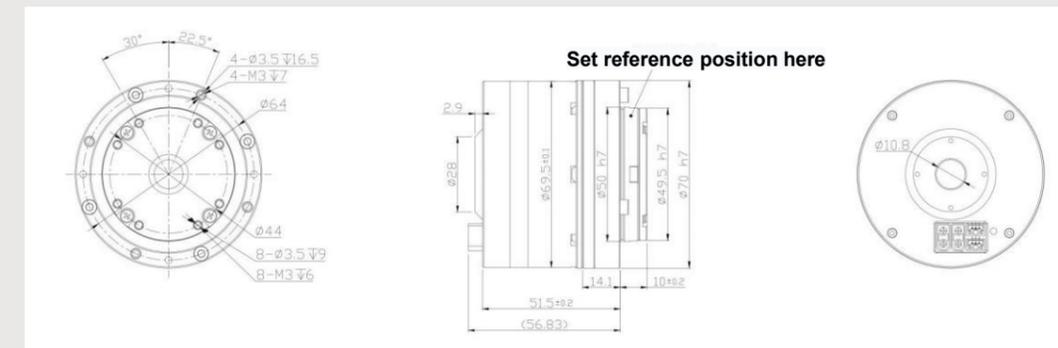
Model	∅ (mm)	Length (mm)	Bore (mm)	Weight (kg)	Power (W)	Speed (rpm)	Torque (Nm)	MALT (Nm)	SSPT (Nm)	IPMT (Nm)
PHA11-N-101-C	52 mm	61.3 mm	6 mm	375g	55W	30rpm	5 Nm	8.9Nm	11 Nm	33 Nm
PHA14-N-101-C	70 mm	66.8 mm	10.8 mm	645g	105W	30rpm	9.6Nm	13.5Nm	34 Nm	67 Nm
PHA17-N-101-C	80 mm	73.3 mm	10.8 mm	900g	151W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

## Product Details

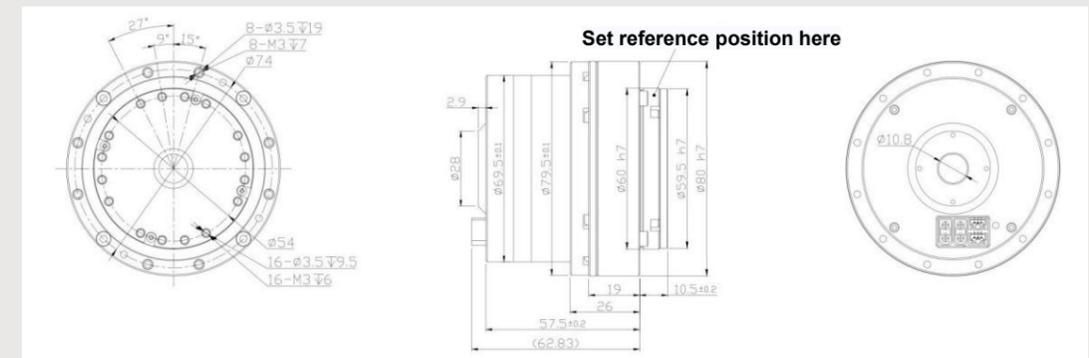
### PHA11-N-101-C



### PHA14-N-101-C



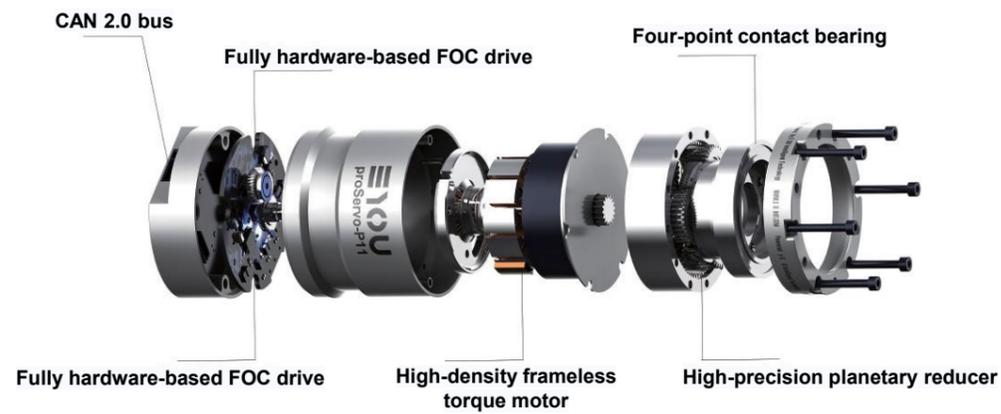
### PHA17-N-101-C



## PP Planetary Series



## Product Design



## Features

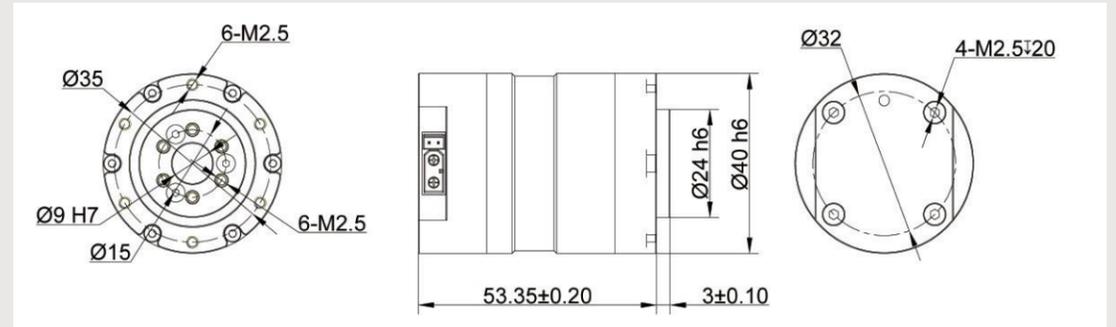
Motor	Brushless Torque Motor	Encoder	Dual Absolute Encoders
Noise	<60dB @ 1m	Voltage	24V
Temperature	-20-80°C	Protection	IP54
Backlash	12 arcmin	Protocol	CAN

## Specification

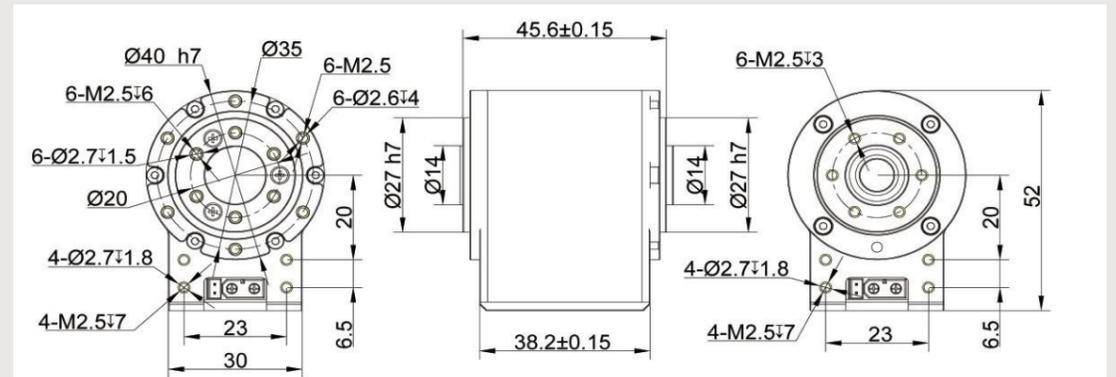
Model	Ø (mm)	Length (mm)	Weight (kg)	Ratio	Power (W)	Speed (rpm)	Torque (Nm)	Peak Torque
PP05	32mm	33.4mm	86g	6	35W	50rpm	0.2Nm	0.48Nm
PP08	40mm	52mm	189g	36	36W	50rpm	1.0Nm	2.2Nm
PP08D	40mm	48mm	199g	36	36W	50rpm	1.0Nm	2.2Nm
PP11	52mm	64mm	390g	36	60W	50rpm	6.6Nm	10Nm
PP11D	52mm	61mm	437g	36	60W	50rpm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

## Product Details

### PP08

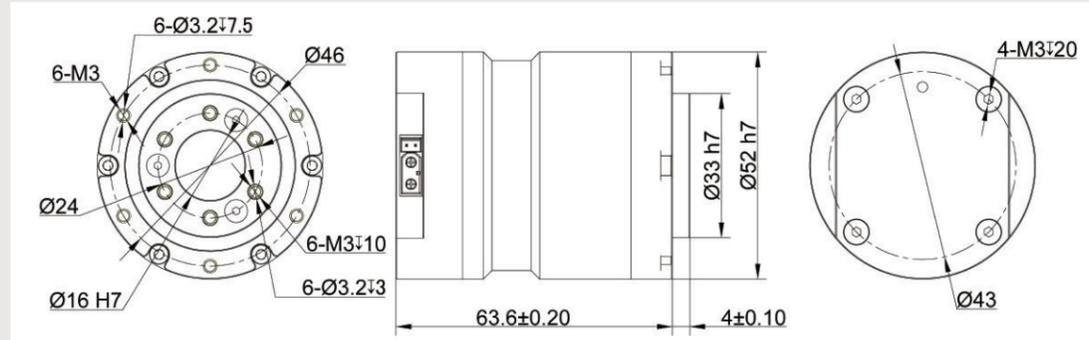


### PP08D

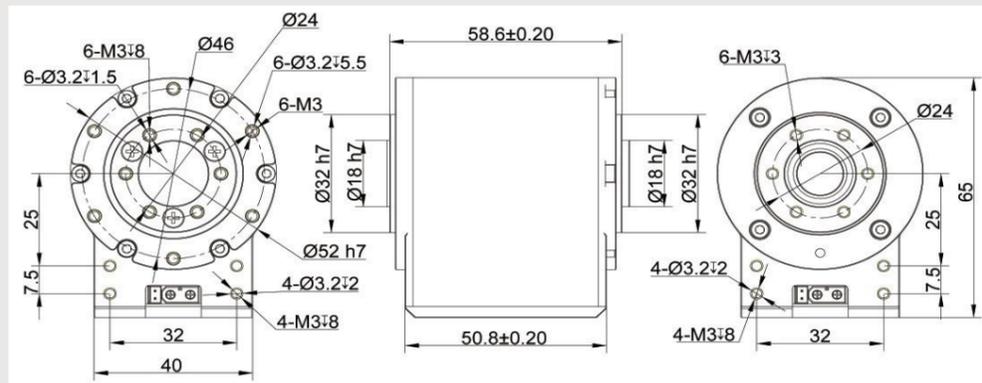


## Product Details

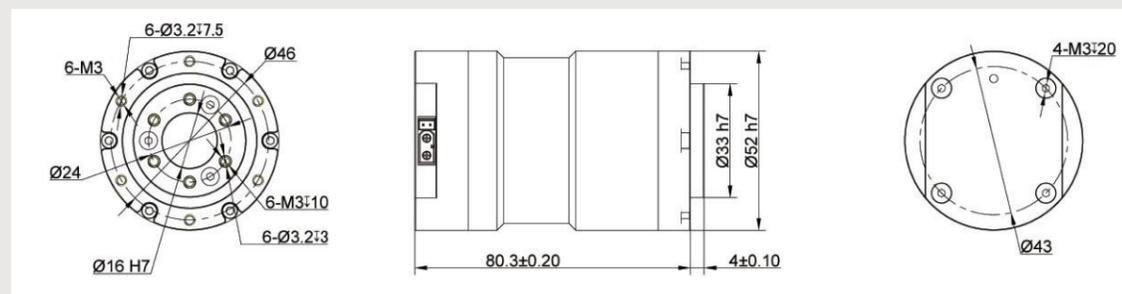
### PP11



### PP11D



### PP11L



## RL Planetary Ball Screw Linear Series



RL50

## Features

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

## Specification

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

## Product Details

### RL50-C

