WYOO
萬源集團

Small MOQ • Fast delivery • Professional custom

小批量可做 · 交期稳定 · 专业定制

Shenzhen Wan Yuan Transmission Co., Ltd.
深圳万原传动有限公司

Shenzhen Meiliya Technology Co., Ltd.
深圳市美利雅科技有限公司

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WYOO
萬源集團

WYOO TRANSMISSION

Micro Gear Motor • Gearbox • Precision Gear

精密传动解决方案供应商

微型减速电机 · 齿轮箱 · 精密齿轮

深圳万原传动有限公司
SHENZHEN WAN YUAN TRANSMISSION CO., LTD.

深圳市美利雅科技有限公司
SHENZHEN MEILIYA TECHNOLOGY CO., LTD.

一站式定制服务 | 按需研发生产 | 全球标准认证 | 解决精密传动定制需求 | 适配多场景设备应用 | 保障稳定高效运行
One-stop Custom Service | Custom R&D & Production | Global Standard Certification
Solve Precision Transmission Custom Needs | Adapt to Multi-scenario Equipment | Ensure Stable & Efficient Operation

BRAND ORIENTATION
品牌定位

We are not just a manufacturer.
We are your transmission partner.
我们不只是制造商，
更是您的传动系统合作伙伴。

Deeply rooted in precision transmission since 2012, WYOO expanded its business scope in 2024 to include micro gear motors and gearboxes, delivering comprehensive one-stop solutions.
凭借自2012年以来在精密传动领域的深厚积淀，WYOO在2024年正式进军微型减速电机和齿轮箱市场，实现了一站式服务的全面升级。

CORE ADVANTAGES
核心优势

Why WYOO stands out

Professional Precision Machining & Testing
精密加工与检测

Gear hobbing, grinding and 2D measuring for strict quality control of every product.
滚齿、磨齿、二次元检测，全流程严控产品精度。

High Efficiency & Ultra-low Noise
高效能低噪音

Advanced technology for excellent energy efficiency and silent operation, ideal for home, medical and industrial equipment.
先进技术打造高能效、超静音运行，适配家用、医疗、工业设备。

Full Customization & Fast Response
全维定制 快速响应

Customizable voltage, torque, gear ratio, etc. to meet your requirements.
电压、扭矩、速比等均可按需定制。

Global Certification & Reliable Quality
全球认证品质优

ISO9001, CE, RoHS certified, compliant with global market standards for stable quality.
全系通过 ISO9001、CE、RoHS 认证，符合全球市场标准，品质稳定可靠。

WYOO 萬源集團

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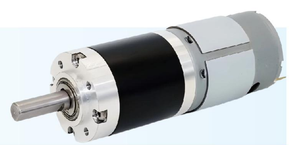

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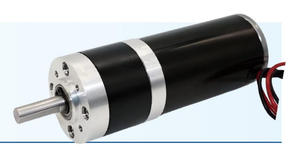

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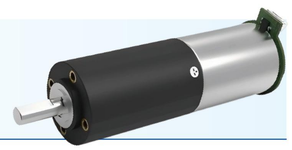

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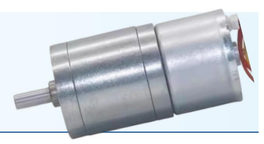

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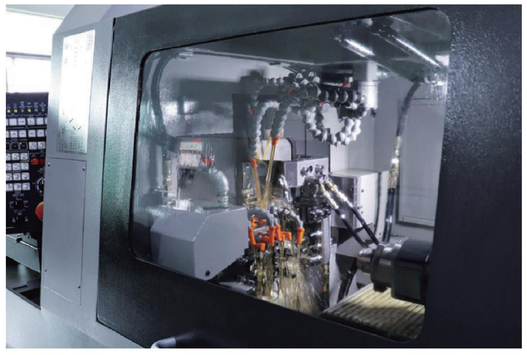
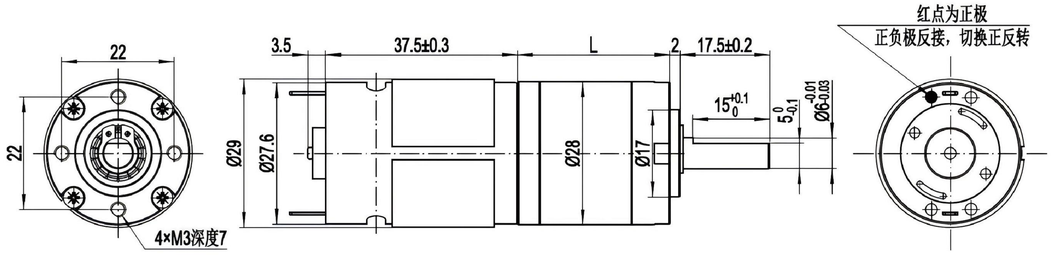
PRODUCTION CENTER
生产中心



28P-385

Application: Micro-mechanisms, smart door locks, robots, medical devices, automation equipment, CNC machine tools, high-precision measuring instruments, etc.
适用范围：微型机械、智能门锁、机器人、医疗器械、自动设备、数控机床、高精密测量仪等
Operating Voltage：DC 24 V

马达尺寸图（单位：mm）



马达参数 Motor Parameters

Model	Voltage	No-load		Rated Load				Stall	
		Speed	Current	Speed	Current	Torque	Power	Current	Torque
	V	RPM	A	RPM	A	g.cm	W	A	g.cm
28P-385-2480-11	24	8000	0.1	5850	0.5	180	11	1.78	240

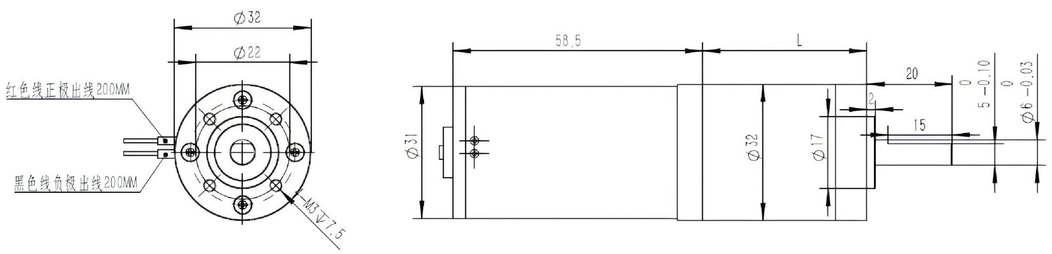
28P-385行星减速电机参数

Gear Ratio	3.353	4.636	11.243	15.544	21.492	37.696	52.12	72.064	99.639	126.396	174.76	241.632	334.09	461.927
No-load Speed (rpm)	2386	1726	712	515	372	212	153	111	80	63	46	33	24	17
No-load Current (A)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Rated Torque (kg.cm)	0.37	0.43	0.74	1.79	2	2.26	3.39	4.06	4.73	5	15.63	17.84	26.3	28.4
Load Speed (rpm)	1324	1243	562	322	260	174	112	90	71	53	35	27.3	19	15
Load Current (A)	0.764	0.623	0.462	0.615	0.55	0.407	0.534	0.44	0.359	0.345	0.634	0.515	0.611	0.42
Output Power (W)	5.13	5.59	4.35	6.03	5.44	4.1	3.94	3.82	3.51	2.78	5.71	5.1	5.18	4.46
Stall Torque (kg.cm)	0.86	1.35	3	4.32	6.5	11	12.2	17	22.8	29.6	37.2	54.2	No Stall	
Stall Current (A)	1.464	1.72	1.54	1.525	1.518	1.61	1.86	1.526	1.541	1.525	1.488	1.525		
Length (mm)	23.2		29.8			36.4				43				
Weight (g)	140		160			180				200				

32P-31Z

Application: Smart window openers, robots, medical devices, automation equipment, CNC machine tools, high-precision measuring instruments, etc.
适用范围：智能开窗器、机器人、医疗器械、自动设备、数控机床、高精密测量仪等
Operating Voltage：DC 12 V/24 V

马达尺寸图（单位：mm）



马达参数 Motor Parameters

Model	Voltage	No-load		Rated Load				Stall	
		Speed	Current	Speed	Current	Torque	Power	Current	Torque
	V	RPM	A	RPM	A	g.cm	W	A	g.cm
32P-31Z-1280	12	8000	0.25	6900	1	60	4.3	6	900
32P-31Z-2480	24	8000	0.15	6900	0.5	120	8.6	3.5	1000

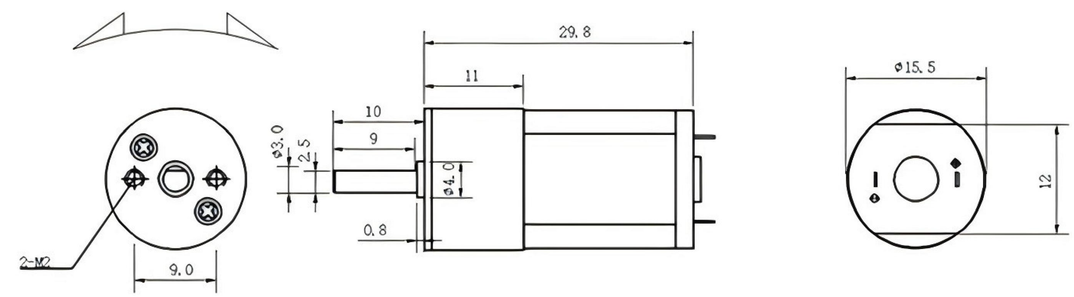
32P-31Z-1280行星减速电机参数

Gear Ratio	3.353	4.636	11.243	15.544	21.492	37.696	52.12	72.064	99.639	126.396	174.76	241.632	334.09	461.927
No-load Speed (rpm)	2386	1726	712	515	372	212	153	111	80	63	46	33	24	17
No-load Current (A)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Rated Load (kg.cm)	0.52	0.56	1.33	2.05	2.3	4.22	5	7.13	8.35	14.46	14.88	19.85	32.61	33.12
Load Speed (rpm)	1786	1361	580	417	312	181	136	94	73	52	40	31.0	20	16
Load Current (A)	1.829	1.397	1.416	1.478	1.312	1.327	1.055	1.169	1.179	1.593	1.339	1.136	1.507	1.181
Output Power (W)	9.72	7.98	8.07	8.94	7.47	8	7.1	7	6.37	7.93	6.21	6.4	6.89	5.37
Stall Torque (kg.cm)	2	2.5	5.7	7.8	10	20	27.28	35	47	54	Do not stall or reverse instantly under load			
Stall Current (A)	5.784	5.168	6	5.486	5.663	5.77	5.756	5.315	5.431	5.421				
Length (mm)	23.2		29.8			36.4				43				
Weight (g)	230		260			290				320				

16A-030

Applications: Electronic locks, electric toothbrushes, electric toys, robots, smart devices, valves, smart door locks, projectors, etc.
适用范围：电子锁、电机牙刷、电动玩具、机器人、智能设备、阀门、智能门锁、投影仪等
Operating Voltage：DC 1.5 V~12 V

马达尺寸图（单位：mm）



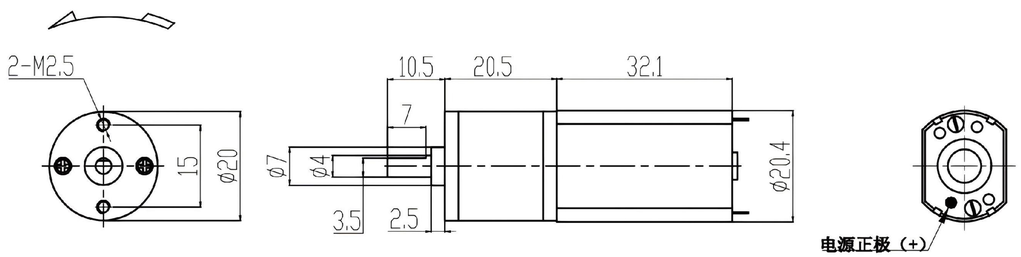
马达参数 Motor Parameters

Model	Rated Voltage	No-load		Rated				Stall		Weight
		Speed	Current	Speed	Current	Torque	Power	Torque	Current	
	V	±10% RPM	mA	±10% RPM	mA	kg.cm	W	kg.cm	mA	g
16A-030-35K	6	340	48	293	108	0.05	0.14	0.28	525	19
16A-030-52K	6	230	48	200	123	0.09	0.18	0.42	525	19
16A-030-100K	6	120	48	100	128	0.166	0.18	0.8	525	19
16A-030-150K	6	80	48	67	140	0.27	0.19	1.2	525	19
16A-030-250K	6	50	48	29.3	255	0.46	0.14	2	525	19
16A-030-360K	6	33	48	25.9	142	0.59	0.16	2.9	525	19

20A-180

Applications: Instruments, digital products, medical devices, security & surveillance, model robots, smart door locks, electric toys, hair curlers.
适用范围：仪表仪器、数码产品、医疗器械、安防监控、模型机器人、智能门锁、电动玩具、卷发器
Operating Voltage：DC 6 V~24 V

马达尺寸图（单位：mm）



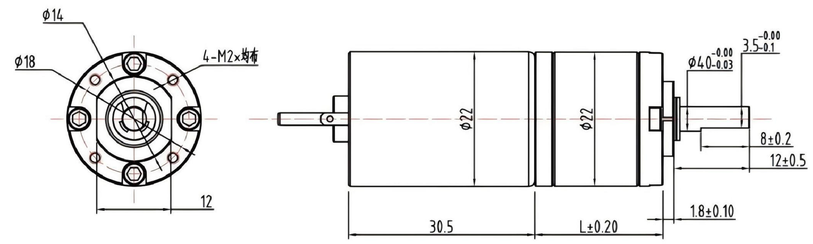
马达参数 Motor Parameters

Model	Rated Voltage	No-load		Rated				Locked Rotor		Wright	Length
		Speed	Current	Speed	Current	Torque	Power	Torque	Current		
	V	±10% RPM	mA	±10% RPM	mA	kg.cm	W	kg.cm	A	g	mm
20A-180-25K	12	480	0.1	396	0.22	0.43	1.2	1.75	2.5	52	16
20A-180-31K	12	380	0.1	304	0.52	0.43	1.36	2.17	2.5	52	16
JCA20-180-50K	12	240	0.1	200	0.48	0.6	1.26	2.6	2.5	53	17.3
20A-180-63K	12	200	0.1	156	0.51	0.86	1.4	3.5	2.5	53	17.3
20A-180-78K	12	150	0.1	120	0.49	0.97	1.21	3.9	2.5	53	17.3
20A-180-100K	12	120	0.1	97	0.5	1.38	1.4	5.4	2.5	54	19
20A-180-125K	12	100	0.1	73	0.54	2.48	1.9	8.7	2.5	54	19
20A-180-195K	12	60	0.1	49	0.53	4	2.09	No Stalling		54	19
20A-180-250K	12	50	0.1	40	0.53	4.96	2.07			54	20.5
20A-180-312K	12	38	0.1	31	0.47	6	1.94			54	20.5
20A-180-390K	12	30	0.1	24.5	0.42	6	1.5			54	20.5
20A-180-500K	12	24	0.1	22	0.38	6	1.35			54	20.5

22P-2230

Applications: Smart home appliances, smart home, office automation, automotive, medical, personal care, robots, electronic locks, industrial automation, etc.
适用范围：智能家电、办公自动化、汽车、医疗、个人护理、机器人、电子锁、工业自动化等
Operating Voltage：DC 12 V~24 V

马达尺寸图（单位：mm）



马达参数 Motor Parameters

Model	Voltage	No-load		Rated				Locked Rotor	
		Speed	Current	Speed	Current	Torque	Power	Current	Torque
	V	RPM	A	RPM	A	g.cm	W	A	g.cm
22P-2230-17185DA-48S	12	9000	0.09	7812	0.33	51.3	4.1	2.5	330
22P-2230-11390DA-48S	24	9000	0.05	7350	0.25	43.2	3.3	1.1	270

22P-2230-1290 减速电机参数

Gear Ratio	3.5	4.75	12	16	24	49	107	144	204	304	510
No-load Speed (RPM)	2500	1900	750	560	380	185	85	60	45	30	18
Rated Torque (kg·cm)	0.14	0.20	0.5	0.7	1.0	2.0	4.3	6.0	8.3	12.5	16.0
Loaded Speed (RPM)	2200	1600	660	500	330	160	75	55	39	26	15
Stall Torque (kg·cm)	1.0	1.3	3.3	4.4	6.6	8.5	18.5	25.0	No Stalling		
Dimension L (mm)	14		17.5			21			24.5		
Weight (g)	68		75			83			90		

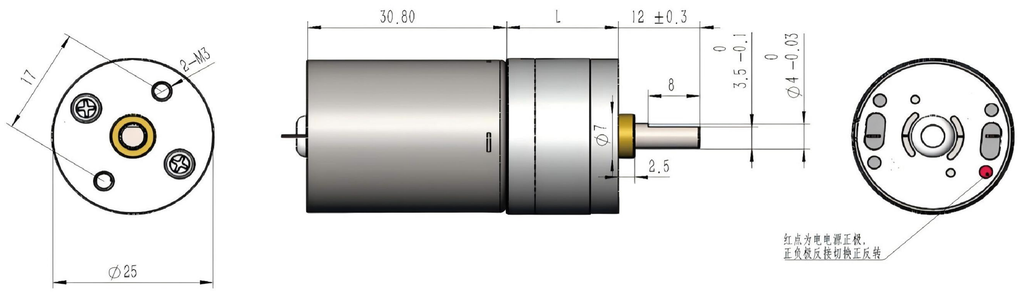
22P-2230-2490 减速电机参数

Gear Ratio	3.5	4.75	12	16	24	49	107	144	204	304	510
No-load Speed (RPM)	2500	1900	750	560	380	185	85	60	45	30	18
Rated Torque (kg·cm)	0.12	0.16	0.4	0.6	0.8	1.6	3.7	5.0	7	11	16
Loaded Speed (RPM)	2200	1600	660	500	330	160	75	55	39	26	15
Stall Torque (kg·cm)	0.8	1.0	2.50	3.4	5.2	10.0	18.5	23.0	No Stalling		
Dimension L (mm)	14		17.5			21			24.5		
Weight (g)	68		75			83			90		

25A-370

Applications: Smart self-balancing two-wheel scooters, smart home appliances, machinery, camera jibs, electric tape cutters.
适用范围：智能自平衡双衡双轮车、智能家电、机器、摄像摇臂、电动切胶纸机
Operating Voltage：DC 6 V/12 V/24 V

马达尺寸图（单位：mm）



马达参数 Motor Parameters

Model	Voltage	No-load		Rated Load				Stall	
		Speed	Current	Speed	Current	Torque	Power	Current	Torque
	V	RPM	A	RPM	A	g.cm	W	A	g.cm
25A-370-0660-36	6	6000	0.07	4900	0.42	40	2	3	220
25A-370-1260-36	12	6000	0.035	4900	0.25	40	2	1.4	220
25A-370-2460-36	24	6000	0.02	4900	0.15	40	2	0.8	220

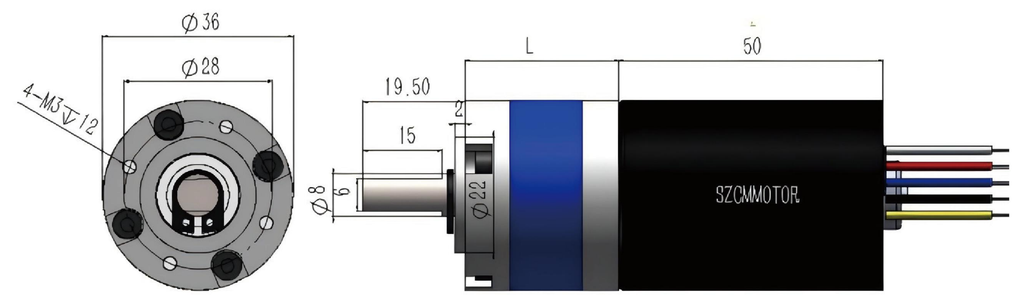
25A-370-0660减速电机参数

Gear Ratio	4.4	9.6	21.3	35.5	46.8	78	103	171	226	378	500
No-load Speed (RPM)	1360	620	280	170	130	77	60	35	26	16	12
Rated Load (kg.cm)	0.07	0.16	0.35	0.6	0.8	1.3	1.7	2.9	3.8	6.3	8.3
Load Speed (RPM)	1110	500	230	140	105	60	48	29	22	13	10
Stall Torque (kg.cm)	0.4	0.9	2	3.3	4.4	5.5	7.3	Do not stall or reverse instantly under load			
Length (mm)	18	17.5	19	21		23		25		27	

36P-3650

Applications: Intelligent rail transit, subway doors, windows and doors, massagers, smart equipment, medical devices, parking locks, valves, new energy vehicles, electric tools, etc.
适用范围：智能轨道交通、地铁门、门窗、按摩器、智能设备、医疗器械、车位锁、阀门、新能源汽车、电动工具等
Operating Voltage：DC 12 V/24 V

马达尺寸图（单位：mm）



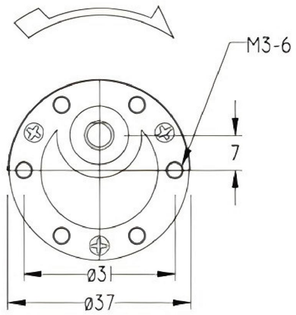
马达参数 Motor Parameters

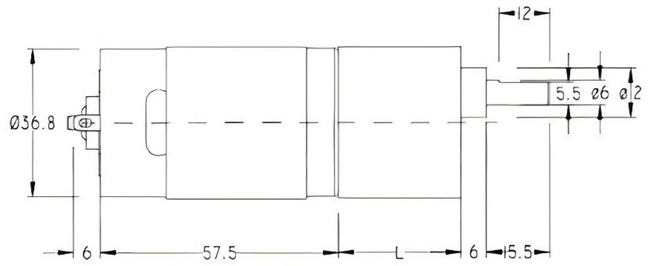
Model	Gear Ratio	No-load		Rated			Stall		Gearbox length	Weight
		Speed	Current	Rated Load	Load Speed	Current	Stall Torque	Current		
V		RPM	mA	kg.cm	RPM	A	kg.cm	A	mm	g
12 V	3.7	1600	230	0.7	1300	1.3	3.2	4	26.6	666
	5.18	1200	230	1	1000	1.3	4.6	4		
	14	430	230	3	360	1.3	10.7	4	32.6	735
	27	230	230	5	195	1.3	20.7	4		
	50	120	230	9	100	1.3	38	4		
	71	85	230	13	75	1.3	46	4	38.7	800
	100	60	230	18	52	1.3	65	4		
	139	45	230	20	40	1.3	90	4		
	189	32	230	26	24	1.3	110	4	44.8	875
	263	23	230	36	17	1.3	150	4		
	369	16	230	51	12	1.3	No stalling	4		
	516	12	230	71	9	1.3		4		
	721	8	230	100	6	1.3		4		

37B-555

Application: Smart home, intelligent devices, automation equipment, medical instruments, electronic locks, automotive electronics, robots, precision instruments, etc.
适用范围：智能家居、智能设备、自动化设备、医疗仪器、电子锁、汽车电子、机器人、精密仪器等。
Operating Voltage：DC 12 V/24 V

马达尺寸图（单位：mm）





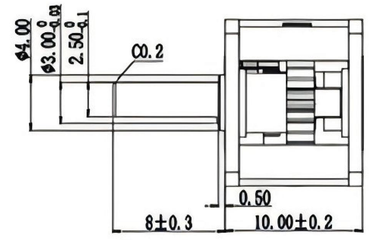
马达参数 Motor Parameters

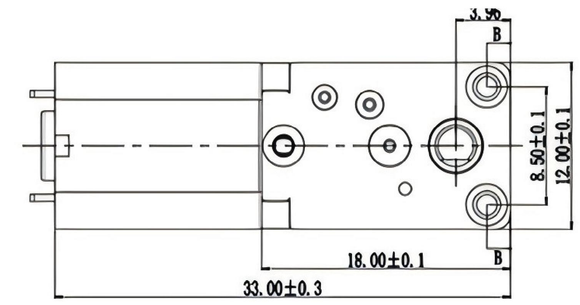
Model	Rated Voltage	No-load		Rated				Stall		Weight	Length
		Speed	Current	Speed	Current	Torque	Power	Torque	Current		
	V	±10% RPM	mA	±10% RPM	mA	kg.cm	W	kg.cm	A	g	mm
37B-555-6.25K	12	800	0.2	650	1.2	0.12	8.22	0.35	6.5	295	19
37B-555-10K	12	500	0.2	407	1.2	0.2	8.56	0.7	6.5		
37B-555-18.75K	12	267	0.2	217	1.2	0.37	8.44	1	6.5	300	22
37B-555-30K	12	167	0.2	136	1.2	0.6	8.56	1.6	6.5		
37B-555-56.25K	12	89	0.2	72	1.2	1.12	8.52	3	6.5	305	24
37B-555-90X	12	56	0.2	45	1.2	1.8	8.56	5	6.5		
37B-555-131.25K	12	38	0.2	31	1.2	2.6	8.48	No Stalling		310	26.5
37B-555-168.75K	12	30	0.2	24	1.2	3.36	8.52				
37B-555-270K	12	19	0.2	15	1.2	5.4	8.56			315	29
37B-555-506.25K	12	10	0.2	8	1.2	7	5.92				
37B-555-810K	12	6	0.2	5	1.2	7	3.7				

12Z-N20

Application: Intelligent toys, medical equipment, simulation robots, electronic locks, and other fields.
适用范围：智能玩具、医疗、模拟机器人、电子锁等领域
Operating Voltage：DC 12 V
Operating Power: 1.02 W

马达尺寸图（单位：mm）





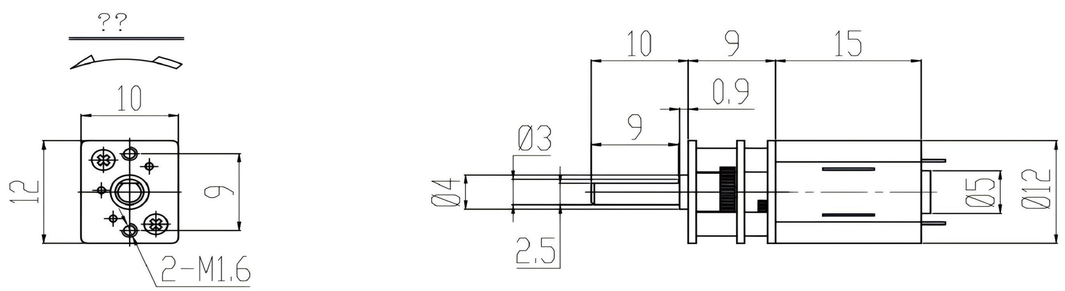
马达参数 Motor Parameters

Rated Voltage	Speed	No-load		Load		Starting Voltage	Stall Current	Stall Torque	Rated Torque
	RPM	Speed (RPM)	Current (mA)	Speed (RPM)	Current (mA)	V	mA	gf.cm	gf.cm
42	1600	381	30	333	85	0.5	700	235.2	71
118	1600	136	30	119	85	0.5	700	472	142
236	1600	68	30	59	85	0.5	700	944	283
302	1600	53	30	46	85	0.5	700	1208	362
603	1600	27	30	23	85	0.5	700	1929.6	579
1016	1600	16	30	14	85	0.5	700	3251.2	975

12F-N20

Application: Smart locks, gaming devices, fingerprint locks, shared bike locks, cameras, toy cars, model airplanes, medical equipment, etc.
适用范围：智能锁、游戏设备、指纹锁、共享单车锁、摄像头、玩具车、模型飞机、医疗设备等
Operating Voltage：DC 1.5~12V

马达尺寸图（单位：mm）



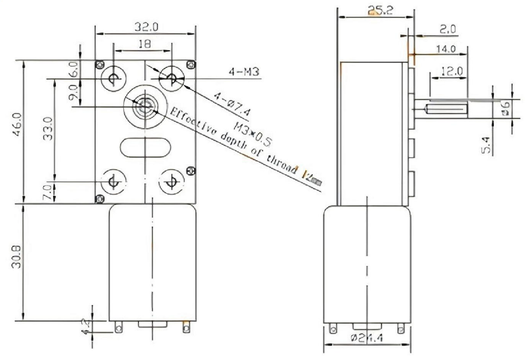
马达参数 Motor Parameters（DC 6 V 06150）

Gear Ratio	5	10	20	30	50	100	150	210	250	298	380	1000
No-load Current (mA)	≤30	≤30	≤30	≤30	≤30	≤30	≤30	≤30	30	≤30	30	≤30
No-load Speed (rpm)	3000	1500	750	500	300	150	100	71	60	50	39	15
Rated Torque (kg.cm)	22	44	88	132	221	440	662	924	1103	1300	1670	3000
Rated Speed (rpm)	2308	1154	577	384	231	115	77	55	46	39	30	11.5
Rated Current (mA)	≤150	≤150	≤150	≤150	≤150	≤150	≤150	≤150	≤150	≤150	≤150	≤150
Max Torque (g.cm)	37	73	147	220	368	738	1103	1544	1838	2200	No Stall	
Stall Current (mA)	300	300	300	300	300	300	300	300	300	300		

4632Z-370

Application: Cat litter boxes, small washing machines, electronic locks, range hoods, display stands, robots, smart devices, barbecue machines, etc.
适用范围：猫沙盆、小型洗衣机、电子锁、油烟机、展示台、机器人、智能设备、烤肉机等
Operating Voltage：DC 12 V/24 V

马达尺寸图（单位：mm）



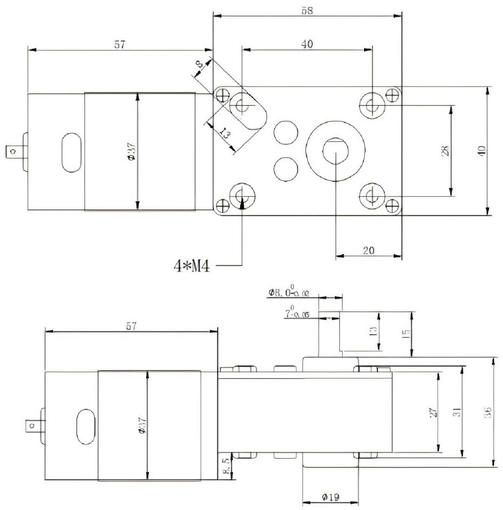
马达参数 Motor Parameters（DC 6 V 06150）

Rated Voltage DC 6 V								
Gear Ratio	40	65	150	200	260	340	600	1000
No-load Current (mA)	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100
No-load Speed (rpm)	150	90	40	30	23	18	10	6
Rated Torque (kg.cm)	1.2	2	4.5	6	8	12	17	25
Rated Speed (rpm)	100	70	30	22	17	13	7	4
Rated Current (A)	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6
Max Torque (kg.cm)	2.5	4	9	12.5	16	21	35	35
Stall Current (A)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Rated Voltage DC 12 V								
Gear Ratio	40	65	150	200	260	340	600	1000
No-load Current (mA)	≤60	≤60	≤60	≤60	≤60	≤60	≤60	≤60
No-load Speed (rpm)	150	90	40	30	23	18	10	6
Rated Torque (kg.cm)	1.2	2	4.5	6	8	12	17	25
Rated Speed (rpm)	100	70	30	22	17	13	7	4
Rated Current (A)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Max Torque (kg.cm)	2.5	4	9	12.5	16	21	35	35
Stall Current (A)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

5840Z-555

Application: Smart home, household appliances, intelligent equipment, automation devices, robots, etc.
适用范围：智能家居、家用电器、智能设备、自动化设备、机器人等。
Operating Voltage：DC 12 V/24 V

马达尺寸图（单位：mm）



马达参数 Motor Parameters（DC 6 V 06150）

Rated Voltage DC 12 V							
Gear Ratio	17	31	50	100	200	290	500
No-load Speed (rpm)	470	260	160	80	40	27	12
Rated Torque (kg.cm)	2.5	4.5	7.3	14.5	29	42	60
Rated Speed (rpm)	380	200	130	60	30	20	12
Max Torque (kg.cm)	4.3	8	12.5	25	51	70	70
Rated Voltage DC 24V							
Gear Ratio	17	31	50	100	200	290	500
No-load Speed (rpm)	470	260	160	80	40	27	16
Rated Torque (kg.cm)	8	9.5	15	30	40	50	60
Rated Speed (rpm)	380	200	130	60	30	20	12
Max Torque (kg.cm)	17	31	50	50	70	70	70

APPLICATION FIELDS
应用领域

Smart Lock 智能锁

Medical Device 医疗设备

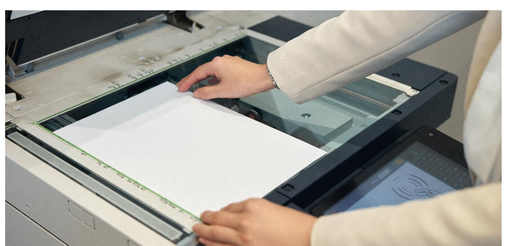
Beauty Instrument 美容仪器

Home Appliance 智能家居

Camera & PTZ 相机与云台

Electronic Cigarette 电子烟

Robot 机器人


Office Equipment 办公设备