

HANPOSE®

EU CERTIFICATION | DURABLE THRUST
MULTIPLE FULL INSPECTIONS | GUARANTEED QUALITY

BALL SCREW STEPPER MOTOR

- STABLE OPERATION FOR 2000000 TIMES -



PRECISION MOTOR QUALITY PACKAGING



STEERABLE



HIGH PRECISION



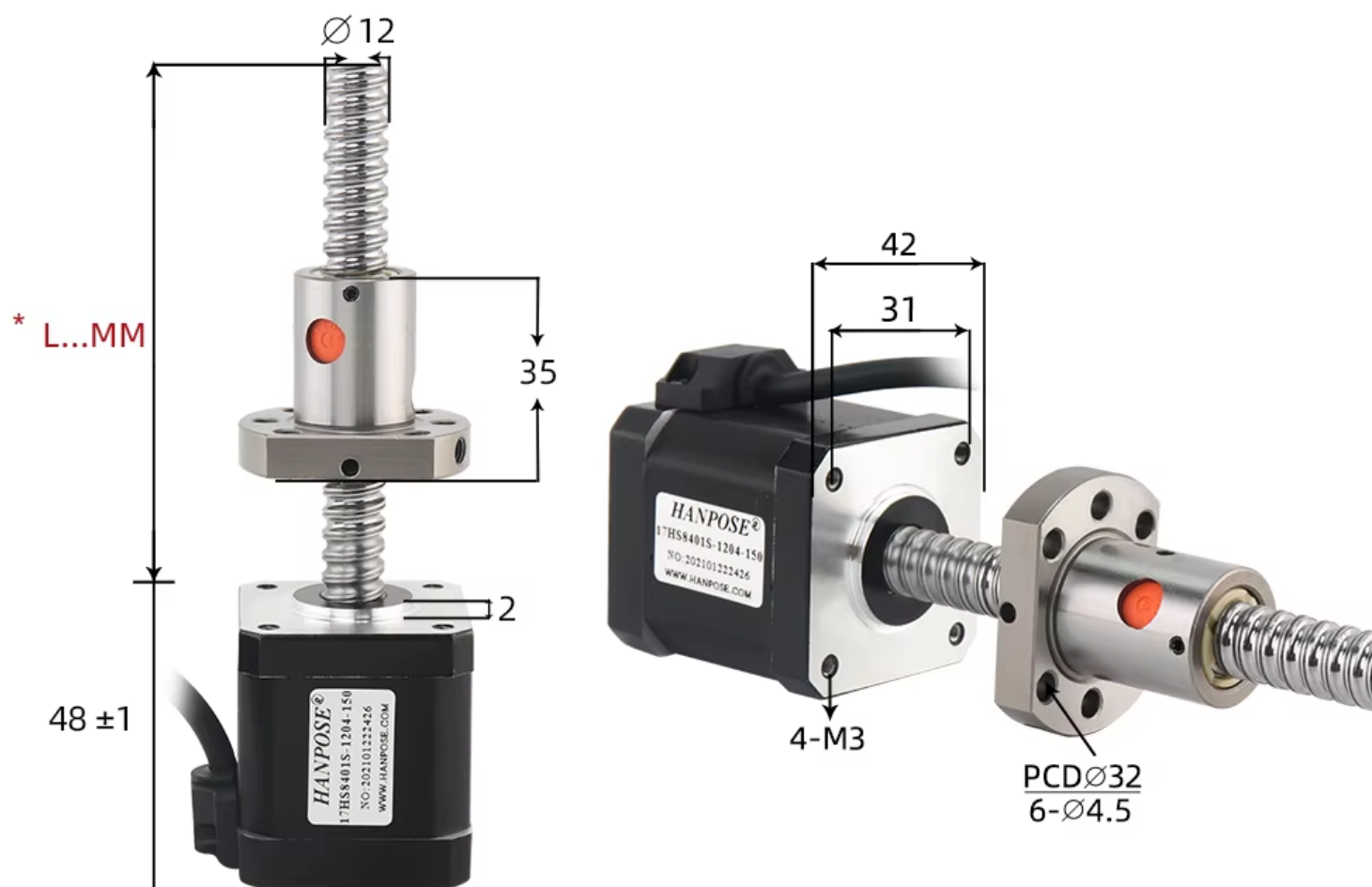
LONG USAGE TIME

Ball screw motor has a lifespan of **2 million** times

Ball screw motor
The repeated positioning of C7 is 0.05

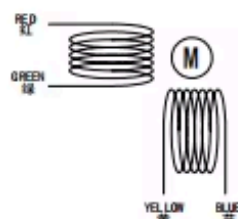
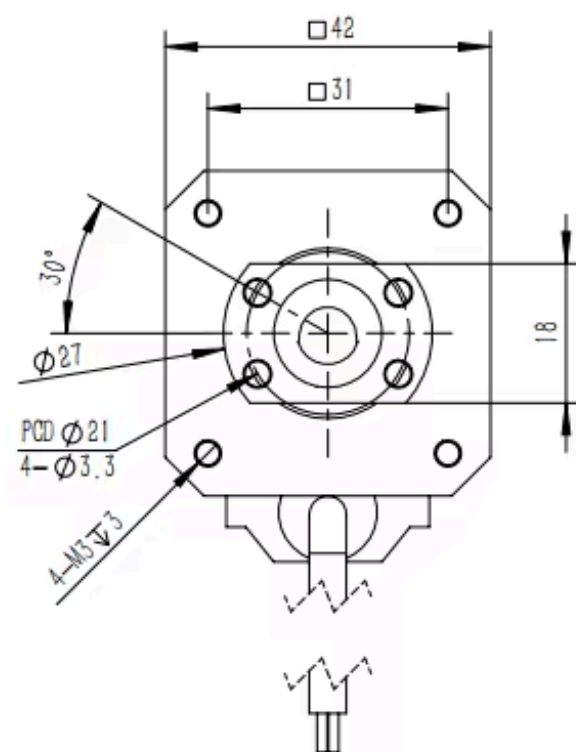
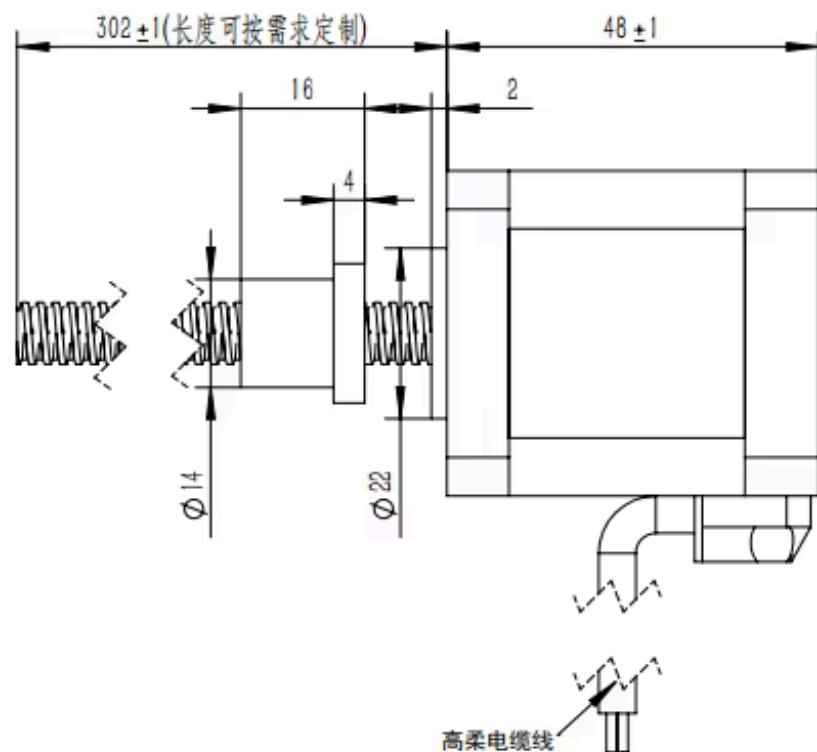
Ball screw motor
movement accuracy **0.03**





Customization of screw length
End processing of screw rod

REVISIONS 修订栏		
REV. 版本号	DESCRIPTION 描述	DATE 日期
	首次发布	2021. 3. 26



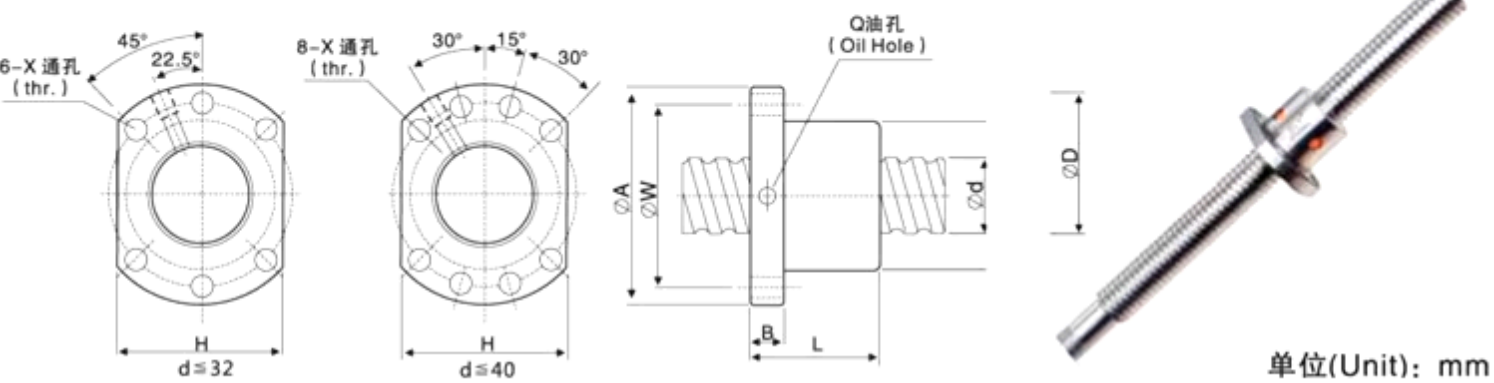
Exciting Sequence 励磁顺序				
STEP	A+	B+	A-	B-
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+
5	+	+	-	-

Tchnical parameters技术参数			
Phases 电机相数	2	Lead screw diameter丝杆直径	8mm
Step angle 步距角	1.8°	Lead 螺纹导程	2mm
Rated voltage 额定电压	3.2V	Linear travel per step整步步长	0.01mm
Rated current 额定相电流	1.8A	Insulation class绝缘等级	B
Rated resistance 额定电阻	1.8Ω ±10%	Insulation resistance绝缘电阻	100MΩ @500VDC
Rated inductance 额定电感	3.2mH ±20%	Operating temperature工作环境温度	-20 °C~+50 °C
Holding torque 保持力矩	0.52Nm	Heat rise 温升	80K
CUSTOMER 客户:		Title标题: Linear Actuator 线性步进电机	
DESIGNED BY 设计: 陈棉涛			
DIMENSIONS ARE IN MILLIMETERS. 尺寸单位为毫米 (mm) . TOLERANCES AS BELOW: 未注公差按以下标准:		DATE日期:	
DIMENSIONS: X, X, X DECIMALS: X, XX, XX, XX DECIMALS: X, XX, XX, XX ANGLES: °, °'		PART NUMBER图号: 42BYGH48	

注意事项:

1. 电机螺杆不得承受径向负载。
2. 电机螺杆不能夹装或者受到硬物挤压, 以免损坏螺牙。
3. 电机螺杆已经涂覆专用油脂, 如需再加油请与厂家联系。
4. 使用期间有任何问题请与厂家联系, 请勿私自拆解电机。
5. 电机必须轻拿轻放, 拿取时请拿电机本体, 勿手拎引出线。
6. 电机接线顺序为: A+红线, A-绿线, B+黄线, B-蓝线。

1、型式 (TYPE) : SFU(DIN 69051 Formolu B)



l: 导程 Lead Da: 珠径 Ball Dia. N: 珠圈数 Number of Circuite K: 刚性 Stiffness(Kgf/μm)
Ca: 动额定负荷 Basic Dynamic Rating Load(Kgf) Coa: 静额定负荷 Basic Static Rating Load(Kgf)

型号 Type	滚珠丝杠、螺母之基准数据 Dimensions														
	d	l	Da	D	A	B	L	W	X	H	Q	N	Ca	Coa	K
SFU1204-4	12	4	2.381	24/22	40	10	40	32	4.5	30		4	593	1129	12.5
SFU1604-4	16	4	2.381	28	48	10	40	38	5.5	40	M6	4	629	1270	35
SFU1605-3		5	3.175	28	48	10	43	38	5.5	40	M6	3	765	1240	17
SFU1605-4		5	3.175	28	48	10	50	38	5.5	40	M6	4	780	1790	20
SFU1610-3/2		10	3.175	28	48	10	47	38	5.5	40	M6	3	721	1249	15
SFU2005-3	20	5	3.175	36	58	10	43	47	6.5	44	M6	3	860	1710	22
SFU2005-4		5	3.175	36	58	10	51	47	6.6	44	M6	4	1130	2380	25
SFU2010-3/2		10	3.175	36	58	10	47	47	6.6	44	M6	3	830	1680	20
SFU2505-3	25	5	3.175	40	63	10	43	51	6.6	48	M6	3	980	2300	32
SFU2505-4		5	3.175	40	63	10	51	51	6.6	48	M6	4	1280	3110	35
SFU2510-4		10	4.762	40	63	12	85	51	6.6	48	M6	4	1944	3877	33
SFU2510-4/2		10	3.175	40	63	10	54	51	6.6	48	M6	4	1150	2950	30
SFU3205-4	32	5	3.175	50	81	12	52	65	9	62	M6	4	1450	4150	40
SFU3206-4		6	3.175	50	81	12	57	65	9	62	M6	4	1720	4298	43
SFU3210-4		10	6.350	50	81	14	90	65	9	62	M6	4	3390	7170	45
SFU4005-4	40	5	3.175	63	93	14	55	78	9	70	M8	4	1610	5330	49
SFU4010-4		10	6.350	63	93	14	93	78	9	70	M8	4	3910	9520	55
SFU5005-4	50	5	5.175	75	110	15	55	93	11	85	M8	4	1730	6763	60
SFU5010-4		10	6.350	75	110	16	93	93	11	85	M8	4	4450	12500	65
SFU5020-4		20	7.144	75	110	16	138	93	11	85	M8	4	4644	14327	59.5
SFU6310-4	63	10	6.350	90	125	18	98	108	11	95	M8	4	5070	16600	80
SFU6320-4		20	9.525	95	135	20	149	115	13.5	100	M8	4	7573	23860	84.1
SFU8010-4	80	10	6.350	105	145	20	98	125	13.5	110	M8	4	5620	21300	90
SFU8010-6		10	6.350	105	145	22	118	125	13.5	110	M8	6	7810	31800	106
SFU8020-4		20	9.525	125	165	25	154	145	13.5	130	M8	4	8485	30895	108
SFU10020-4	100	20	9.525	150	202	30	180	170	17.5	155	M8	4	9420	39183	134