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国际市场 International Market



whatsapp



英文官网



Youtube

国内市场 Domestic market



销售经理



中文官网



企业公众号

Micro Servo · Product Solution

微型伺服·系统方案



All Support Customization
产品可定制

Frameless Motor

无框力矩电机

Integrated Direct Drive Actuator

一体化直驱模组

Integrated Planetary Actuator

一体化行星减速模组

Integrated Harmonic Actuator

一体化谐波模组

Integrated Cycloidal Actuator

一体化摆线模组

GENERAL CATALOG

产品综合手册



关于我们

About MYACTUATOR

苏州脉塔智能科技有限公司是一家专注于一体化智能伺服执行器的创新型科技公司。

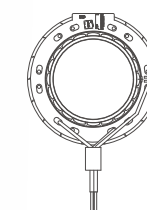
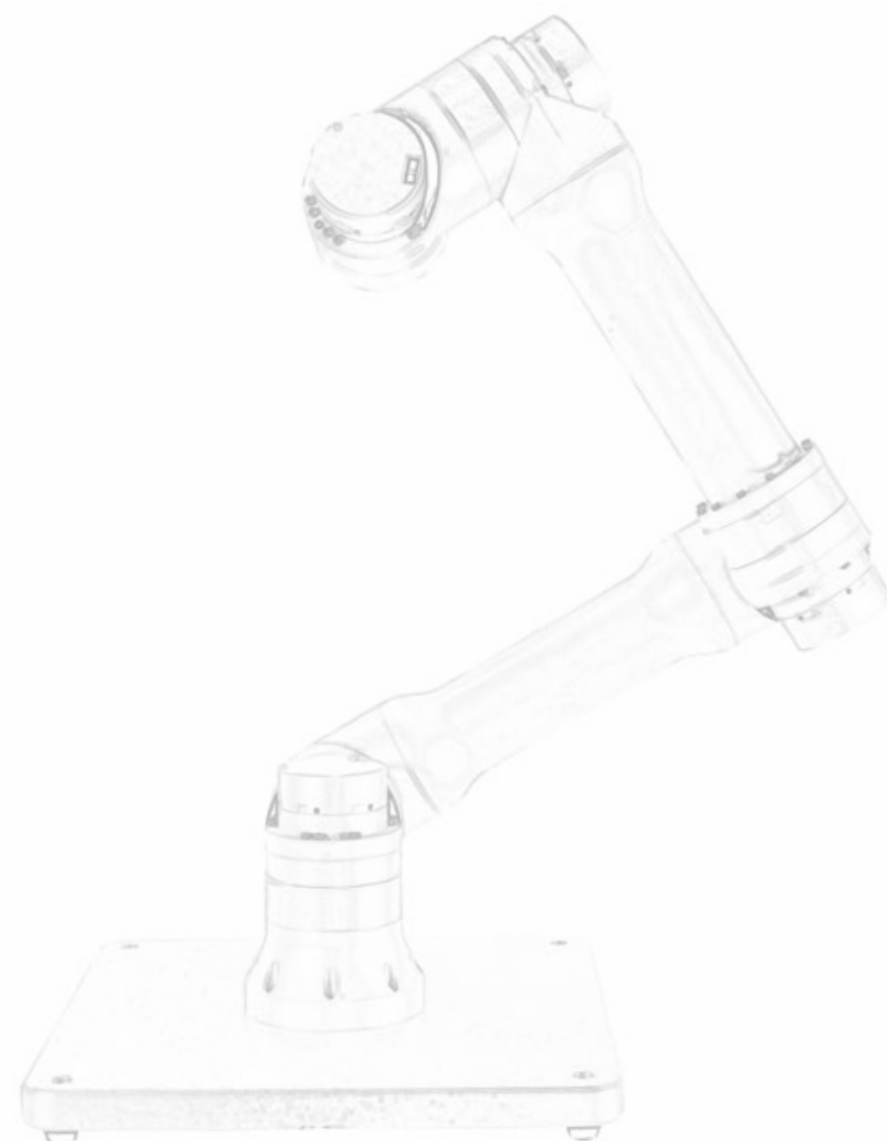
公司成立于2020年，系苏州市重点科技型企业。先后荣获“江苏省科技型中小企业”，“昆山市科技型企业”，“苏州市人才科创企业”，“高新技术企业”等荣誉。

现有各类技术人才60名，技术专利28项，形成5大产品系列，上百款产品；综合运营面积超3000平，拥有完善的电机设计研发、生产制造及检测设备和先进的品质管理理念。

Suzhou Micro Actuator Technology Co., Ltd., an innovative technology company, focusing on integrated intelligent servo actuators.

The company established in 2020 and is a key technology enterprise in Suzhou. It has successively won the honors of "Jiangsu Province Science and Technology Small and Medium-sized Enterprises", "Kunshan City Science and Technology Talent Enterprise", "Suzhou City Talent Science and Technology Innovation Enterprise", "High-tech Enterprise", and other honors.

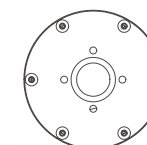
There are currently 60 technical talents of various types and 28 technical patents, forming 5 major product series and hundreds of products; the comprehensive operating area exceeds 3000 square meters, with complete motor design and development, manufacturing and testing equipment and advanced quality management system.



无框力矩电机模组
RMD-FL/FLO 系列

P3-10

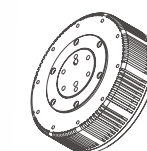
FL-50-08	FLO-50-15
FL-50-15	FLO-70-15
FL-70-10	FLO-90-15
FL-70-16	
FL-85-13	



一体化直驱模组
RMD-H 系列

P11-12

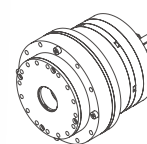
H-50
H-70
H-90



一体化行星减速模组
RMD-X 系列

P13-16

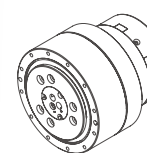
X4-3	X6-8
X6-7	X8-20
X6-40	X8-60
X8-25	X10-40
	X10-100



一体化谐波模组
EPS-RH 系列

P17-22

RH-14	RH-25
RH-17	RH-32
RH-20	



一体化摆线模组
EPS-CEM 系列

P23-24

CME-30
CME-60
CME-90

可用于各式各样的用途中，

It can be used in a wide variety of applications



外骨骼机器人
Exoskeleton robots



四足机器人
Quadruped robots



AGV智能车
AGV smart car

实现高精度的驱动性。

and achieves high-precision driveability.



机械臂
Robotic arm



管道机器人
Pipe Robot



激光雷达
Lidar



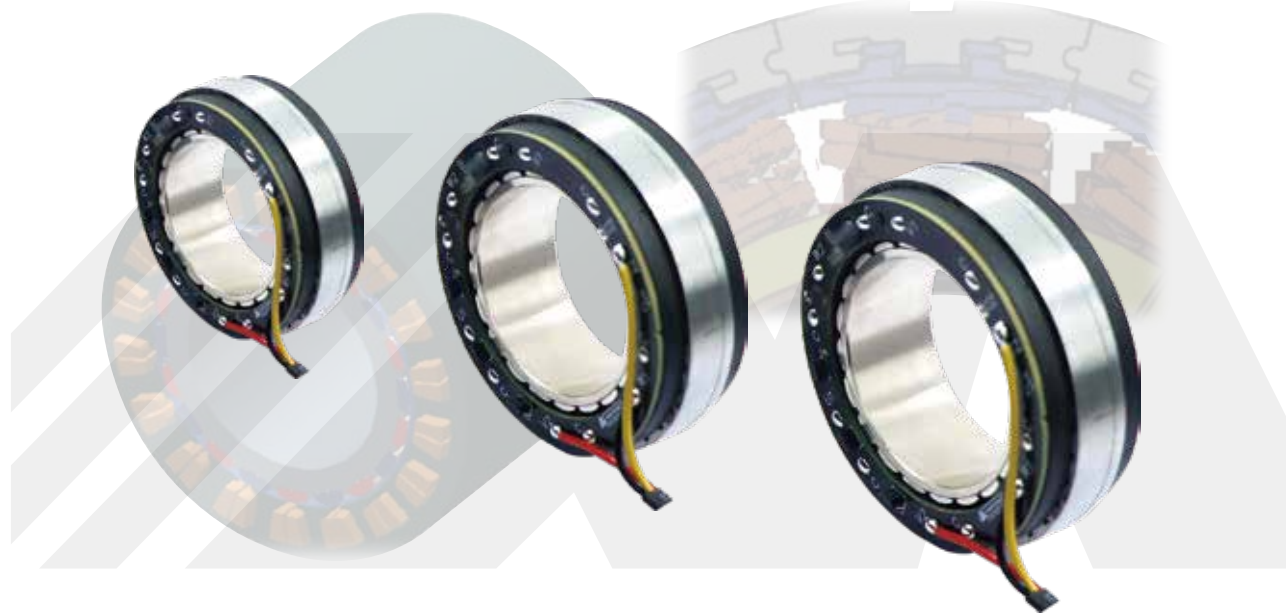
机器人
robot



云台
Gimbal

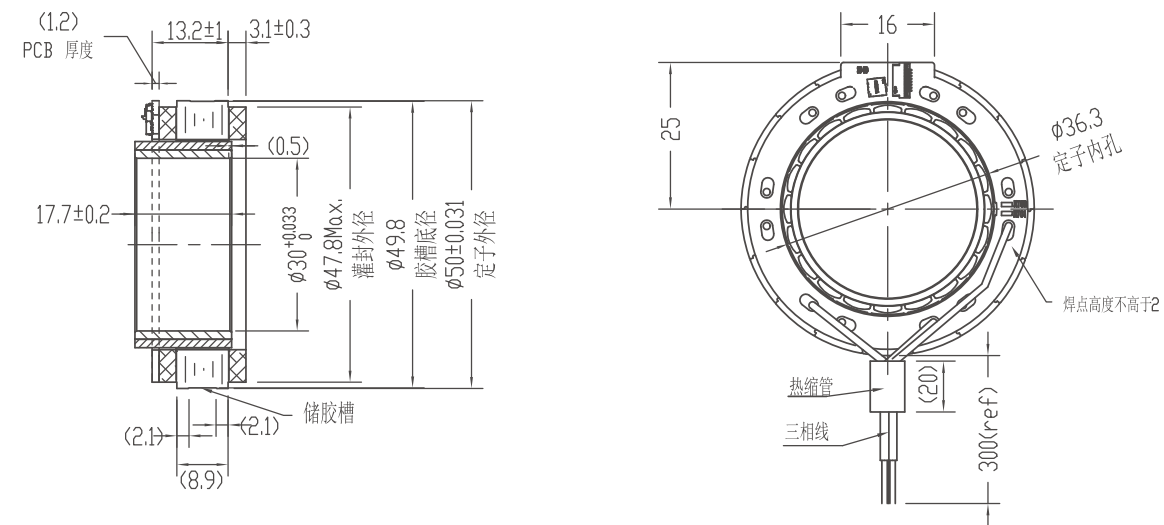
无框力矩电机模组

大直径 大中空 强劲动力

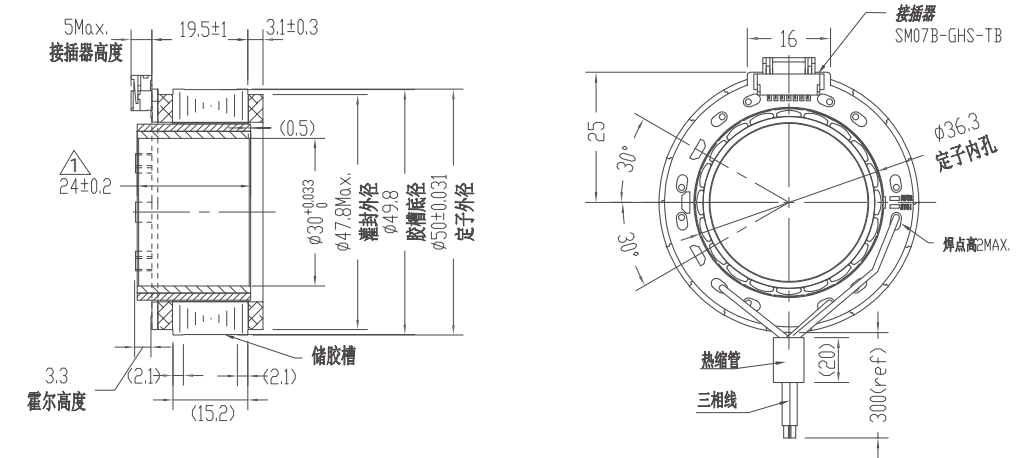


尺寸安装图 Installation Drawing

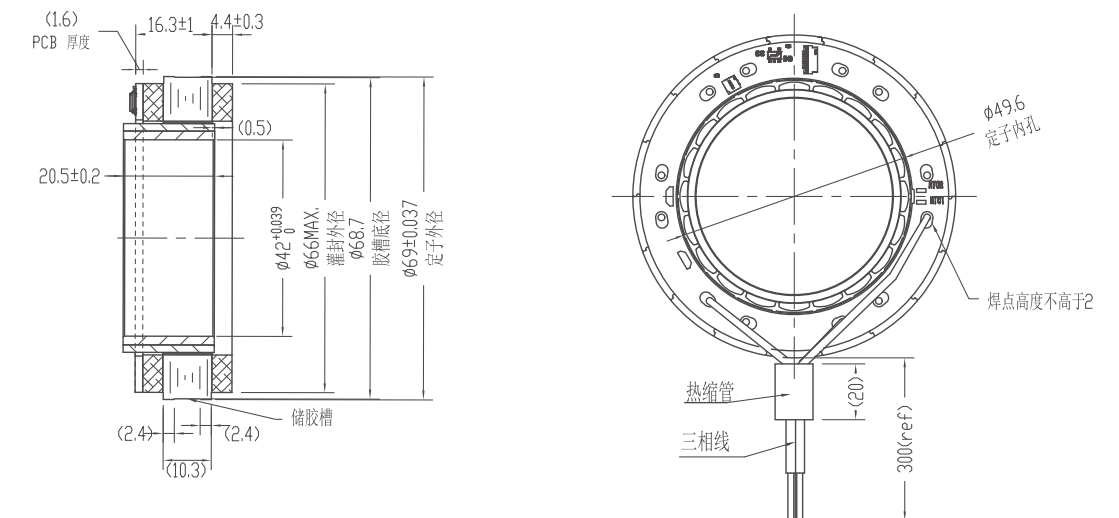
• **FL-50-08**



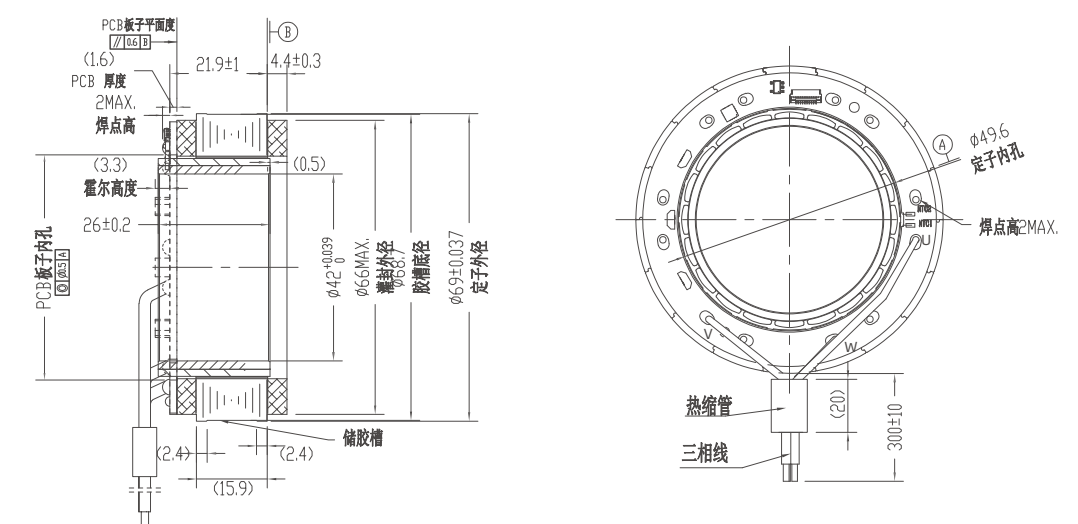
• **FL-50-15**



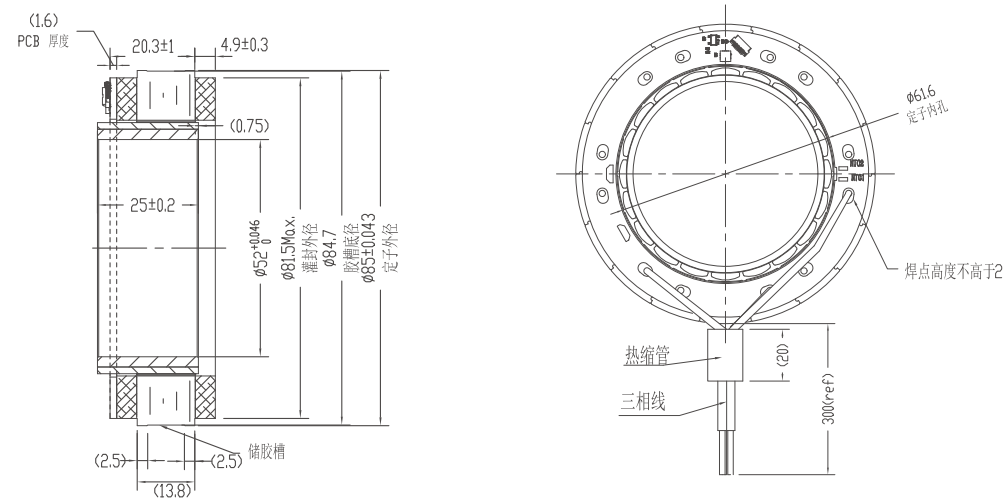
• **FL-70-10**



• FL-70-16



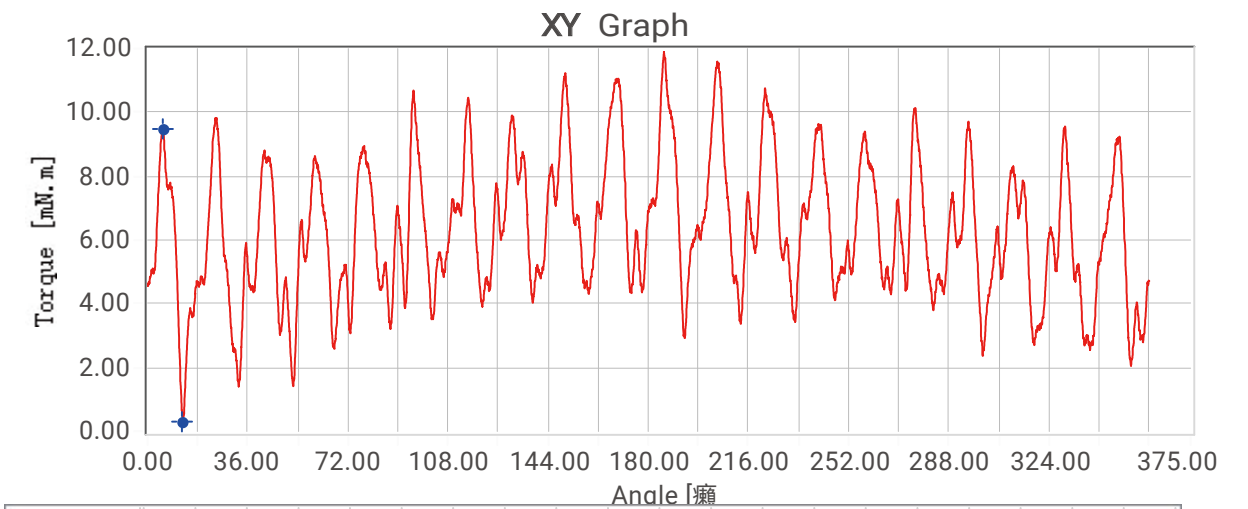
• FL-85-13



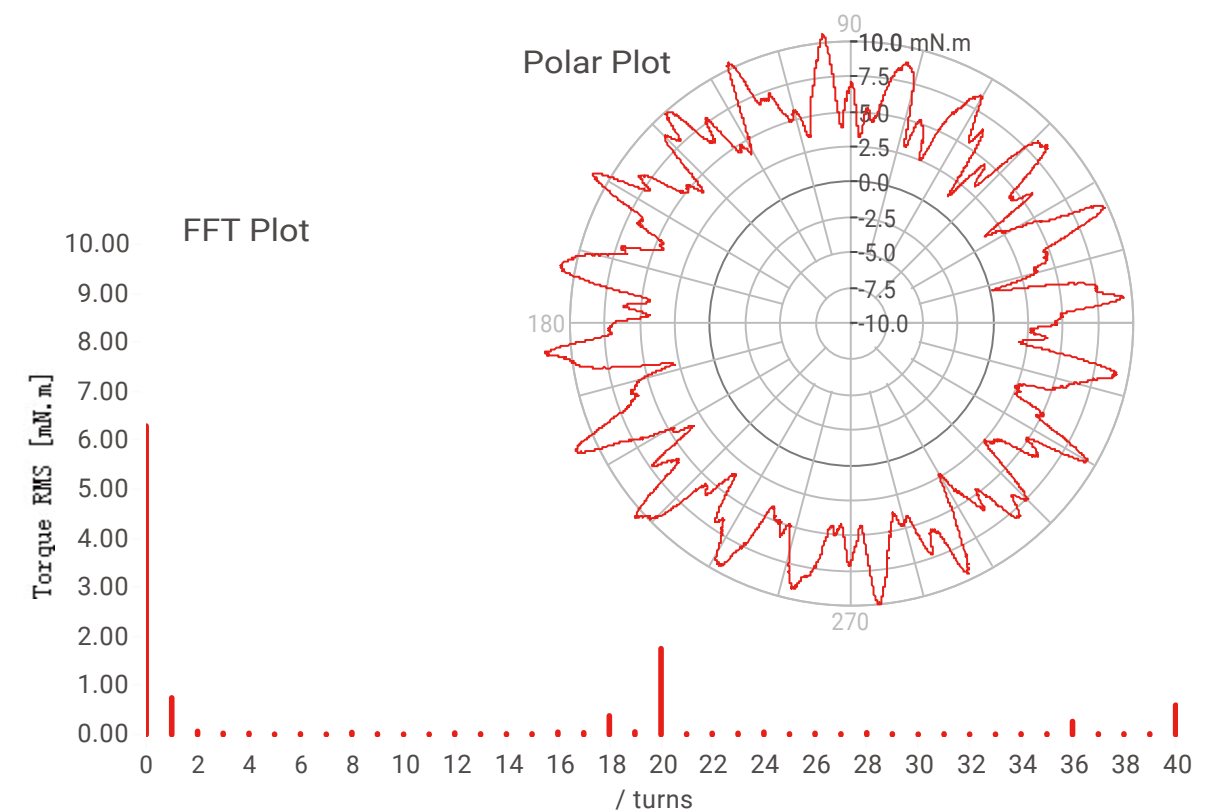
产品参数 Product Parameters

参数 Parameters	单位 Unit	FL-50-08	FL-50-15	FL-70-10	FL-70-16	FL-85-13
输入电压 Input Voltage	V	48	48	48	48	48
空载转速 No Load Speed	RPM	5200	3800	3500	3000	3000
空载电流 No Load Current	A	0.35	0.38	0.42	0.41	0.37
额定转速 Rated Speed	RPM	4100	3000	2800	2400	2400
额定转矩 Rated Torque	N.m	0.3	0.5	0.55	1.3	1.3
额定功率 Rated Power	W	163	199	201	408	408
额定电流 Rated Current	A	3.9	4.3	4.6	9.2	9.4
峰值扭矩 Peak Torque	N.m	0.96	1.5	1.65	2.6	3.9
峰值电流 Peak Current	A	12.48	12.9	13.8	27.6	28.2
效率 Efficiency	%	>83%	>81%	>82%	>83%	>82%
反电势常数 Back-EMF Constant)	Vdc/Krpm	5.37	8.12	8.34	9.86	9.65
扭矩常数 Torque Constant	N.m/A	0.08	0.12	0.12	0.14	0.14
线电阻 Phase to Phase Resistance	Ω	0.71	0.59	0.42	0.24	0.19
线电感 Phase to Phase Inductance	mH	0.44	0.27	0.51	0.27	0.31
极对数 Pole Pair	—	10	10	10	10	10
齿槽转矩 Cogging Torque	mN.m	—	—	—	—	—
接线方式 3 Phase Connection	—	Y	Y	Y	Y	Y
反驱力矩 Anti-Force Torque	N.m	—	—	—	—	—
背隙 Backlash	Arcsec/ Arcmin	—	—	—	—	—
轴向负载 Axial Paylaod	N	—	—	—	—	—
径向负载 Radial Paylaod	N	—	—	—	—	—
转动惯量 Inertia	Kg.cm ²	—	—	—	—	—
编码器类型及接口 Encoder Type&Interface	—	Hall+INC	Hall+INC	Hall+INC	Hall+INC	Hall+INC
重复定位精度 Repeat Position Accuracy	Degree	—	—	—	—	—
通信方式 Communication	—	—	—	—	—	—
重量 Weight	kg	0.11	0.15	0.24	0.28	0.39
绝缘等级 insulation grade	—	F	F	F	F	F
防护等级 level of protection	—	—	—	—	—	—

齿槽转矩实测

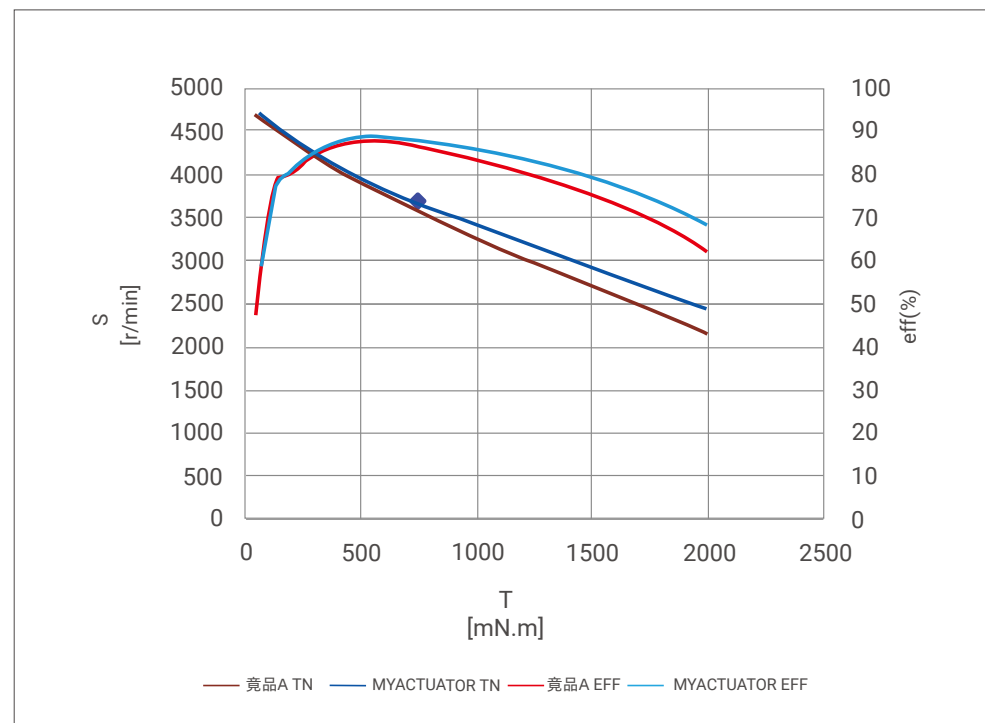
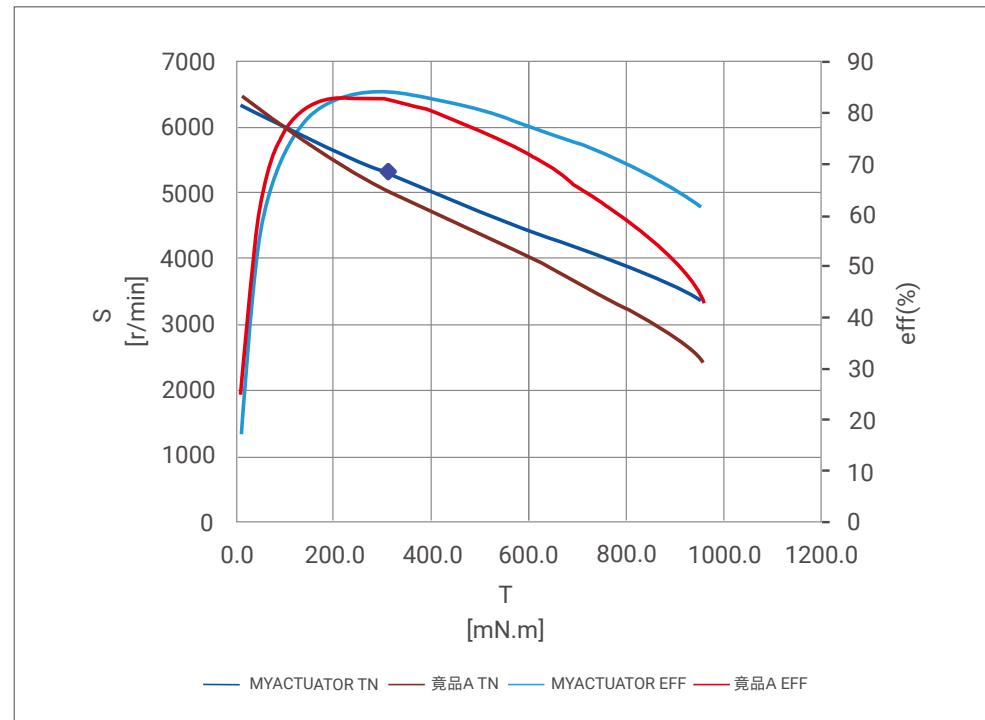


Max	9.503	9.813	8.811	8.628	8.944	10.66	10.45	9.903	11.22	11.05	11.85	11.55	10.75	9.635	9.400	10.14	9.715	8.310	9.558	9.245
Min	0.287	1.400	1.405	2.583	3.066	3.503	3.903	4.024	4.296	4.326	2.913	3.367	3.426	4.102	4.293	3.776	2.365	2.685	2.553	2.054
PK-PK	9.225	8.410	7.405	6.045	5.875	7.177	6.550	5.886	6.931	6.731	8.978	8.226	7.326	5.533	5.107	6.364	7.350	5.627	7.003	7.191



<u>Part Number</u>	<u>Direction:</u>	CW	<u>Start Torque</u>	
<u>Serial Number</u>	<u>Cogging</u>	9.223 mN m	<u>Max Torque:</u>	11.891 mN
<u>Date:</u>	<u>Friction</u>	6.293 mN m	<u>Min Torque:</u>	0.281 mN m
<u>Operator</u>	<u>Drag Torque:</u>	10.904 mN		
<u>Comments</u>				

效率扭矩对比图



MYACTUATOR Flmotor performance(characteristic,efficiency)is more better than competitor.

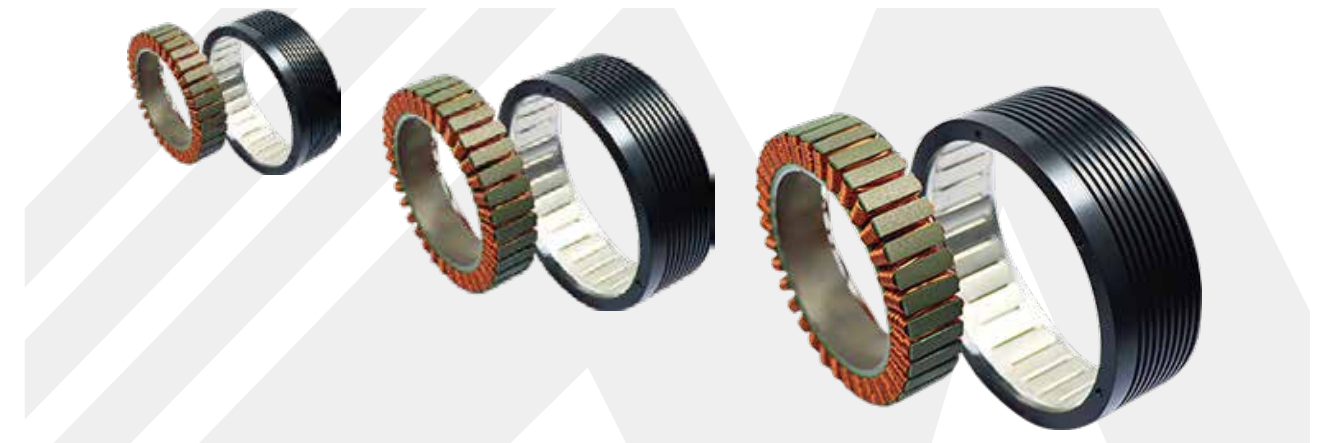
注：以上数据基于脉塔测试，最终解释权归脉塔所有。

NOTE: above data is based on myactuator test The final interpretation right belongs to myactuator company.

Frameless Motor

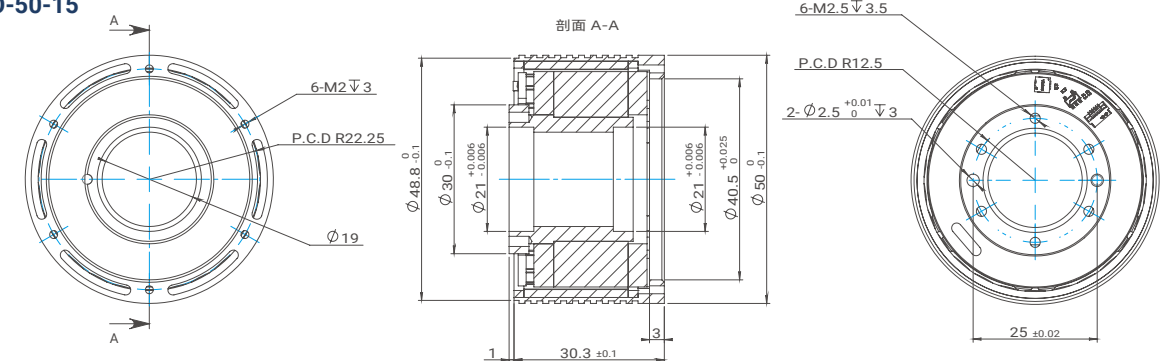
无框力矩电机模组

大直径 大中空 强劲动力

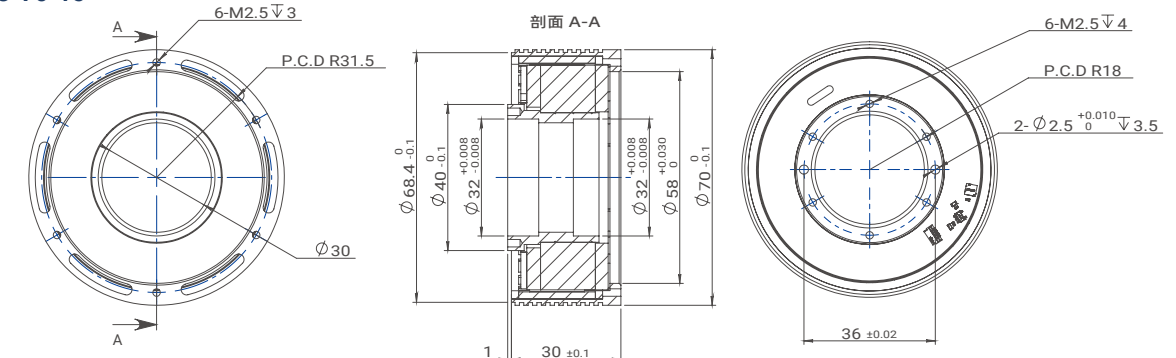


尺寸安装图 Installation Drawing

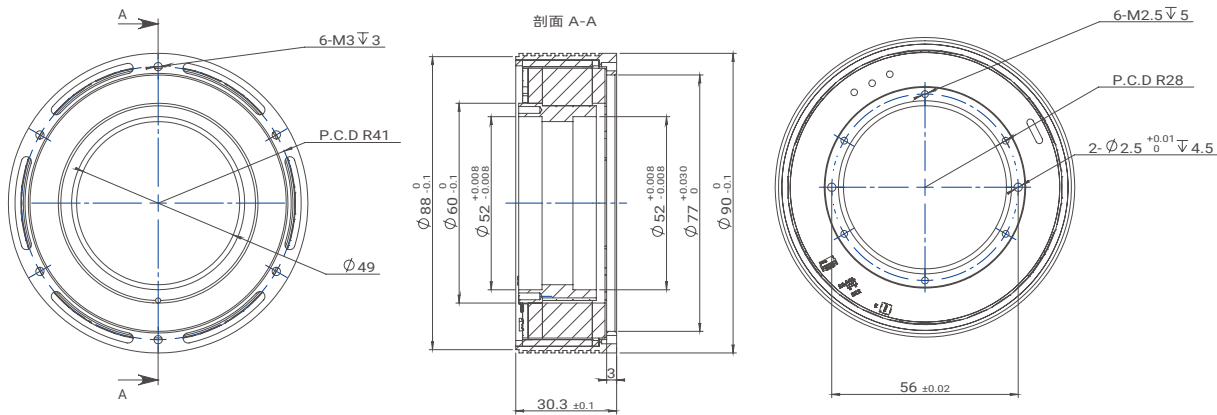
· FLO-50-15



· FLO-70-15



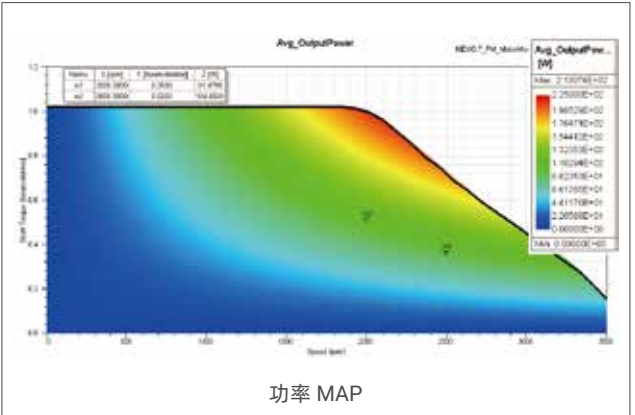
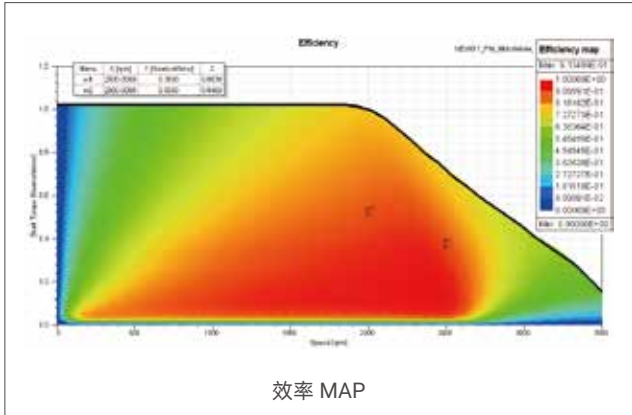
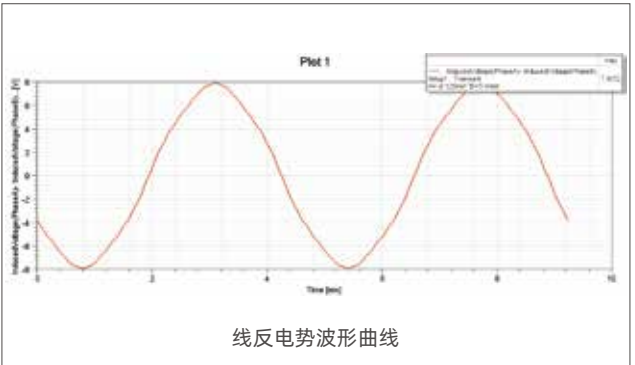
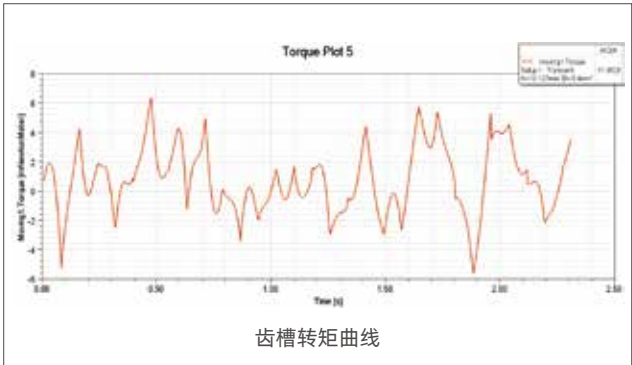
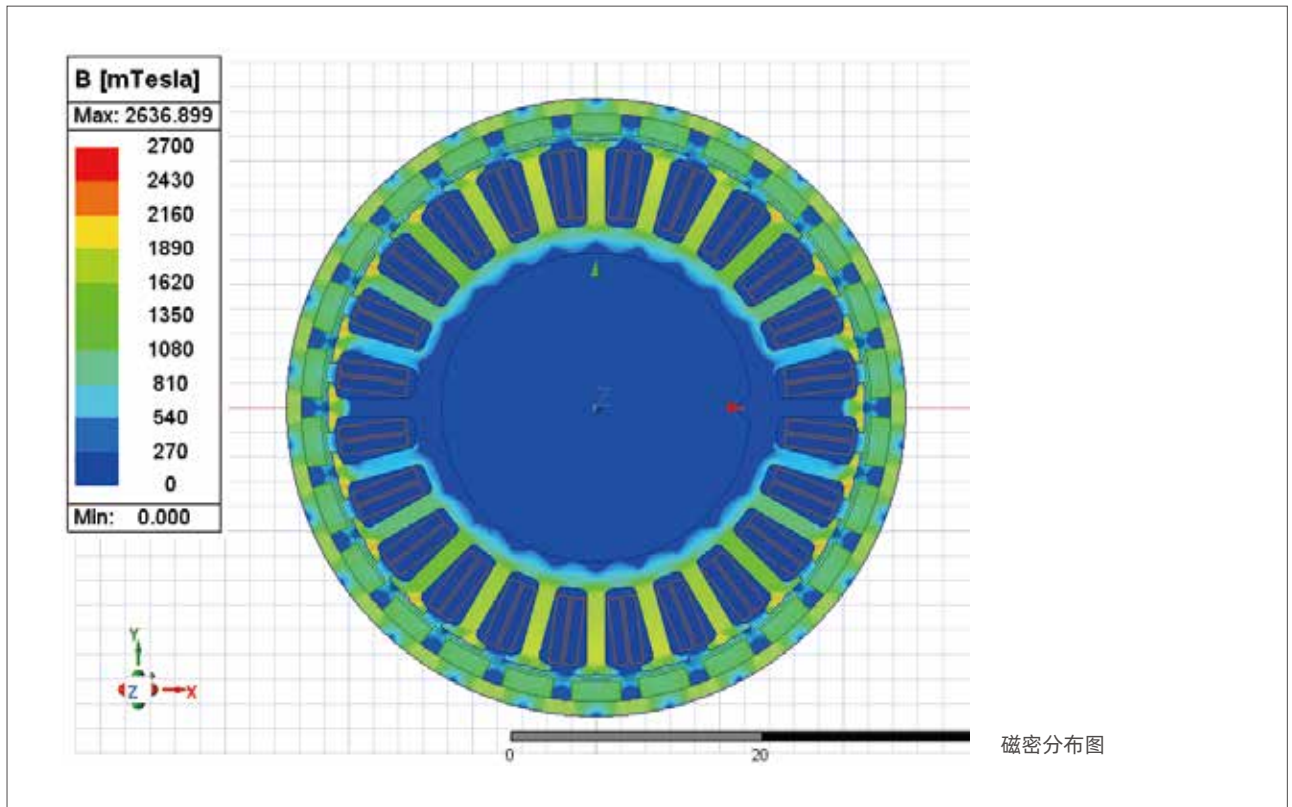
· FLO-90-15



产品参数 Product Parameters

参数 Parameters	单位 Unit	FLO-50-15	FLO-70-15	FLO-90-15
输入电压 Input Voltage	V	24	48	48
空载转速 No Load Speed	RPM	3000	2800	2250
空载电流 No Load Current	A	0.32	0.21	0.35
额定转速 Rated Speed	RPM	2500	2400	1600
额定转矩 Rated Torque	N.m	0.35	0.8	1.5
额定功率 Rated Power	W	91.6	200	252
额定电流 Rated Current	A	4.9	4.4	6.6
峰值扭矩 Peak Torque	N.m	0.87	2	3.75
峰值电流 Peak Current	A	14.7	13.2	19.8
效率 Efficiency	%	>83%	>84%	>83%
反电势常数 Back-EMF Constant)	Vdc/Krpm	7.93	17	21.1
扭矩常数 Torque Constant	N.m/A	0.07	0.18	0.23
线电阻 Phase to Phase Resistance	Ω	0.4	0.5	0.35
线电感 Phase to Phase Inductance	mH	0.19	0.55	0.28
极对数 Pole Pair	—	13	13	17
齿槽转矩 Cogging Torque	mN.m	12	30.83	64
接线方式 3 Phase Connection	—	Y	Y	Y
反驱力矩 Anti-Force Torque	N.m	—	—	—
背隙 Backlash	Arcsec/ Arcmin	—	—	—
轴向负载 Axial Payload	N	—	—	—
径向负载 Radial Payload	N	—	—	—
转动惯量 Inertia	Kg.cm ²	—	—	—
编码器类型及接口 Encoder Type&Interface	—	Hall+INC	Hall+INC	Hall+INC
重复定位精度 Repeat Position Accuracy	Degree	—	—	—
通信方式 Communication	—	—	—	—
重量 Weight	kg	0.19	0.33	0.46
绝缘等级 insulation grade	—	F	F	F
防护等级 level of protection	—	—	—	—

部分型号仿真数据



Integrated Direct Drive Actuator

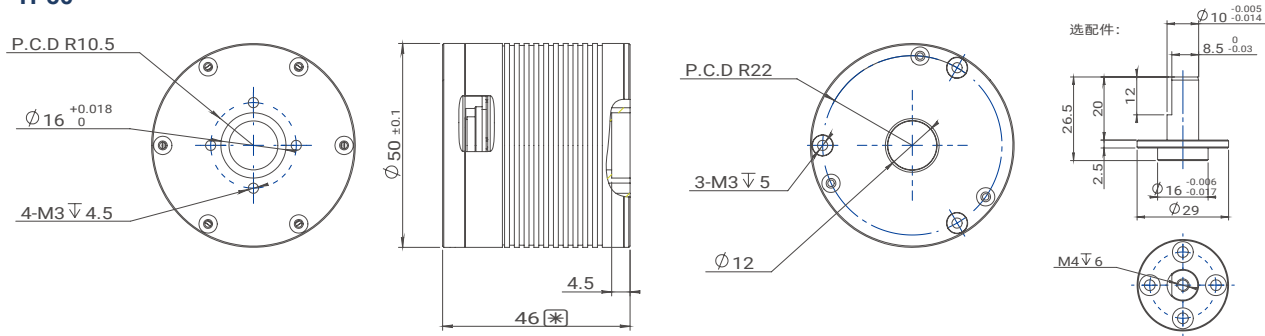
一体化直驱模组

高精度度 大中空 高速

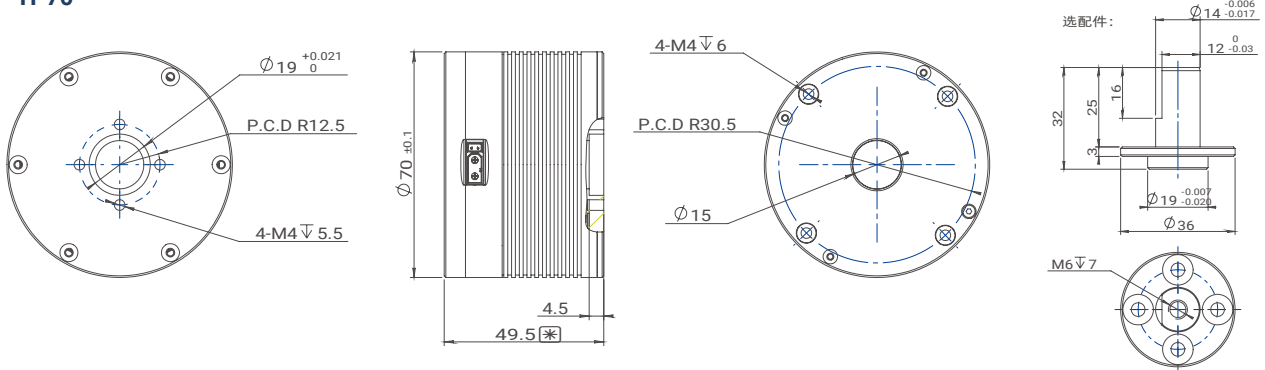


尺寸安装图 Installation Drawing

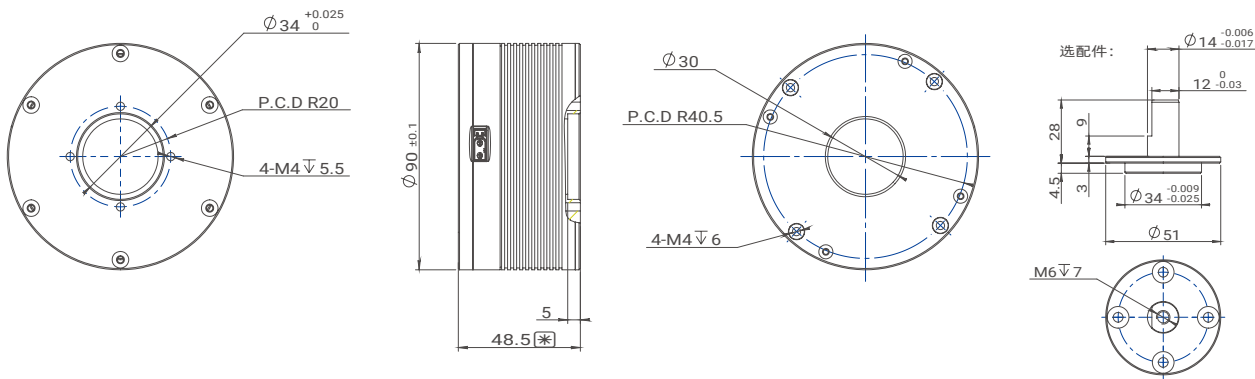
· H-50



· H-70



· H-90



产品参数 Product Parameters

参数 Parameters	单位 Unit	H-50	H-70	H-90
输入电压 Input Voltage	V	24	48	48
空载转速 No Load Speed	RPM	3000	2800	2250
空载电流 No Load Current	A	0.36	0.18	0.35
额定转速 Rated Speed	RPM	2500	2400	1600
额定转矩 Rated Torque	N.m	0.35	0.8	1.5
额定功率 Rated Power	W	91.6	200	252
额定电流 Rated Current	A	4.9	4.4	6.6
峰值扭矩 Peak Torque	N.m	0.87	2	3.75
峰值电流 Peak Current	A	14.7	13.2	19.8
效率 Efficiency	%	>83%	>84%	>83%
反电势常数 Back-EMF Constant)	Vdc/Krpm	7.93	17	21.1
扭矩常数 Torque Constant	N.m/A	0.07	0.18	0.23
线电阻 Phase to Phase Resistance	Ω	0.4	0.5	0.35
线电感 Phase to Phase Inductance	mH	0.19	0.55	0.28
极对数 Pole Pair	—	13	13	17
齿槽转矩 Cogging Torque	mN.m	12	30.83	64
接线方式 3 Phase Connection	—	Y	Y	Y
反驱力矩 Anti-Force Torque	N.m	—	—	—
背隙 Backlash	Arcsec/ Arcmin	—	—	—
轴向负载 Axial Paylaod	N	489	1870	2350
径向负载 Radial Paylaod	N	100	440	770
转动惯量 Inertia	Kg.cm ²	0.005	0.01	0.05
编码器类型及接口 Encoder Type&Interface	—	ABS	ABS	ABS
重复定位精度 Repeat Position Accuracy	Degree	< 0.01 Degree	< 0.01 Degree	< 0.01 Degree
通信方式 Communication	—	CAN / RS485	CAN / RS485	CAN / RS485
重量 Weight	kg	0.24	0.47	0.71
绝缘等级 insulation grade	—	F	F	F
防护等级 level of protection	—	IP54	IP54	IP54

Integrated Planetary Actuator

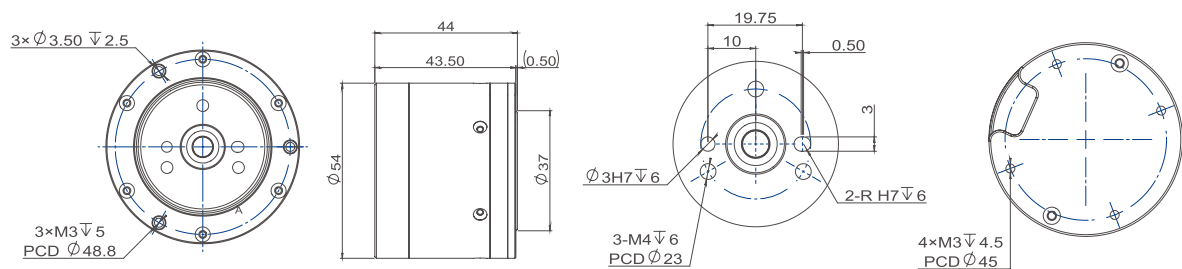
一体化行星减速模组

RMD-X V2 系列 单编码器

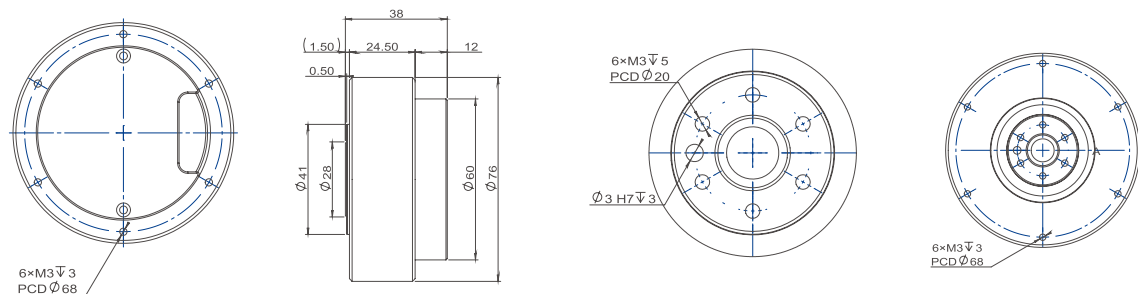


尺寸安装图 Installation Drawing

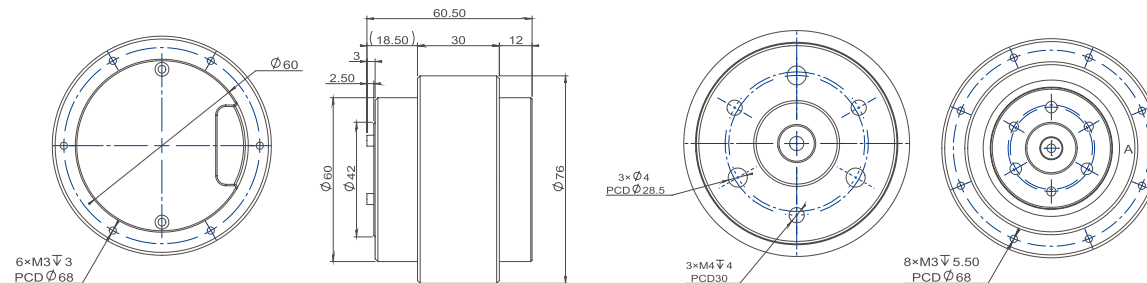
曾用名 Previous Name 电机简称 Motor Simplified Name
RMD-X4 1:6 V3 **X4-3**



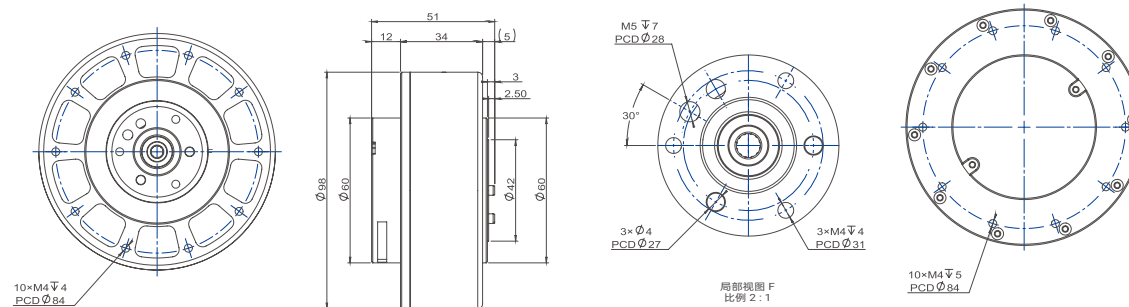
曾用名 Previous Name 电机简称 Motor Simplified Name
RMD-X6 1:6 V2 **X6-7**



曾用名 Previous Name 电机简称 Motor Simplified Name
RMD-X6 S2 1:36 V2 **X6-40**



曾用名 Previous Name 电机简称 Motor Simplified Name
RMD-X8-Pro 1:9 V2 **X8-25**



产品参数 Product Parameters

参数 Parameters	单位 Unit	X4-3	X6-7	X6-40	X8-25
减速比 Gear ratio		6:1	6:1	36:1	9:1
输入电压 Input Voltage	V	24	48	48	48
额定转速 Rated Speed	RPM	200	400	90	110
额定转矩 Rated Torque	N.m	1.5	3.5	18	10
额定功率 Rated Power	W	30	150	170	125
额定电流 Rated Current	A	2	4	5.2	3.2
峰值扭矩 Peak Torque	N.m	3	7	40	25
峰值电流 Peak Current	A	4	9	10.5	8
效率 Efficiency	%	60	70	70	80
极对数 Pole Pair	—	14	14	14	21
反驱力矩 Anti-Force Torque	N.m	0.06	0.08	0.91	0.61
背隙 Backlash	Arcsec/ Arcmin	10 Arcmin	10 Arcmin	15 Arcmin	10 Arcmin
轴向负载 Axial Paylaod	N	300	775	775	985
径向负载 Radial Paylaod	N	550	1250	1250	1250
转动惯量 Inertia	Kg.cm ²	1.2	4.8	28.8	30.6
编码器类型 Encoder Type	bit	16bit	16bit	16bit	16bit
通信方式 Communication	—	CAN:1M/RS485:115200/ 500K/1M/2.5M	CAN:1M/RS485:115200/ 500K/1M/2.5M	CAN:1M/RS485:115200/ 500K/1M/2.5M	CAN:1M/RS485:115200/ 500K/1M/2.5M
重量 Weight	kg	0.3	0.35	0.59	0.71

* **额定扭矩测试方法**：在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* **Rated torque test method**: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

Integrated Planetary Actuator

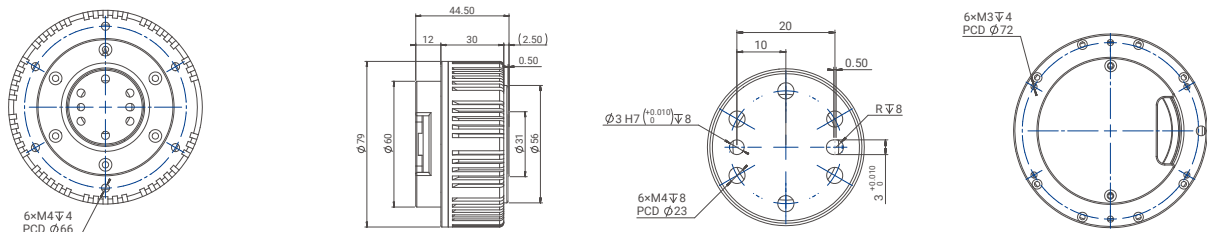
一体化行星减速模组

RMD-X V3 系列 双编码器

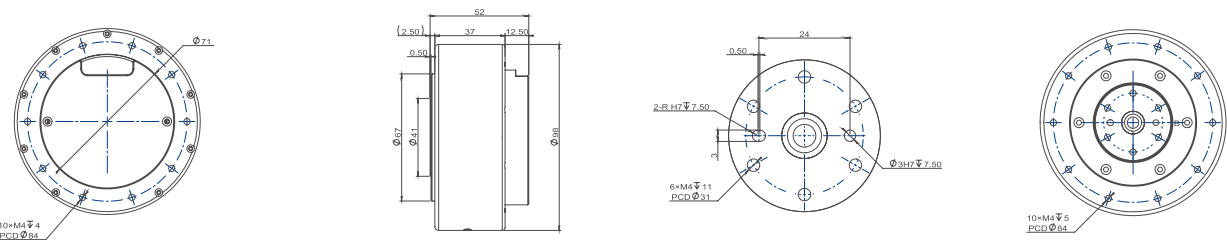


尺寸安装图 Installation Drawing

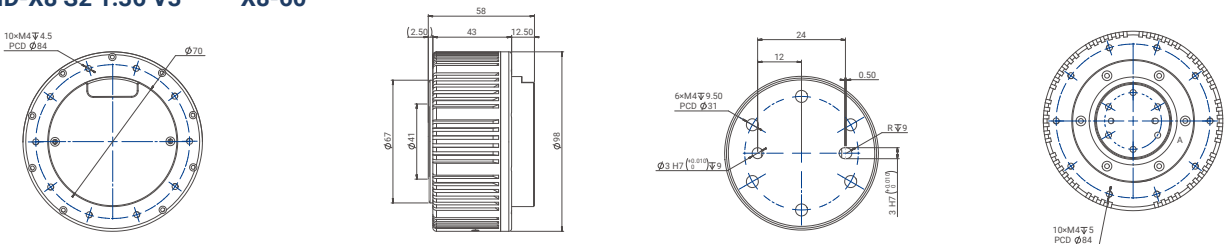
曾用名 Previous Name 电机简称 Motor Simplified Name
RMD-X6 1:8 V3 **X6-8**



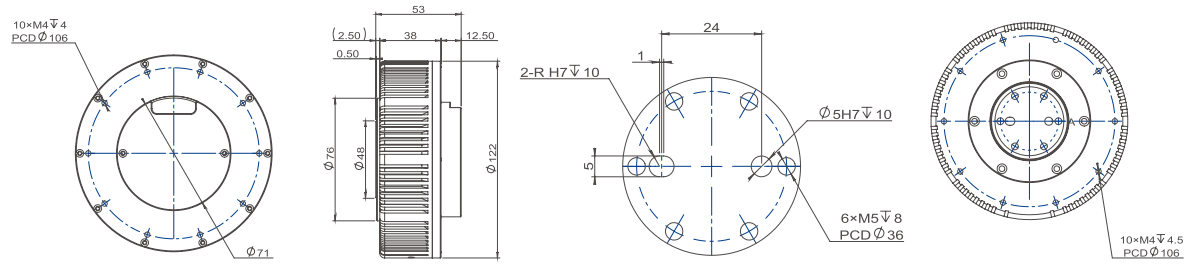
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RMD-X8-Pro-H 1:6 V3 **X8-20**



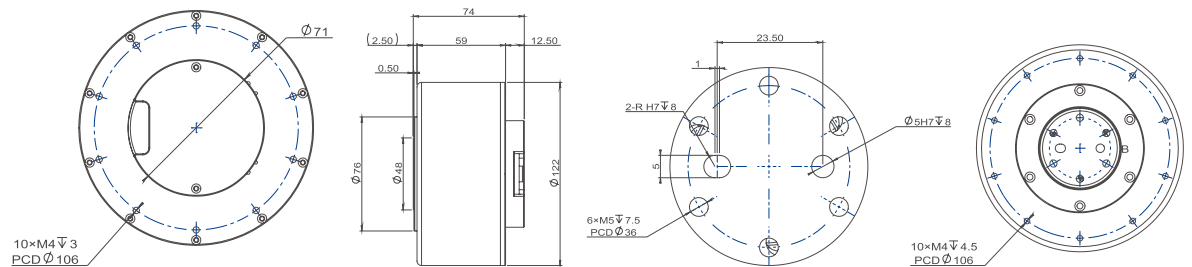
曾用名 Previous Name 电机简称 Motor Simplified Name
RMD-X8 S2 1:36 V3 **X8-60**



曾用名 Previous Name 电机简称 Motor Simplified Name
RMD-X10 1:7 V3 **X10-40**



曾用名 Previous Name 电机简称 Motor Simplified Name
RMD-X10 S2 1:35 V3 **X10-100**



产品参数 Product Parameters

参数 Parameters	单位 Unit	X6-8	X8-20	X8-60	X10-40	X10-100
减速比 Gear ratio		8:1	6:1	36:1	7:1	35:1
输入电压 Input Voltage	V	48	48	48	48	48
额定转速 Rated Speed	RPM	310	190	40	165	50
额定转矩 Rated Torque	N.m	4.5	10	30	15	50
额定功率 Rated Power	W	135	200	130	265	265
额定电流 Rated Current	A	3.6	5.2	4	6.5	6.7
峰值扭矩 Peak Torque	N.m	8	20	60	40	100
峰值电流 Peak Current	A	7.2	10.5	8	15	13.5
效率 Efficiency	%	78	80	69	82	82
极对数 Pole Pair	—	14	20	20	21	21
反驱动力矩 Anti-Force Torque	N.m	0.1	0.4	1	0.62	2.88
背隙 Backlash	Arcsec/ Arcmin	10	10	15	10	15
轴向负载 Axial Payload	N	775	985	985	1625	1625
径向负载 Radial Payload	N	1040	1250	1250	2250	2250
转动惯量 Inertia	Kg.cm ²	6.8	20	96	39.7	198.6
编码器类型 Encoder Type	bit	16bit / 14bit	16bit / 14bit	16bit / 14bit	16bit / 14bit	16bit / 14bit
通信方式 Communication	—	CAN:1M/RS485:115200/ 500K/1M/2.5M	CAN:1M/RS485:115200/ 500K/1M/2.5M	CAN:1M/RS485:115200/ 500K/1M/2.5M	CAN:1M/RS485:115200/ 500K/1M/2.5M	CAN:1M/RS485:115200/ 500K/1M/2.5M
重量 Weight	kg	0.49	0.78	0.9	1.15	1.7

* 额定扭矩测试方法：在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

Integrated Harmonic Actuator

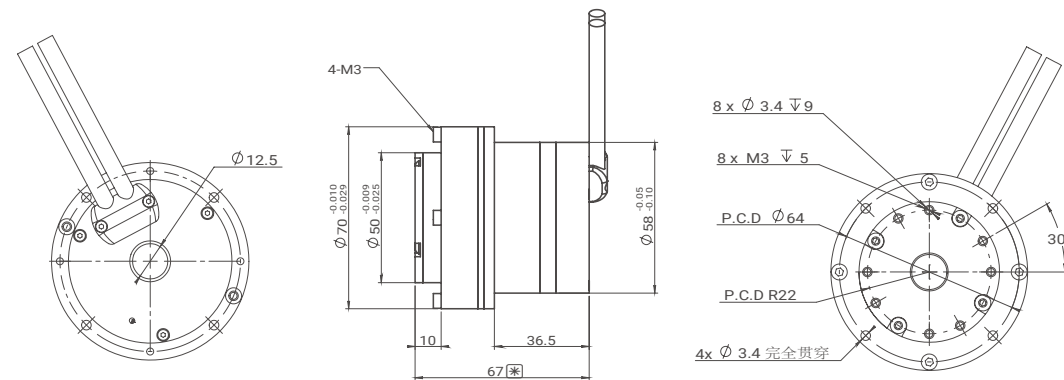
一体化谐波模组

高精度 承载力强

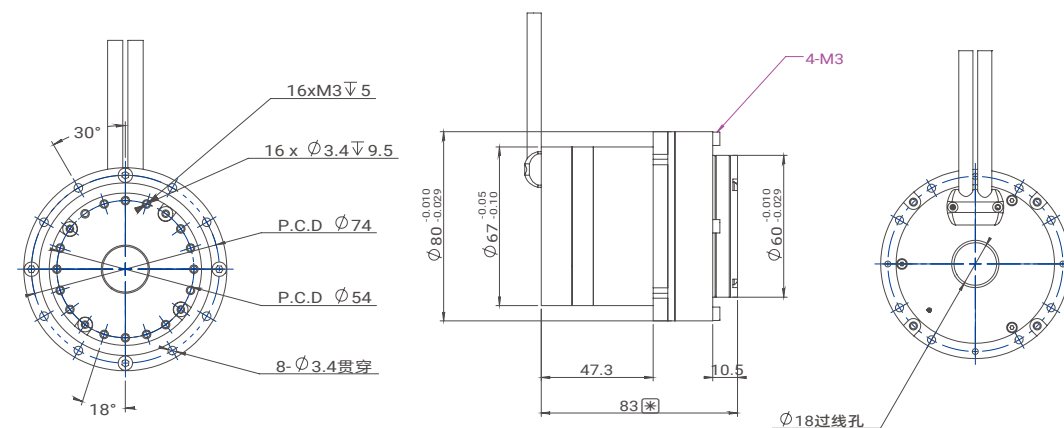


尺寸安装图 Installation Drawing

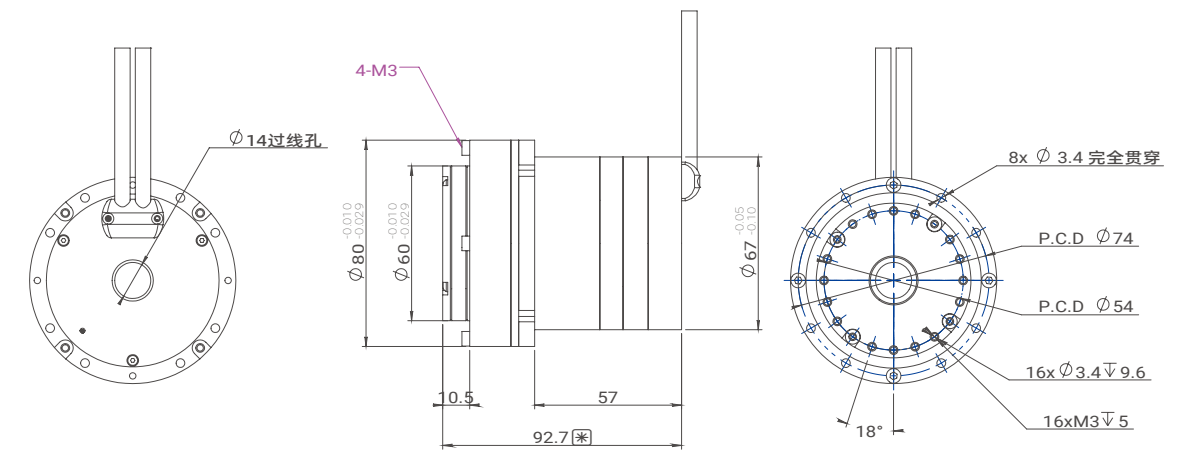
· EPS-RH-14-XX-C-N



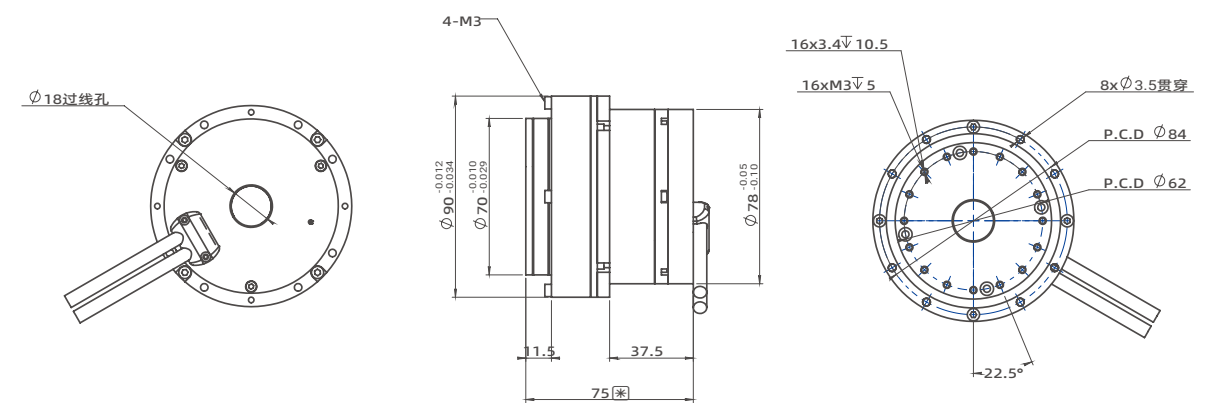
· EPS-RH-17-XX-C-N



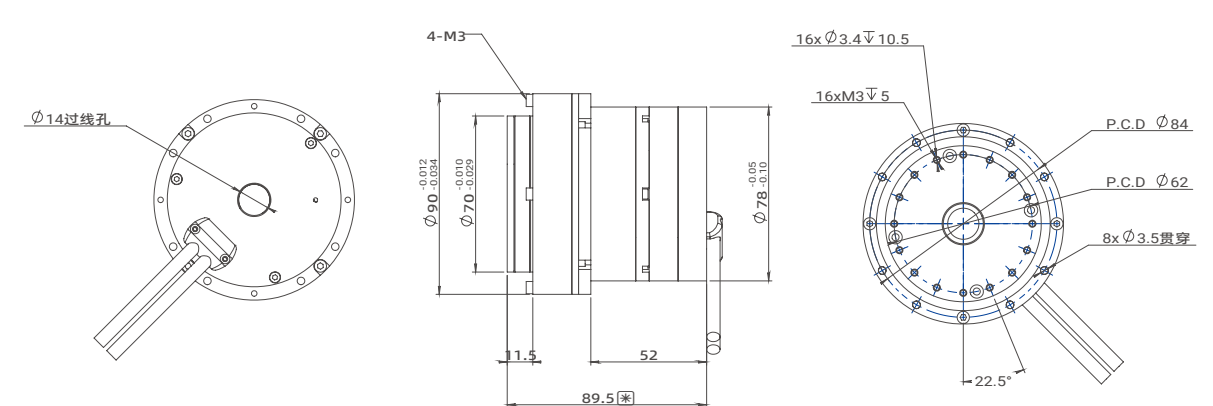
· EPS-RH-17-XX-C-B



· EPS-RH-20-XX-C-N



· EPS-RH-20-XX-C-B



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-14	RH-17		RH-20	
减速比 Gear ratio		100	80	100	80	100
输入电压 Input Voltage	V	48	48	48	48	48
空载转速 No Load Speed	RPM	30	37	30	37	30
空载电流 No Load Current	A	0.9	1.25	1.45	2.31	2.59
额定转速 Rated Speed	RPM	25	31	25	31	25
额定转矩 Rated Torque	N.m	11	28	35	40	50
额定功率 Rated Power	W	100	180	180	250	250
额定电流 Rated Current	A	6.5	9	9	13	13
峰值扭矩 Peak Torque	N.m	28	43	54	64	80
峰值电流 Peak Current	A	16.25	13.86	13.86	20.8	20.8
效率 Efficiency	%	—	—	—	—	—
反电势常数 Back-EMF Constant)	Vdc/Krpm	1.39	2.79	2.79	2.79	2.79
扭矩常数 Torque Constant	N.m/A	0.02	0.04	0.04	0.04	0.04
线电阻 Phase to Phase Resistance	Ω	0.9	0.77	0.77	0.38	0.38
线电感 Phase to Phase Inductance	mH	0.4	0.38	0.38	0.33	0.33
极对数 Pole Pair	—	10	10	10	10	10
齿槽转矩 Cogging Torque	mN.m	—	—	—	—	—
接线方式 3 Phase Connection	—	Y	Y	Y	Y	Y
反驱力矩 Anti-Force Torque	N.m	—	—	—	—	—
背隙 Backlash	Arcsec/ Arcmin	< 40 Arcsec	< 40 Arcsec	< 40 Arcsec	< 40 Arcsec	< 40 Arcsec
轴向负载 Axial Paylaod	N	270	400	400	650	650
径向负载 Radial Paylaod	N	270	400	400	650	650
转动惯量 Inertia (N)	Kg.cm ²	0.04	0.08	0.1	0.11	0.14
转动惯量 Inertia (B)	Kg.cm ²	/	0.11	0.12	0.13	0.16
编码器类型及接口 Encoder Type&Interface	—	ABS-17bit	ABS-17bit	ABS-17bit	ABS-17bit	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
通信方式 Communication	—	CAN / RS485/EtherCAT	CAN / RS485/EtherCAT	CAN / RS485/EtherCAT	CAN / RS485/EtherCAT	CAN / RS485/EtherCAT
重量 Weight (N)	kg	0.71	1.1	1.1	1.45	1.45
重量 Weight (B)	kg	/	1.25	1.25	1.6	1.6
绝缘等级 insulation grade	—	F	F	F	F	F
防护等级 level of protection	—	IP54	IP54	IP54	IP54	IP54

* 额定扭矩测试方法：在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

Integrated Harmonic Actuator

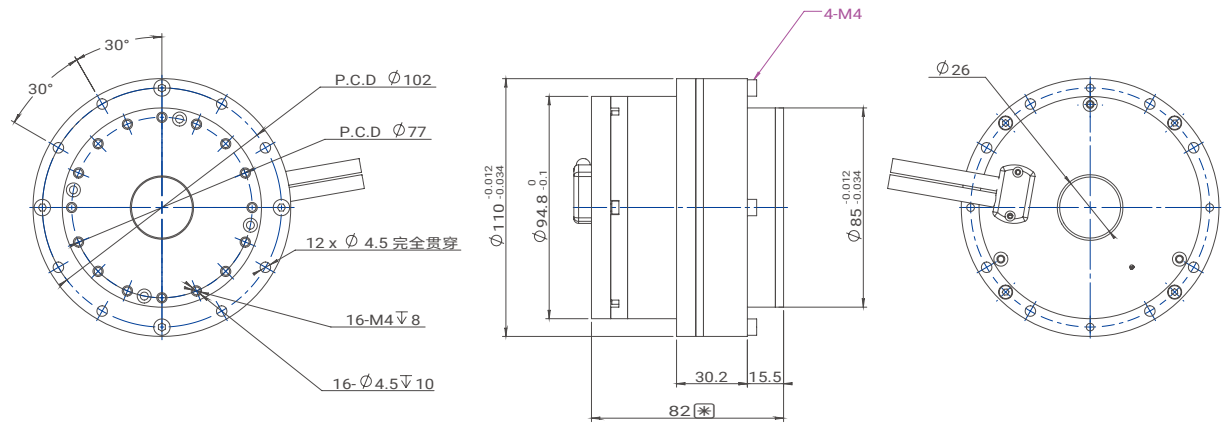
一体化谐波模组

高精度 承载力强

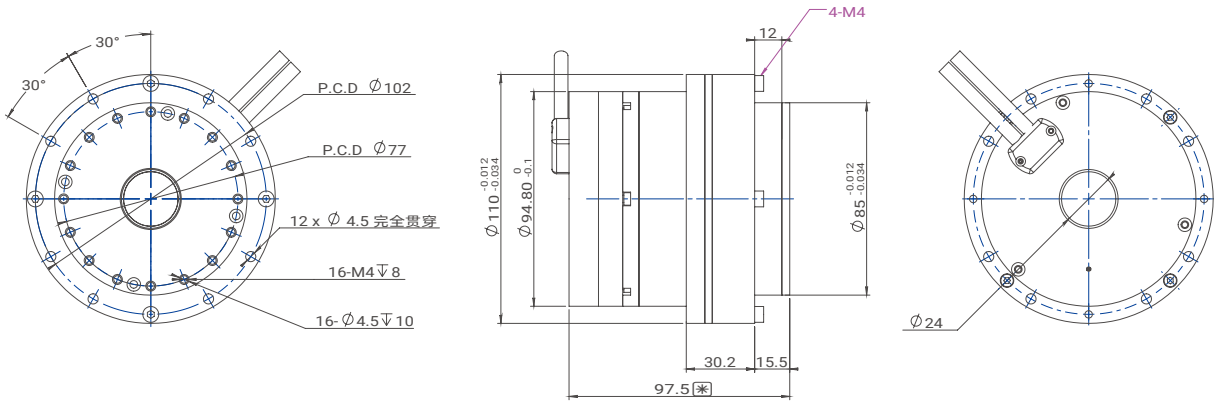


尺寸安装图 Installation Drawing

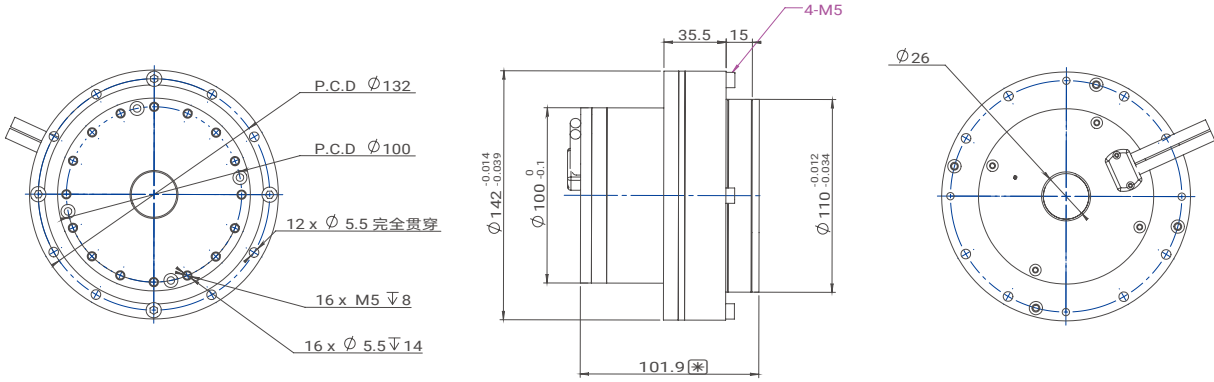
· EPS-RH-25-XX-C-N



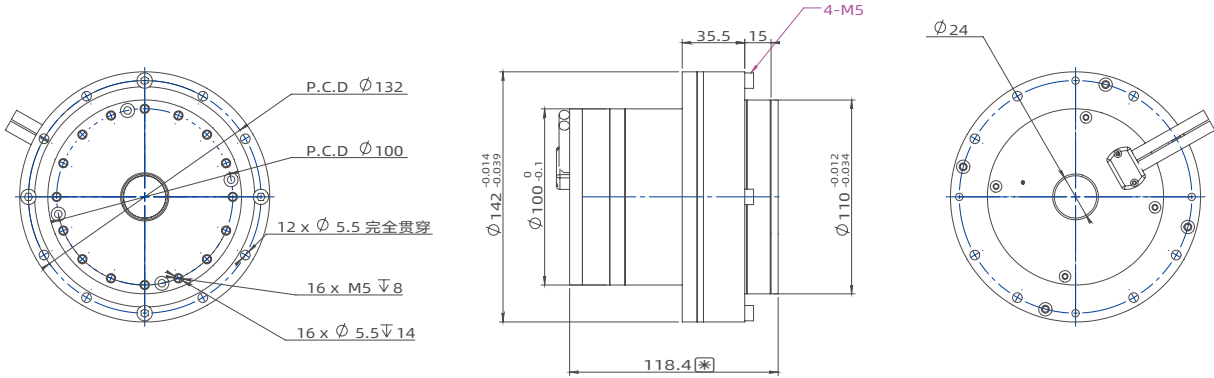
· EPS-RH-25-XX-C-B



· EPS-RH-32-XX-C-N



· EPS-RH-32-XX-C-B



产品参数 Product Parameters

参数 Parameters	单位 Unit	RH-25		RH-32	
减速比 Gear ratio		80	100	80	100
输入电压 Input Voltage	V	48	48	48	48
空载转速 No Load Speed	RPM	35	30	25	20
空载电流 No Load Current	A	1.41	1.61	3.7	3.9
额定转速 Rated Speed	RPM	30	25	22	18
额定转矩 Rated Torque	N.m	86	108	120	150
额定功率 Rated Power	W	400	400	700	700
额定电流 Rated Current	A	16	16	20	20
峰值扭矩 Peak Torque	N.m	126	157	183	229
峰值电流 Peak Current	A	23.2	23.2	33.44	33.44
效率 Efficiency	%	—	—	—	—
反电势常数 Back-EMF Constant)	Vdc/Krpm	4.89	4.89	6.28	6.28
扭矩常数 Torque Constant	N.m/A	0.07	0.07	0.09	0.09
线电阻 Phase to Phase Resistance	Ω	0.23	0.23	0.08	0.08
线电感 Phase to Phase Inductance	mH	0.3	0.3	0.13	0.13
极对数 Pole Pair	—	10	10	10	10
齿槽转矩 Cogging Torque	mN.m	—	—	—	—
接线方式 3 Phase Connection	—	Y	Y	Y	Y
反驱力矩 Anti-Force Torque	N.m	—	—	—	—
背隙 Backlash	Arcsec/ Arcmin	< 40	< 40	< 40	< 40
轴向负载 Axial Paylaod	N	900	900	1350	1350
径向负载 Radial Paylaod	N	900	900	1350	1350
转动惯量 Inertia (N)	Kg.cm ²	0.27	0.35	0.85	1.1
转动惯量 Inertia (B)	Kg.cm ²	0.33	0.44	0.93	1.21
编码器类型及接口 Encoder Type&Interface	—	ABS-17bit	ABS-17bit	ABS-17bit	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.01	< 0.01	< 0.01	< 0.01
通信方式 Communication	—	CAN / RS485/EtherCAT	CAN / RS485/EtherCAT	CAN / RS485/EtherCAT	CAN / RS485/EtherCAT
重量 Weight (N)	kg	2.3	2.3	4.3	4.3
重量 Weight (B)	kg	2.82	2.82	4.7	4.7
绝缘等级 insulation grade	—	F	F	F	F
防护等级 level of protection	—	IP54	IP54	IP54	IP54

* 额定扭矩测试方法：在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

Integrated Cycloidal Actuator

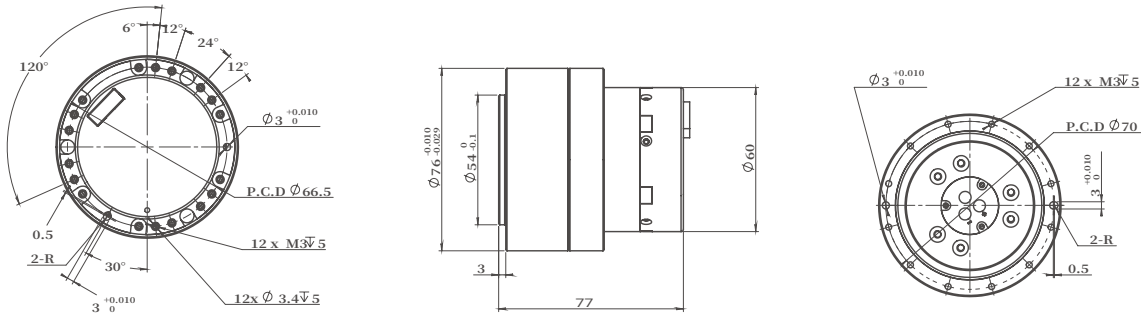
一体化摆线模组

高扭矩密度 轻量化设计

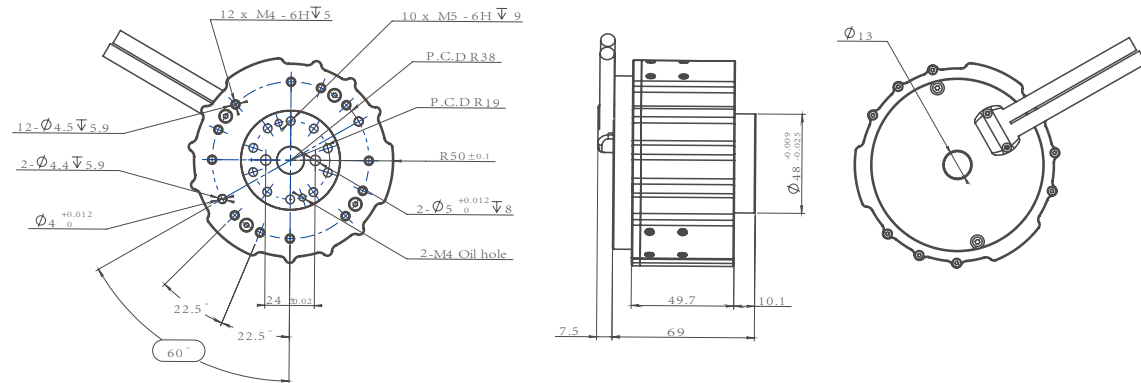


尺寸安装图 Installation Drawing

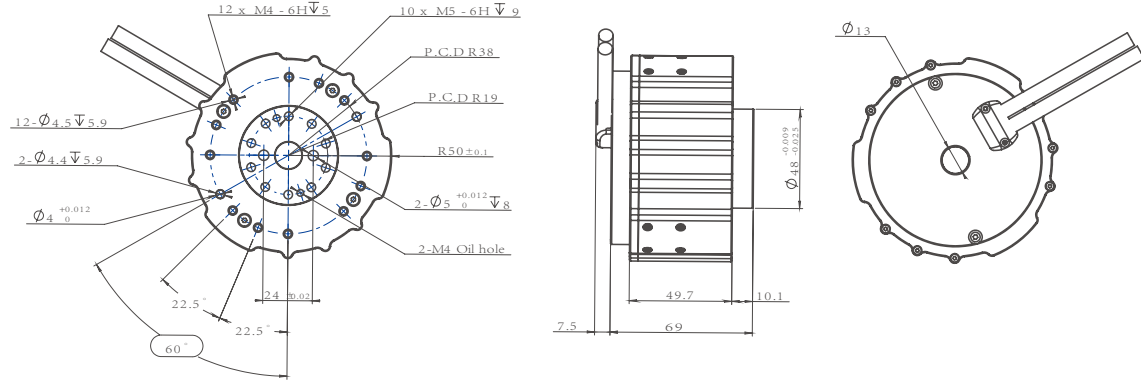
· CEM-30



· CEM-60



· CEM-90



产品参数 Product Parameters

参数 Parameters	单位 Unit	CEM-30	CEM-60	CEM-90
减速比 Gear ratio		120	50	50
输入电压 Input Voltage	V	24	60	60
空载转速 No Load Speed	RPM	30	50	50
空载电流 No Load Current	A	1.15	0.96	1.32
额定转速 Rated Speed	RPM	25	40	40
额定转矩 Rated Torque	N.m	30	60	90
额定功率 Rated Power	W	120	330	500
额定电流 Rated Current	A	5.5	5.6	8.4
峰值扭矩 Peak Torque	N.m	50	120	180
峰值电流 Peak Current	A	8.7	14.0	20.9
效率 Efficiency	%	—	—	—
反电势常数 Back-EMF Constant)	Vdc/Krpm	3.17	13.96	18.85
扭矩常数 Torque Constant	N.m/A	0.04	0.20	0.27
线电阻 Phase to Phase Resistance	Ω	0.327	0.307	0.27
线电感 Phase to Phase Inductance	mH	0.134	0.208	0.231
极对数 Pole Pair	—	14	20	20
齿槽转矩 Cogging Torque	mN.m	—	—	—
接线方式 3 Phase Connection	—	Y	Y	Y
反驱力矩 Anti-Force Torque	N.m	—	—	—
背隙 Backlash	Arcsec/ Arcmin	< 3 Arcmin	< 3 Arcmin	< 3 Arcmin
轴向负载 Axial Paylaod	N	3360 (受压)	4080 (受压)	4080 (受压)
径向负载 Radial Paylaod	N	4664	5752	5752
转动惯量 Inertia	Kg.cm²	—	—	—
编码器类型及接口 Encoder Type&Interface	—	ABS-17bit	ABS-17bit	ABS-17bit
重复定位精度 Repeat Position Accuracy	Degree	< 0.02 Degree	< 0.02 Degree	< 0.02 Degree
通信方式 Communication	—	CAN / RS485/EtherCAT	CAN / RS485/EtherCAT	CAN / RS485/EtherCAT
重量 Weight	kg	0.96	1.24	1.28
绝缘等级 insulation grade	—	B	B	B
防护等级 level of protection	—	IP54	IP54	IP54

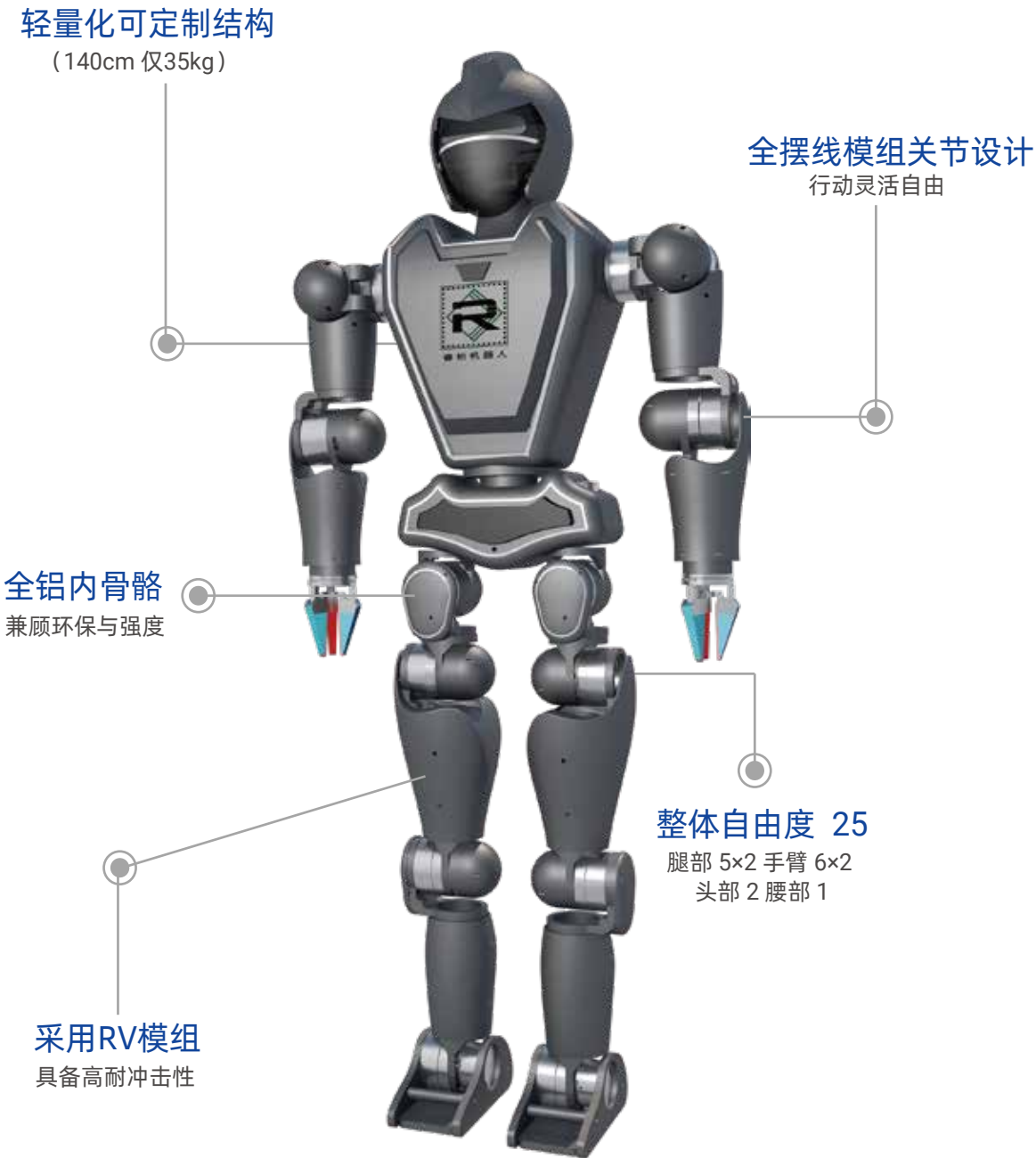
* 额定扭矩测试方法：在环境温度摄氏24度（无其他散热方式）下，在额定转速下进行测试，电机扭矩在温升60度条件下达到温度平衡、可长时间工作点为该电机额定扭矩值。

* Rated torque test method: When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

Application Cases

应用案例

睿柏机器人



超轻体重

整体机身仅35kg

高精度

重复定位精度：±0.05 毫米

长续航

站立姿态低至20w 续航3-6h

高负载

单臂最高可负载5kg

快响应

手臂移动速度：1 m/s

高自由度

整体自由度25

睿柏机器人	
型号	Raybot
机构	人形机器人
手腕可搬运重量	5kg
重复定位精度	±0.05mm
本体重量	35kg

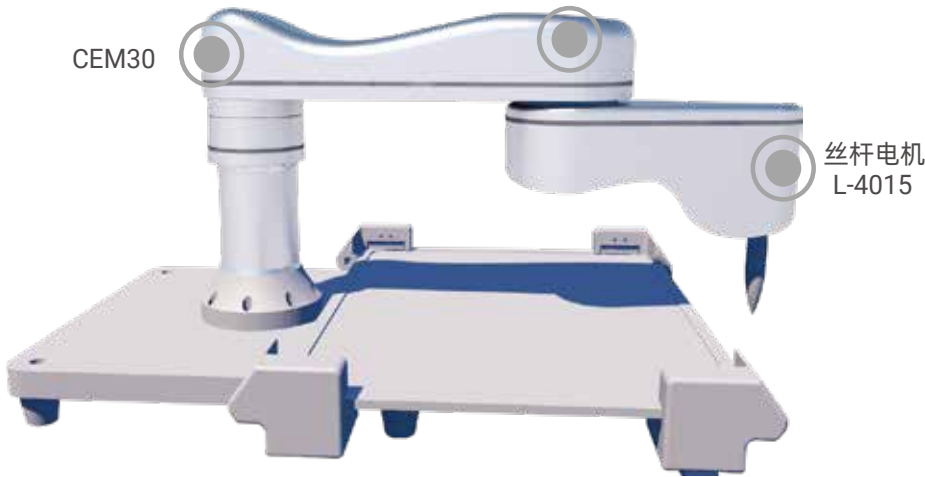
应用案例

六轴谐波机械臂



NV6 机械臂参数		
额定负载		3 kg
工作半径		630 mm
关节最大角速度		120 °/s
末端最大线速度		1.3 m/s
关节活 动范围	J1	± 360°
	J2	± 90°
	J3	± 150°
	J4	± 360°
	J5	± 360°
	J6	± 360°
重复定位精度		±0.05 mm
IP 等级		IP54
噪声		60 dB(A)
温度范围		0 °C ~ 50 °C
湿度范围		≤95%，非冷凝
供电电压		24V
功耗	典型值	36 W
	最大值	240 W
控制方式		WOSC@802.11b/g/n or CAN
材质		航空铝合金+高分子复合材料
本体重量		6.5 kg

SCARA



名称	Raybot-S300D			Raybot-S400H	
工作半径	300MM			400MM	
额定功率	300w			500W	
额定电压	48V			48v	
额定电流	6.25A			10A	
整机质量	2.5kg			5Kg	
关节数据		运动范围	最高速度	运动范围	最高速度
	J1	± 360°	720°/s	± 360°	360°/s
	J2	± 360°	720°/s	± 360°	360°/s
	J3	50mm	50mm/s	50mm	50mm/s
最高重复定位精度	0.05mm			0.05mm	
末端负载	500g			5kg	
通讯方式	485/CAN/WIFI/Ethercat			485/CAN/WIFI/Ethercat	

力控夹爪

名称	RaybotG1
夹取行程	120mm
最高夹取速度	50mm/s
最高重复定位精度	0.1mm
整体高度	165mm
法兰直径	80mm
额定功率	60W
额定电压	24V
额定电流	2.5A
整机质量	360g
最大负重	2Kg
最大夹持力	20N



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