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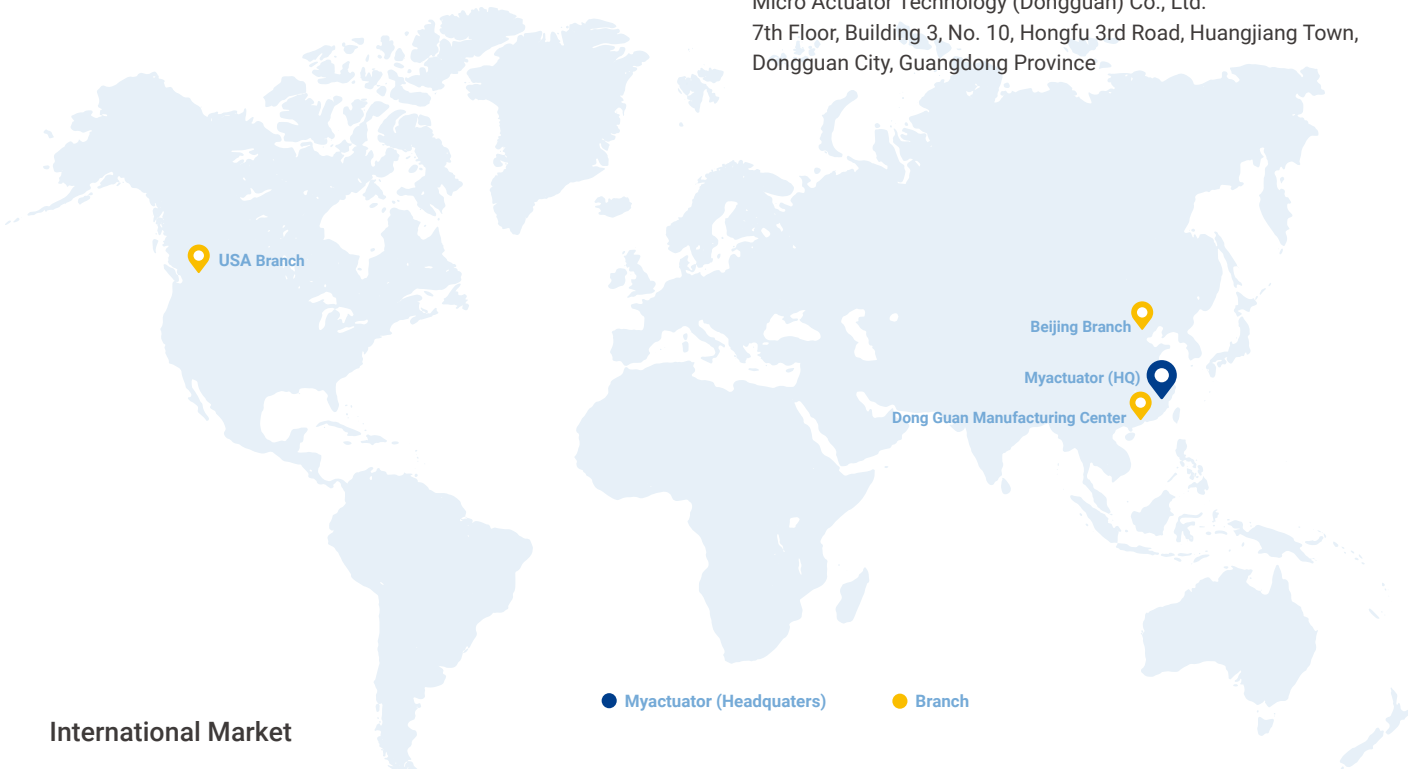
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International Market



whatsapp



EN website



Youtube

Domestic Market



Sales Manager



CN website



WeChat Official Account

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2026 CATALOG

RMD-X V4.1 Series Planetary Actuator For 2026

RMD-X V4 Series Planetary Actuator

RH Series Harmonic Actuator

HM Series Harmonic Mini Actuator

CEM Series Cycloidal Actuator

H Series Hollow Direct Drive Actuator

FL Series Frameless Motor

FLO Series Frameless Motor

Micro Servo · Robot Solutions
All Support Customization



Company Profile

As an innovation-driven micro-power system technology company, MYACTUATOR is committed to becoming a globally renowned provider of integrated intelligent power solutions for various robots, accelerating their application across numerous industries and bringing them into households worldwide.

Suzhou Micro Actuator Technology Co., Ltd. was established in 2020 and is a key technology-based enterprise in Suzhou. It has won honors such as "JiangSu Science-based SMEs", "Suzhou Talent Science and Technology Innovation Enterprise, Kunshan Science and Technology Talent Enterprise", and "High-tech Enterprise",etc.

MYACTUATOR currently has more than 120 technical talents of various types, more than 30 technical patents, forming more than 100 product models, with a comprehensive operation area of more than 7,000 square meters, with perfect motor design and development, manufacturing and testing equipment and advanced quality management concepts.

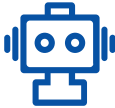


Embodied Robotics Micro Power System Solution

Contents

Company Profile	P01
Application Industry	P02
Micro Actuator	
RMD-X V4.1 Series Planetary Actuator For 2026	P03
RMD-X V4 Series Planetary Actuator	P05
RH Series Harmonic Actuator	P07
HM Series Harmonic Mini Actuator	P09
CEM Series Cycloidal Actuator	P11
H Series Hollow Direct Drive Actuator	P13
FLSeries Frameless Motor	P15
FLO Series Frameless Motor	P17
Robot Arm Solution	
GP2-51-90-E Gripper	P19
GP2-53-120-E Gripper	P20
RB-A850-10 Robot Arm	P21
RB-C002 Controller	P22

Applications



Robotic Applications



Healthcare



Agriculture



Industrial Automation



Smart warehousing



Other industries

RMD-X V4.1 Series Planetary Actuator For 2026

Special Series For Robot

Front and rear installation / Dual outlet / Hollow Design / EtherCAT V4.1



Product Parameters

Parameters	Unit	X2-3	X2-7-L	X4-10-L	X4-36-L	X5-50	X6-50-L	X8-150	X10-200
Gear ratio	-	9	28.17	12.5	36	25.2	19.61	19.61	20
Rated Voltage	V	48	24	24	24	48	48	48	48
Rated Power	W	41.8	37	100	100	180	320	574	465
Rated Torque	N.m	0.9	2.5	4	10.5	14.5	20	43.0	60
Rated Speed	RPM	444	142	238	83	120	153	127	74
Peak Torque	N.m	3	7	10	34	45	50	150	200
No Load Speed	RPM	666	178	317	111	130	176	158	80
Torque constant	N.m/A	0.6	0.8	0.8	1.9	2.9	2.1	2.4	4.6
Back-EMF Constant	Vdc/Krpm	12	4.3	6	6	15.9	16	19.2	24.94
Efficiency	%	58	63	69.5	63.1	76	72.7	79.0	74
Control Accuracy	Degree	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Inertia	Kg.cm²	/	0.17	0.25	/	/	0.66	1.5	/
Weight	Kg	0.23	0.26	0.33	0.36	0.75	0.78	1.33	1.64
Communication	—	CAN BUS		EtherCAT & CAN BUS					
Encoder	—	Dual Encoder							
Interface	—	ABS-14BIT/14BIT	ABS-17BIT/18BIT			ABS-17BIT/19BIT			
Voltage Range	V	20-55							

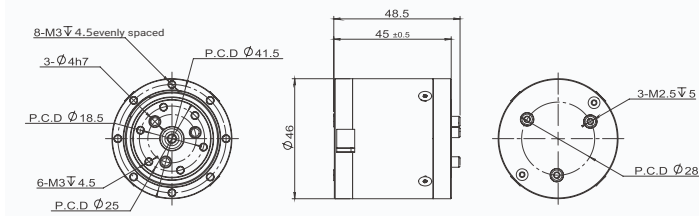
Note:

- 1.The maximum operating voltage of the motor is 55V. It is recommended that customers add an external capacitor to regulate voltage, so as to ensure stable battery power supply and protect the PCB from damage caused by voltage fluctuations.
2. If voltage exceeds the rated value, the operating speed must not exceed the motor's rated speed.

Installation Drawing

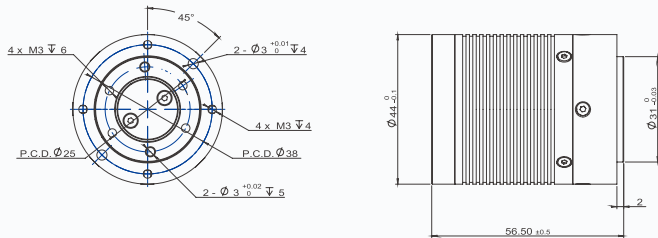
X2-3

RMD-X2-P9-3-C



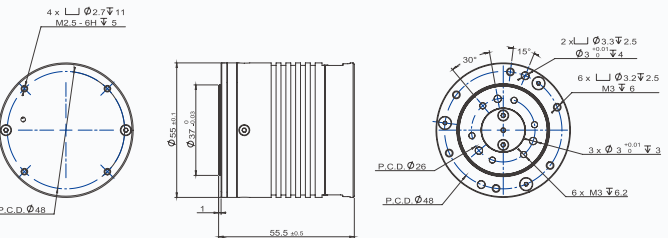
X2-7-L

RMD-X2-P28-7-C-Lite



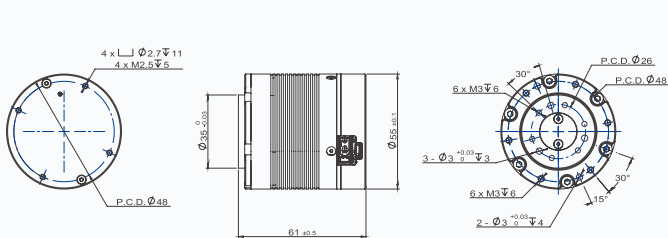
X4-10-L

RMD-X4-P12-10-E-L



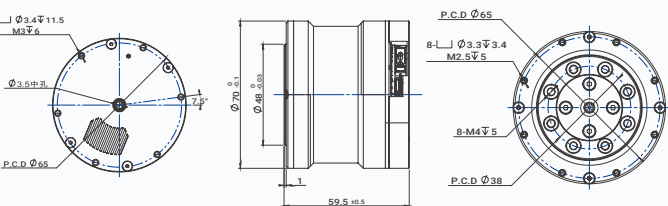
X4-36-L

RMD-X4-P36-36-E-L



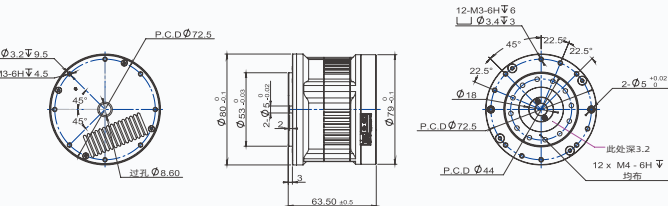
X5-50

RMD-X5-P25-50-E



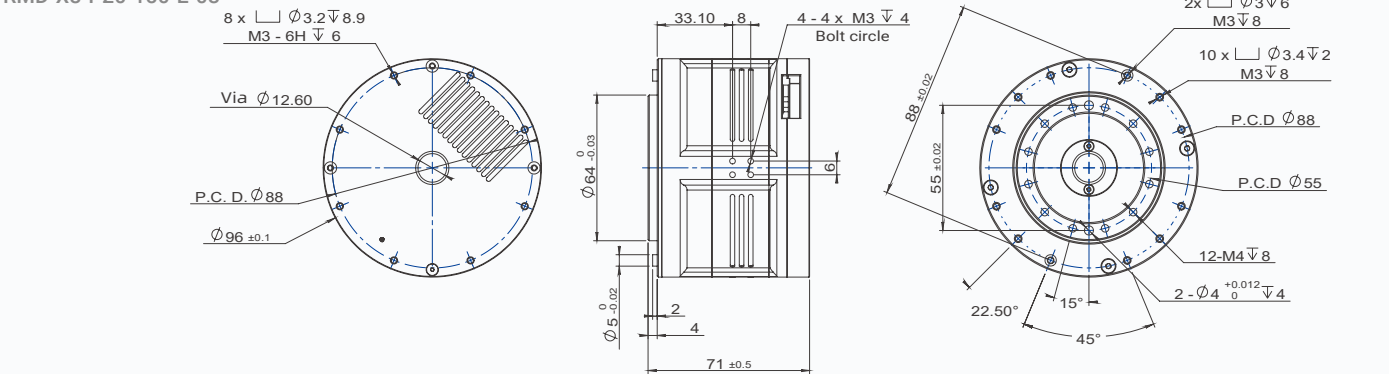
X6-50-L

RMD-X6-P20-50-E-L



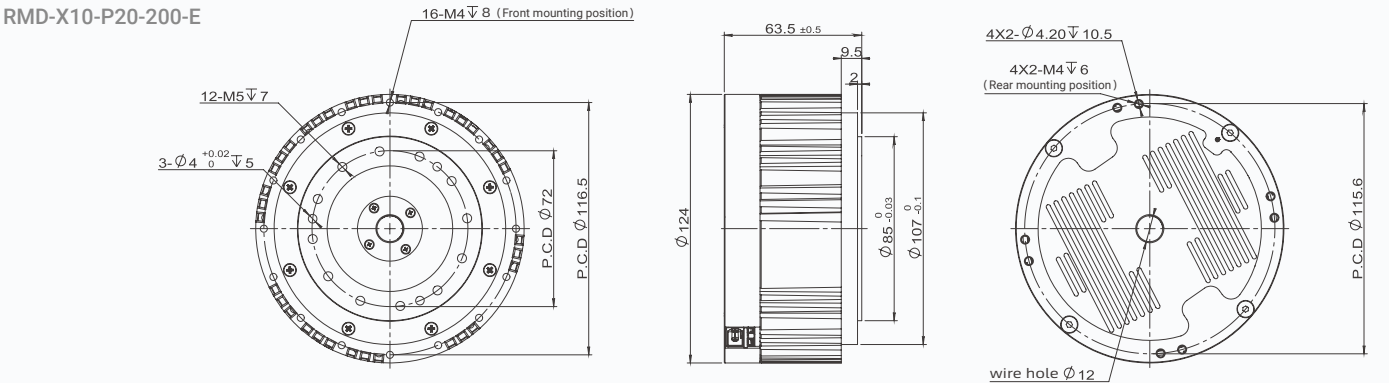
X8-150

RMD-X8-P20-150-E-03



X10-200

RMD-X10-P20-200-E



RMD-X V4 Series Planetary Actuator

Special Series For Robot

Dual Encoder / Hollow Design / CAN BUS / EtherCAT RMD-V4

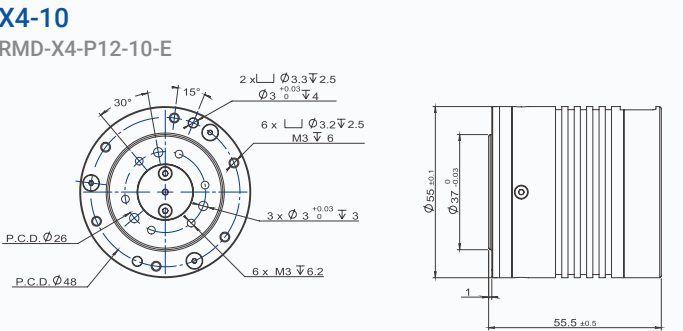
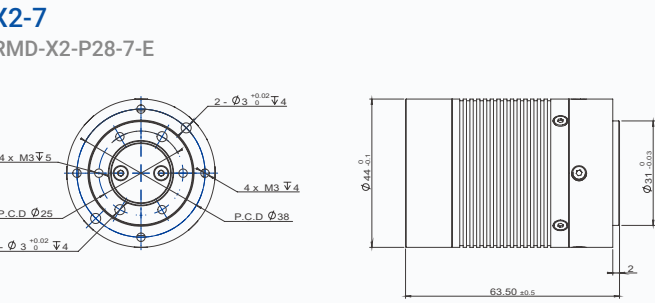


Product Parameters

Parameters	Unit	X2-7	X4-10	X4-36	X6-60	X8-32	X8-120	X12-320	X15-450
Gear ratio	-	28.17	12.5	36	19.61	9	19.61	20	20.25
Rated Voltage	V	24	24	24	48	24	48	48	72
Rated Power	W	37	100	100	320	204	574	900	1480
Rated Torque	N.m	2.5	4.0	10.5	20.0	8	43.0	85	145
Rated Speed	RPM	142	238	83	153	244	127	100	98
Peak Torque	N.m	7	10	34	60	32	120	320	450
No Load Speed	RPM	178	317	111	176	277	158	125	108
Torque constant	N.m/A	0.8	0.8	1.9	2.1	1.3	2.4	3.3	5.8
Back-EMF Constant	Vdc/Krpm	4.3	6.0	6.0	16.0	10.9	19.2	17.9	29.9
Efficiency	%	63	69.5	63.1	72.7	82	79.0	75	82.4
Control Accuracy	Degree	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Inertia	Kg.cm²	0.17	0.25	0.3	0.66	1.43	1.5	12.9	31.6
Weight	Kg	0.26	0.33	0.36	0.82	0.53	1.40	2.37	3.50
Communication	—	EtherCAT & CAN BUS				RS485	EtherCAT & CAN BUS		
Encoder	—	Dual Encoder				Single Encoder	Dual Encoder		
Interface	—	ABS-17BIT/18BIT			ABS-17BIT/17BIT	ABS-18BIT	ABS-17BIT/17BIT		
Voltage Range	V	20-55					20-70	20-80	

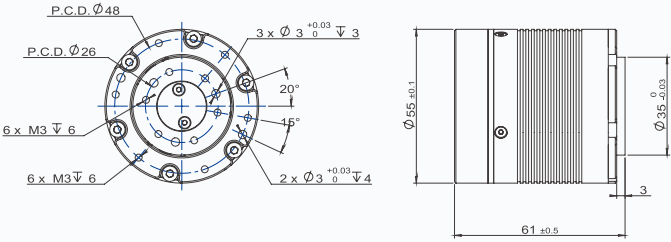
- Note:
- 1.The maximum operating voltage of the motor is 55V. It is recommended that customers add an external capacitor to regulate voltage, so as to ensure stable battery power supply and protect the PCB from damage caused by voltage fluctuations.
 2. If voltage exceeds the rated value, the operating speed must not exceed the motor's rated speed.

Installation Drawing



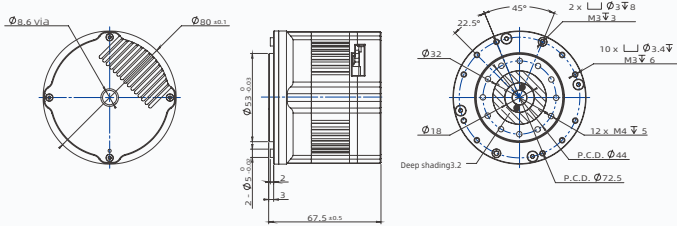
X4-36

RMD-X4-P36-36-E



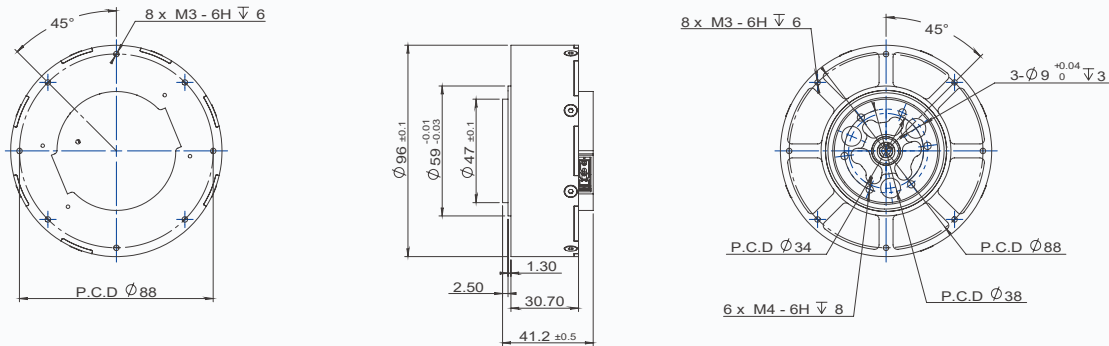
X6-60

RMD-X6-P20-60-E



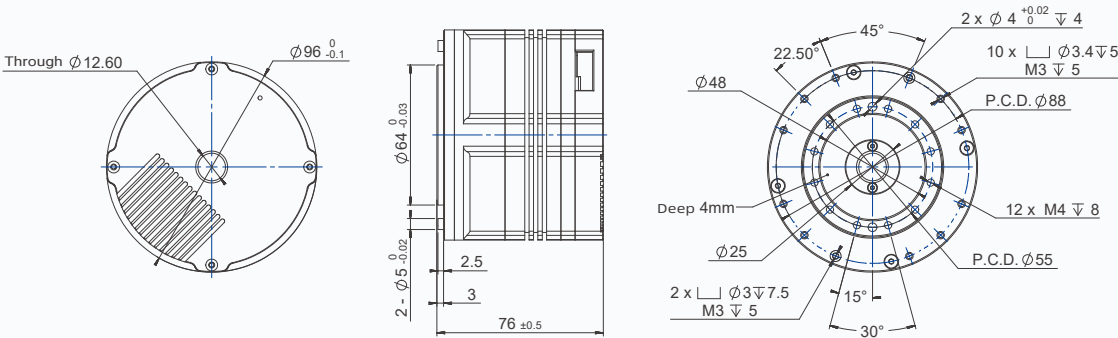
X8-32

RMD-X8-P9-32-R



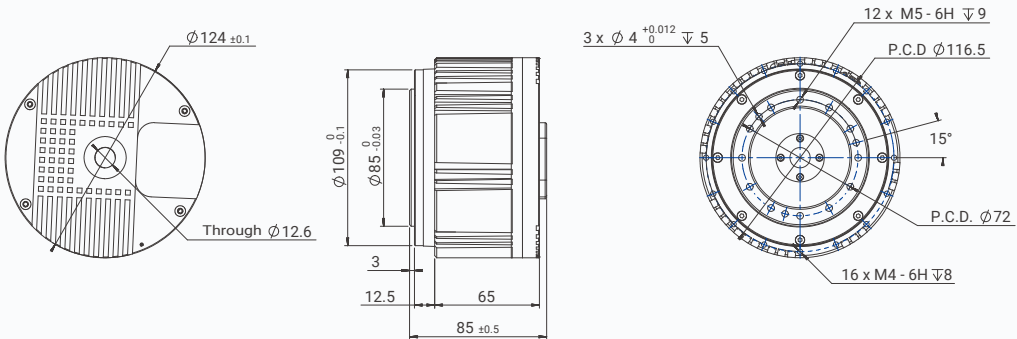
X8-120

RMD-X8-P20-120-E



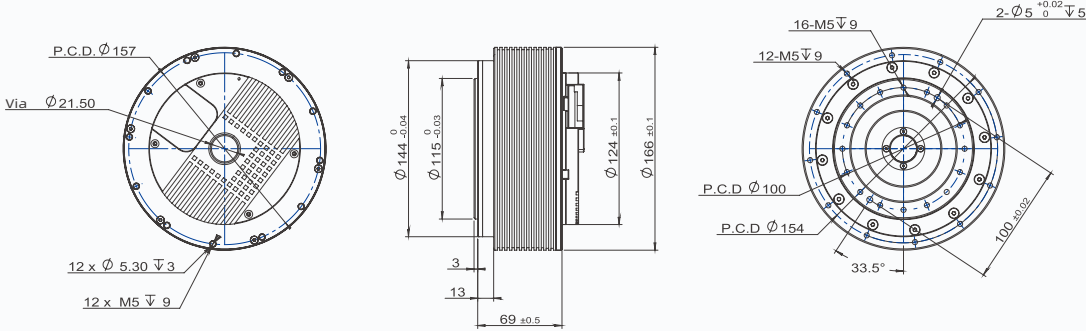
X12-320

RMD-X12-P20-320-E



X15-450

RMD-X15-P20-450-E



RH Series Harmonic Actuator

Dual Encoder / CAN BUS / EtherCAT **EPS-RH**



Product Parameters

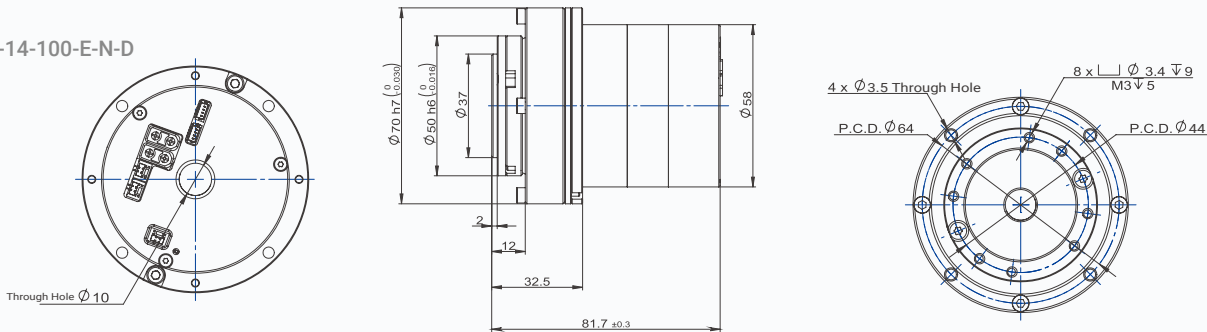
Parameters		Unit	RH-14	RH-17	RH-20	RH-25	RH-32
Gear ratio		—	50 100	50 100	50 100	50 100	50 100
Rated Voltage		V	48	48	48	48	48
Rated Power		W	28	91	130	282	282
Rated Torque		N.m	5.5 11	17.5 35	25 50	54 108	75 150
Rated Speed		RPM	50 25	50 25	50 25	50 25	36 18
Peak Torque		N.m	14 28	27 54	40 80	78.5 157	114.5 229
No Load Speed		RPM	60 30	60 30	60 30	60 30	40 20
Torque constant		N.m/A	2 4	3.7 7.4	3.65 7.3	5.05 10.1	3.45 6.9
Back-EMF Constant		Vdc/Krpm	19.2	19.2	19.2	19.2	26.7
Efficiency		%	—	—	—	—	—
Control Accuracy		Degree	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Inertia	N	kg.cm ²	0.11 0.29	0.16 0.52	0.21 0.87	0.51 1.94	0.82 6.86
	B	kg.cm ²	—	0.18 0.56	0.24 0.95	0.59 2.32	2.05 8.32
Weight	N	Kg	0.78	1.11	1.45	2.42	4.32
	B	Kg	/	1.28	1.75	2.74	4.74
Communication		—	CAN BUS /EtherCAT				
Encoder		—	Dual Encoder ABS-17bit/ABS-17bit				
Voltage Range		V	20-55				

- Note:
- 1.The maximum operating voltage of the motor is 55V. It is recommended that customers add an external capacitor to regulate voltage, so as to ensure stable battery power supply and protect the PCB from damage caused by voltage fluctuations.
 2. If voltage exceeds the rated value, the operating speed must not exceed the motor's rated speed.

Installation Drawing

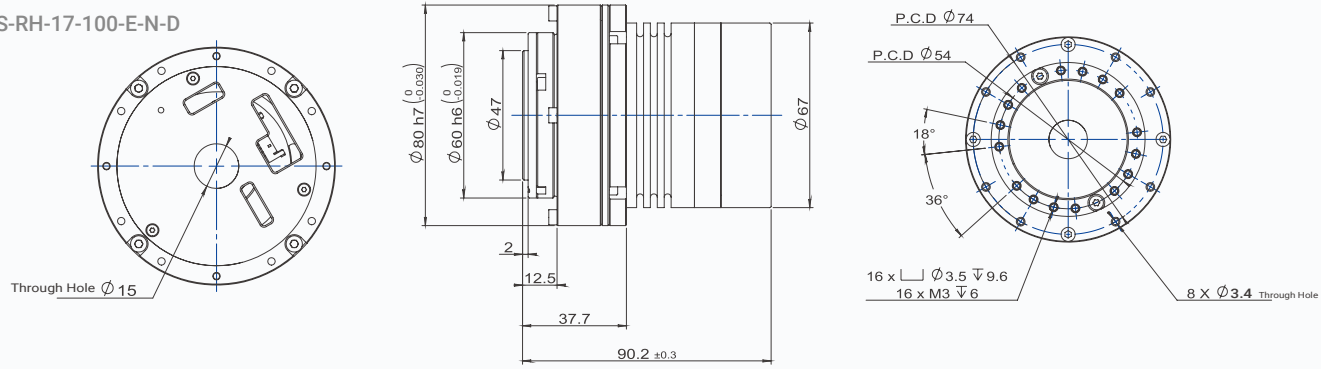
RH-14

EPS-RH-14-100-E-N-D



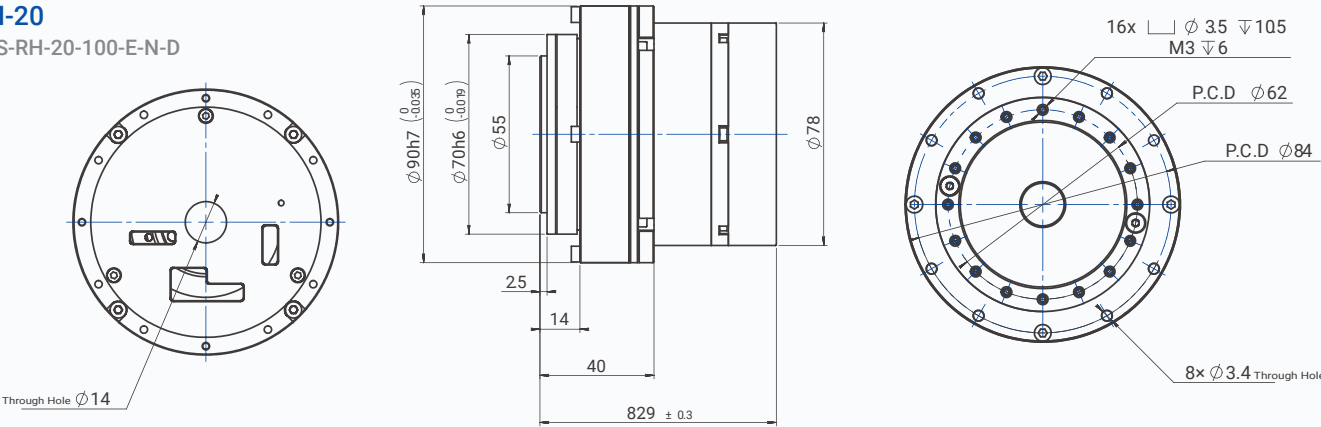
RH-17

EPS-RH-17-100-E-N-D



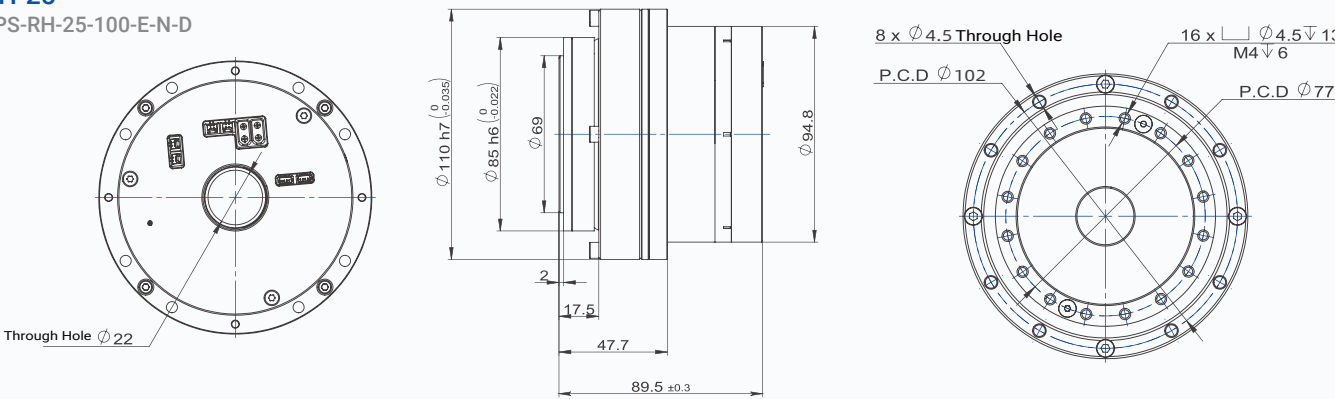
RH-20

EPS-RH-20-100-E-N-D



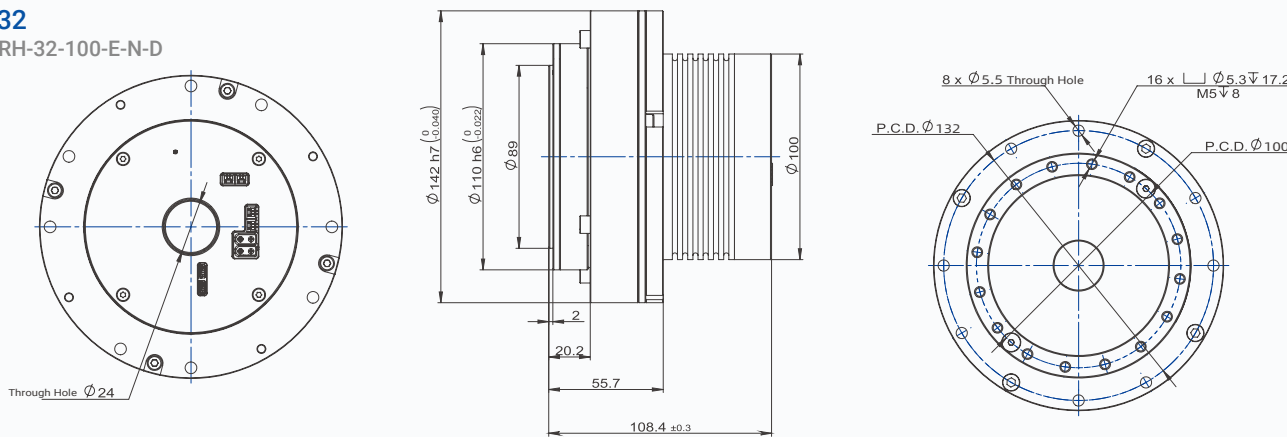
RH-25

EPS-RH-25-100-E-N-D



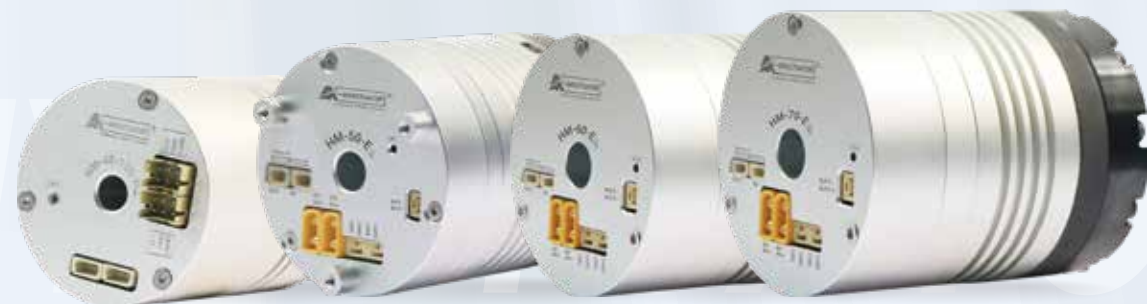
RH-32

EPS-RH-32-100-E-N-D



HM Series Harmonic Mini Actuator

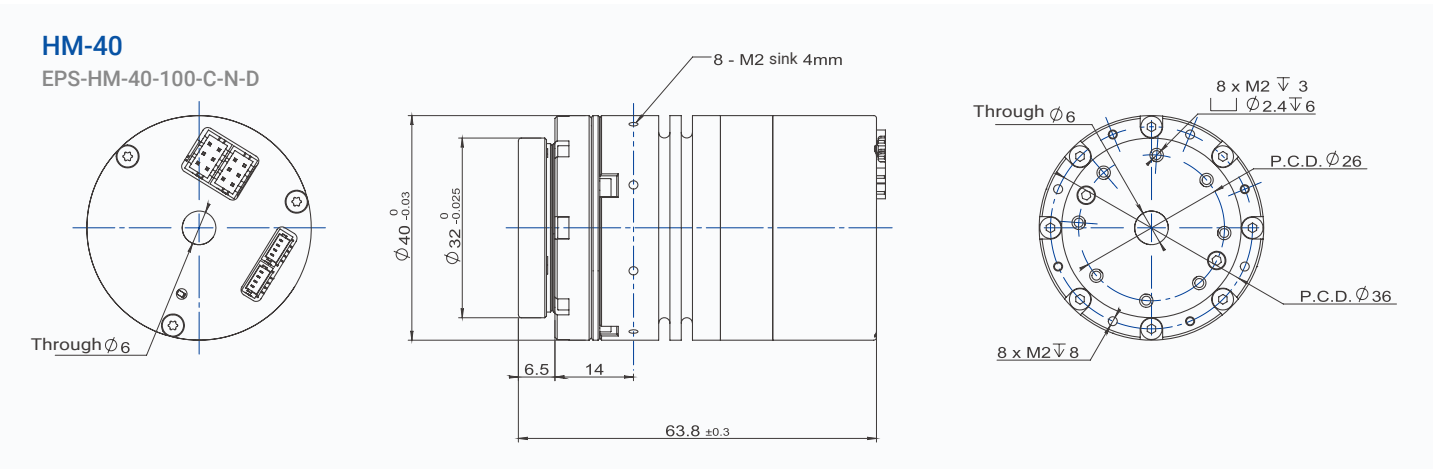
Hollow Design / EtherCAT / Dual encoder EPS-HM



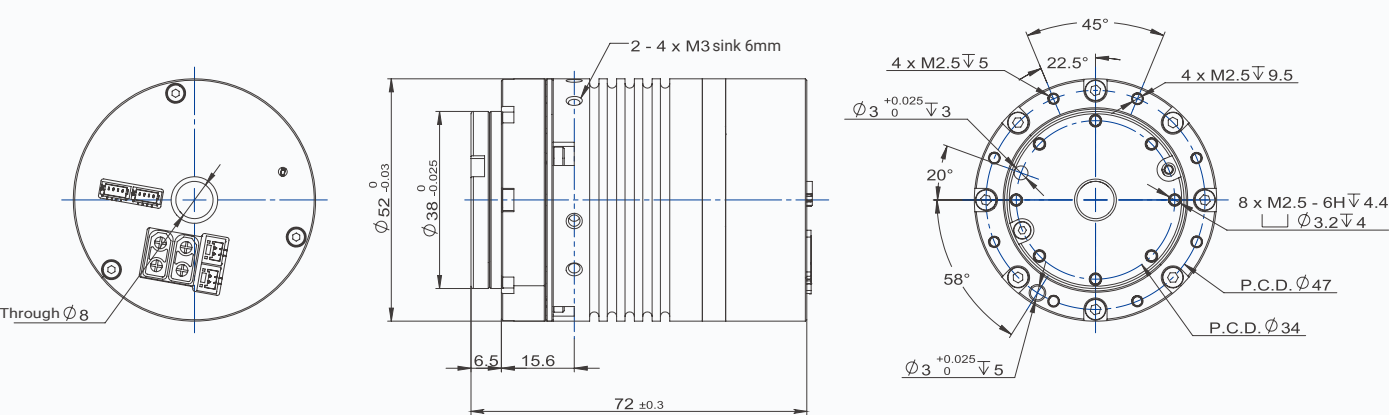
Product Parameters

Parameters	Unit	HM-40	HM-50	HM-60	HM-70
Gear ratio	—	100	80	100	100
Rated Voltage	V	48	48	48	48
No Load Speed	RPM	50	50	25	25
Rated Speed	RPM	30	40	20	20
Rated Torque	N.m	3.5	8	15	26
Rated Power	W	11	33	31	55
Peak Torque	N.m	10	25	37	65
Back-EMF Constant	Vdc/Krpm	16	15	24	24
Torque constant	N.m/A	/	5.84	3	5.17
Efficiency	%	/	/	/	/
Inertia	kg.cm ²	/	0.29	0.1	0.32
Encoder	—	Dual Encoder			
Interface	—	ABS-17BIT/17BIT			
Repeat Position Accuracy	Degree	<0.01			
Communication	—	CAN BUS	CAN BUS / EtherCAT		
Weight	Kg	0.2	0.4	0.65	0.92

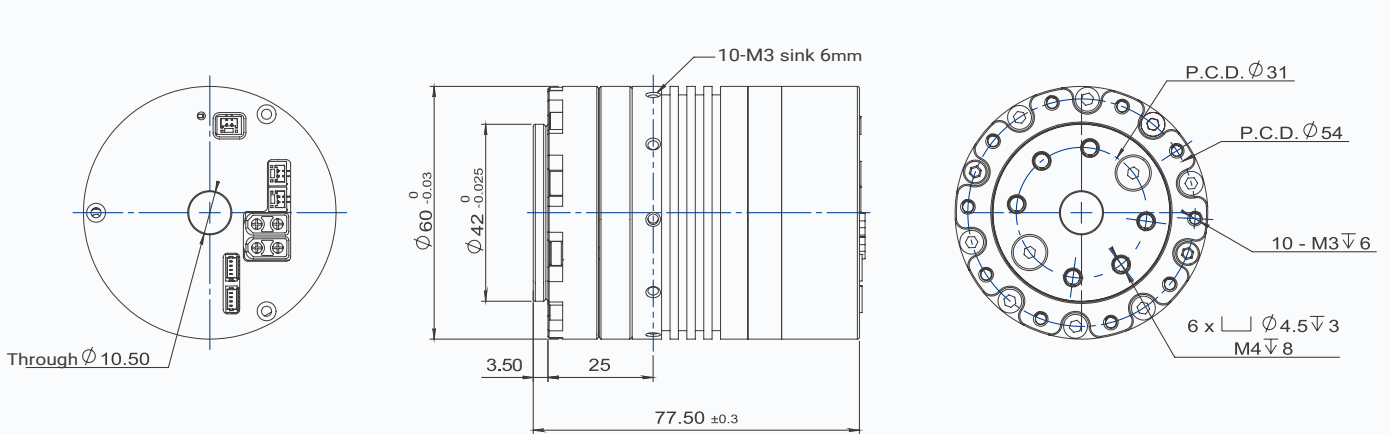
Installation Drawing



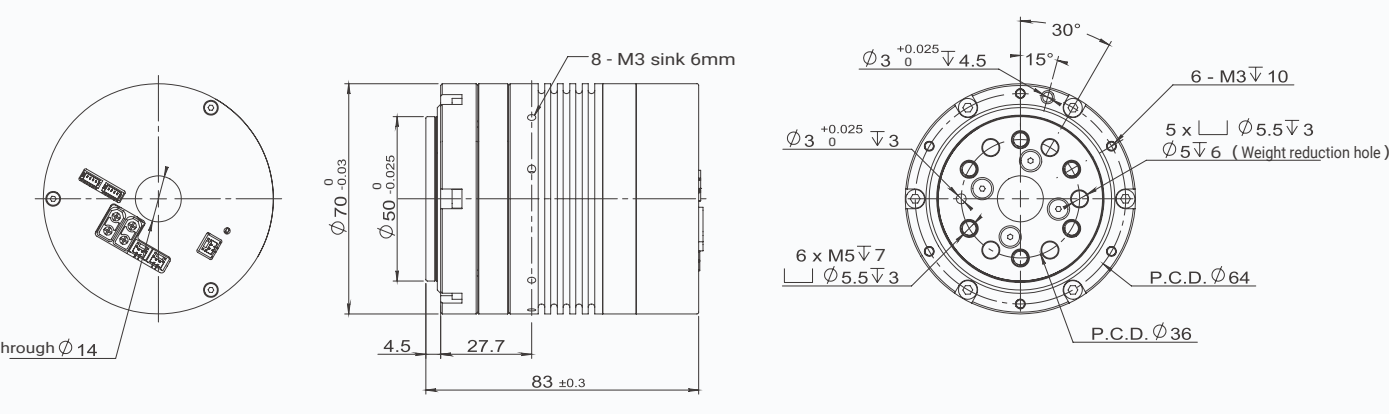
HM-50
EPS-HM-50-80-E-N-D



HM-60
EPS-HM-60-100-E-N-D



HM-70
EPS-HM-70-100-E-N-D



CEM Series Cycloid Actuator

Dual Encoder / CAN BUS / EtherCAT EPS-CEM



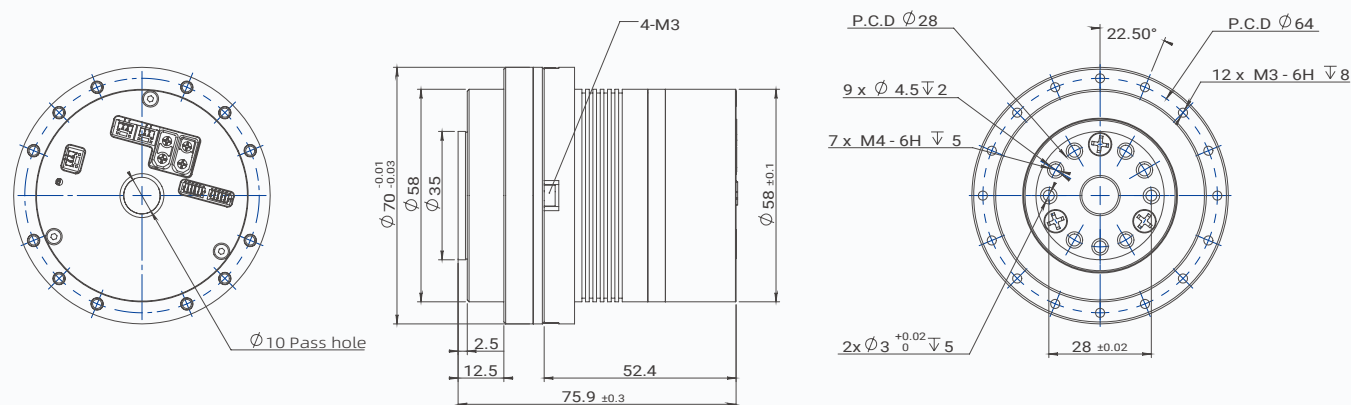
Product Parameters

Parameters	Unit	CEM-15	CEM-25	CEM-45
Gear Ratio	—	30	30	30
Input Voltage	V	48	48	48
No Load Speed	RPM	170	130	100
Rated Speed	RPM	140	100	80
Rated Torque	N.m	9	15	25
Rated Output Power	W	132	157	210
Rated Phase Current	A(rms)	2.3	2.6	5.7
Peak Torque	N.m	15	25	45
Peak Phase Current	A(rms)	6.5	7.2	16.8
Motor Back-EMF Constant	Vdc/Krpm	5.58	8.37	9.77
Module Torque Constant	N.m/A	2.4	3.6	4.2
Motor Phase Resistance	Ω	0.62	0.7	0.25
Motor Phase Inductance	mH	0.43	0.47	0.38
Pole Pair	—	10	10	10
3 Phase Connection	—	Y	Y	Y
Backlash	Arcmin	<5	<5	<5
Max axial load	KN	1	1	1
Max radial load	KN	2	2	2
Inertia	Kg.cm ²	0.7	0.7	0.7
Encoder Type	—	ABS-17bit (Input) /17bit (Output)		
Repeat Position Accuracy	Degree	< 0.01	< 0.01	< 0.01
Communication	—	CAN BUS & EtherCAT	CAN BUS & EtherCAT	CAN BUS & EtherCAT
Weight	Kg	0.81	0.94	1.09
Insulation Grade	—	F	F	F

Installation Drawing

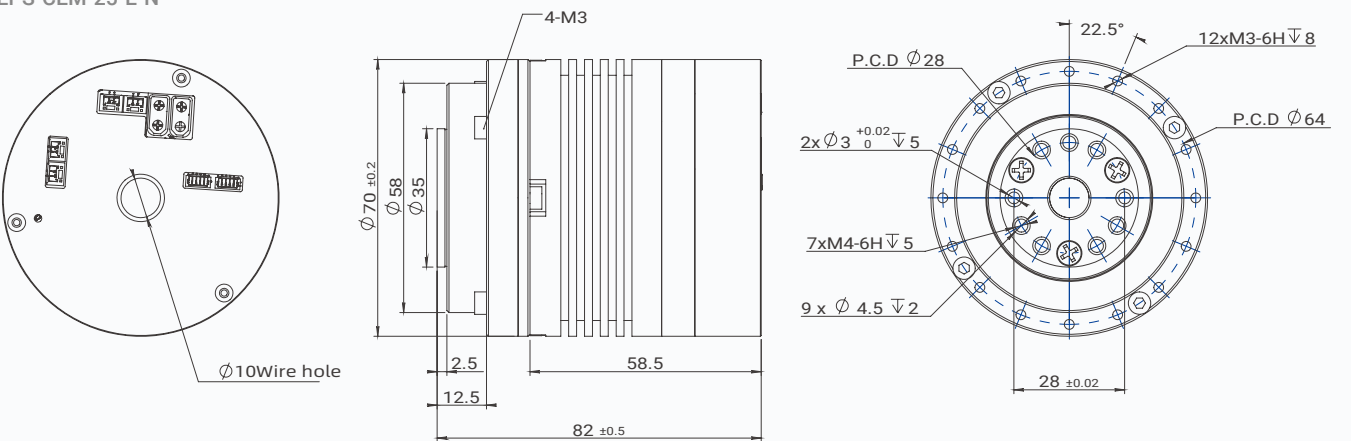
CEM-15

EPS-CEM-15-E-N



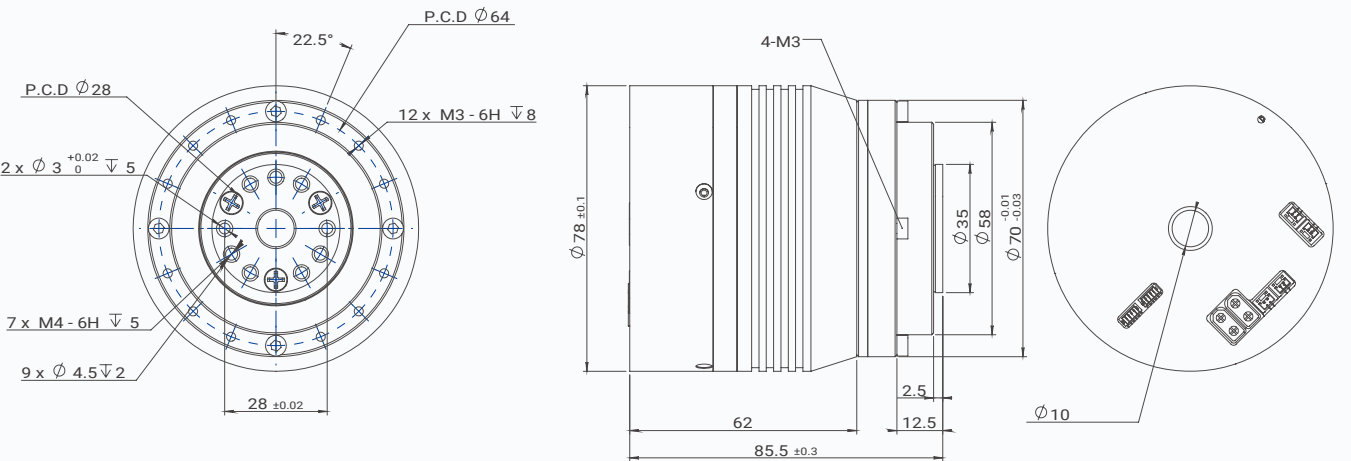
CEM-25

EPS-CEM-25-E-N



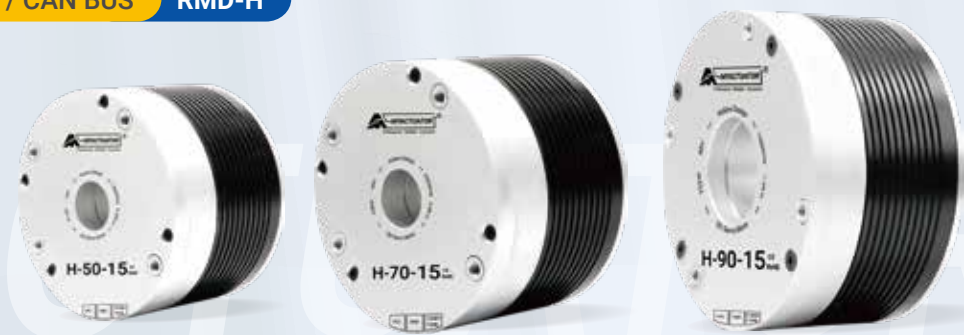
CEM-45

EPS-CEM-45-E-N



H Series Hollow Direct Drive Actuator

Hollow Design / Single Encoder / CAN BUS RMD-H
Outer Rotor



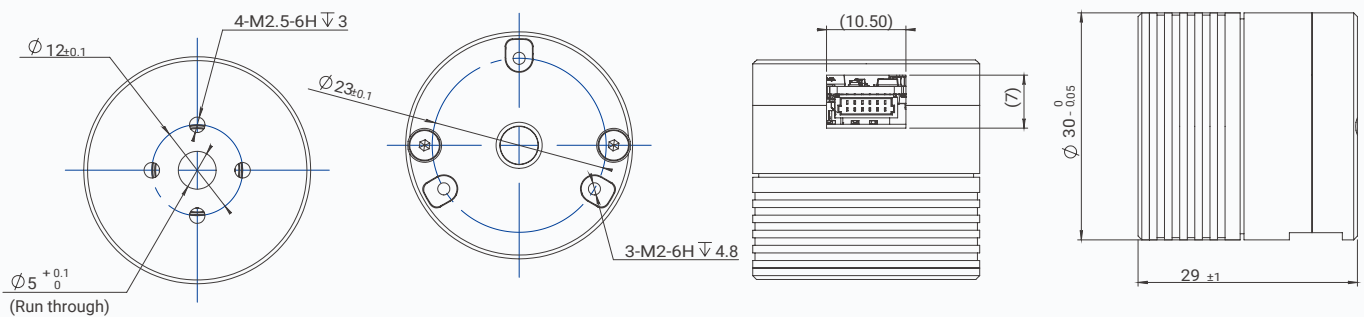
Product Parameters

Parameters	Unit	H-30-08	H-35-10	H-40-15	H-50-15	H-70-15	H-90-15
Rated Voltage	V	24	24	24	24	48	48
Rated Power	W	15	30	47	91.6	200	252
Rated Torque	N.m	0.03	0.1	0.15	0.35	0.8	1.5
Rated Speed	RPM	5000	3000	3000	2500	2400	1600
Peak Torque	N.m	0.1	0.3	0.3	0.9	2	3.75
No Load Speed	RPM	6000	3700	3700	3200	2800	2000
Torque constant	N.m/A	0.03	0.06	0.03	0.07	0.18	0.23
Back-EMF Constant	Vdc/Krpm	4.8	8	8	7.93	17	21.1
Efficiency	%	>60%	>60%	>64%	>83%	>84%	>83%
Control Accuracy	Degree	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Inertia	Kg.cm ²	0.15	0.23	0.29	0.57	1.80	4.20
Weight	Kg	—	—	0.2	0.24	0.47	0.71
Communication	—	CAN BUS					
Encoder	—	ABS-17bit					

Installation Drawing

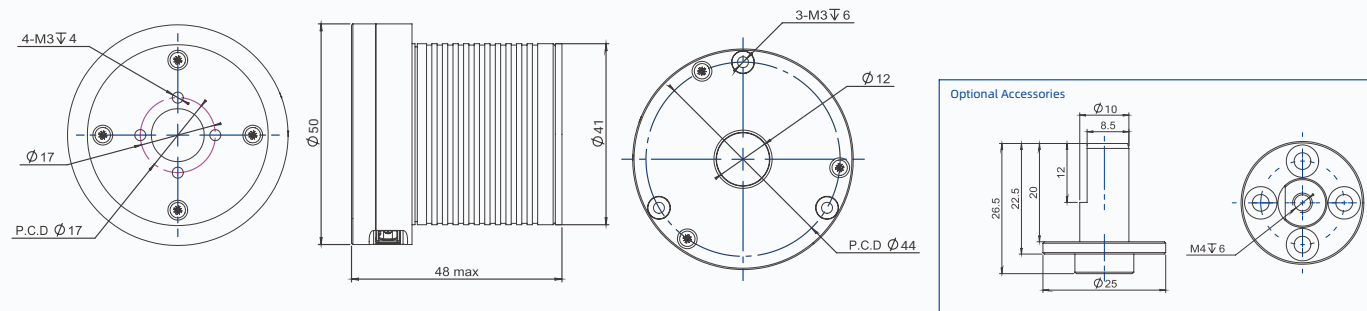
H-30-08

RMD-H-30-08-15-C



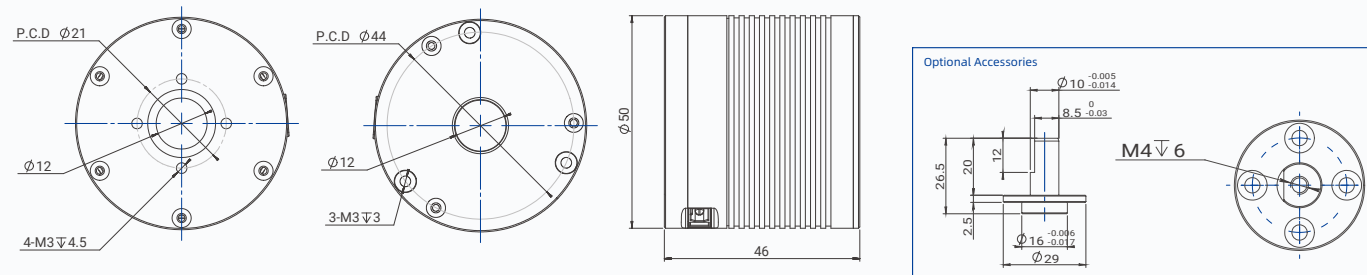
H-40-15

RMD-H-40-15-50-C



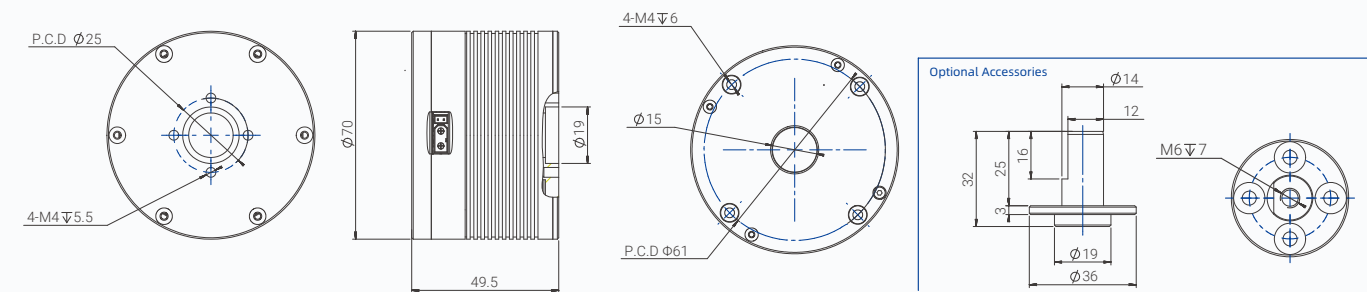
H-50-15

RMD-H-50-15-100-C



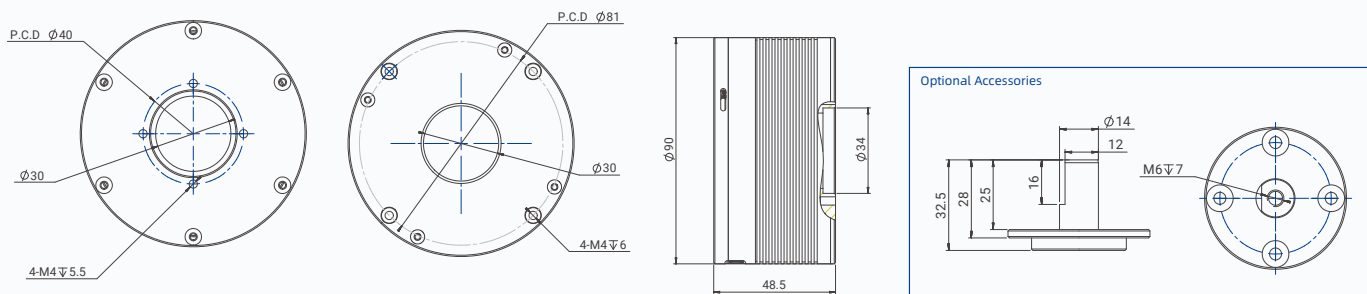
H-70-15

RMD-H-70-15-200-C



H-90-15

RMD-H-90-15-400-C



FL Series Frameless Torque Motor

Hollow Design / High Precision / High Power Density **RMD-FL**



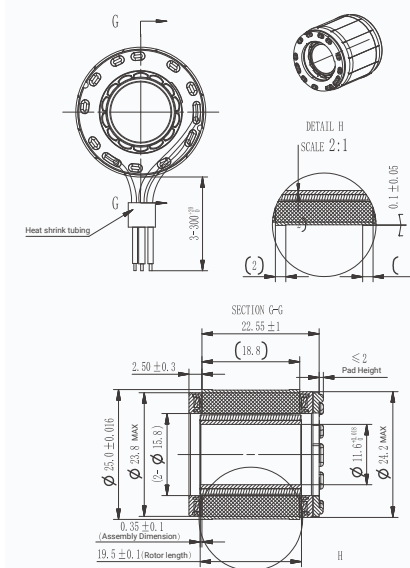
Product Parameters

Parameters	Unit	FL-25-18	FL-38-08	FL-38-12	FL-50-08	FL-50-15	FL-70-10	FL-70-16	FL-85-13	FL-85-23
Input voltage	V	24	48	48	48	48	48	48	48	48
Rated speed	RPM	4000	9000	9970	5200	3800	3500	3000	2400	3500
Rated torque	N.m	0.15	0.1	0.23	0.3	0.51	0.55	1.3	1.3	2
Rated power	W	95.5	94	240	163	203	201	408	408	733
Rated current	A	4.2	2.75	6.1 (REF)	3.9	4.3	4.4	9.2	9.4	14.5
Peak torque	N.m	0.45	0.32	0.47 (REF)	0.96	1.5	1.65	2.6	3.9	6
Torque constant	N.m/A	0.035	0.04	0.04	0.08	0.12	0.12	0.14	0.14	0.14
Encoder type	—	—	Absolute	—	Hall+INC	Hall+INC	Hall+INC	Hall+INC	Hall+INC	Absolute
Weight	kg	0.04	0.05	0.10	0.12	0.16	0.25	0.32	0.46	0.61

Installation Drawing

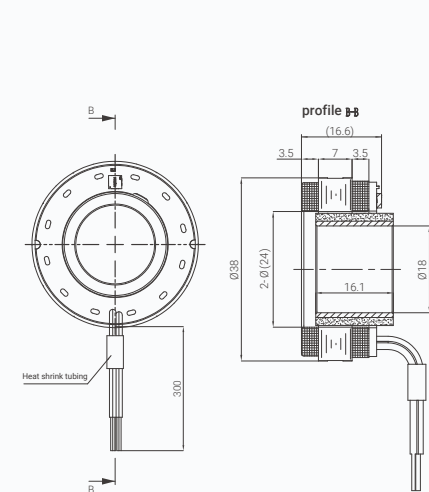
FL-25-18

RMD-FL-25-18-100



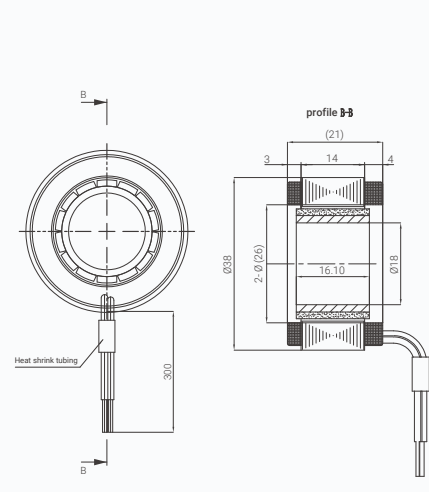
FL-38-08

RMD-FL-38-08-100



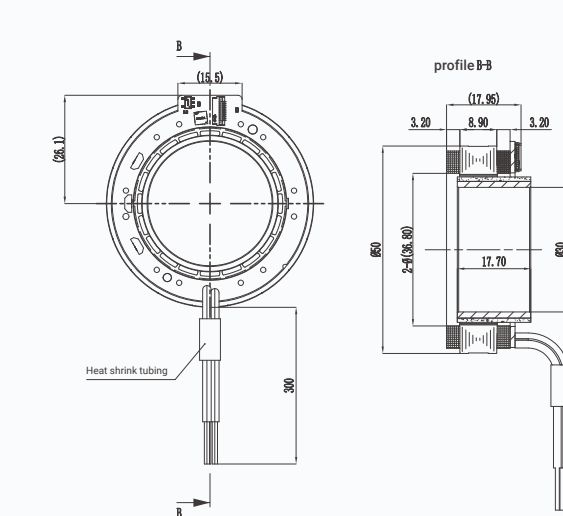
FL-38-12

RMD-FL-38-12-240



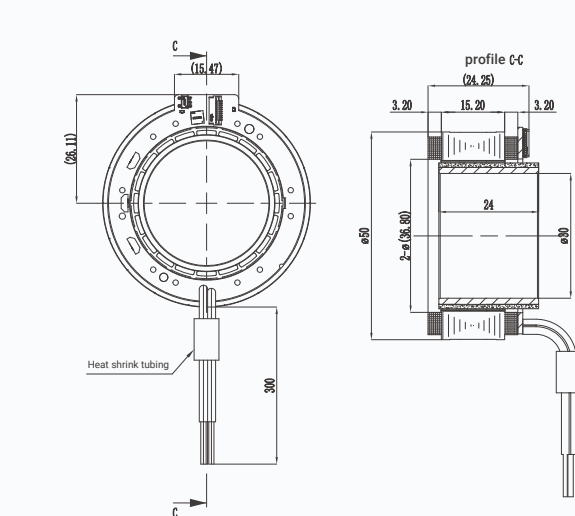
FL-50-08

RMD-FL-50-08-180



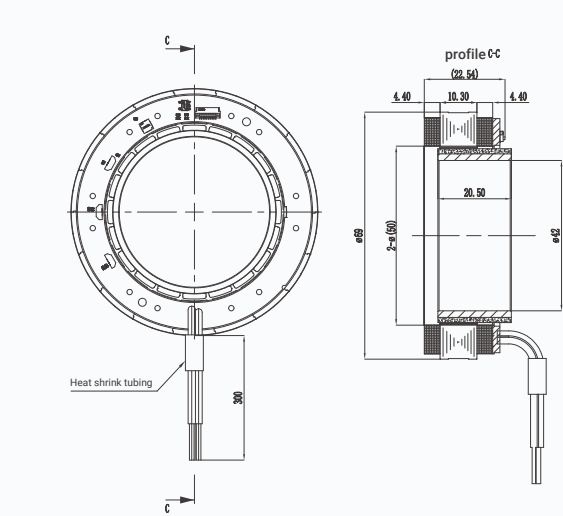
FL-50-15

RMD-FL-50-15-200



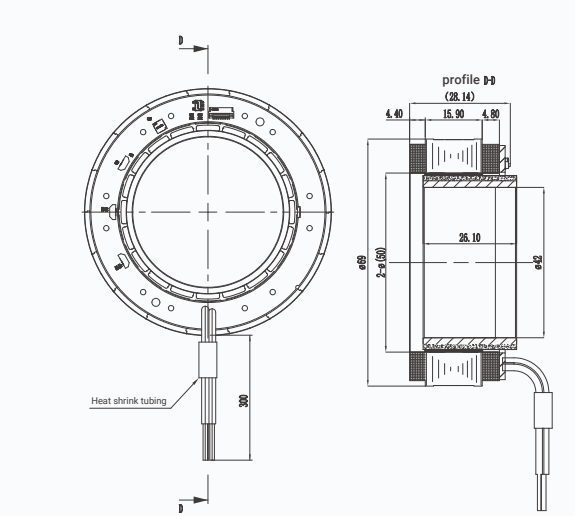
FL-70-10

RMD-FL-70-10-250



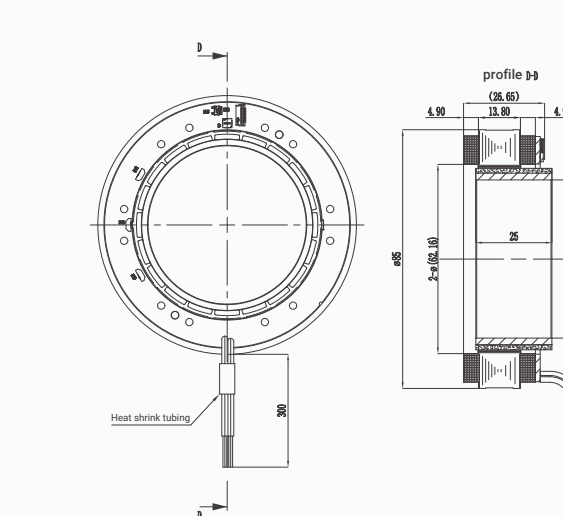
FL-70-16

RMD-FL-70-16-360



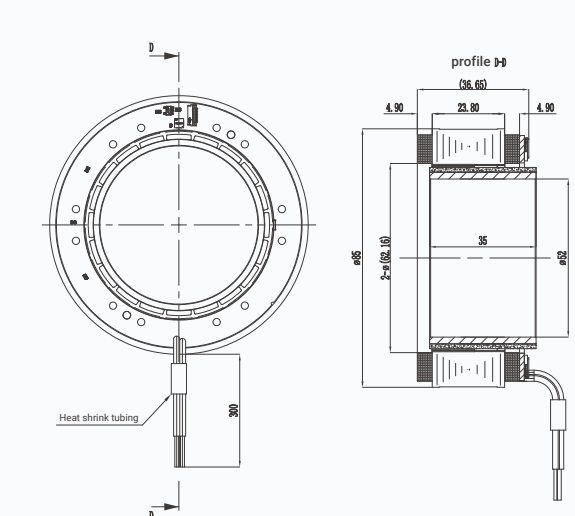
FL-85-13

RMD-FL-85-13-500



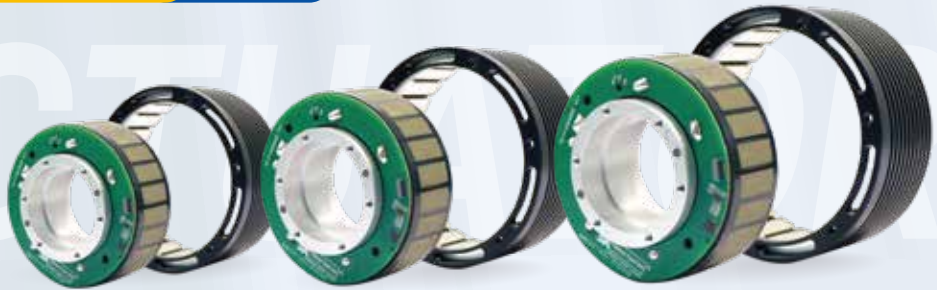
FL-85-23

RMD-FL-85-23-750



FLO Series Frameless Torque Motor

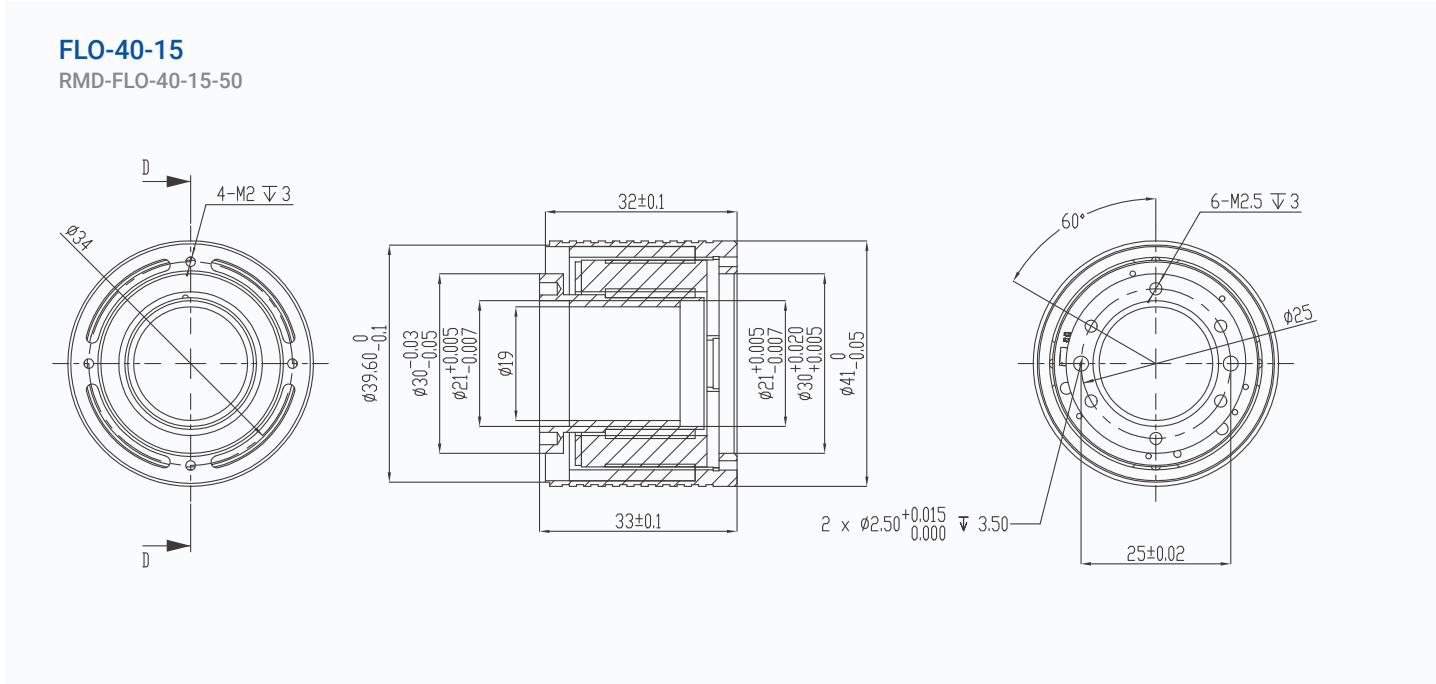
Hollow Design / High Precision / High Power Density **RMD-FLO**



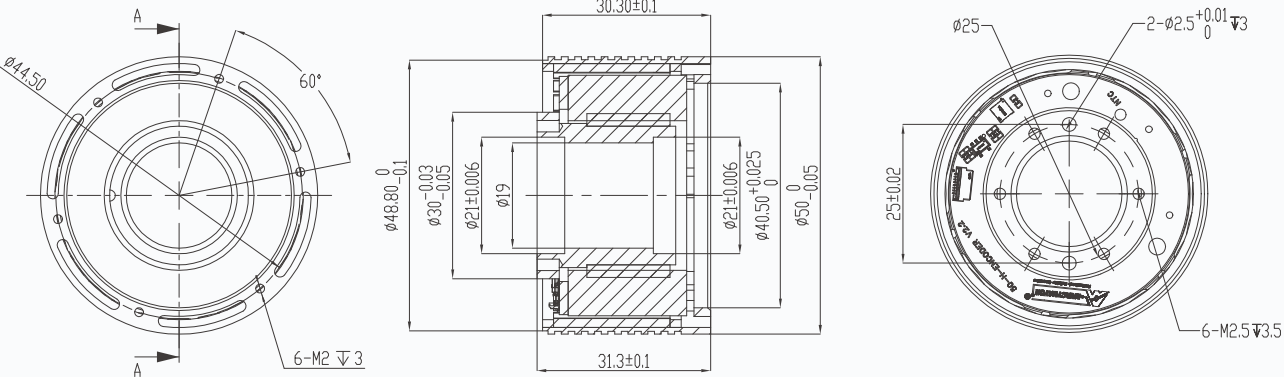
Product Parameters

Parameters	Unit	FLO-40-15	FLO-50-15	FLO-70-15	FLO-90-15
Input voltage	V	24	24	48	48
Rated speed	RPM	3000	2500	2400	1600
Rated torque	N.m	0.15	0.35	0.8	1.5
Rated power	W	47	91.6	200	252
Rated current	A	5.1	4.9	4.4	6.6
Peak torque	N.m	0.3	0.87	2	3.75
Torque constant	N.m/A	0.03	0.07	0.18	0.23
Encoder type	—	Absolute (Multi-pole)	Absolute (Multi-pole)	Absolute (Multi-pole)	Absolute (Multi-pole)
Weight	kg	0.13	0.19	0.33	0.46

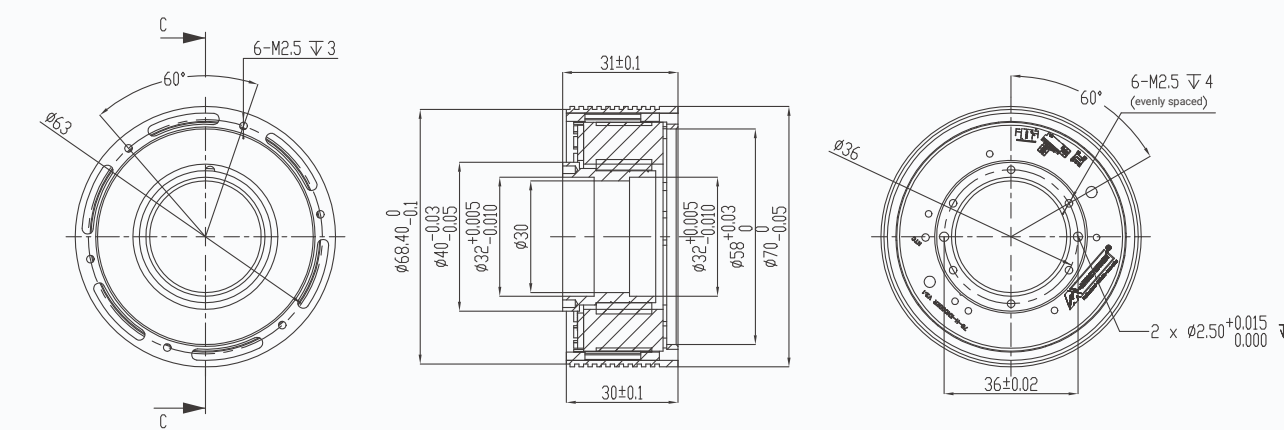
Installation Drawing



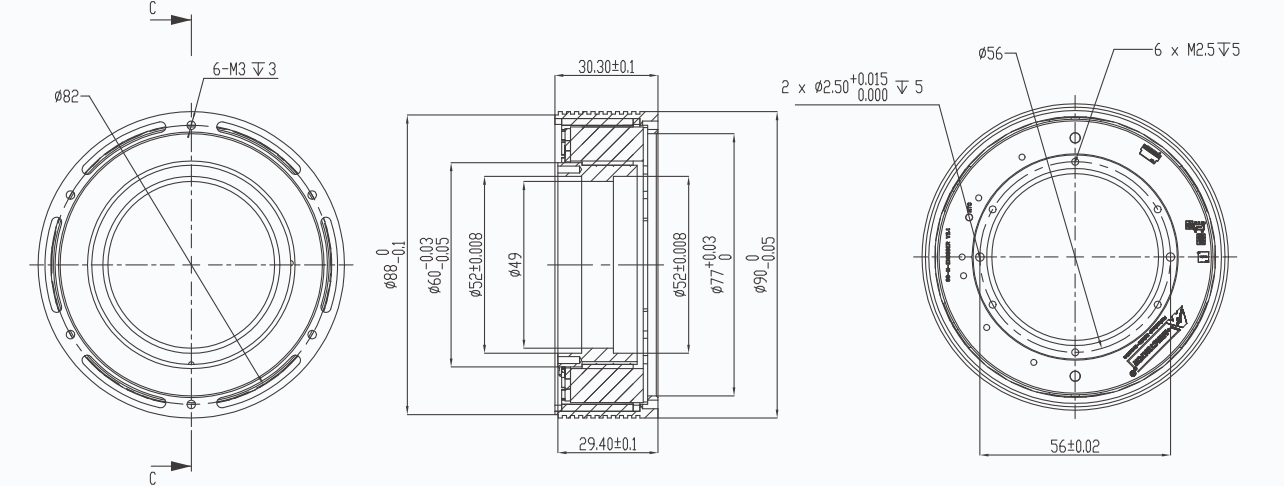
FLO-50-15
RMD-FLO-50-15-100



FLO-70-15
RMD-FLO-70-15-200



FLO-90-15
RMD-FLO-90-15-400





GP2-51-90-E Gripper

CAN BUS / EtherCAT Gripper

Rated Clamping Force
90N

Peak Clamping Force
120N

Total Stroke
95mm

Weight
0.8Kg

Dimensions
165.3 × 176.11 × 61mm



GP2-53-120-E Gripper

CAN BUS / EtherCAT Gripper

Rated Clamping Force
120N

Peak Clamping Force
300N

Total Stroke
105mm

Weight
1.12Kg

Dimensions
191.5 × 220 × 77 mm



Product Introduction



Automatically conforms to the object's contours

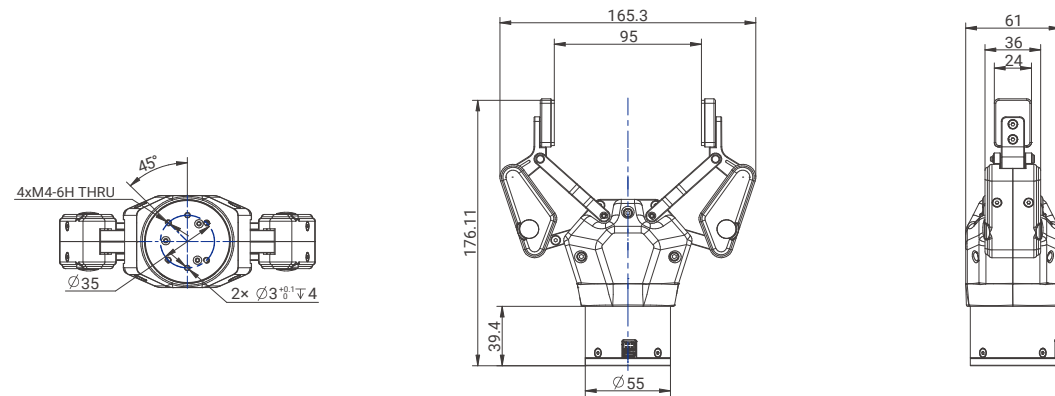


achieving both firm and flexible gripping



EtherCAT / CAN BUS

Installation Drawing



Product Parameters

Gripper Parameters	Value
Rated Grasping Force	90N
Peak Grasping Force	120N
Total Stroke	95mm
Peak Speed:	100 mm/s
Operating Noise	<60dB
Weight	0.8kg
Transmission Method	Planetary gear + screw nut +linkage mechanism
Dimensions	165.3 x 176.11 x 61mm

Electrical Parameters	Value
Value	24~48V
Current (24V test)	0.15A (Rated) / 0.8A (peak)
Rated Power (24V test)	5.7W
Communication Interface	CAN BUS / EtherCAT

*Rated grasping force is tested with a gripping stroke of 50mm

Product Introduction



Dexterous Adaptive Grasping



Both Force and Position Programmable



Intelligent Judgment Easy Integration

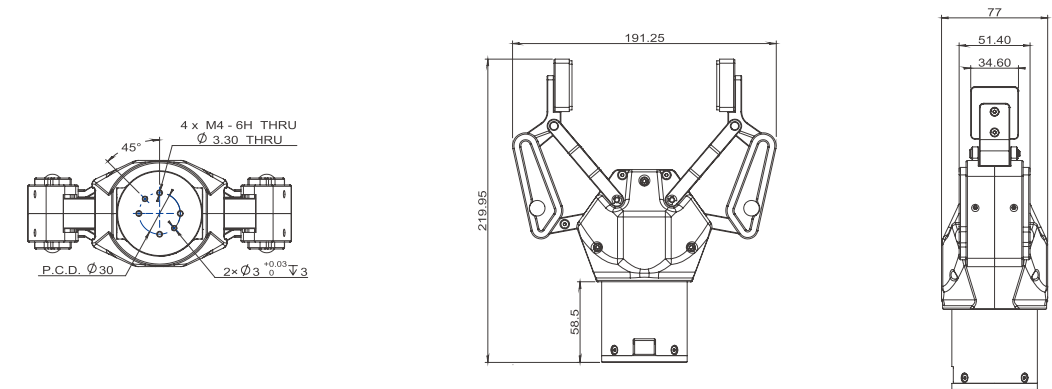


Lightweight Design



Multiple Communication Interfaces

Installation Drawing



Product Parameters

Gripper Parameters	Value
Rated Grasping Force	120N
Peak Grasping Force	300N
Total Stroke	105mm
Operating Noise	<60dB
Weight	1.12kg
Transmission Method	Planetary Gear + Ball Screw Nut + Linkage Mechanism
Dimensions	191.5 × 220 × 77mm

Electrical Parameters	Value
Value	24~48V
Current (24V test)	0.36A (Rated) / 2A (Peak)
Rated Power (24V test)	14.4W
Communication Interface	CAN BUS / EtherCAT

*Rated grasping force is tested with a gripping stroke of 90mm



RB-A850-10 Robot Arm

CAN BUS / EtherCAT ARM

DOF

14 axes

weight

11.2kg

Repeatability of positioning accuracy

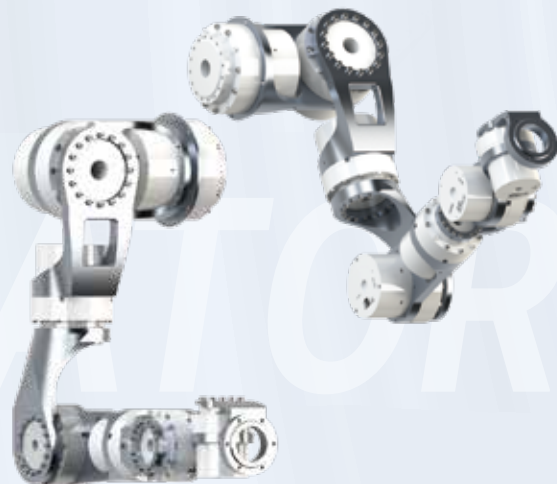
±0.05 mm

wingspan

850mm

Rated Payload at End

10kg



RB-C002 Controller

EtherCAT

High-Speed Networking

Dual 2.5GbE

Real-Time System

RTOS

Real-Time Control

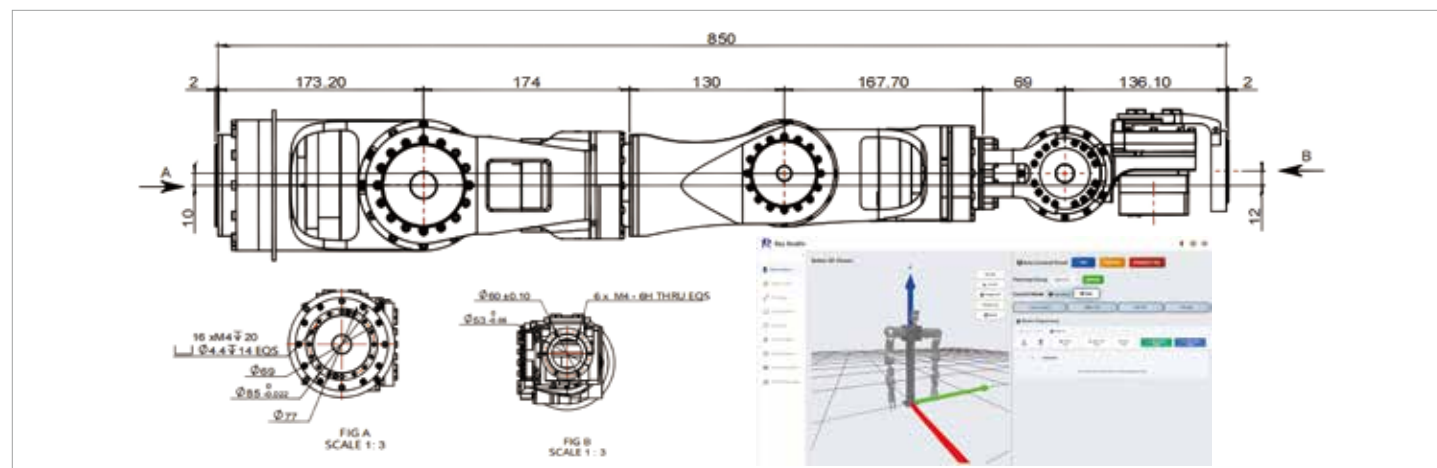
4kHz

weight

250g



Installation Drawing



Product Parameters

Mechanical Parameters	Values
Arm Reach	850 mm
Weight	11.2 kg
Rated Payload	10 kg
Repeatability	±0.05 mm
J1 Range of Motion	±180 °
J2 Range of Motion	-180 ~ 0°
J3 Range of Motion	±180 °
J4 Range of Motion	-135 ~ +90 ° (Right arm) -90 ~ +135° (Left arm)
J5 Range of Motion	±180 °
J6 Range of Motion	±90 °
J7 Range of Motion	±90 °

Electrical Parameters	Values
Rated Voltage	48 V
Rated Power	1000 W
Communication	CAN BUS / EtherCAT

Product Introduction



High Bandwidth & High Real-Time Parallel Communication Backplane

Equipped with dual 2.5GbE network ports and pre-configured with the PREEMPT_RT real-time kernel and the IgH EtherCAT Master stack, it ensures low-jitter industrial communication for a large number of axes while meeting high-level computing power requirements, guaranteeing stable and reliable operation of complex robotic systems.



Ready-to-Use Robot Control Integration Stack

The EtherCAT and ros2_control stacks are pre-integrated, providing a complete software chain from underlying real-time communication to upper-level robot control, significantly reducing system integration and secondary development time.



Complete Deliverables for Accelerated Deployment

Full deliverables including control software, detailed documentation, interface descriptions, and network topology recommendations are provided to help users get started quickly.

Product Parameters

Parameters	Description
Weight	250g
Master Stack	IgH EtherCAT Master
Control Frequency	Up to 4kHz
DC Synchronization	Supported
Slave Type	MyActuator (Pulse Motor)
Supported Operating Systems	Ubuntu 22.04
Network Interface	Dual 2.5GbE Ethernet ports
Hardware Platform	Orange Pi5 PLUS Development Board
Main control chip	Rockchip RK3588
Memory	16GB
Storage	64GB sd card
Power Input	DC 5V
Operating Temperature	0°C ~ 50°C
Interface Expansion	USB 3.0, GPIO, UART, I2C, SPI
Software Support	ROS 2, Python, C++, Isaac