

STEPPER MOTOR
PRODUCT CATALOG

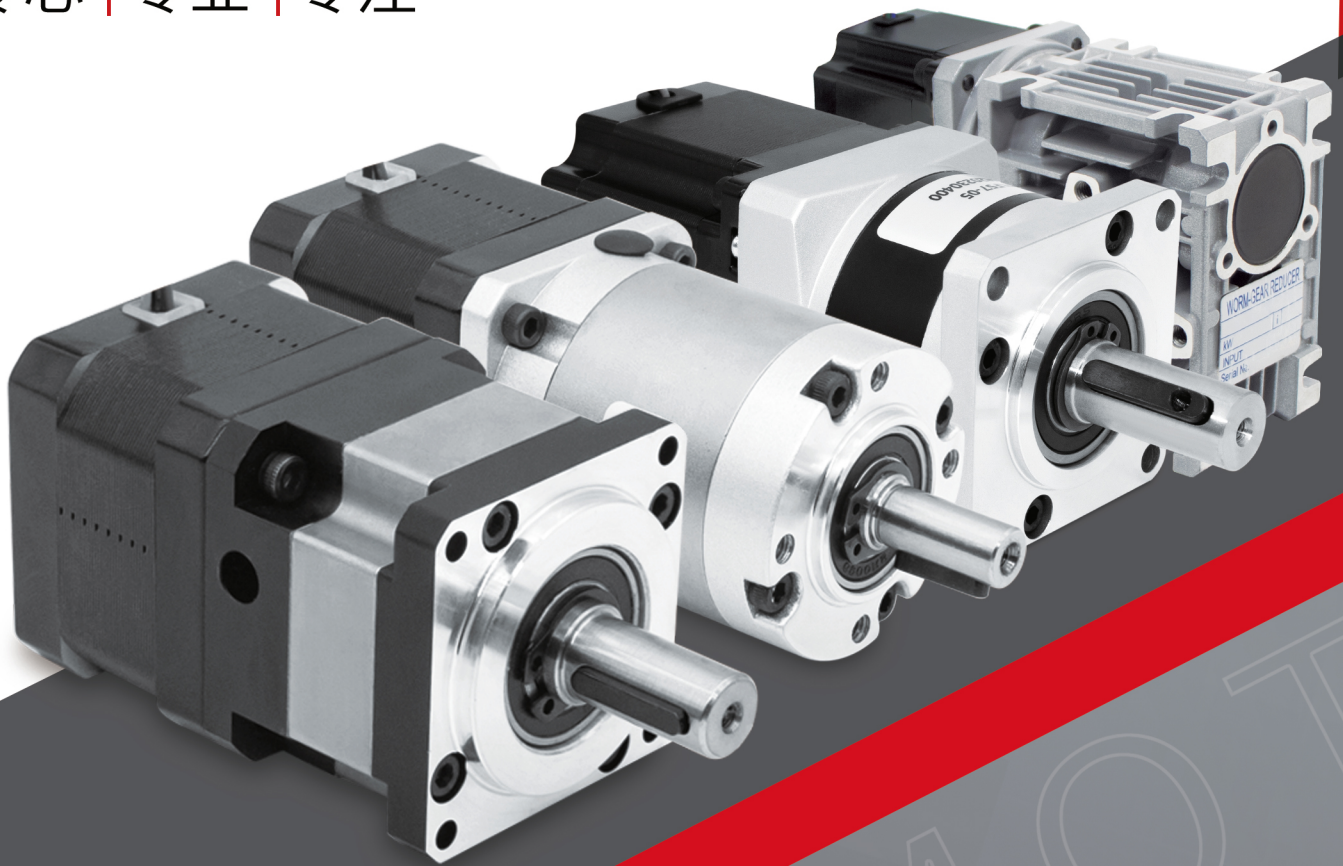
UMOT 优摩特®

减速步进电机 选型手册

致力于研发、销售步进电机、
直线模组及相关运动控制产品

Committed to R&D and sales of stepper motors,
linear modules and related motion control products

专心 | 专业 | 专注



CHONGQING UMOT
TECHNOLOGY CO.,LTD

重庆优摩特科技有限公司

V2.2



UMOT

ABOUT US 关于我们

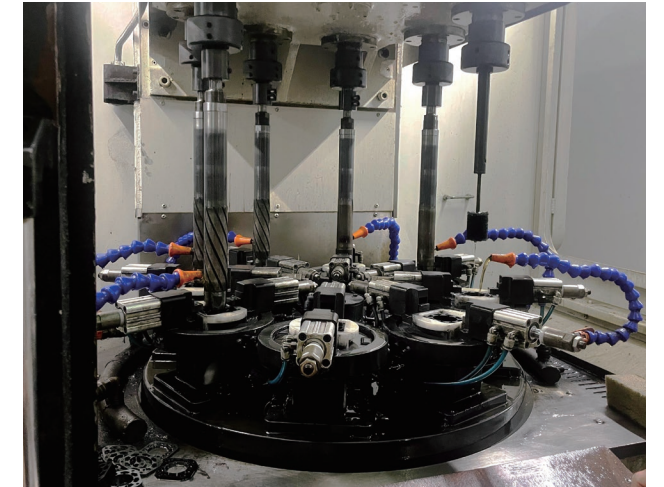
重庆优摩特科技有限公司专业致力于研发、销售步进电机、直线模组及相关运动控制产品，面向全球有专项需求的用户定制、设计高品质电机产品，提供运动控制系统整体解决方案，产品远销美、德、法、意大利、俄罗斯、瑞士等 30 多个国家和地区。公司主打产品和系统设计目前已广泛应用于自动化控制、精密仪器、医疗设备、智能家居、3D 打印等诸多领域。

Chongqing UMOT Technology Co., Ltd, which is dedicated to R&D and sales of stepper motor, linear module and related motion control products. It provides customized and designed high-quality motor for customers all over the world, and provides full solutions for motion control systems. Our products are exported to more than 30 countries and regions, such as The United States, Germany, France, Italy, Russia, and Switzerland. Our main product and solution has been widely applied to many industry, such as automation control, precision instruments, medical equipment, smart home, 3D printing and so on.

企业简介

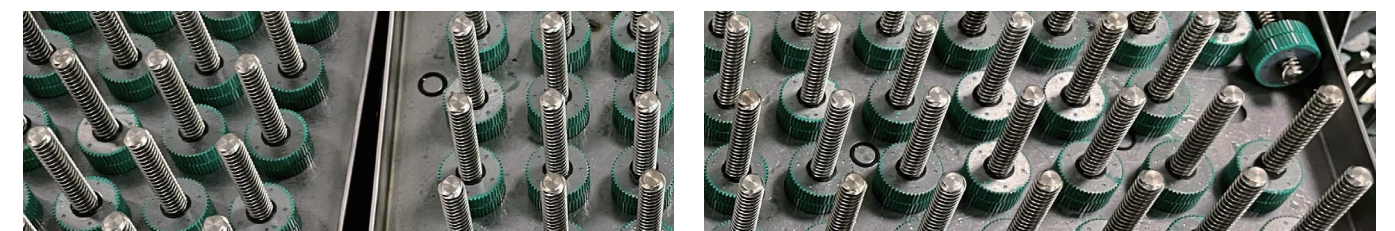
公司已获相关部门认定为高新技术企业，拥有完善的质量管理体系，获得了 ISO9001、CE、RoHs 等相关认证，并持有多项电气类专利证书。

The company has been recognized as a high-tech enterprise by the relevant departments. It has obtained ISO9001, CE, RoHs and other related certifications under the complete quality management system, as well as holds a number of electrical patent certificates.



“专心、专业、专注”于电机研发、系统控制方案的自动化领域是公司的经营宗旨。“做您最信赖的伙伴”是公司的服务理念。我们一直以“用专业的技术做一流的产品”为目标，与时俱进、不断创新，为更多的用户提供更好的产品和服务。

"Concentrate, professional, focus" in the motor and motion control solution for automation industry is the company's business objectives. "Be your most trusted partner" is the company's persistent pursuit. We have been aiming at "making best quality products with professional technology". Developing with the advance of the times and making unceasing innovation., and providing better products and services to more customers.

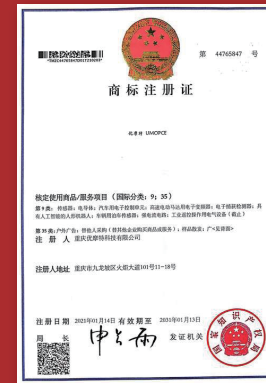


企业简介

CERTIFICATE DISPLAY 证书展示



高新技术企业证书



商标注册证书



质量管理体系认证证书



CE证书



ROHS证书



PATENT DISPLAY 专利展示



专心·专业·专注

GLOSSARY

名词解释

重复定位精度

在特定条件下，电机被指令到同一目标位置范围的一致程度

步距角精度

步进电机每转过一个步距角的实际值与理论值的误差。用百分比表示：
误差 / 步距角 * 100%

震动与噪音

当电机运行频率接近电机固有震荡频率，就会产生共振，并发出较大噪音。共振区间为 60~120RPM 之间，微步驱动可以改善低频共振现象

定位力矩

步进电机没有通电的情况下，定子锁住转子的力矩

动态力矩

在一定步进速率下电机所产生的力矩。动态力矩可由牵入力矩或牵出力矩所表示

保持力矩

步进电机通电但没有转动时，定子锁住转子的力矩

额定电流

额定电流是指用电设备在额定电压下，按照额定功率运行时的电流

额定电压

额定电压是指电气设备长时间正常工作时的最佳电压，额定电压也称为标称电压

线圈电阻

一相定子绕组的直流电阻

线圈电感

一相定绕组的最大电感

脉冲频率

单位时间内用于驱动步进马达的脉冲数，每秒脉冲数作为单位，也用做 PPS

牵出力矩

在规定驱动条件下，步进电机在给定脉冲频率下运行，不丢步时转轴上所能承受的最大负载转矩

牵入力矩

必须克服转子惯量的加速转矩，以及加速时固定连接的外接负载和各种摩擦转矩。因此牵入力矩通常小于牵出力矩

驱动器

是指用来运行步进电机的电气控制装置，包括电源、逻辑程序器、开关元件及确定步进速率的变频脉冲源

分辨率

电机每接收一个脉冲理论上转动的角度

步角距

电机的步距角表示控制系统每发送一个脉冲信号，电机所转动的角度。或者说，每输入一个脉冲电信号转子转过的角度称为步距角

温升

电机与环境的温度差，是由电机发热引起的

效率

有用功率对驱动功率的比值

惯性

物体对加速度或者减速度惯性测量值

负载力矩

阻力力矩和惯性力矩之和

径向负荷

径向负荷是指与丝杆中心轴线垂直的负载

轴向负荷

轴向负荷是指与丝杆中心轴线平行的负载

力矩

力矩在物理学里是指作用力使物体绕着转动轴或支点转动的趋向。力矩的单位是牛顿·米

扭矩

扭矩是使物体发生转动的一种特殊的力矩。发动机的扭矩就是指发动机从曲轴端输出的力矩

堵转

电机堵转是电机在转速为 0 转时仍然输出扭矩的一种情况，一般都是机械的或者人为的

频率

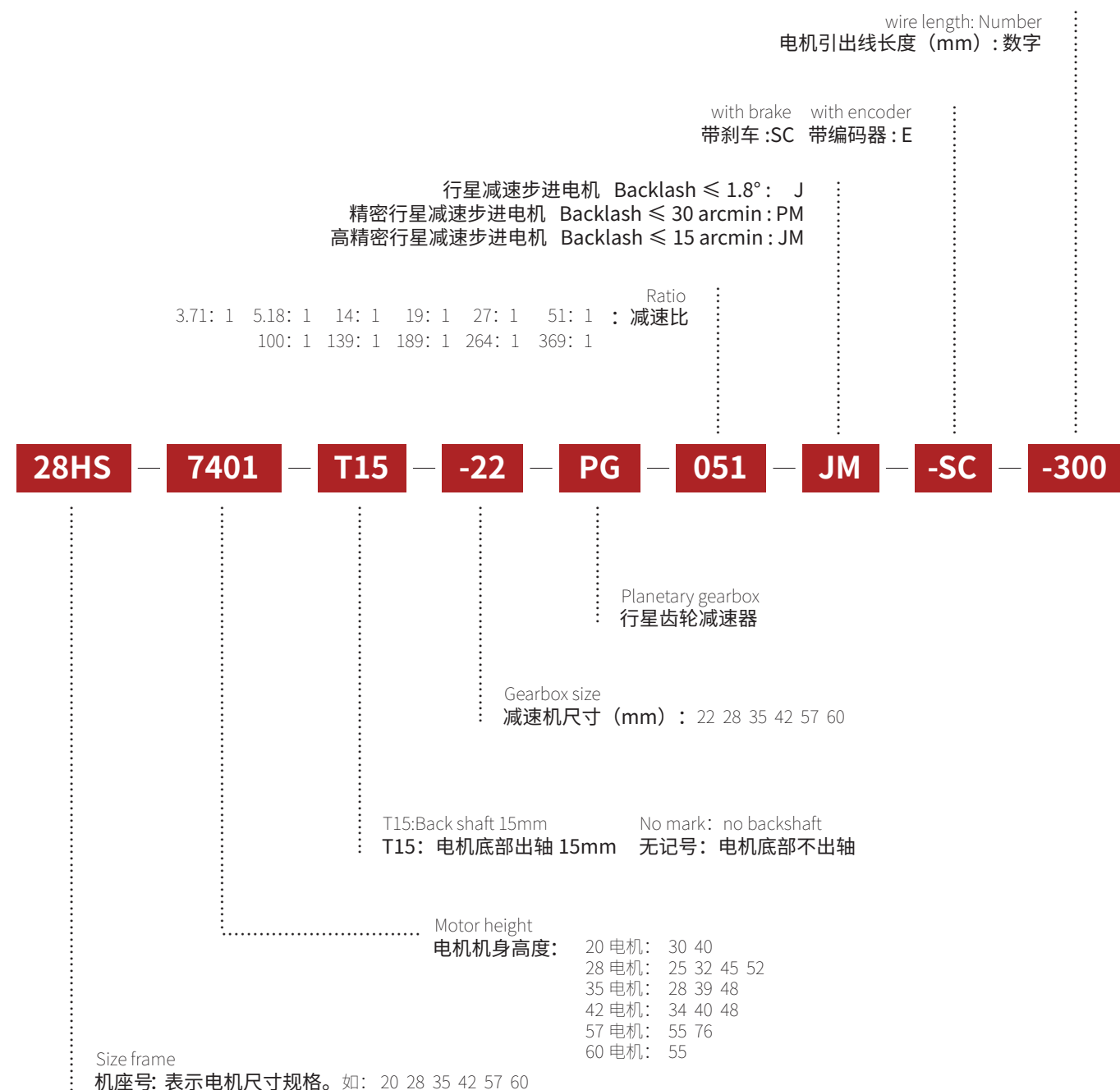
频率是单位时间内完成周期性变化的次数，是描述周期运动频繁程度的量

脉冲

指电流或电压的短暂的起伏变化

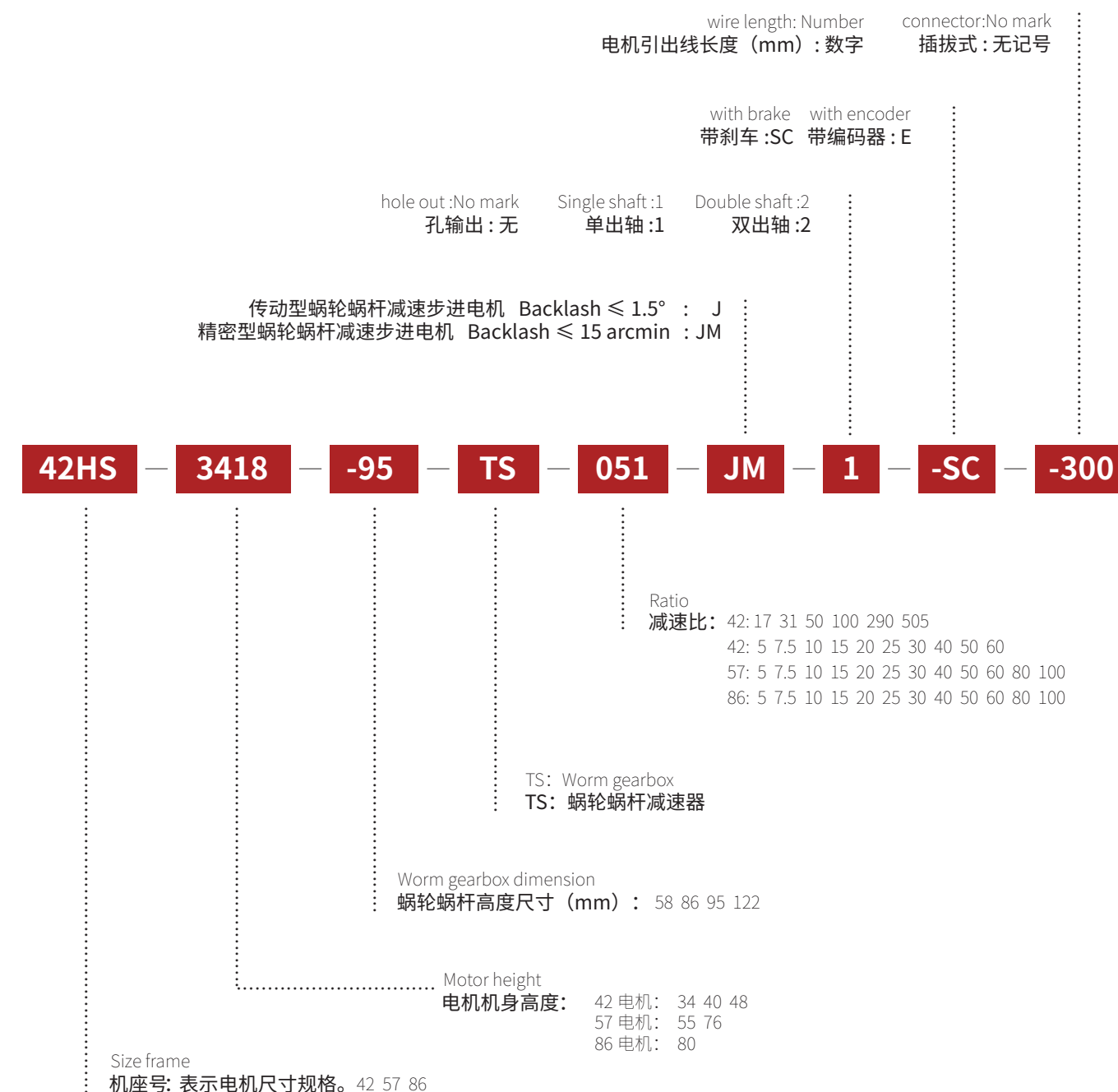
命名规则

NAMEPLATE DEFINITION OF THE PLANETARY GEARED STEPPER MOTOR 行星减速步进电机命名规则



命名规则

NAMEPLATE DEFINITION OF THE WORM GEARED STEPPER MOTOR 蜗轮蜗杆减速步进电机命名规则



P.01

行星减速步进电机

Planetary Geared Stepper Motor (Backlash $\leq 1.8^\circ$)



20 行星减速步进电机	Planetary Geared Stepper Motor (Backlash $\leq 1.8^\circ$)	01
28 行星减速步进电机	Planetary Geared Stepper Motor (Backlash $\leq 1.8^\circ$)	03
35 行星减速步进电机	Planetary Geared Stepper Motor (Backlash $\leq 1.8^\circ$)	07
42 行星减速步进电机	Planetary Geared Stepper Motor (Backlash $\leq 1.8^\circ$)	09
57 行星减速步进电机	Planetary Geared Stepper Motor (Backlash $\leq 1.8^\circ$)	11
60 行星减速步进电机	Planetary Geared Stepper Motor (Backlash $\leq 1.8^\circ$)	13

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精密行星减速步进电机

Planetary Geared Stepper Motor (Backlash ≤ 30 arcmin)

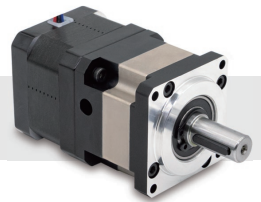


42 精密行星减速步进电机	Planetary Geared Stepper Motor (Backlash $\leq 1.8^\circ$)	15
57 精密行星减速步进电机	Planetary Geared Stepper Motor (Backlash $\leq 1.8^\circ$)	17

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高精度行星减速步进电机

Planetary Geared Stepper Motor (Backlash ≤ 15 arcmin)



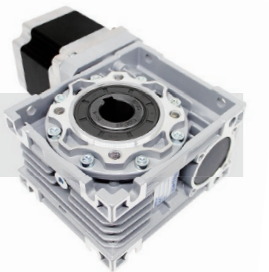
28 高精度行星减速步进电机	Planetary Geared Stepper Motor (Backlash ≤ 15 arcmin)	19
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35 高精度行星减速步进电机	Planetary Geared Stepper Motor (Backlash ≤ 15 arcmin)	23
42 高精度方形法兰减速步进电机	Square Flange Planetary Geared Stepper Motor (Backlash ≤ 15 arcmin)	27
42 高精度圆形法兰减速步进电机	Round Flange Planetary Geared Stepper Motor (Backlash ≤ 15 arcmin)	29
57 高精度行星减速步进电机	Planetary Geared Stepper Motor (Backlash ≤ 15 arcmin)	31
60 高精度行星减速步进电机	Planetary Geared Stepper Motor (Backlash ≤ 15 arcmin)	33

P.35

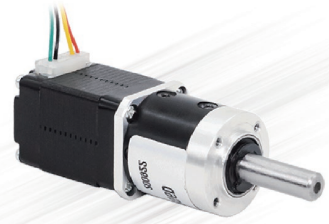
蜗轮蜗杆减速步进电机

Worm Geared Stepper Motor



42 传动型蜗轮蜗杆减速步进电机	Worm Geared Stepper Motor(Backlash $\leq 1.5^\circ$)	35
42 精密型圆形法兰蜗轮蜗杆减速步进电机	Round Flange Worm Geared Stepper Motor(Backlash ≤ 15 arcmin)	37
42 精密型方形法兰蜗轮蜗杆减速步进电机	Square Flange Worm Geared Stepper Motor(Backlash ≤ 15 arcmin)	41
57 精密型蜗轮蜗杆减速步进电机	Worm Geared Stepper Motor(Backlash ≤ 15 arcmin)	45
86 精密型蜗轮蜗杆减速步进电机	Worm Geared Stepper Motor(Backlash ≤ 15 arcmin)	49
86 精密型(重载)蜗轮蜗杆减速步进电机	Worm Geared Stepper Motor(Backlash ≤ 15 arcmin)	53

Size 20 / Nema 8



选件 / Options



20 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g·cm ²	kg	mm	
20HS1405	3.25	0.5	6.5	1.5	15	4	2	0.06	30	≤ 1: 369
20HS6401	4.40	0.8	5.5	1.5	30	4	3	0.10	41	≤ 1: 369

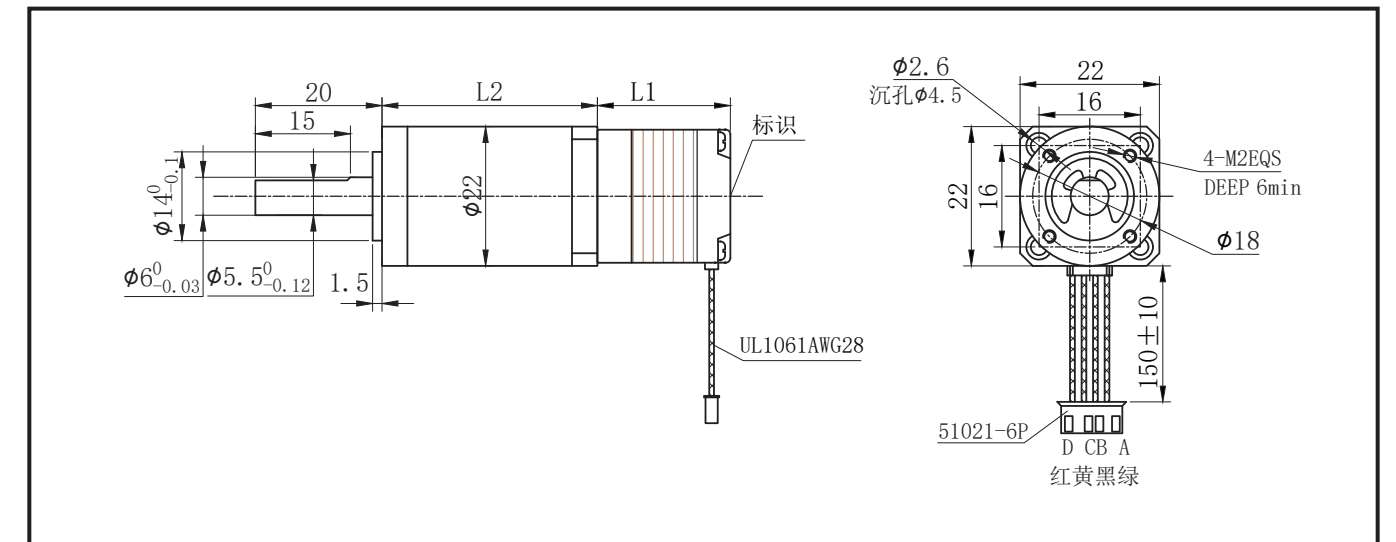
减速电机性能参数 (20HS1405) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3.7	5.2	14	19	27	51	71	100	139	189	254	369
减速电机总高度 Total Length (L1+L2) mm	53.4	53.4	60	60	60	66.4	66.4	66.4	66.4	72.8	72.8	72.8
减速电机输出扭矩 Torque for gearbox (mN.m)	50	70	170	231	328	558	777	1095	1522	1871	2000	2000
减速电机总重量 Total Weight (g)	100	100	110	110	110	120	120	120	120	130	130	130
减速级数 Reduction Stage	1		2		3		4					
减速器长度 (L2) Gearbox Length(L2) mm	23.4		30.0		36.4		42.8					
背隙 (无负载时) Backlash at no-load	≤ 1°		≤ 1.2°		≤ 1.5°		≤ 1.8°					
效率 Efficiency	90%		81%		73%		66%					

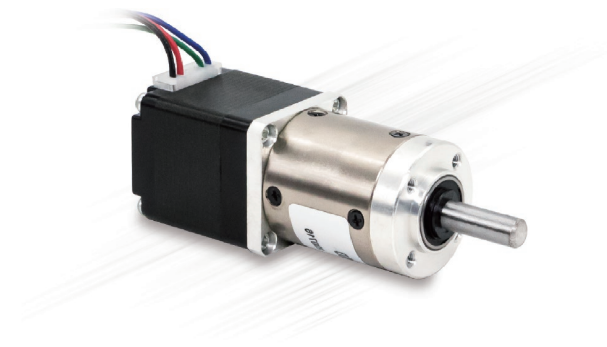
减速电机性能参数 (20HS6401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3.7	5.2	14	19	27	51	71	100	139	189	254	369
减速电机总高度 Total Length (L1+L2) mm	64.4	64.4	71	71	71	77.4	77.4	77.4	77.4	83.8	83.8	83.8
减速电机输出扭矩 Torque for gearbox (mN.m)	100	140	340	462	656	1117	1555	2000	2000	2000	2000	2000
减速电机总重量 Total Weight (g)	140	140	150	150	150	160	160	160	160	170	170	170
减速级数 Reduction Stage	1		2		3		4					
减速器长度 (L2) Gearbox Length(L2) mm	23.4		30.0		36.4		42.8					
背隙 (无负载时) Backlash at no-load	≤ 1°		≤ 1.2°		≤ 1.5°		≤ 1.8°					
效率 Efficiency	90%		81%		73%		66%					

减速电机尺寸图 / Dimensions



Size 28 / Nema 11



选件 / Options



28 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g-cm ²	kg	mm	
28HS0405	2.8	0.8	3.5	1.5	25	4	6	0.08	25.5	≤ 1: 369
28HS2401	3.88	0.67	5.8	4.2	70	4	15	0.13	32.5	≤ 1: 369
28HS5401	4.9	0.7	7	5	95	4	28	0.2	45	≤ 1: 369
28HS7401	6.03	0.67	9	7	110	4	45	0.25	52	≤ 1: 369

减速电机性能参数 (28HS0405) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3.7	5.2	14	19	27	51	71	100	139	189	254	369
减速电机总高度 Total Length (L1+L2) mm	54.5	54.5	61.6	61.6	61.6	68.5	68.5	68.5	68.5	75.4	75.4	75.4
减速电机输出扭矩 Torque for gearbox (mN.m)	83	117	284	385	547	931	1296	1825	2537	3119	4000	4000
减速电机总重量 Total Weight (g)	160	160	180	180	180	200	200	200	200	220	220	220
减速级数 Reduction Stage	1		2		3		4					
减速器长度 (L2) Gearbox Length(L2) mm	29.0		36.1		43.0		49.9					
背隙 (无负载时) Backlash at no-load	≤ 1°		≤ 1.2°		≤ 1.5°		≤ 1.8°					
效率 Efficiency	90%		81%		73%		66%					

减速电机性能参数 (28HS2401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3.7	5.2	14	19	27	51	71	100	139	189	254	369
减速电机总高度 Total Length (L1+L2) mm	61.5	61.5	68.6	68.6	68.6	75.5	75.5	75.5	75.5	82.4	82.4	82.4
减速电机输出扭矩 Torque for gearbox (mN.m)	234	326	794	1077	1531	2606	3628	4000	4000	4000	4000	4000
减速电机总重量 Total Weight (g)	210	210	230	230	230	250	250	250	250	270	270	270
减速级数 Reduction Stage	1		2		3		4					
减速器长度 (L2) Gearbox Length(L2) mm	29.0		36.1		43.0		49.9					
背隙 (无负载时) Backlash at no-load	≤ 1°		≤ 1.2°		≤ 1.5°		≤ 1.8°					
效率 Efficiency	90%		81%		73%		66%					

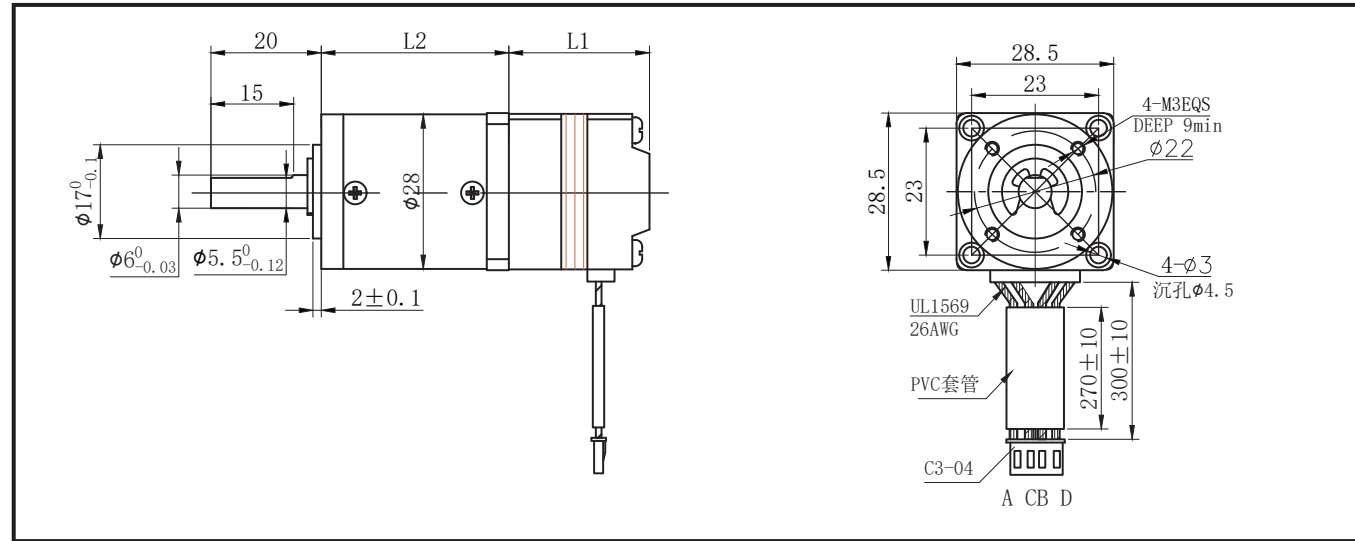
减速电机性能参数 (28HS5401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3.7	5.2	14	19	27	51	71	100	139	189	254	369
减速电机总高度 Total Length (L1+L2) mm	74	74	81.1	81.1	81.1	88	88	88	88	94.9	94.9	94.9
减速电机输出扭矩 Torque for gearbox (mN.m)	317	443	1077	1462	2000	3537	4000	4000	4000	4000	4000	4000
减速电机总重量 Total Weight (g)	280	280	300	300	300	320	320	320	320	340	340	340
减速级数 Reduction Stage	1		2		3		4					
减速器长度 (L2) Gearbox Length(L2) mm	29.0		36.1		43.0		49.9					
背隙 (无负载时) Backlash at no-load	≤ 1°		≤ 1.2°		≤ 1.5°		≤ 1.8°					
效率 Efficiency	90%		81%		73%		66%					

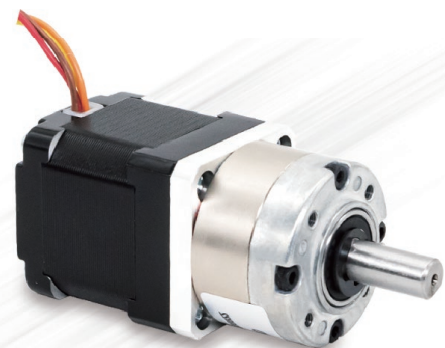
减速电机性能参数 (28HS7401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3.7	5.2	14	19	27	51	71	100	139	189	264	369
减速电机总高度 Total Length (L1+L2) mm	81	81	88.1	88.1	88.1	95	95	95	95	101.9	101.9	101.9
减速电机输出扭矩 Torque for gearbox (mN.m)	367	513	1247	1693	2000	4000	4000	4000	4000	4000	4000	4000
减速电机总重量 Total Weight (g)	330	330	347	350	350	370	370	370	370	390	390	390
减速级数 Reduction Stage	1		2		3		4					
减速器长度 (L2) Gearbox Length(L2) mm	29.0		36.1		43.0		49.9					
背隙 (无负载时) Backlash at no-load	≤ 1°		≤ 1.2°		≤ 1.5°		≤ 1.8°					
效率 Efficiency	90%		81%		73%		66%					

减速电机尺寸图 / Dimensions



Size 35 / Nema 14



选件 / Options



35 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		$g\cdot cm^2$	kg	mm	
35HSH2408	4.5	1.0	4.5	5.5	200	4	25	0.15	28	$\leq 1: 139$
35HSH5401	4.5	1.0	4.5	7	250	4	35	0.25	38.5	$\leq 1: 139$

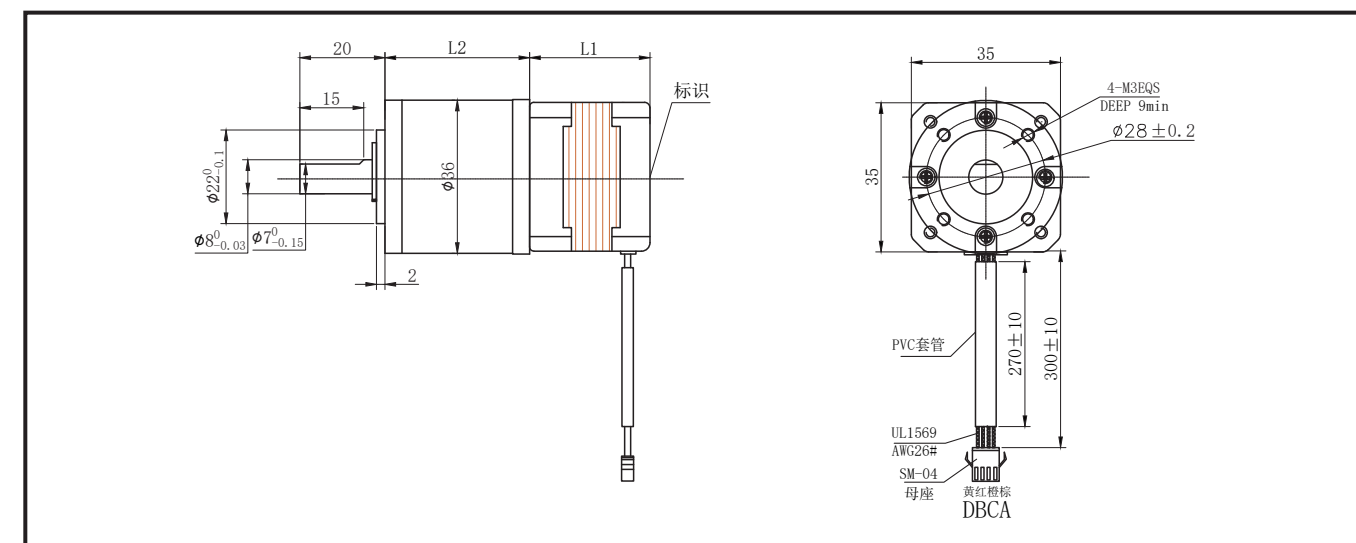
减速电机性能参数 (35HSH2408) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3.7	5.2	14	19	27	51	71	100	139
减速电机总高度 Total Length (L1+L2) mm	55	55	62.2	62.2	62.2	69.1	69.1	69.1	39.1
减速电机输出扭矩 Torque for gearbox (mN.m)	668	932	2268	3000	3000	6000	6000	6000	6000
减速电机总重量 Total Weight (g)	290	290	330	330	330	370	370	370	370
减速级数 Reduction Stage	1		2			3			
减速器长度 (L2) Gearbox Length(L2) mm	27.0		34.2			41.1			
背隙 (无负载时) Backlash at no-load	$\leq 1^\circ$		$\leq 1.2^\circ$			$\leq 1.5^\circ$			
效率 Efficiency	90%		81%			73%			

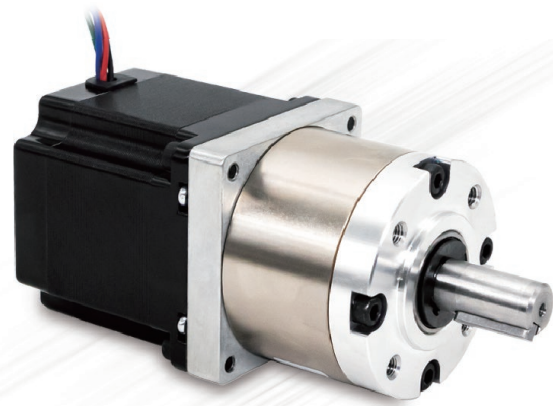
减速电机性能参数 (35HSH5401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3.7	5.2	14	19	27	51	71	100	139
减速电机总高度 Total Length (L1+L2) mm	65.5	65.5	72.7	72.7	72.7	79.6	79.6	79.6	79.6
减速电机输出扭矩 Torque for gearbox (mN.m)	835	1166	2835	3000	3000	6000	6000	6000	6000
减速电机总重量 Total Weight (g)	390	390	430	430	430	470	470	470	470
减速级数 Reduction Stage	1		2			3			
减速器长度 (L2) Gearbox Length(L2) mm	27.0		34.2			41.1			
背隙 (无负载时) Backlash at no-load	$\leq 1^\circ$		$\leq 1.2^\circ$			$\leq 1.5^\circ$			
效率 Efficiency	90%		81%			73%			

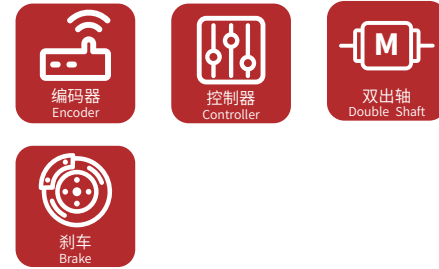
减速电机尺寸图 / Dimensions



Size 57 / Nema 23



选件 / Options



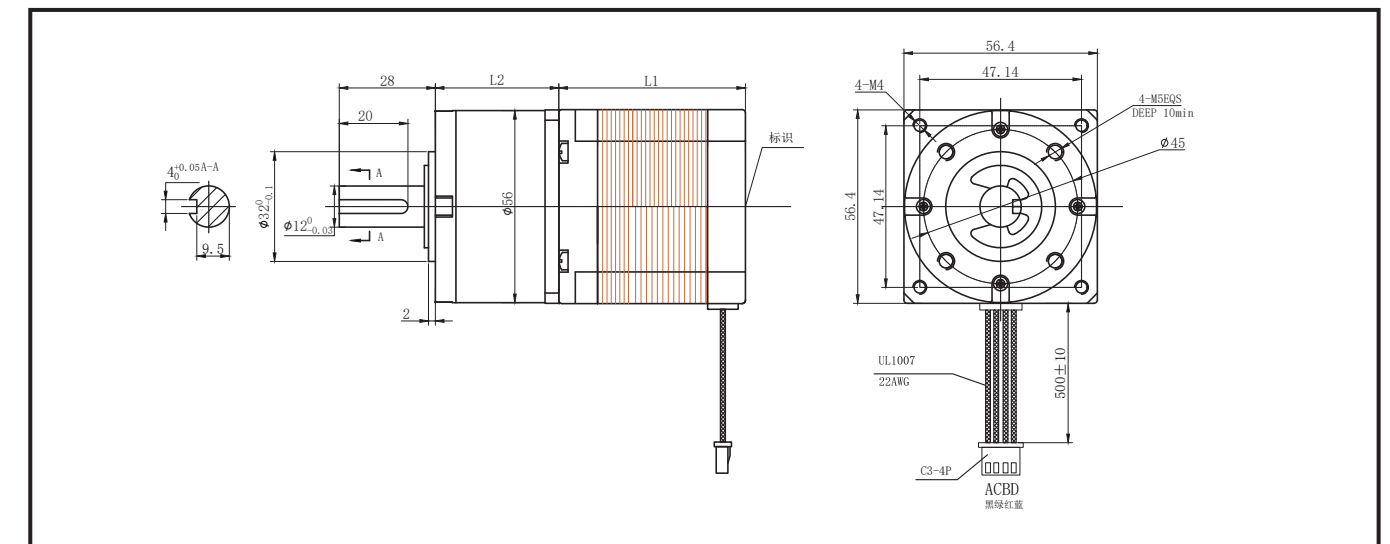
57 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g-cm ²	kg	mm	
57HS5417	1.7	2.0	0.85	2.5	950	4	200	0.64	55	≤ 1: 187

减速电机性能参数 (57HS5417) / Geared Stepper Motor Specifications

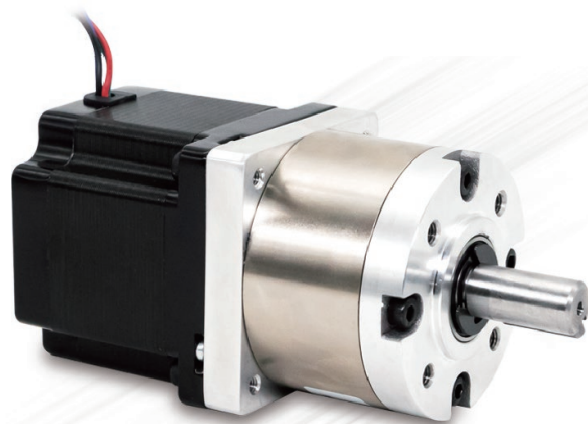
减速比 Reduction ratio	3.6 4.3	13 15 18 23	47 55 65 77 96 121	153 187
减速电机总高度 Total Length (L1+L2) mm	92.8 92.8	104.4 104.4 104.4 104.4	115.8 115.8 115.8 115.8 115.8 115.8	126.9 126.9
减速电机输出扭矩 Torque for gearbox (mN.m)	3078 3634	10004 11543 13851 15000	30000 30000 30000 30000 30000 30000	30000 30000
减速电机总重量 Total Weight (g)	1100 1100	1250 1250 1250 1250	1400 1400 1400 1400 1400 1400	1560 1560
减速级数 Reduction Stage	1	2	3	4
减速器长度 (L2) Gearbox Length(L2) mm	37.8	49.4	60.8	71.9
背隙 (无负载时) Backlash at no-load	≤ 1°	≤ 1.2°	≤ 1.5°	≤ 1.8°
效率 Efficiency	90%	81%	73%	66%

减速电机尺寸图 / Dimensions

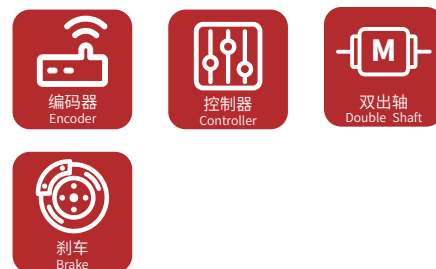


行星减速步进电机

Size 60 / Nema 24



选件 / Options



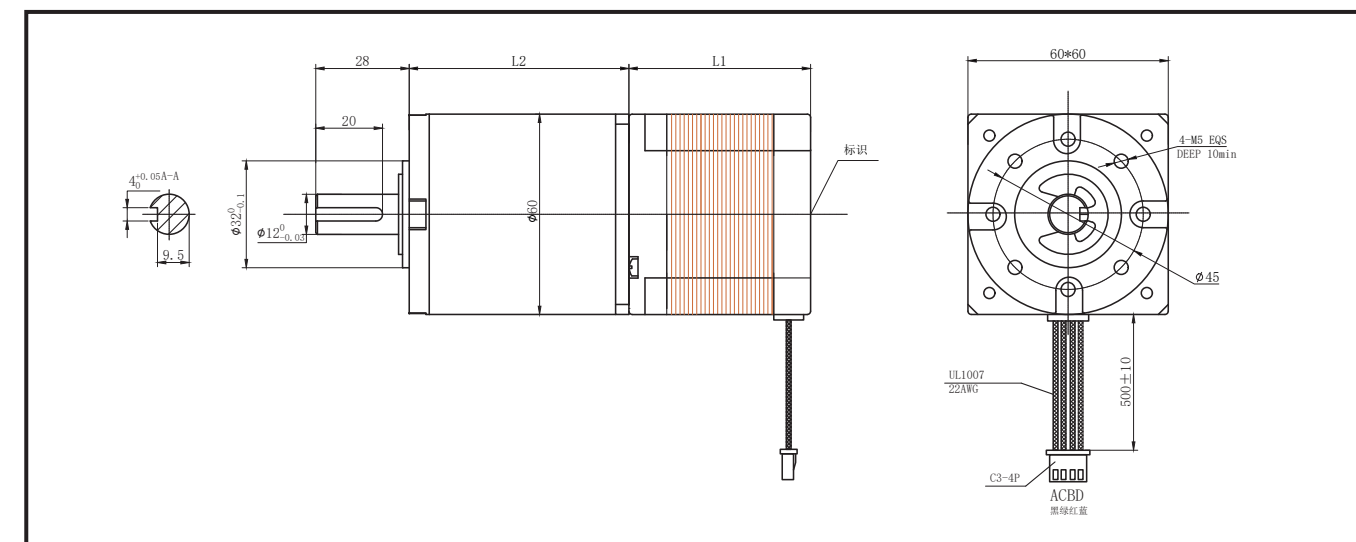
60 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g·cm ²	kg	mm	
60HS5405	2.98	3.5	0.85	3	1900	4	300	0.7	55	≤ 1: 187

减速电机性能参数 (60HS5405) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3.6 4.3	13 15 18 23	47 55 65 77 96 121	153 187
减速电机总高度 Total Length (L1+L2) mm	92.8 92.8	104.4 104.4 104.4 104.4	115.8 115.8 115.8 115.8 115.8 115.8	126.9 126.9
减速电机输出扭矩 Torque for gearbox (mN.m)	6156 7268	15000 15000 15000 15000	30000 30000 30000 30000 30000 30000	30000 30000
减速电机总重量 Total Weight (g)	1200 1200	1390 1390 1390 1390	1580 1580 1580 1580 1580 1580	1620 1620
减速级数 Reduction Stage	1	2	3	4
减速器长度 (L2) Gearbox Length(L2) mm	37.8	49.4	60.8	71.9
背隙 (无负载时) Backlash at no-load	≤ 1°	≤ 1.2°	≤ 1.5°	≤ 1.8°
效率 Efficiency	90%	81%	73%	66%

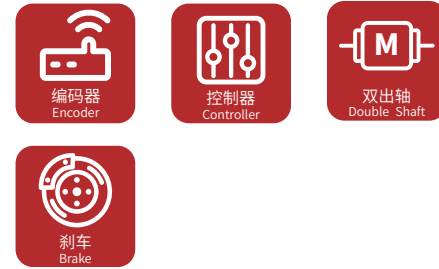
减速电机尺寸图 / Dimensions



Size 57 / Nema 23



选件 / Options



57 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g·cm ²	kg	mm	
57HSC5417	1.7	2.0	0.85	2.5	950	4	200	0.64	55	≤ 1: 50
57HSC7407	2.64	4.0	0.66	2.3	2400	4	480	1.00	76	≤ 1: 50
57HSC11402	3.6	4.5	0.80	3.5	3600	4	680	1.70	113.5	≤ 1: 50

减速电机性能参数 (57HSC5417) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	10	20	25	50
减速电机总高度 Total Length (L1+L2) mm	110.5	110.5	110.5	123	123	123
减速电机输出扭矩 Torque for gearbox (mN.m)	3420	4275	8550	15200	19000	20000
减速电机总重量 Total Weight (g)	1290	1290	1290	1440	1440	1440
减速级数 Reduction Stage	1			2		
减速器长度 (L2) Gearbox Length(L2) mm	55.5			68.0		
背隙 (无负载时) Backlash at no-load	≤ 30'			≤ 45'		
效率 Efficiency	90%			80%		

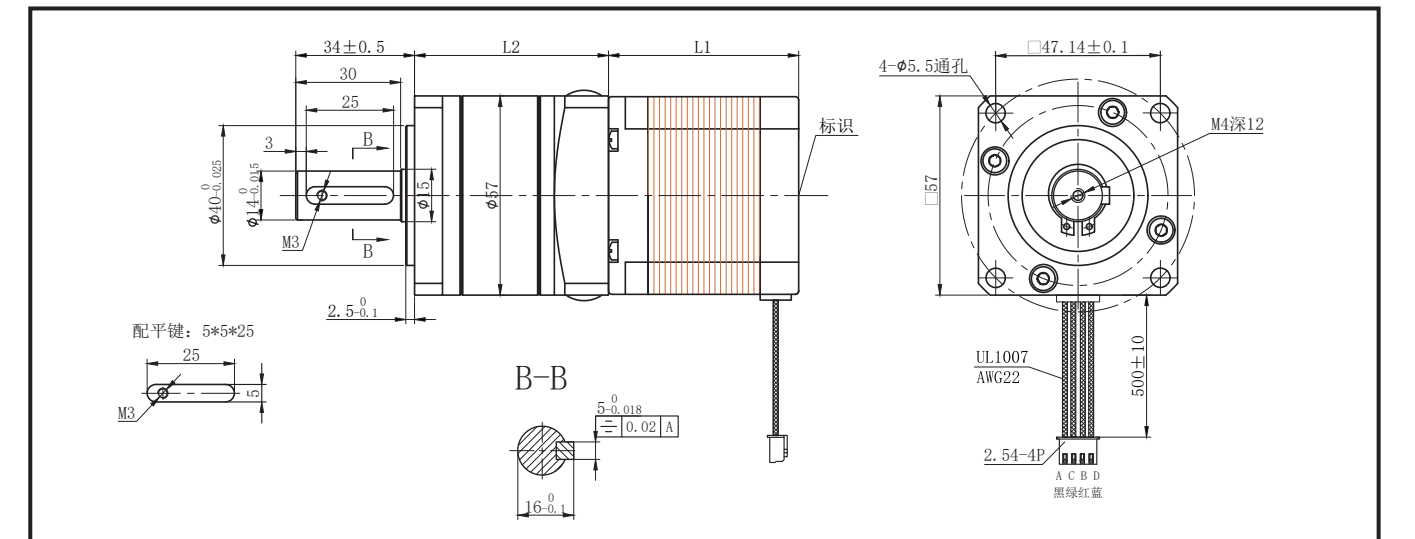
减速电机性能参数 (57HSC7407) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	10	20	25	50
减速电机总高度 Total Length (L1+L2) mm	131.5	131.5	131.5	144	144	144
减速电机输出扭矩 Torque for gearbox (mN.m)	8640	10800	10000	25000	25000	25000
减速电机总重量 Total Weight (g)	1650	1650	1650	1800	1800	1800
减速级数 Reduction Stage	1			2		
减速器长度 (L2) Gearbox Length(L2) mm	55.5			68.0		
背隙 (无负载时) Backlash at no-load	≤ 30'			≤ 45'		
效率 Efficiency	90%			80%		

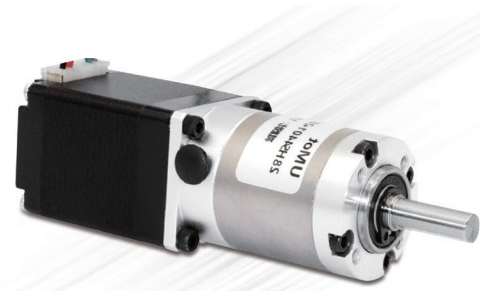
减速电机性能参数 (57HSC11402) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	10	20	25	50
减速电机总高度 Total Length (L1+L2) mm	169	169	169	181.5	181.5	181.5
减速电机输出扭矩 Torque for gearbox (mN.m)	12960	16200	10000	25000	25000	25000
减速电机总重量 Total Weight (g)	2350	2350	2350	2500	2500	2500
减速级数 Reduction Stage	1			2		
减速器长度 (L2) Gearbox Length(L2) mm	55.5			68.0		
背隙 (无负载时) Backlash at no-load	≤ 30'			≤ 45'		
效率 Efficiency	90%			80%		

减速电机尺寸图 / Dimensions



Size 28 / Nema 11



选件 / Options



28 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		$\text{g}\cdot\text{cm}^2$	kg	mm	
28HS0405	2.8	0.8	3.5	1.5	25	4	6	0.08	25.5	$\leq 1: 100$
28HS2401	3.88	0.67	5.8	4.2	70	4	15	0.13	32.5	$\leq 1: 100$
28HS5401	4.9	0.7	7	5	95	4	28	0.2	45	$\leq 1: 100$
28HS7401	6.03	0.67	9	7	110	4	45	0.25	52	$\leq 1: 100$

减速电机性能参数 (28HS0405) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	7	10	16	20	25	28	35	40	50	70
减速电机总高度 Total Length (L1+L2) mm	58.5	58.5	58.5	58.5	67	67	67	67	67	67	67	67
减速电机输出扭矩 Torque for gearbox (mN.m)	96	120	168	240	376	470	587.5	685	822.5	940	1175	1645
减速电机总重量 Total Weight (g)	180	180	180	180	210	210	210	210	210	210	210	210
减速级数 Reduction Stage	1				2							
减速器长度 (L2) Gearbox Length(L2) mm	33.0				41.5							
背隙 (无负载时) Backlash at no-load	$\leq 15'$				$\leq 20'$							
效率 Efficiency	96%				94%							

减速比 Reduction ratio	64	80	100	125	140	175	200
减速电机总高度 Total Length (L1+L2) mm	74.5	74.5	74.5	74.5	74.5	74.5	74.5
减速电机输出扭矩 Torque for gearbox (mN.m)	1440	1800	2550	2812.5	3150	3937.5	4500
减速电机总重量 Total Weight (g)	240	240	240	240	240	240	240
减速级数 Reduction Stage	3						
减速器长度 (L2) Gearbox Length(L2) mm	50.0						
背隙 (无负载时) Backlash at no-load	$\leq 25'$						
效率 Efficiency	90%						

减速电机性能参数 (28HS2401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	7	10	16	20	25	28	35	40	50	70
减速电机总高度 Total Length (L1+L2) mm	65	65	65	65	74	74	74	74	74	74	74	74
减速电机输出扭矩 Torque for gearbox (mN.m)	268	360	470.4	700.96	1052.8	1316	1654	1842.4	2303	2632	3000	3000
减速电机总重量 Total Weight (g)	230	230	230	230	260	260	260	260	260	260	260	260
减速级数 Reduction Stage	1				2							
减速器长度 (L2) Gearbox Length(L2) mm	33.0				41.5							
背隙 (无负载时) Backlash at no-load	$\leq 15'$				$\leq 20'$							
效率 Efficiency	96%				94%							

减速比 Reduction ratio	64	80	100	125	140	175	200
减速电机总高度 Total Length (L1+L2) mm	81.5	81.5	81.5	81.5	81.5	81.5	81.5
减速电机输出扭矩 Torque for gearbox (mN.m)	4032	5040	6000	6000	6000	6000	6000
减速电机总重量 Total Weight (g)	290	290	290	290	290	290	290
减速级数 Reduction Stage	3						
减速器长度 (L2) Gearbox Length(L2) mm	50.0						
背隙 (无负载时) Backlash at no-load	$\leq 25'$						
效率 Efficiency	90%						

减速电机性能参数 (28HS5401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	7	10	16	20	25	28	35	40	50	70
减速电机总高度 Total Length (L1+L2) mm	78	78	78	78	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
减速电机输出扭矩 Torque for gearbox (mN.m)	364.8	456	638.4	912	1422.8	1786	2232.5	2500.4	3125.5	3000	3000	3000
减速电机总重量 Total Weight (g)	300	300	300	300	330	330	330	330	330	330	330	330
减速级数 Reduction Stage	1				2							
减速器长度 (L2) Gearbox Length(L2) mm	33.0				41.5							
背隙 (无负载时) Backlash at no-load	$\leq 15'$				$\leq 20'$							
效率 Efficiency	96%				94%							



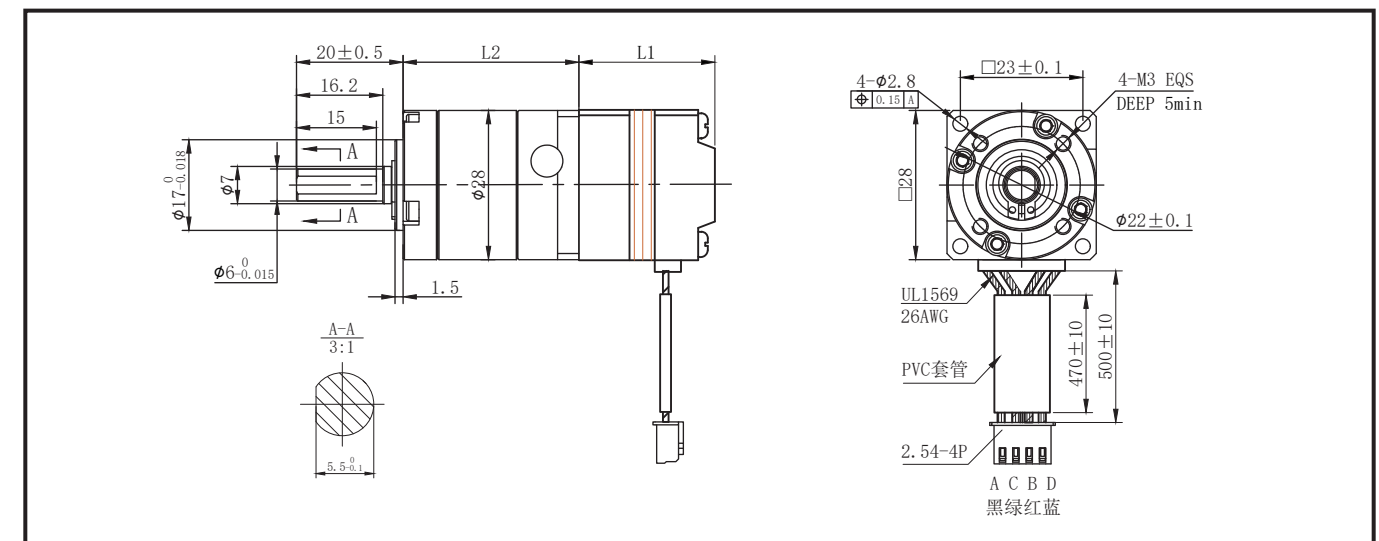
减速比 Reduction ratio	64	80	100	125	140	175	200
减速电机总高度 Total Length (L1+L2) mm	95	95	95	95	95	95	95
减速电机输出扭矩 Torque for gearbox (mN.m)	5472	6000	6000	6000	6000	6000	6000
减速电机总重量 Total Weight (g)	360	360	360	360	360	360	360
减速级数 Reduction Stage	3						
减速器长度 (L2) Gearbox Length(L2) mm	50.0						
背隙 (无负载时) Backlash at no-load	$\leq 25'$						
效率 Efficiency	90%						

减速电机性能参数 (28HS7401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	7	10	16	20	25	28	35	40	50	70
减速电机总高度 Total Length (L1+L2) mm	85	85	85	85	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
减速电机输出扭矩 Torque for gearbox (mN.m)	422.4	528	739.2	1000	1654.4	2068	2475	2895.2	3619	3000	3000	3000
减速电机总重量 Total Weight (g)	350	350	350	350	380	380	380	380	380	380	380	380
减速级数 Reduction Stage	1				2							
减速器长度 (L2) Gearbox Length(L2) mm	33.0				41.5							
背隙 (无负载时) Backlash at no-load	$\leq 15'$				$\leq 20'$							
效率 Efficiency	96%				94%							

减速比 Reduction ratio	64	80	100	125	140	175	200
减速电机总高度 Total Length (L1+L2) mm	101	95	101	101	101	101	101
减速电机输出扭矩 Torque for gearbox (mN.m)	6000	5040	6000	6000	6000	6000	6000
减速电机总重量 Total Weight (g)	410	410	410	410	410	410	410
减速级数 Reduction Stage	3						
减速器长度 (L2) Gearbox Length(L2) mm	50.0						
背隙 (无负载时) Backlash at no-load	$\leq 25'$						
效率 Efficiency	90%						

减速电机尺寸图 / Dimensions



Size 35 / Nema 14



选件 / Options



35 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g-cm ²	kg	mm	
35HSH2408	4.5	1.0	4.5	5.5	200	4	25	0.15	28	$\leq 1: 210$
35HSH5401	4.5	1.0	4.5	7	250	4	35	0.25	38.5	$\leq 1: 210$
35HSH6403	2.77	1.68	1.7	2.5	320	4	40	0.28	48	$\leq 1: 210$

减速电机性能参数 (35HSH2408) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3	4	5	6	7	9	15	20	25	30	35	42
减速电机总高度 Total Length (L1+L2) mm	68	68	68	68	68	77.5	77.5	77.5	77.5	77.5	77.5	77.5
减速电机输出扭矩 Torque for gearbox (mN.m)	576	768	960	1152	1344	1692	2820	3760	4700	5640	6580	7000
减速电机总重量 Total Weight (g)	320	320	320	320	320	370	370	370	370	370	370	370
减速级数 Reduction Stage	1					2						
减速器长度 (L2) Gearbox Length(L2) mm	40.0					49.5						
背隙 (无负载时) Backlash at no-load	$\leq 15'$					$\leq 20'$						
效率 Efficiency	96%					94%						

减速比 Reduction ratio	45	100	120	140	150	175	210
减速电机总高度 Total Length (L1+L2) mm	87	87	87	87	87	87	87
减速电机输出扭矩 Torque for gearbox (mN.m)	8100	9000	9000	9000	8500	8500	8500
减速电机总重量 Total Weight (g)	430	430	430	430	430	430	430
减速级数 Reduction Stage	3						
减速器长度 (L2) Gearbox Length(L2) mm	59.0						
背隙 (无负载时) Backlash at no-load	$\leq 25'$						
效率 Efficiency	90%						

减速电机性能参数 (35HSH5401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3	4	5	6	7	9	15	20	25	30	35	42
减速电机总高度 Total Length (L1+L2) mm	78.5	78.5	78.5	78.5	78.5	88	88	88	88	88	88	88
减速电机输出扭矩 Torque for gearbox (mN.m)	720	960	1200	1440	1680	2115	3525	4700	5875	7000	7000	7000
减速电机总重量 Total Weight (g)	420	420	420	420	420	470	470	470	470	470	470	470
减速级数 Reduction Stage	1					2						
减速器长度 (L2) Gearbox Length(L2) mm	40.0					49.5						
背隙 (无负载时) Backlash at no-load	$\leq 15'$					$\leq 20'$						
效率 Efficiency	96%					94%						

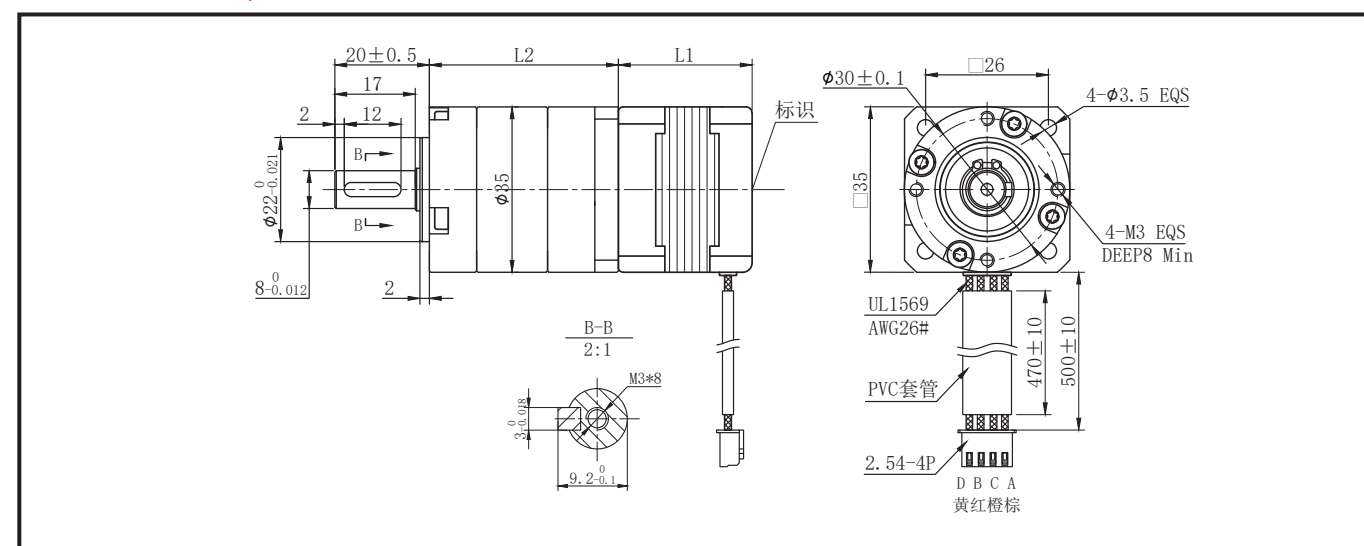
减速比 Reduction ratio	45	100	120	140	150	175	210
减速电机总高度 Total Length (L1+L2) mm	97.5	97.5	97.5	97.5	97.5	97.5	97.5
减速电机输出扭矩 Torque for gearbox (mN.m)	10000	9000	9000	9000	8500	8500	8500
减速电机总重量 Total Weight (g)	530	530	530	530	530	530	530
减速级数 Reduction Stage	3						
减速器长度 (L2) Gearbox Length(L2) mm	59.0						
背隙 (无负载时) Backlash at no-load	$\leq 25'$						
效率 Efficiency	90%						

减速电机性能参数 (35HSH6403) / Geared Stepper Motor Specifications

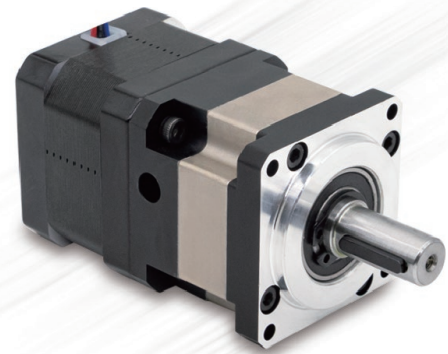
减速比 Reduction ratio	3	4	5	6	7	9	15	20	25	30	35	42
减速电机总高度 Total Length (L1+L2) mm	88	88	88	88	88	97.5	97.5	97.5	97.5	97.5	97.5	97.5
减速电机输出扭矩 Torque for gearbox (mN.m)	921.6	1228.8	1536	1843.2	2000	2707.2	4512	6016	7520	7000	7000	7000
减速电机总重量 Total Weight (g)	450	450	450	450	450	500	500	500	500	500	500	500
减速级数 Reduction Stage	1					2						
减速器长度 (L2) Gearbox Length(L2) mm						40.0						
背隙 (无负载时) Backlash at no-load						$\leq 15'$						
效率 Efficiency						96%						

减速比 Reduction ratio	45	100	120	140	150	175	210
减速电机总高度 Total Length (L1+L2) mm	107	107	107	107	107	107	107
减速电机输出扭矩 Torque for gearbox (mN.m)	10000	9000	9000	9000	8500	8500	8500
减速电机总重量 Total Weight (g)	560	560	560	560	560	560	560
减速级数 Reduction Stage	3						
减速器长度 (L2) Gearbox Length(L2) mm	59.0						
背隙 (无负载时) Backlash at no-load	$\leq 25'$						
效率 Efficiency	90%						

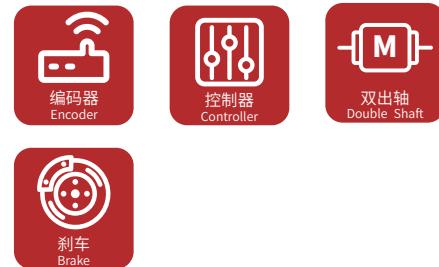
减速电机尺寸图 / Dimensions



Size 42 方形法兰 / Nema 17 Square Flange



选件 / Options



42 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		$\text{g}\cdot\text{cm}^2$	kg	mm	
42HSC1409	2.93	1.33	2.2	3.5	270	4	30	0.22	34	$\leq 1: 100$
42HSC4409	2.5	1.5	1.65	3.3	380	4	40	0.3	40	$\leq 1: 100$

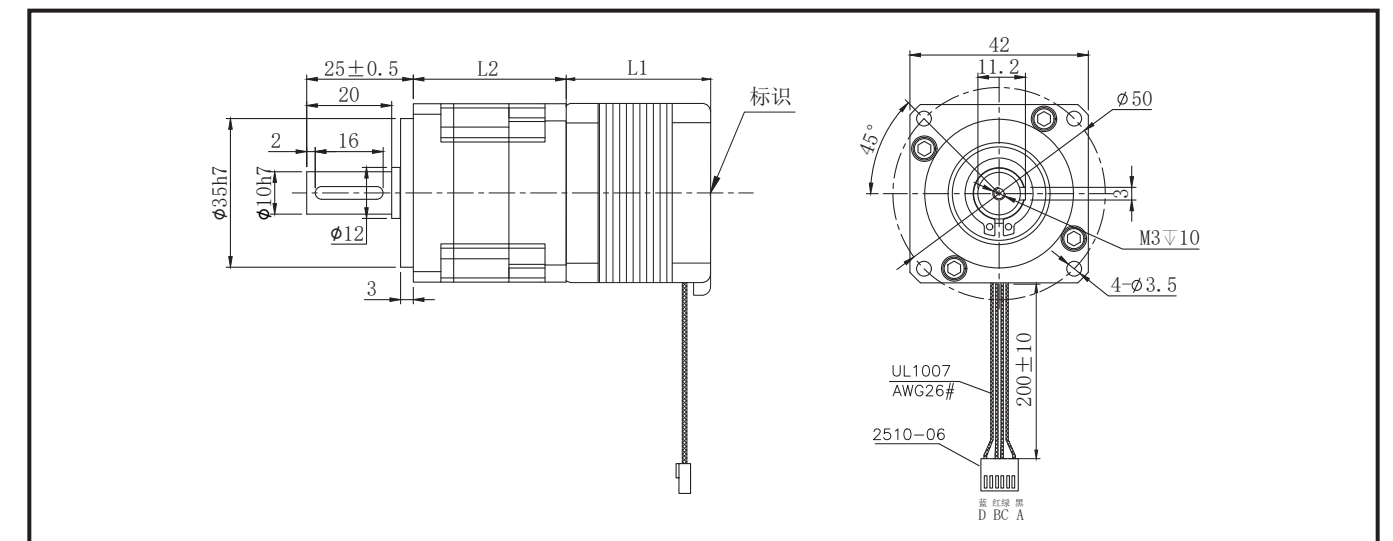
减速电机性能参数 (42HSC1409) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	7	10	16	20	25	28	35	40	50	70	100
减速电机总高度 Total Length (L1+L2) mm	69	69	69	69	80	80	80	80	80	80	80	80	80
减速电机输出扭矩 Torque for gearbox (mN.m)	1036	1296	1814	2592	4060	5076	6345	7106	8883	10000	10000	10000	10000
减速电机总重量 Total Weight (g)	470	470	470	470	570	570	570	570	570	570	570	570	570
减速级数 Reduction Stage	1				2								
减速器长度 (L2) Gearbox Length(L2) mm	35.0				46.0								
背隙 (无负载时) Backlash at no-load	$\leq 15'$				$\leq 20'$								
效率 Efficiency	96%				94%								

减速电机性能参数 (42HSC4409) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	7	10	16	20	25	28	35	40	50	70	100
减速电机总高度 Total Length (L1+L2) mm	75	75	75	75	86	86	86	86	86	86	86	86	86
减速电机输出扭矩 Torque for gearbox (mN.m)	1459	1824	2553	3648	5715	7144	8930	10000	10000	10000	10000	10000	10000
减速电机总重量 Total Weight (g)	550	550	550	550	650	650	650	650	650	650	650	650	650
减速级数 Reduction Stage	1				2								
减速器长度 (L2) Gearbox Length(L2) mm	35.0				46.0								
背隙 (无负载时) Backlash at no-load	$\leq 15'$				$\leq 20'$								
效率 Efficiency	96%				94%								

减速电机尺寸图 / Dimensions



Size 42 圆形法兰 / Nema 17 Round Flange



选件 / Options



42 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		$\text{g}\cdot\text{cm}^2$	kg	mm	
42HSC1409	2.93	1.33	2.2	3.5	270	4	30	0.22	34	$\leq 1: 100$
42HSC4409	2.5	1.5	1.65	3.3	380	4	40	0.3	40	$\leq 1: 100$

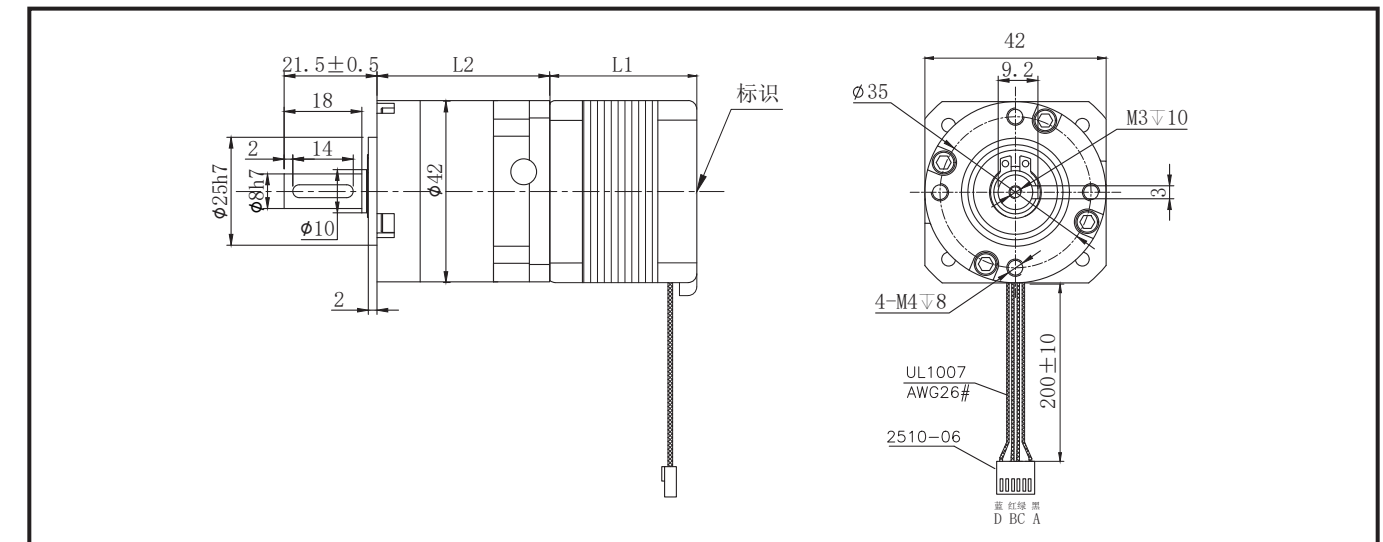
减速电机性能参数 (42HSC1409) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3	4	5	7	10	12	15	16	20	25	28	35	40	50	70	100
减速电机总高度 Total Length (L1+L2) mm	74	74	74	74	74	85	85	85	85	85	85	85	85	85	85	85
减速电机输出扭矩 Torque for gearbox (mN.m)	777	1036	1296	1814	2592	3045	3807	4060	5076	6345	7106	8883	10000	10000	10000	10000
减速电机总重量 Total Weight (g)	470	470	470	470	470	570	570	570	570	570	570	570	570	570	570	570
减速级数 Reduction Stage	1					2										
减速器长度 (L2) Gearbox Length(L2) mm	40.0					51.0										
背隙 (无负载时) Backlash at no-load	$\leq 15'$					$\leq 20'$										
效率 Efficiency	96%					94%										

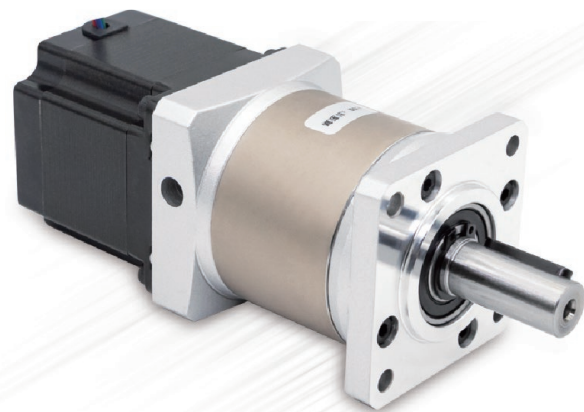
减速电机性能参数 (42HSC4409) / Geared Stepper Motor Specifications

减速比 Reduction ratio	3	4	5	7	10	12	15	16	20	25	28	35	40	50	70	100
减速电机总高度 Total Length (L1+L2) mm	80	80	80	80	80	91	91	91	91	91	91	91	91	91	91	91
减速电机输出扭矩 Torque for gearbox (mN.m)	1094	1459	1824	2553	3648	4286	5358	5715	7144	8930	10000	10000	10000	10000	10000	10000
减速电机总重量 Total Weight (g)	550	550	550	550	550	650	650	650	650	650	650	650	650	650	650	650
减速级数 Reduction Stage	1					2										
减速器长度 (L2) Gearbox Length(L2) mm	40.0					51.0										
背隙 (无负载时) Backlash at no-load	$\leq 15'$					$\leq 20'$										
效率 Efficiency	96%					94%										

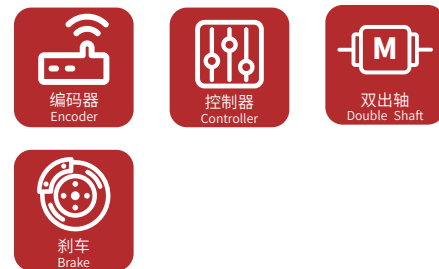
减速电机尺寸图 / Dimensions



Size 57 圆形法兰 / Nema 23



选件 / Options



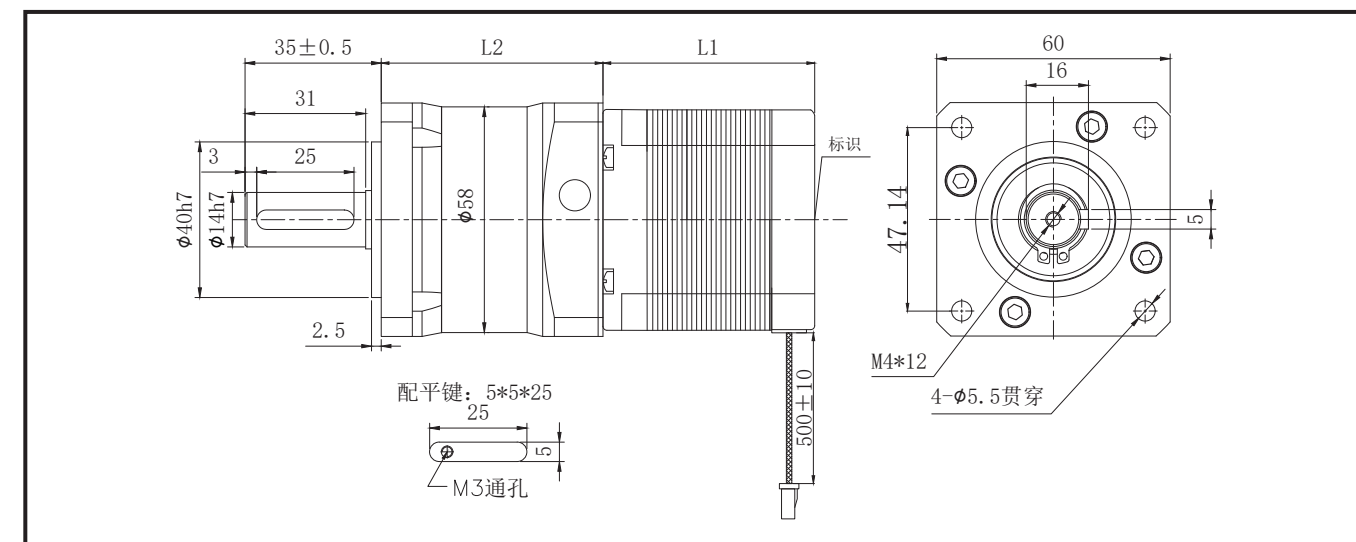
57 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		$\text{g}\cdot\text{cm}^2$	kg	mm	
57HS5417	1.7	2.0	0.85	2.5	950	4	200	0.64	55	$\leq 1:70$

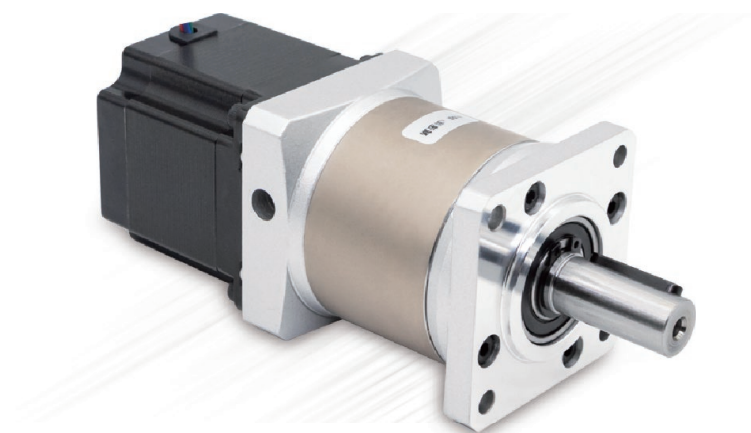
减速电机性能参数 (57HS5417) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	7	10	16	20	25	28	35	40	50	70
减速电机总高度 Total Length (L1+L2) mm	112	112	112	112	128	128	128	128	128	128	128	128
减速电机输出扭矩 Torque for gearbox (mN.m)	3648	4560	6384	9120	14288	17860	22325	25004	30000	25000	25000	20000
减速电机总重量 Total Weight (g)	1360	1360	1360	1360	1590	1590	1590	1590	1590	1590	1590	1590
减速级数 Reduction Stage	1				2							
减速器长度 (L2) Gearbox Length(L2) mm	57.0				73.0							
背隙 (无负载时) Backlash at no-load	$\leq 15'$				$\leq 20'$							
效率 Efficiency	96%				94%							

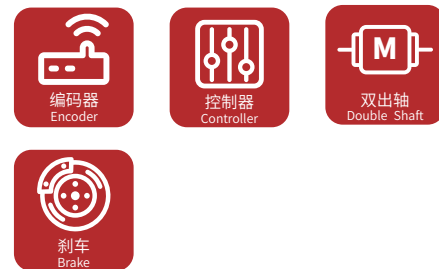
减速电机尺寸图 / Dimensions



Size 60 圆形法兰 / Nema 24



选件 / Options



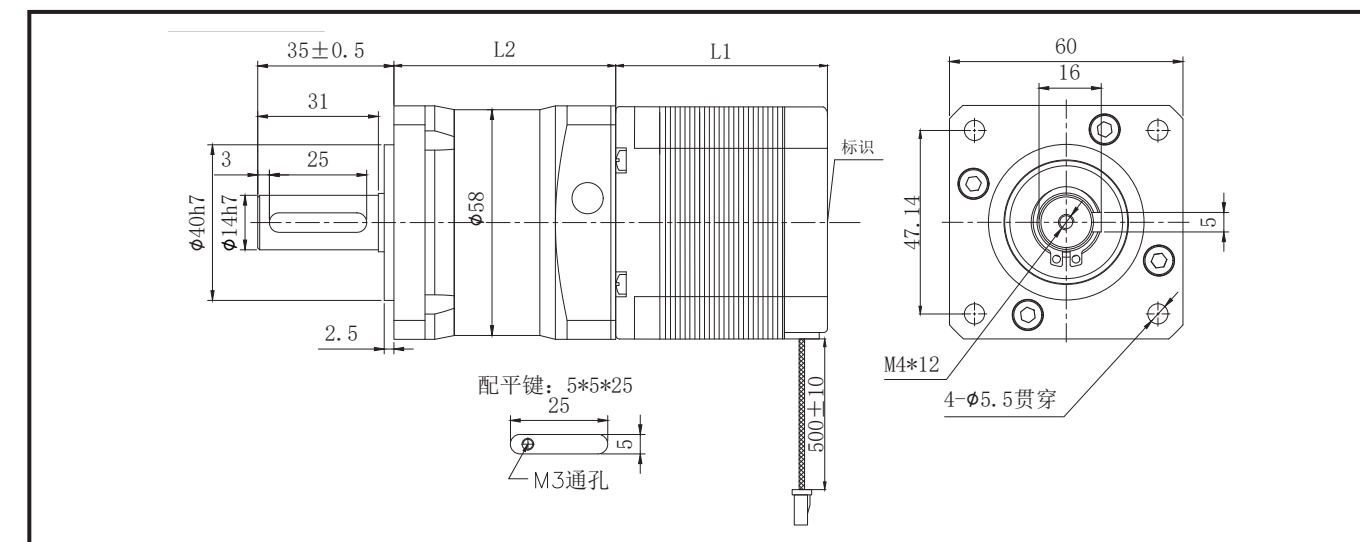
60 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L1 Length L1	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		$\text{g}\cdot\text{cm}^2$	kg	mm	
60HS5405	2.98	3.5	0.85	3	1900	4	300	0.7	55	$\leq 1:70$

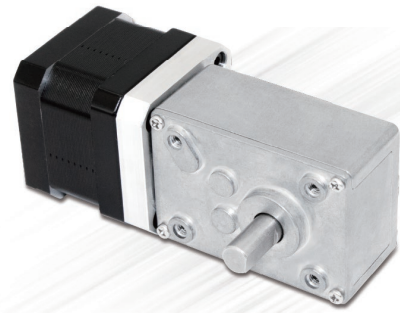
减速电机性能参数 (60HS5405) / Geared Stepper Motor Specifications

减速比 Reduction ratio	4	5	7	10	16	20	25	28	35	40	50	70
减速电机总高度 Total Length (L1+L2) mm	112	112	112	112	128	128	128	128	128	128	128	128
减速电机输出扭矩 Torque for gearbox (mN.m)	7296	9120	12768	10000	28576	30000	32000	30000	30000	25000	25000	20000
减速电机总重量 Total Weight (g)	1420	1420	1420	1420	1650	1650	1650	1650	1650	1650	1650	1650
减速级数 Reduction Stage	1				2							
减速器长度 (L2) Gearbox Length(L2) mm	57.0				73.0							
背隙 (无负载时) Backlash at no-load	$\leq 15'$				$\leq 20'$							
效率 Efficiency	96%				94%							

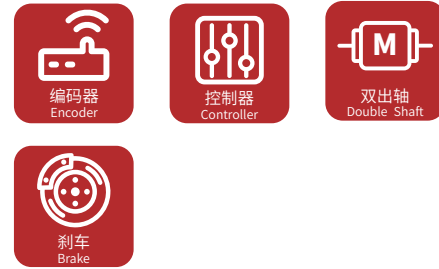
减速电机尺寸图 / Dimensions



Size 42 / Nema 17



选件 / Options



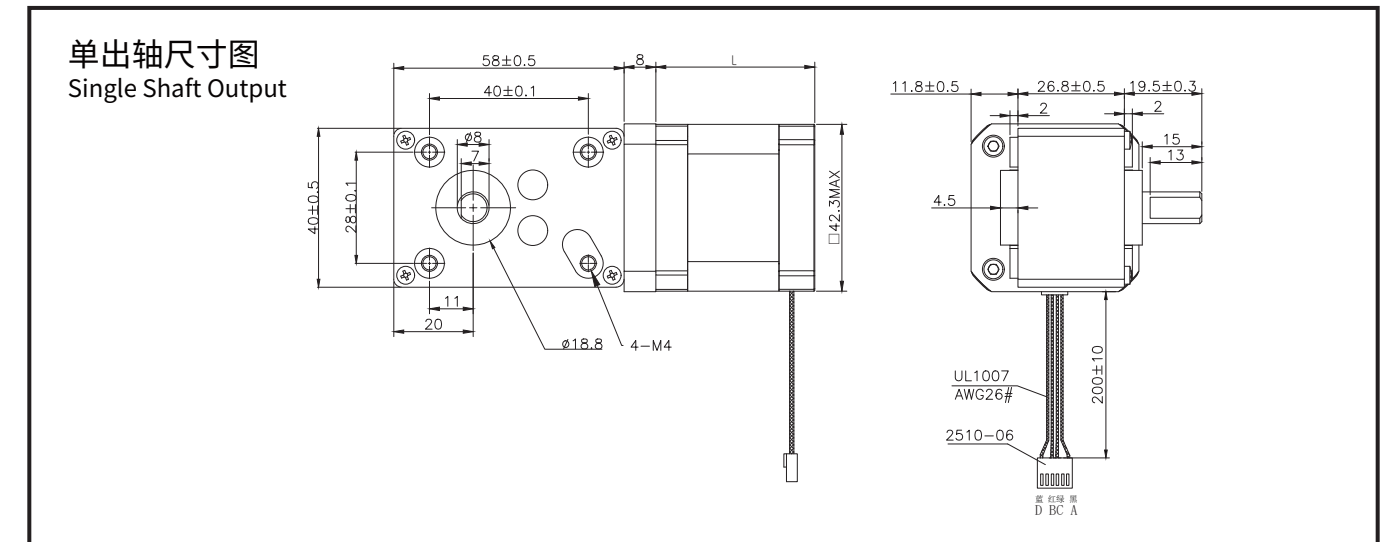
42 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L Length L	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g-cm ²	kg	mm	
42HSC1409	2.93	1.33	2.2	3.5	270	4	30	0.22	34	≤ 1: 505

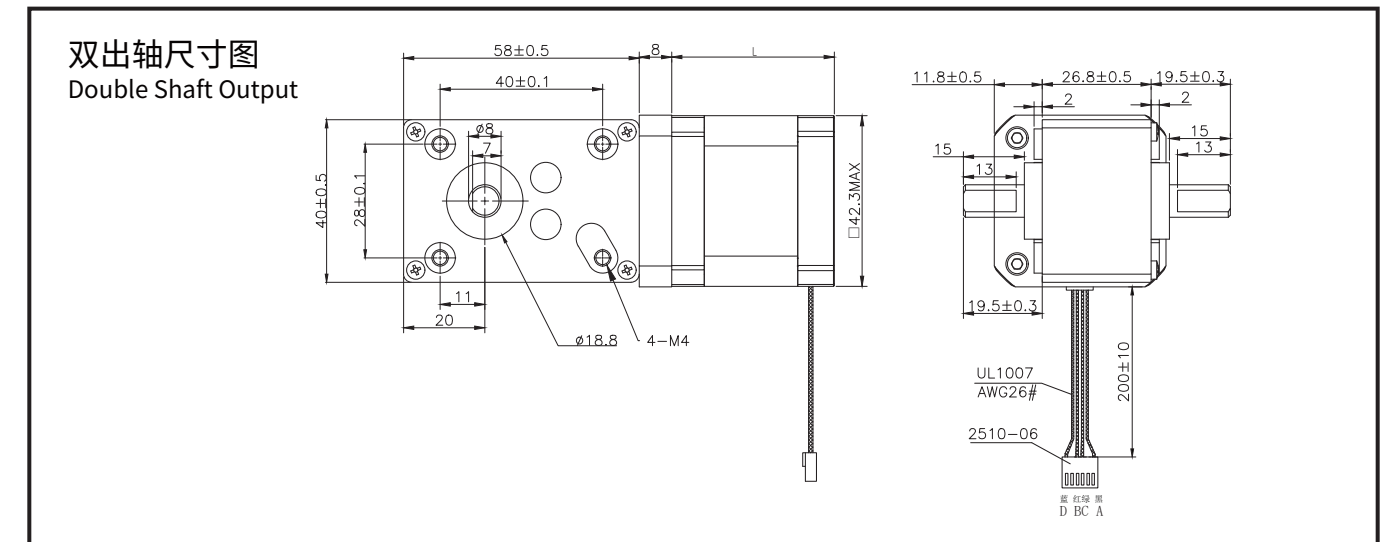
减速电机性能参数 (42HSC1409) / Geared Stepper Motor Specifications

减速比 Reduction ratio	17	31	50	100	290	505				
减速电机总高度 Total Length (mm)	100	100	100	100	100	100				
减速电机输出扭矩 Torque for gearbox (mN.m)	1100	2200	3000	5000	5000	5000				
减速电机总重量 Total Weight (g)	600	600	600	600	600	600				
减速器长度 Length(mm)						66				
减速后速度 Speed after gearbox	52.94	29.03	18.00	9.00	3.10	1.78				
背隙 (无负载时) Backlash at no-load						1°~1.5°				
效率 Efficiency	81%	81%	73%	73%	66%	50%				

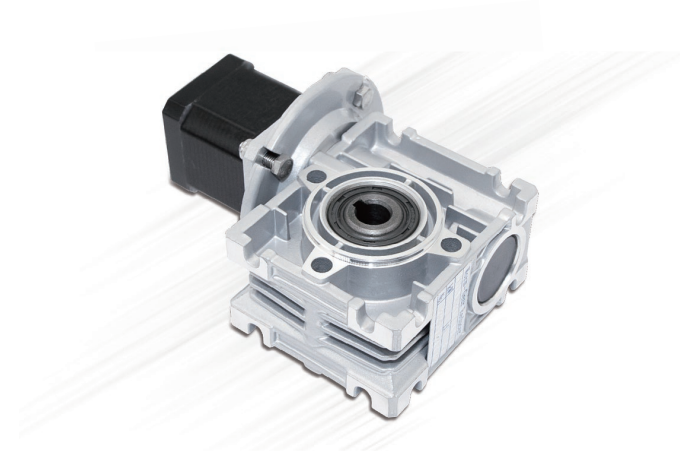
蜗轮蜗杆尺寸图 / Dimensions



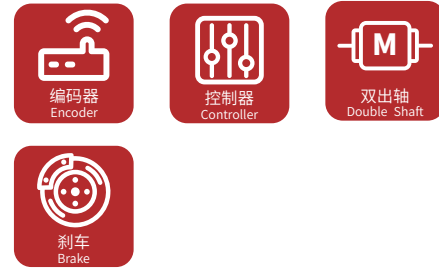
蜗轮蜗杆尺寸图 / Dimensions



Size 42 圆形法兰 / Nema 17 Round Flange



选件 / Options



42 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L Length L	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g-cm ²	kg	mm	
42HSC4409	2.75	1.5	1.65	3.3	380	4	40	0.30	40	≤ 1: 60
42HSC6411	2.77	1.68	1.65	2.8	500	4	68	0.35	48	≤ 1: 60

减速电机性能参数 (42HSC4409) / Geared Stepper Motor Specifications

减速比 Reduction ratio	5	7.5	10	15	20	25	30	40	50	60
减速电机总高度 Total Length (mm)	126	126	126	126	126	126	126	126	126	126
减速电机输出扭矩 Torque for gearbox (mN.m)	1763	2583	3362	4797	6068	7175	8118	10000	10000	13284
减速电机总重量 Total Weight (g)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
减速器长度 Length(mm)	86									
减速后速度 Speed after gearbox	180	120	90	60	45	36	30	22.5	18	15
背隙 (无负载时) Backlash at no-load	15'~18'									
效率 Efficiency	86%	84%	82%	78%	74%	70%	66%	61%	57%	54%

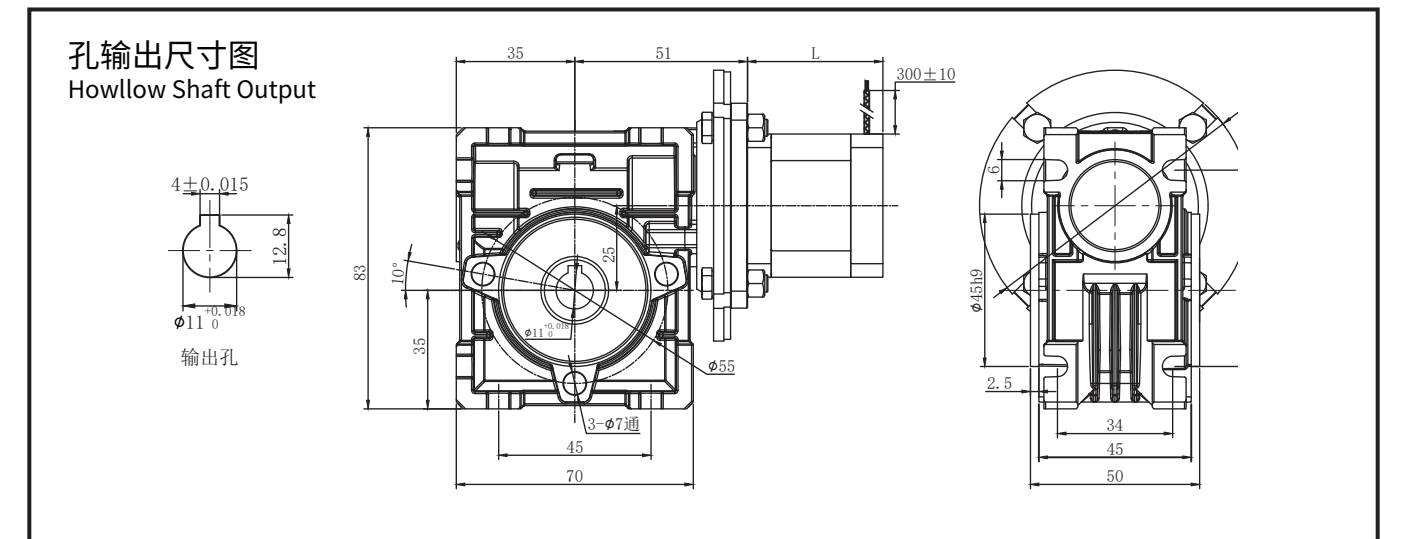
减速电机性能参数 (42HSC6411) / Geared Stepper Motor Specifications

减速比 Reduction ratio	5	7.5	10	15	20	25	30	40	50	60
减速电机总高度 Total Length (mm)	134	134	134	134	134	134	134	134	134	134
减速电机输出扭矩 Torque for gearbox (mN.m)	1800	2600	3400	4900	6100	7875	8200	10000	12000	14000
减速电机总重量 Total Weight (g)	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
减速器长度 Length(mm)	86									
减速后速度 Speed after gearbox	180	120	90	60	45	36	30	22.5	18	15
背隙 (无负载时) Backlash at no-load	15'~18'									
效率 Efficiency	86%	84%	82%	78%	74%	70%	66%	61%	57%	54%

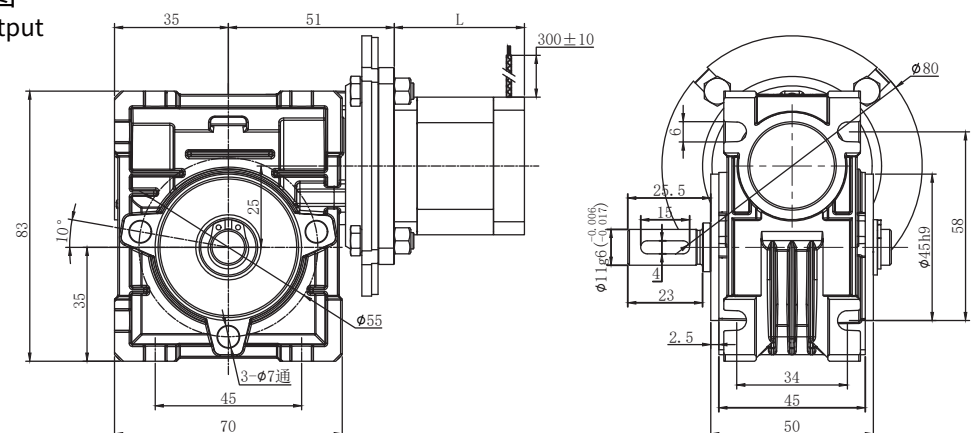
减速机出轴选择 / Gearbox shaft options



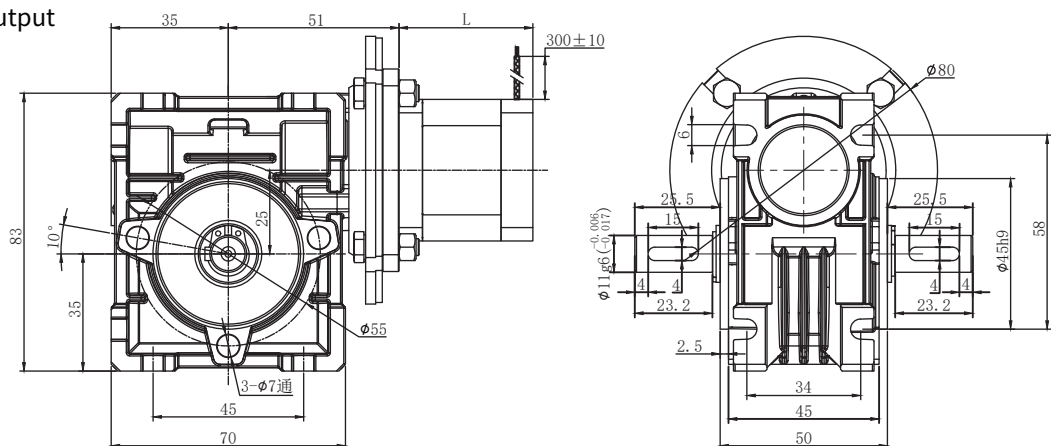
蜗轮蜗杆尺寸图 / Dimensions



单出轴尺寸图
Single Shaft Output



双出轴尺寸图
Double Shaft Output

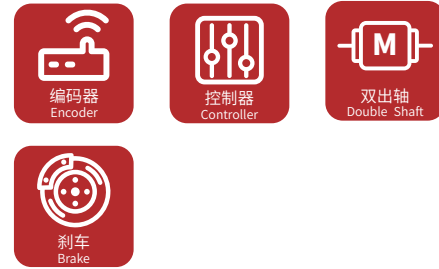


Blank area with horizontal dotted lines for notes or specifications.

Size 42 方形法兰 / Nema 17 Square Flange



选件 / Options



42 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L Length L	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g-cm ²	kg	mm	
42HSC4409	2.75	1.5	1.65	3.3	380	4	40	0.30	40	≤ 1: 60
42HSC6411	2.77	1.68	1.65	2.8	500	4	68	0.35	48	≤ 1: 60

减速电机性能参数 (42HSC4409) / Geared Stepper Motor Specifications

减速比 Reduction ratio	5	7.5	10	15	20	25	30	40	50	60
减速电机总高度 Total Length (mm)	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5
减速电机输出扭矩 Torque for gearbox (mN.m)	1763	2583	3362	4797	6068	7175	8118	10000	10000	13284
减速电机总重量 Total Weight (g)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
减速器长度 Length(mm)	86									
减速后速度 Speed after gearbox	180	120	90	60	45	36	30	22.5	18	15
背隙 (无负载时) Backlash at no-load	15'~18'									
效率 Efficiency	86%	84%	82%	78%	74%	70%	66%	61%	57%	54%

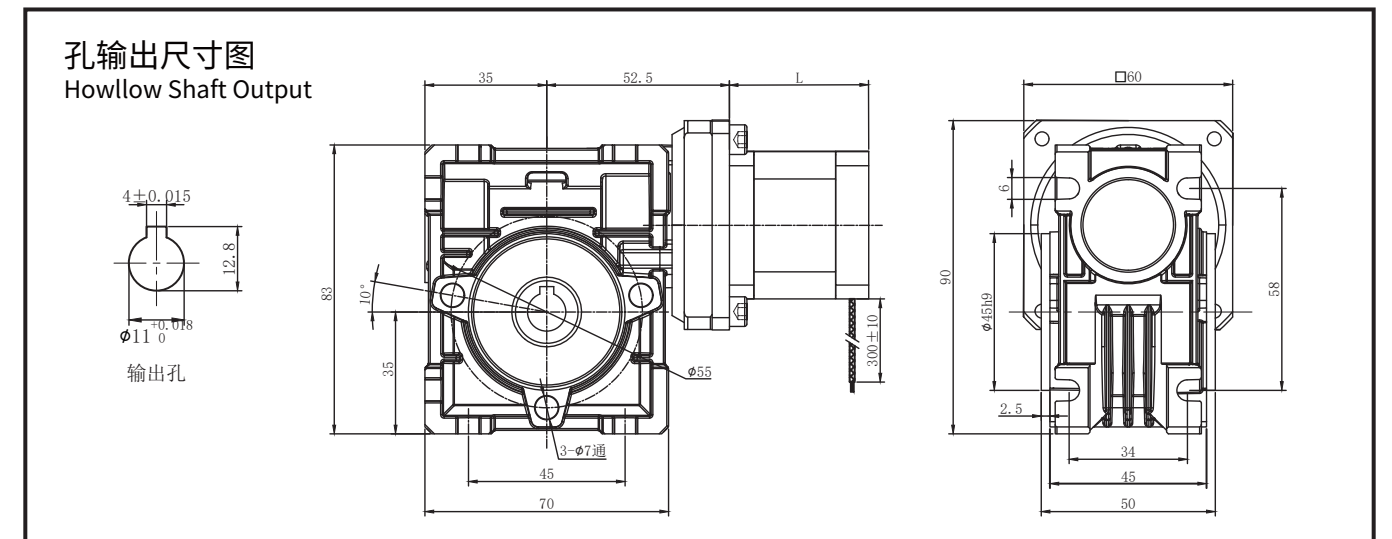
减速电机性能参数 (42HSC6411) / Geared Stepper Motor Specifications

减速比 Reduction ratio	5	7.5	10	15	20	25	30	40	50	60
减速电机总高度 Total Length (mm)	135.5	135.5	135.5	135.5	135.5	135.5	135.5	135.5	135.5	135.5
减速电机输出扭矩 Torque for gearbox (mN.m)	1800	2600	3400	4900	6100	7875	8200	10000	12000	14000
减速电机总重量 Total Weight (g)	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
减速器长度 Length(mm)	86									
减速后速度 Speed after gearbox	180	120	90	60	45	36	30	22.5	18	15
背隙 (无负载时) Backlash at no-load	15'~18'									
效率 Efficiency	86%	84%	82%	78%	74%	70%	66%	61%	57%	54%

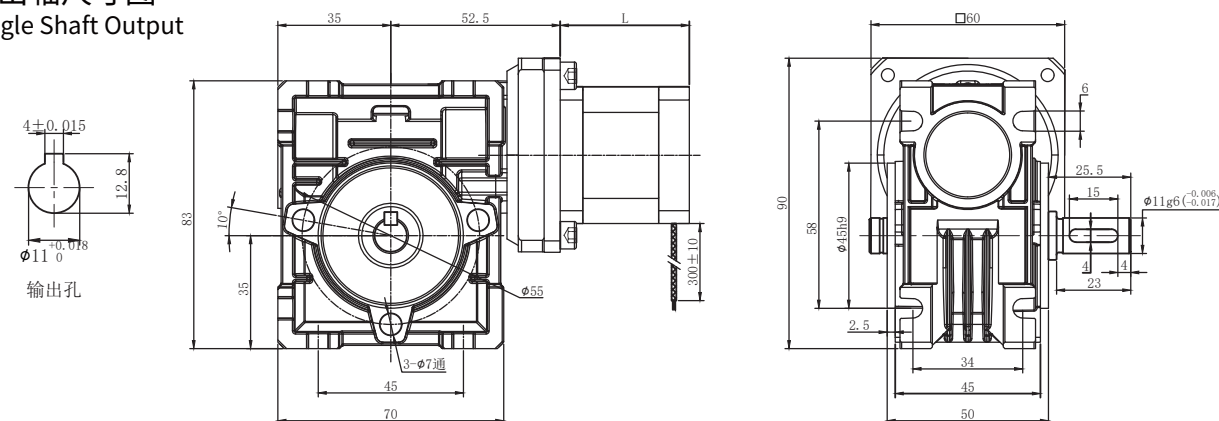
减速机出轴选择 / Gearbox shaft options



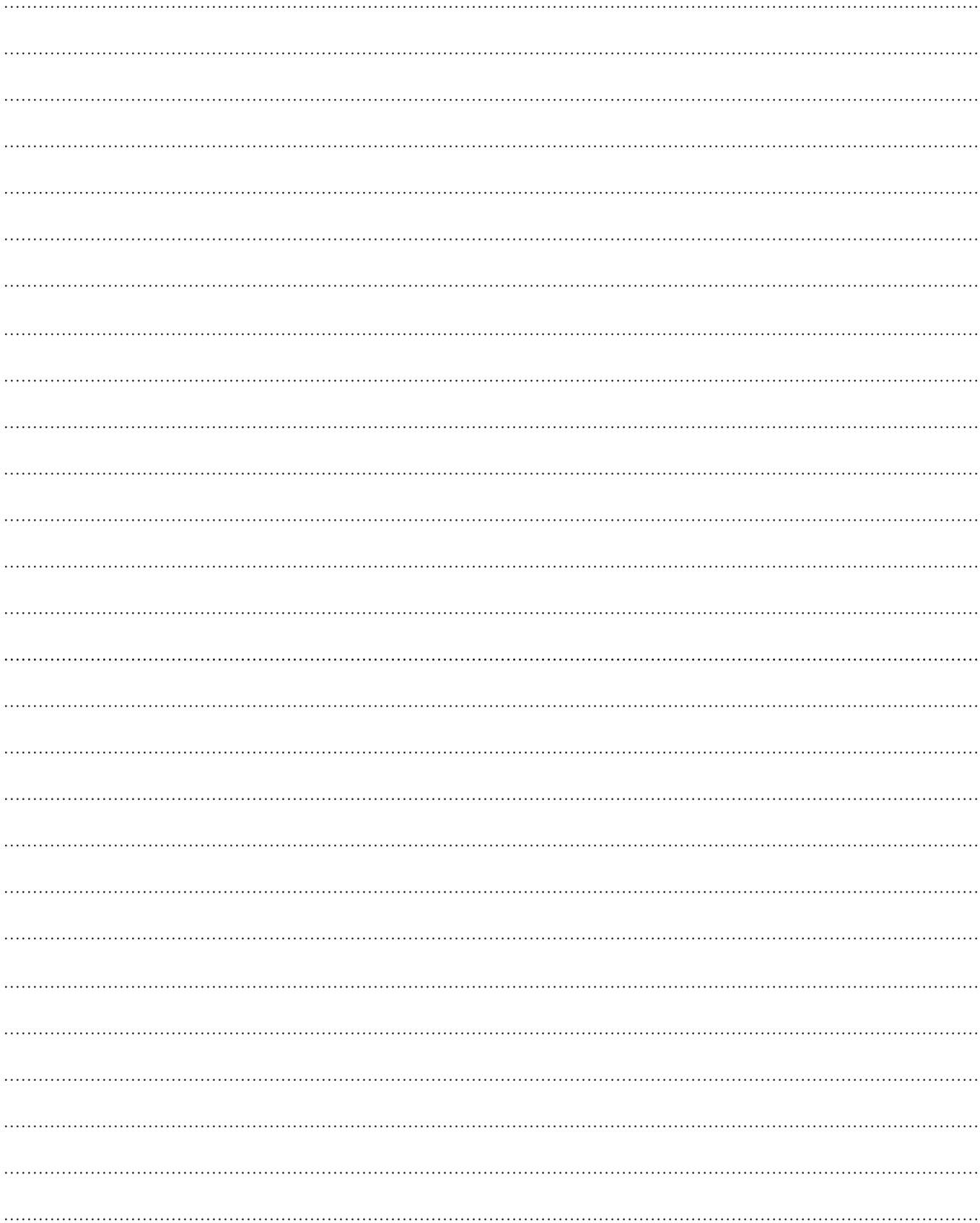
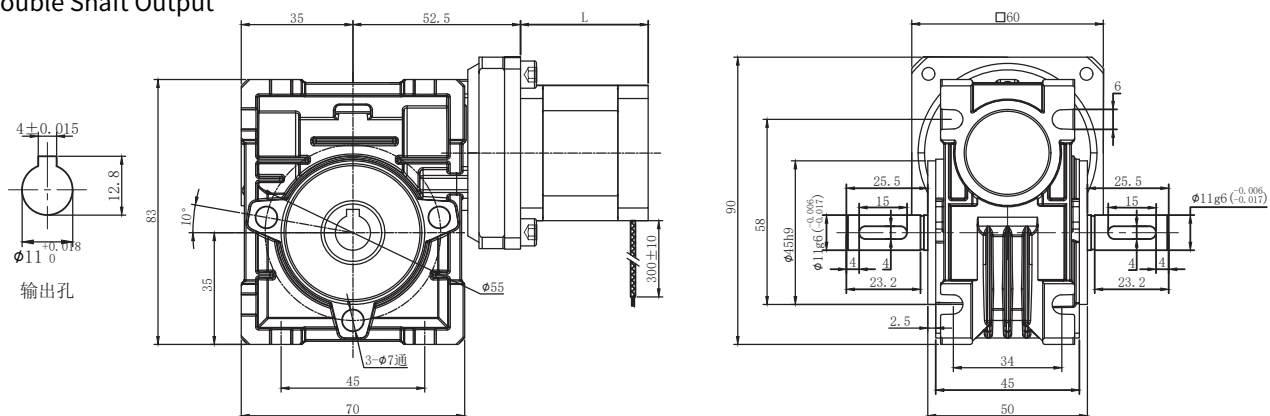
蜗轮蜗杆尺寸图 / Dimensions



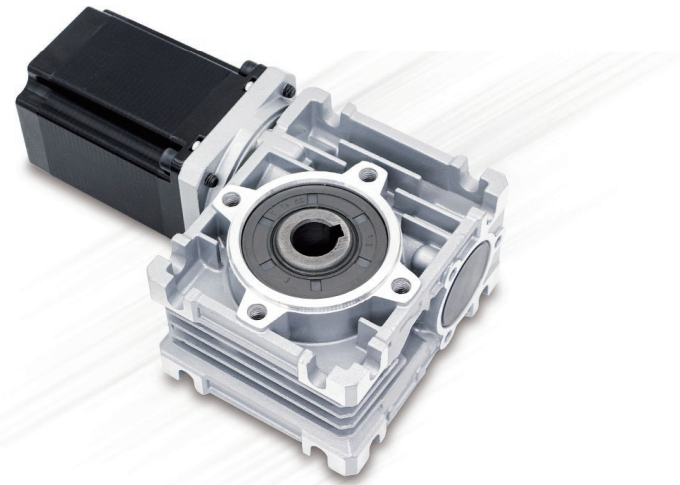
单出轴尺寸图
Single Shaft Output



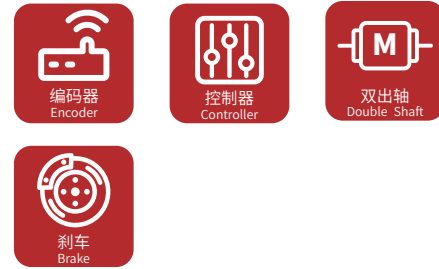
双出轴尺寸图
Double Shaft Output



Size 57 / Nema 23



选件 / Options



57 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L Length L	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g-cm ²	kg	mm	
57HS5417	1.7	2.0	0.85	2.5	950	4	200	0.64	55	≤ 1: 80
57HS7407	2.1	3.0	0.7	2.0	1900	4	230	1.1	76	≤ 1: 80

减速电机性能参数 (57HS5417) / Geared Stepper Motor Specifications

减速比 Reduction ratio	5	7.5	10	15	20	25	30	40	50	60	80
减速电机总高度 Total Length (mm)	150	150	150	150	150	150	150	150	150	150	150
减速电机输出扭矩 Torque for gearbox (mN.m)	4085	5985	7695	10830	13680	15913	18240	20000	18000	17000	15000
减速电机总重量 Total Weight (g)	1860	1860	1860	1860	1860	1860	1860	1860	1860	1860	1860
减速器长度 Length(mm)	95										
减速后速度 Speed after gearbox	180	120	90	60	45	36	30	22.5	18	15	11.25
背隙 (无负载时) Backlash at no-load	15'~18'										
效率 Efficiency	86%	84%	81%	76%	72%	67%	64%	58%	54%	50%	44%

减速电机性能参数 (57HS7407) / Geared Stepper Motor Specifications

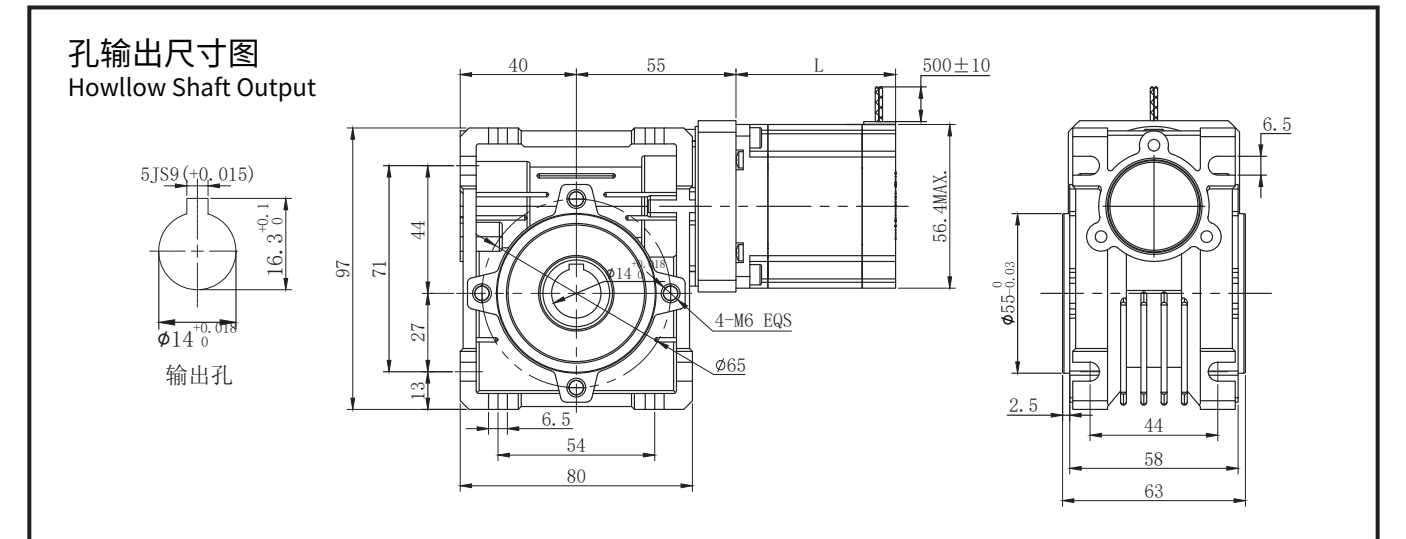
减速比 Reduction ratio	5	7.5	10	15	20	25	30	40	50	60	80
减速电机总高度 Total Length (mm)	171	171	171	171	171	171	171	171	171	171	171
减速电机输出扭矩 Torque for gearbox (mN.m)	8170	11970	15390	20000	20000	23000	21000	20000	18000	17000	15000
减速电机总重量 Total Weight (g)	2320	2320	2320	2320	2320	2320	2320	2320	2320	2320	2320
减速器长度 Length(mm)	95										
减速后速度 Speed after gearbox	180	120	90	60	45	36	30	22.5	18	15	11.25
背隙 (无负载时) Backlash at no-load	15'~18'										
效率 Efficiency	86%	84%	81%	76%	72%	67%	64%	58%	54%	50%	44%

减速机出轴选择 / Gearbox shaft options

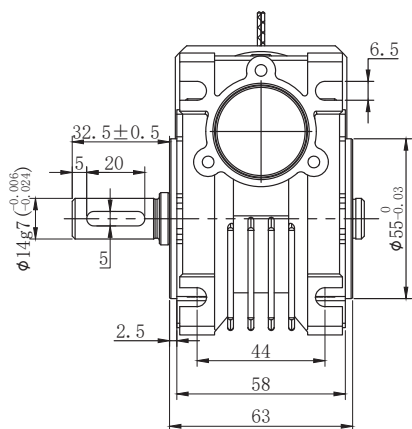
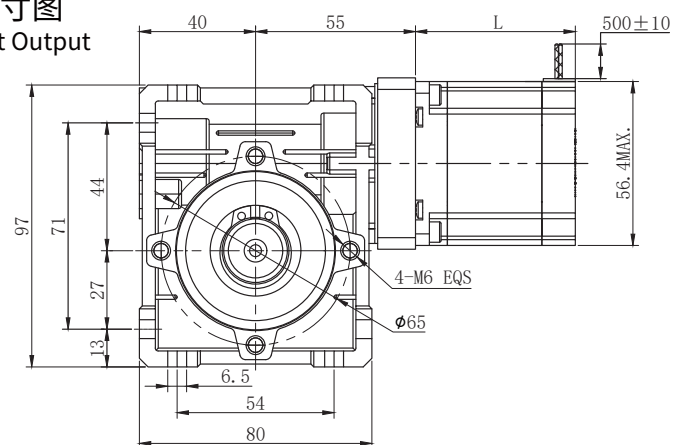


减速电机性能参数 (57HS5417) / Geared Stepper Motor Specifications

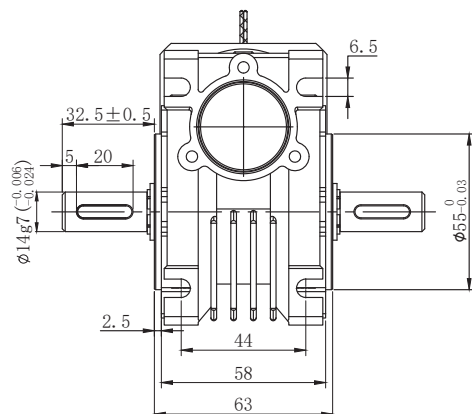
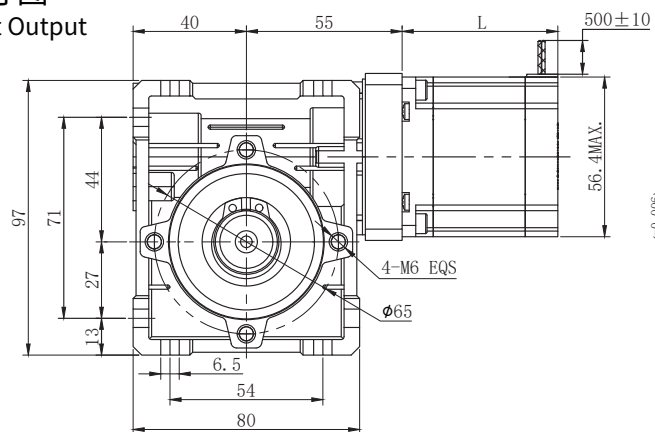
蜗轮蜗杆尺寸图 / Dimensions



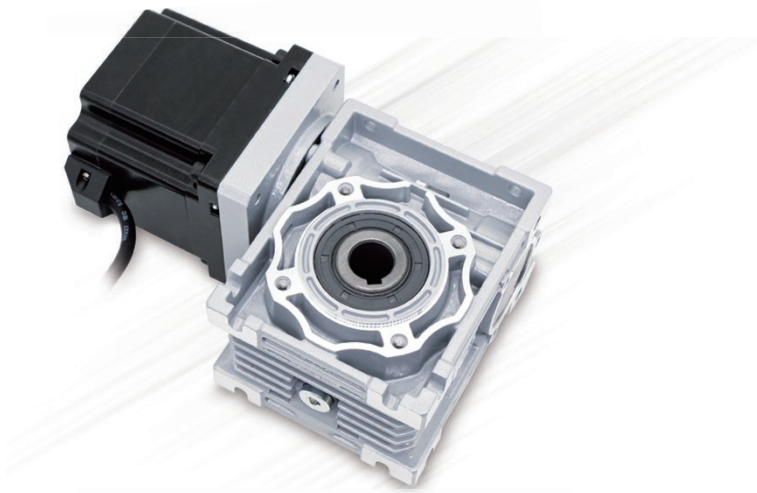
单出轴尺寸图
Single Shaft Output



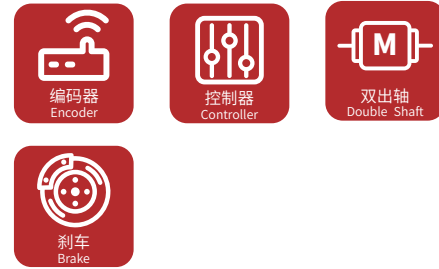
双出轴尺寸图
Double Shaft Output



Size 86 / Nema 34



选件 / Options



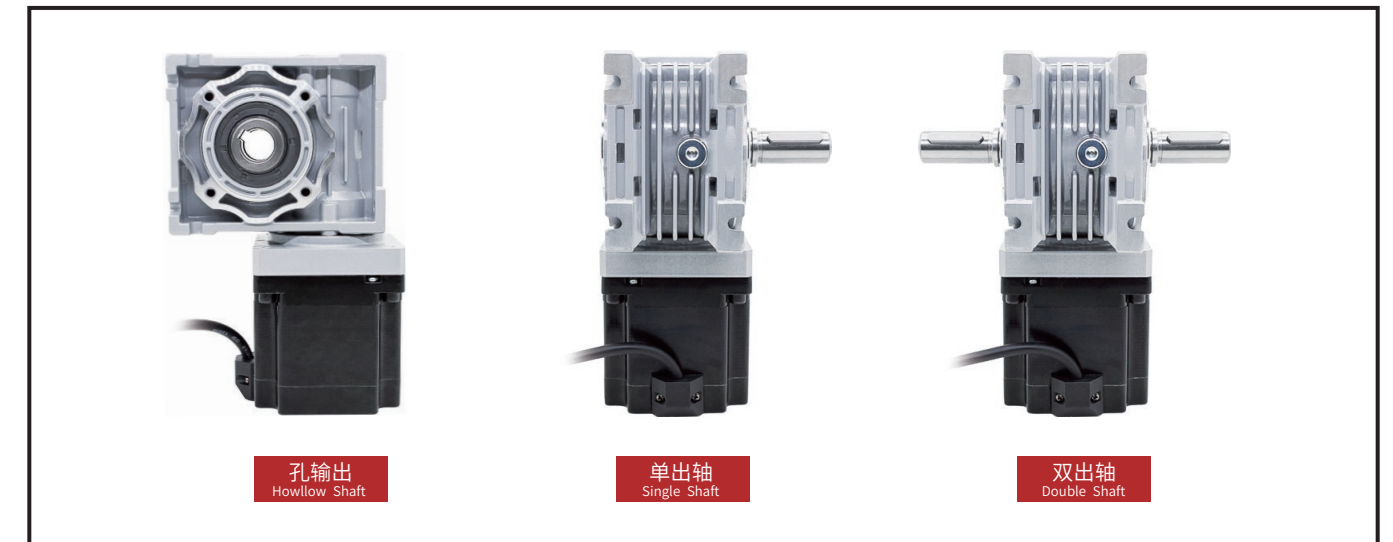
86 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L Length L	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g·cm ²	kg	mm	
86HS2401	1.36	4.0	0.34	2.86	4500	4	1400	2.35	80	≤ 1: 100

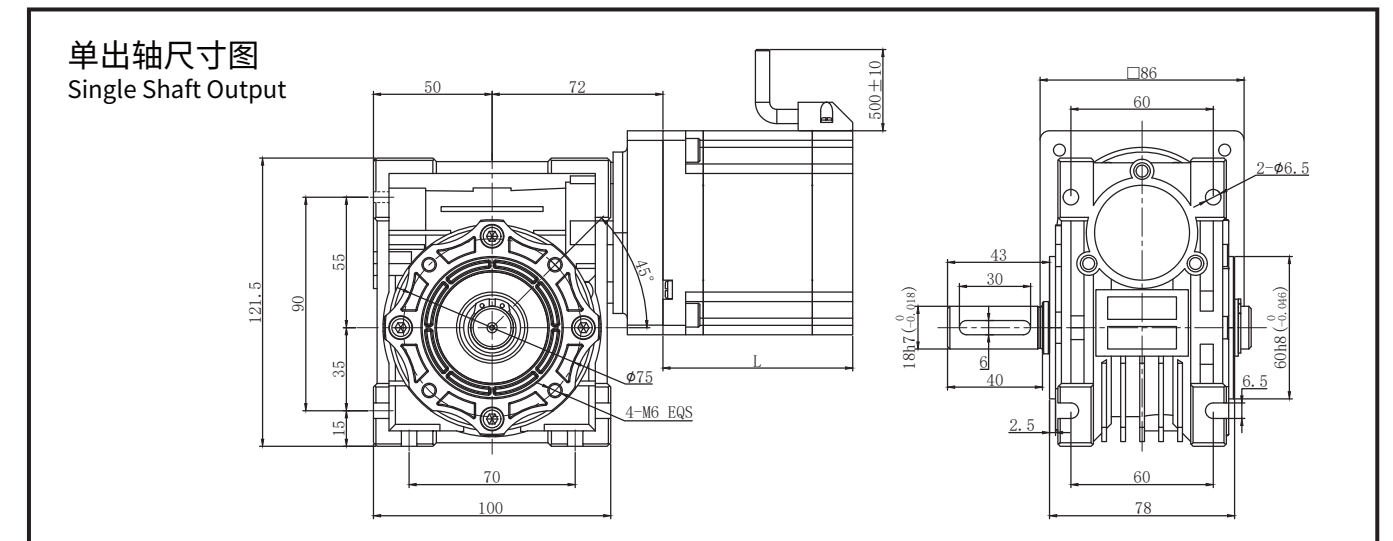
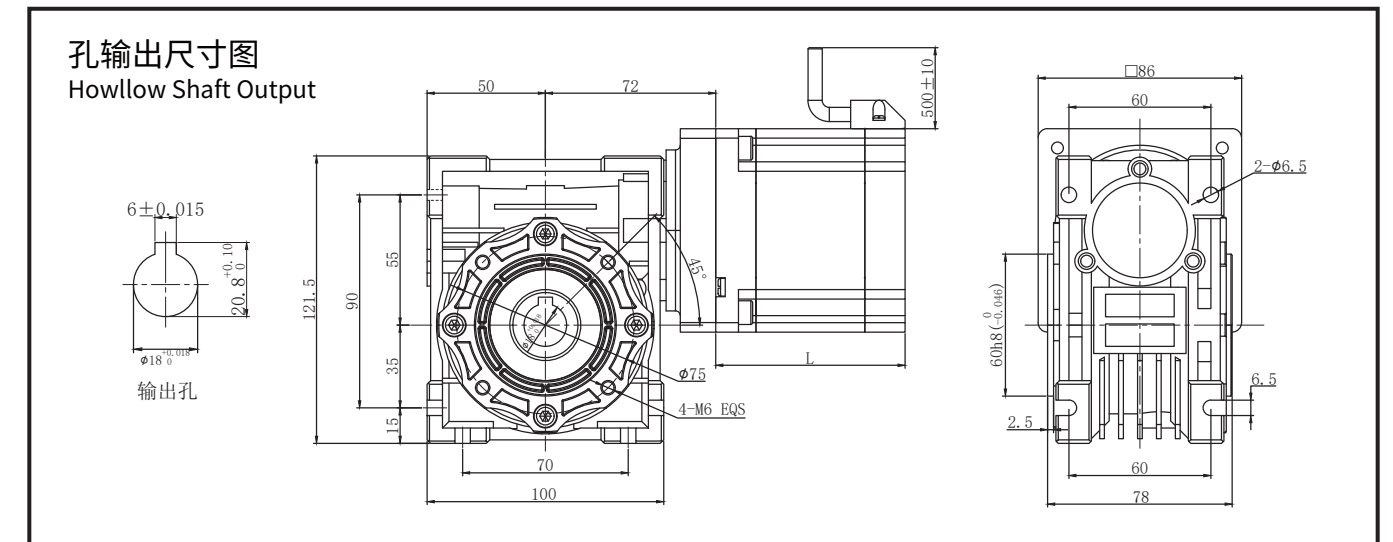
减速电机性能参数 (86HS2401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	5	7.5	10	15	20	25	30	40	50	60	80	100
减速电机总高度 Total Length (mm)	202	202	202	202	202	202	202	202	202	202	202	202
减速电机输出扭矩 Torque for gearbox (mN.m)	19800	29025	38250	45000	44000	43000	49000	45000	42000	39000	35000	32000
减速电机总重量 Total Weight (g)	4900	4900	4900	4900	4900	4900	4900	4900	4900	4900	4900	4900
减速器长度 Length(mm)	122											
减速后速度 Speed after gearbox	180	120	90	60	45	36	30	22.5	18	15	11.25	9
背隙 (无负载时) Backlash at no-load	15'~18'											
效率 Efficiency	88%	86%	85%	81%	77%	74%	69%	64%	61%	57%	51%	47%

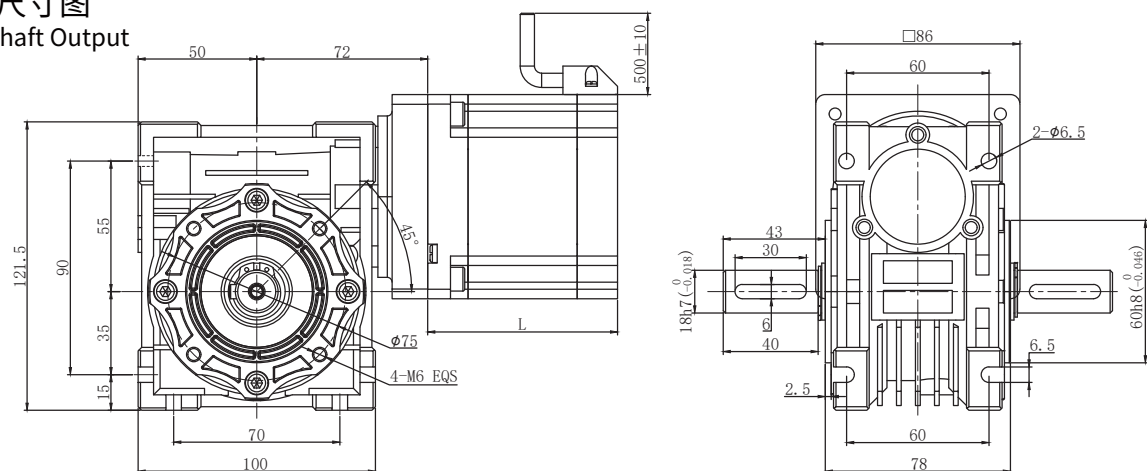
减速机出轴选择 / Gearbox shaft options



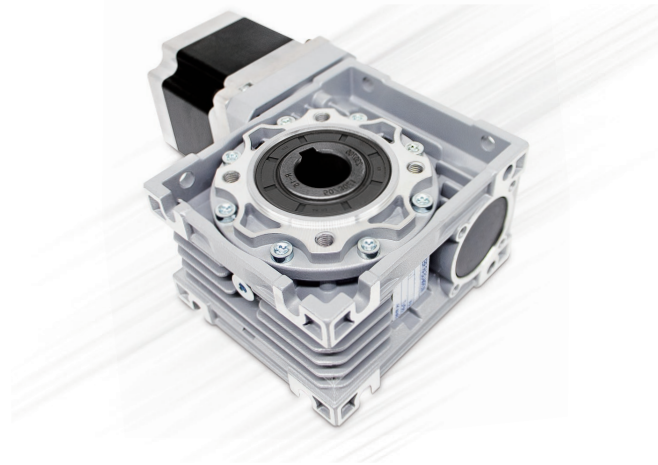
蜗轮蜗杆尺寸图 / Dimensions



双出轴尺寸图
Double Shaft Output



Size 86 重载 / Nema 34 Heavy-duty



选件 / Options



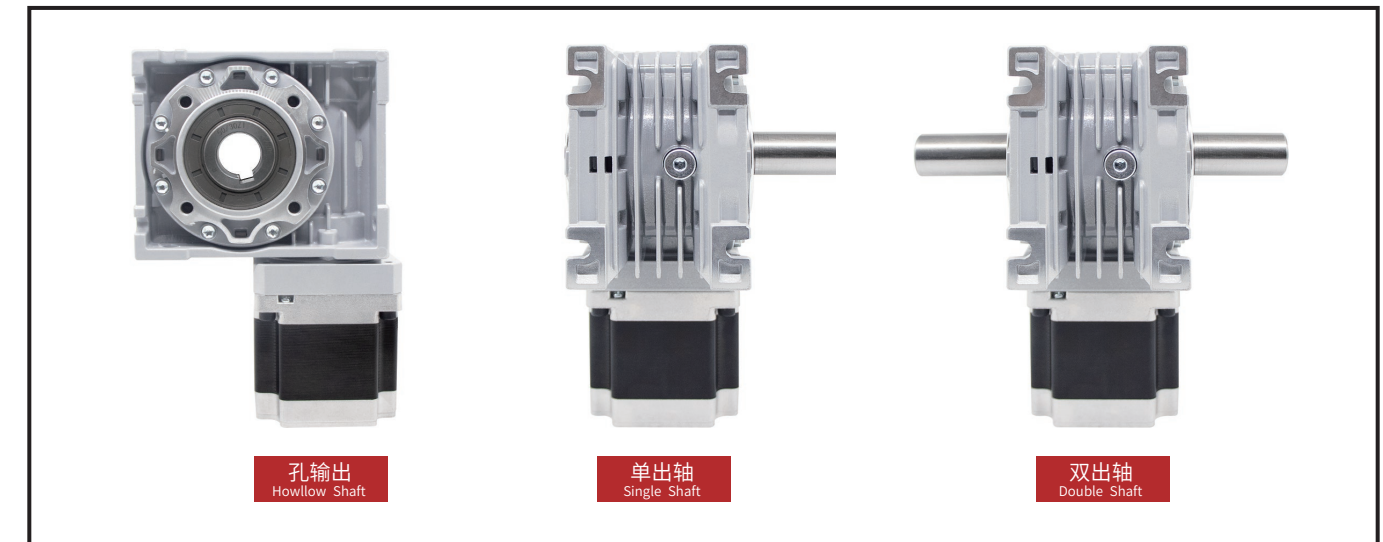
86 混合式步进电机技术参数 / Technical Data

Model No.	额定电压 Rated Voltage	每相电流 Current /Phase	每相电阻 Resistance /Phase	每相电感 Inductance /Phase	保持转矩 Holding Torque	引出线数 #of Leads	转动惯量 Rotor Inertia	重量 Weight	长度 L Length L	适配减速比 Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	mN.m		g-cm ²	kg	mm	
86HS2401	1.36	4.0	0.34	2.86	4500	4	1400	2.35	80	≤ 1: 100

减速电机性能参数 (86HS2401) / Geared Stepper Motor Specifications

减速比 Reduction ratio	5	7.5	10	15	20	25	30	40	50	60	80	100
减速电机总高度 Total Length (mm)	220	220	220	220	220	220	220	220	220	220	220	220
减速电机输出扭矩 Torque for gearbox (mN.m)	20000	29000	38000	55000	69000	75000	90000	82000	77000	72000	68000	56000
减速电机总重量 Total Weight (g)	6750	6750	6750	6750	6750	6750	6750	6750	6750	6750	6750	6750
减速器长度 Length(mm)	140											
减速后速度 Speed after gearbox	180	120	90	60	45	36	30	22.5	18	15	11.25	9
背隙 (无负载时) Backlash at no-load	15'~18'											
效率 Efficiency	88%	86%	85%	81%	77%	74%	69%	64%	61%	57%	51%	47%

减速机出轴选择 / Gearbox shaft options



蜗轮蜗杆尺寸图 / Dimensions

