





Φ10mm

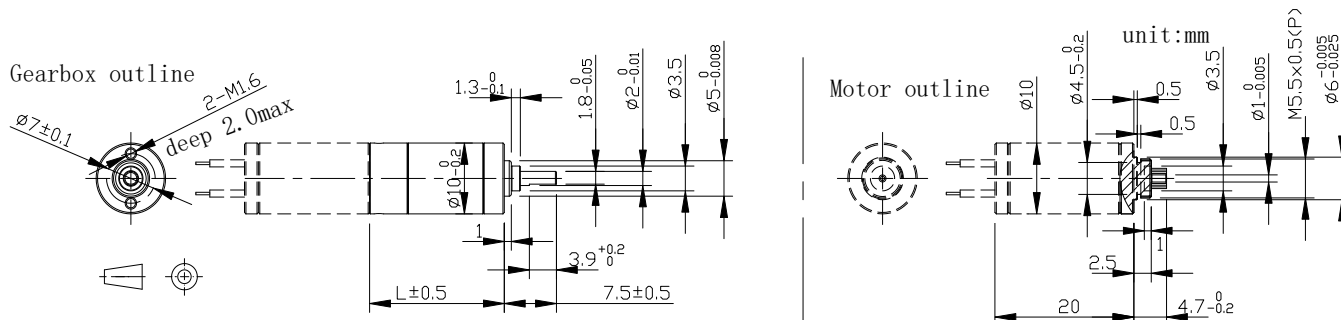
Planetary gearbox/行星减速箱

ST10P Series/ST10P系列

General & Basic information/通用基本信息		
NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ10mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Metal/金属
4	Type of teeth/齿种类	Straight/直齿
5	Teeth material/齿材料*	Steel/钢件
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	1,2,3,4,5
10	Axial play/轴向串动量	≤0.1 mm
11	Radial play/径向串动量(4mm from flange/距法兰盘4mm)	≤0.03 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤2N
13	Max. force for press fits/输出轴最大允许安装力	≤5N
14	Max. radial force/输出轴最大径向负载(4mm from flange/距法兰盘4mm)	≤10N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH

Technical Data/技术参数						
NO.	Description/描述	Value/值				
17	Number of gear stages/齿轮级数	1	2	3	4	5
18	Reduction ratio/减速比	4:1	16:1	64:1	256:1	1024:1
19	Max. continuous input speed/最高允许连续输入转速	12,000rpm	18,000rpm	22,000rpm	25,000rpm	30,000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	15,000rpm	23,000rpm	25,000rpm	30,000rpm	35,000rpm
21	Max. continuous torque/最高允许连续扭矩	30mNm	50mNm	100mNm	200mNm	300mNm
22	Max. intermittent torque/最高允许瞬间扭矩	45mNm	75mNm	150mNm	300mNm	450mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same	Same	Same
24	Max. efficiency/最大效率	90%	81%	73%	65%	59%
25	Weight without motor/无电机时质量(g)	5.25	7.26	9.27	11.28	13.29
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	11.8	15.6	19.4	23.2	27
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。				

Reduction ratio减速比	Motor pinion specifications/电机齿参数				
	Material材料	Number of teeth齿数	Length长度	Hole diameter孔径	Pressure angle压力角
4:1 / 16:1 / 64:1 / 256:1 / 1024:1	Steel/钢件	z=12	L=2.2	Φ 1.0 $\begin{smallmatrix} -0.015 \\ -0.035 \end{smallmatrix}$	α=20°



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Φ12mm

Planetary gearbox/行星减速箱

ST12P Series/ST12P系列

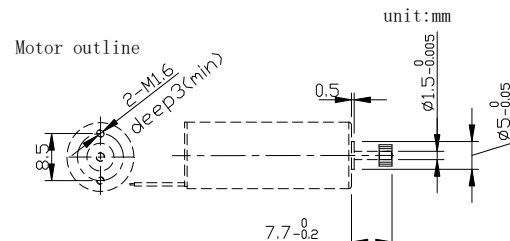
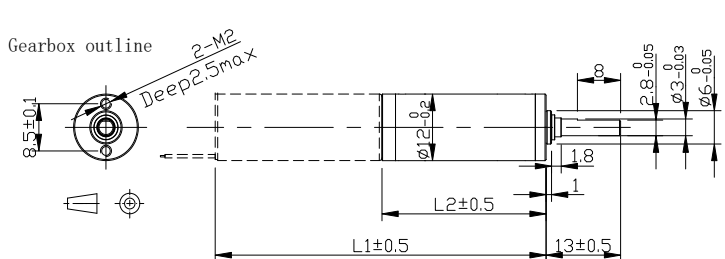
General & Basic information/通用基本信息		
NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ12mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Metal/金属
4	Type of teeth/齿种类	Straight/直齿
5	Teeth material/齿材料*	Steel/钢件*
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	1,2,3,4,5
10	Axial play/轴向串动量	≤0.1 mm
11	Radial play/径向串动量(6.5mm from flange/距法兰盘6.5mm)	≤0.03 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤3N
13	Max. force for press fits/输出轴最大允许安装力	≤5N
14	Max. radial force/输出轴最大径向负载(6.5mm from flange/距法兰盘6.5mm)	≤20N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH

* Normally the 1st stage gears to motor made by plastic in order to reducing noise if stage number more than 1.

* 一般情况下针对1级以上的齿轮箱，第一级接近电机的齿轮为塑料齿轮降低噪音。

Technical Data/技术参数						
NO.	Description/描述	Value/值				
17	Number of gear stages/齿轮级数	1	2	3	4	5
18	Reduction ratio/减速比	4:1	16:1	64:1	256:1	1024:1
19	Max. continuous input speed/最高允许连续输入转速	12,000rpm	18,000rpm	22,000rpm	25,000rpm	30,000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	15,000rpm	22,000rpm	25,000rpm	30,000rpm	35,000rpm
21	Max. continuous torque/最高允许连续扭矩	50mNm	100mNm	200mNm	300mNm	400mNm
22	Max. intermittent torque/最高允许瞬间扭矩	75mNm	150mNm	300mNm	450mNm	600mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same	Same	Same
24	Max. efficiency/最大效率	90%	81%	73%	65%	59%
25	Weight without motor/无电机时质量(g)	5.5	9.52	13.54	17.56	21.58
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	14.4	18.4	22.4	26.4	30.4
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。				

Reduction ratio减速比	Motor pinion specifications/电机齿参数				
	Material材料	Number of teeth齿数	Length长度	Hole diameter孔径	Pressure angle压力角
4:1 / 16:1 / 64:1 / 256:1 / 1024:1	Steel/钢件	z=12	L=2.4	Φ1.5 ^{+0.015} _{-0.035}	α=20°



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Φ16mm

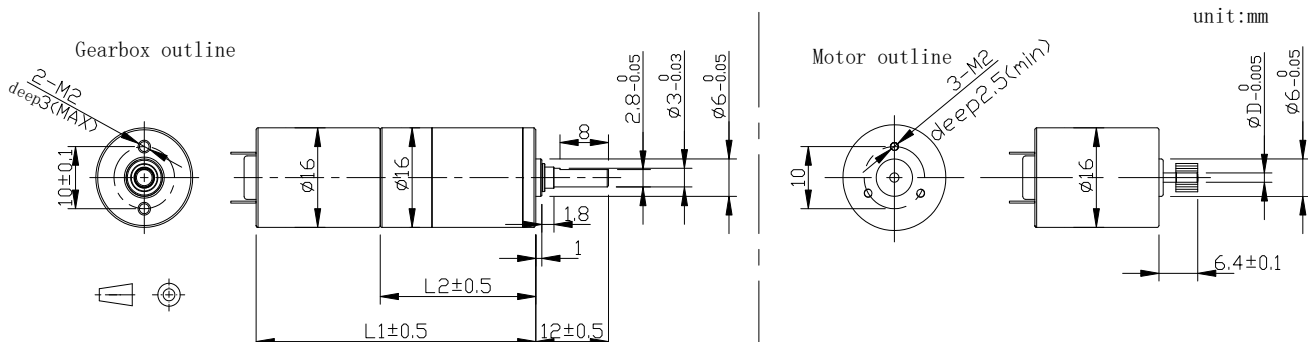
Planetary gearbox/行星减速箱

ST16P Series/ST16P系列

General & Basic information/通用基本信息		
NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ16mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Metal/金属
4	Type of teeth/齿种类	Straight/直齿
5	Teeth material/齿材料*	Steel/钢件*
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	1,2,3,4,5
10	Axial play/轴向串动量	≤0.1 mm
11	Radial play/径向串动量(6.5mm from flange/距法兰盘6.5mm)	≤0.03 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤5N
13	Max. force for press fits/输出轴最大允许安装力	≤25N
14	Max. radial force/输出轴最大径向负载(6.5mm from flange/距法兰盘6.5mm)	≤30N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH
* Normally the 1st stage gears to motor made by plastic in order to reducing noise if stage number more than 1.		
* 一般情况下针对1级以上的齿轮箱，第一级接近电机的齿轮为塑料齿轮降低噪音。		

Technical Data/技术参数						
NO.	Description/描述	Value/值				
17	Number of gear stages/齿轮级数	1	2	3	4	5
18	Reduction ratio/减速比	3.8:1 4.6:1 6:1	The ratio can be one of combinations of 3 ratios			
19	Max. continuous input speed/最高允许连续输入转速	8,000rpm	10,000rpm	12,000rpm	12,000rpm	12,000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	10,000rpm	12,000rpm	15,000rpm	15,000rpm	15,000rpm
21	Max. continuous torque/最高允许连续扭矩	200mNm	400mNm	800mNm	1,000mNm	1,200mNm
22	Max. intermittent torque/最高允许瞬间扭矩	300mNm	600mNm	1,200mNm	1,500mNm	1,800mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same	Same	Same
24	Max. efficiency/最大效率	90%	81%	73%	65%	59%
25	Weight without motor/无电机时质量(g)	14.8	19.83	24.86	29.89	34.92
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	14	17.9	21.8	25.7	29.6
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。				

Reduction ratio/减速比	Motor pinion specifications/电机齿参数				
	Material 材料	Number of teeth 齿数	Length 长度	Hole diameter 孔径(D)	Pressure angle 压力角
6:1 / 36:1 / 216:1	Steel/钢件	z=8	L=3.6	Φ 1.0 $^{+0.015}_{-0.035}$	α=20°
4.6:1 / 17.8:1 / 21.5:1 / 27.8:1 / 69:1 / 100:1 / 167:1 / 1026:1		z=11		Φ 1.5 $^{+0.015}_{-0.035}$	
3.8:1 / 15:1 / 23:1 / 57:1 / 89:1 / 139:1 / 221:1 / 854:1 / 2066:1	Copper/铜	z=14		Φ 2.0 $^{+0.015}_{-0.035}$	



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东莞市赛仑特实业有限公司

Dongguan Silent Industry Co., Ltd



Φ22mm

Planetary gearbox/行星减速箱

斜齿轮, 低回转间隙, 陶瓷版销, 均可选择

ST22P Series/ST22P系列

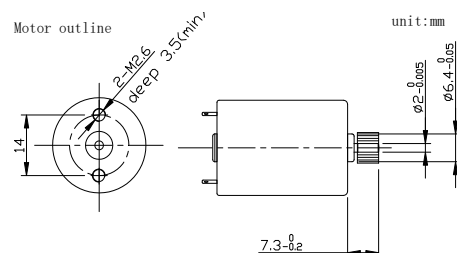
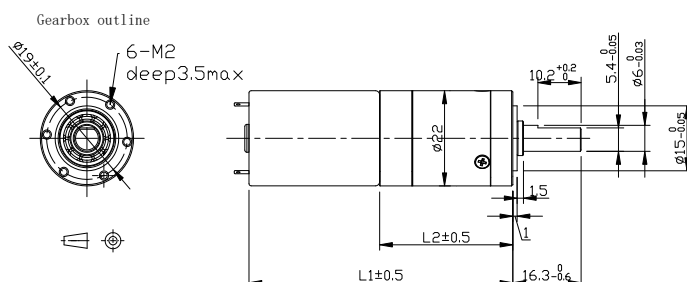
Helical gears, low backlash, ceramic pins are optional

General & Basic information/通用基本信息		
NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ22mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Metal/金属
4	Type of teeth/齿种类	Straight/直齿
5	Teeth material/齿材料*	Steel/钢件*
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	1,2,3,4
10	Axial play/轴向串动量	≤0.1 mm
11	Radial play/径向串动量(8mm from flange/距法兰盘8mm)	≤0.03 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤15N
13	Max. force for press fits/输出轴最大允许安装力	≤25N
14	Max. radial force/输出轴最大径向负载(8mm from flange/距法兰盘8mm)	≤50N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH

* Normally the 1st stage gears to motor made by plastic in order to reducing noise if stage number more than 1.
* 一般情况下针对1级以上的齿轮箱, 第一级接近电机的齿轮为塑料齿轮降低噪音。

Technical Data/技术参数					
NO.	Description/描述	Value/值			
17	Number of gear stages/齿轮级数	1	2	3	4
18	Reduction ratio/减速比	3.7:1 4.3:1 5.2:1	The ratio can be one of combinations of 3 ratios		
19	Max. continuous input speed/最高允许连续输入转速	8,000rpm	10,000rpm	15,000rpm	15,000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	10,000rpm	15,000rpm	20,000rpm	20,000rpm
21	Max. continuous torque/最高允许连续扭矩	300mNm	550mNm	1,500mNm	2,000mNm
22	Max. intermittent torque/最高允许瞬间扭矩	450mNm	825mNm	2,250mNm	3,000mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same	Same
24	Max. efficiency/最大效率	90%	81%	73%	65%
25	Weight without motor/无电机时质量(g)	43.5	54.6	65.8	77.5
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	19.4	25.4	31.4	37.4
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。			

Reduction ratio/减速比	Motor pinion specifications/电机齿参数			
	Material 材料	Number of teeth 齿数	Length 长度	Hole diameter 孔径
5.2:1 / 19.2:1 / 22:1 / 27:1 / 99:1 / 115:1 / 139:1 / 721:1	Steel/钢件	z=11	L=5	Φ 2.0 ^{-0.015} _{-0.035}
4.3:1 / 16:1 / 18.3 / 79:1 / 218:1 / 337:1		z=14	L=5	
3.7:1 / 13.7:1 / 51:1 / 189:1	Copper/铜	z=17	L=5	



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东莞市赛仑特实业有限公司

Dongguan Silent Industry Co., Ltd

Planetary gearbox/行星减速箱

斜齿轮, 低回转间隙, 陶瓷版销, 均可选择

ST26P Series/ST26P系列

Helical gears, low backlash, ceramic pins are optional



Φ26mm

General & Basic information/通用基本信息

NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ26mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Metal/金属
4	Type of teeth/齿种类	Straight/直齿
5	Teeth material/齿材料*	Steel/钢件*
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	1,2,3,4
10	Axial play/轴向串动量	≤0.1 mm
11	Radial play/径向串动量(8mm from flange/距法兰盘10mm)	≤0.03 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤25N
13	Max. force for press fits/输出轴最大允许安装力	≤50N
14	Max. radial force/输出轴最大径向负载(8mm from flange/距法兰盘10mm)	≤70N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH

* Normally the 1st stage gears to motor made by plastic in order to reducing noise if stage number more than 1.

* 一般情况下针对1级以上的齿轮箱, 第一级接近电机的齿轮为塑料齿轮降低噪音。

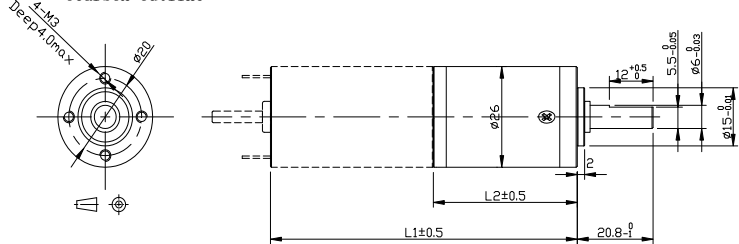
Technical Data/技术参数

NO.	Description/描述	Value/值			
17	Number of gear stages/齿轮级数	1	2	3	4
18	Reduction ratio/减速比	3.7:1 4.3:1 5.2:1	The ratio can be one of combinations of 3 ratios		
19	Max. continuous input speed/最高允许连续输入转速	8,000rpm	10,000rpm	15,000rpm	15,000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	10,000rpm	15,000rpm	20,000rpm	20,000rpm
21	Max. continuous torque/最高允许连续扭矩	500mNm	750mNm	2,000mNm	2,500mNm
22	Max. intermittent torque/最高允许瞬间扭矩	750mNm	1,100mNm	3,000mNm	3,750mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same	Same
24	Max. efficiency/最大效率	90%	81%	73%	65%
25	Weight without motor/无电机时质量(g)	50	62	75	89
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	21.5	30.5	39.5	48.5
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。			

Reduction ratio/减速比

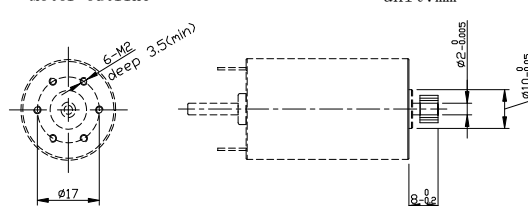
Reduction ratio/减速比	Material 材料	Number of teeth 齿数	Length 长度	Hole diameter 孔径
5.2:1 / 19.2:1 / 22:1 / 27:1 / 99:1 / 115:1 / 139:1 / 721:1	Steel/钢件	z=11	L=5	Φ2.0 ^{-0.015} _{-0.035}
4.3:1 / 16:1 / 18.3 / 79:1 / 218:1 / 337:1		z=14	L=5	
3.7:1 / 13.7:1 / 51:1 / 189:1	Copper/铜	z=17	L=5	

Gearbox outline



Motor outline

unit:mm



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Planetary gearbox/行星减速箱

斜齿轮, 低回转间隙, 陶瓷版销, 均可选择

ST28P Series/ST28P系列

Helical gears, low backlash, ceramic pins are optional



Φ28mm

General & Basic information/通用基本信息

NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ28mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Metal/金属
4	Type of teeth/齿种类	Straight/直齿
5	Teeth material/齿材料*	Steel/钢件*
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	1,2,3,4
10	Axial play/轴向串动量	≤0.3 mm
11	Radial play/径向串动量(10mm from flange/距法兰盘10mm)	≤0.03 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤30N
13	Max. force for press fits/输出轴最大允许安装力	≤60N
14	Max. radial force/输出轴最大径向负载(10mm from flange/距法兰盘10mm)	≤80N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH

* Normally the 1st stage gears to motor made by plastic in order to reducing noise if stage number more than 1.

* 一般情况下针对1级以上的齿轮箱, 第一级接近电机的齿轮为塑料齿轮降低噪音。

Technical Data/技术参数

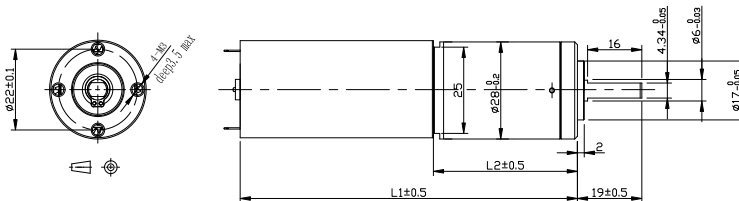
NO.	Description/描述	Value/值			
17	Number of gear stages/齿轮级数	1	2	3	4
18	Reduction ratio/减速比	3.7:1 4.3:1 5.2:1 6.7:1	The ratio can be one of combinations of 4 ratios		
19	Max. continuous input speed/最高允许连续输入转速	10,000rpm	12,000rpm	18,000rpm	18,000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	12,000rpm	18,000rpm	25,000rpm	25,000rpm
21	Max. continuous torque/最高允许连续扭矩	750mNm	3,000mNm	5,000mNm	6,000mNm
22	Max. intermittent torque/最高允许瞬间扭矩	1,100mNm	4,500mNm	7,500mNm	9,000mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same	Same
24	Max. efficiency/最大效率	90%	81%	73%	65%
25	Weight without motor/无电机时质量(g)	74.6	97.6	120	145.5
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	28.7	35.7	42.7	49.7
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。			

Reduction ratio减速比

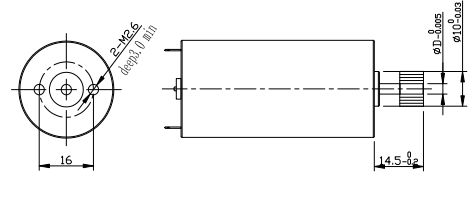
Motor pinion specifications/电机齿参数

	Material材料	Number of teeth齿数	Length长度	Hole diameter孔径(D)
6.7:1 / 35:1 / 45.5:1 / 169:1 /	Steel/钢件	z=8	L=7	Φ2.3 Φ3.0 Φ3.175
5.2:1 / 19:1 / 27:1 / 100:1 / 115:1 / 139:1 / 306:1/352:1 / 516:1 / 721:1 / 207		z=11	L=7	
4.3:1 / 16:1 / 79:1 / 253:1		z=14	L=7	
3.7:1 / 13.7:1 / 51:1 / 190:1		z=17	L=7	

Gearbox outline



Motor outline



unit:mm

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Edition 2019

Specifications subject to change without notice

www.silentgearmotor.com



东莞市赛仑特实业有限公司
Dongguan Silent Industry Co., Ltd

Planetary gearbox/行星减速箱

斜齿轮, 低回转间隙, 陶瓷版销, 均可选择

ST32P Series/ST32P系列

Helical gears, low backlash, ceramic pins are optional

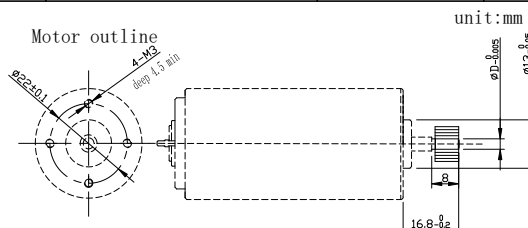
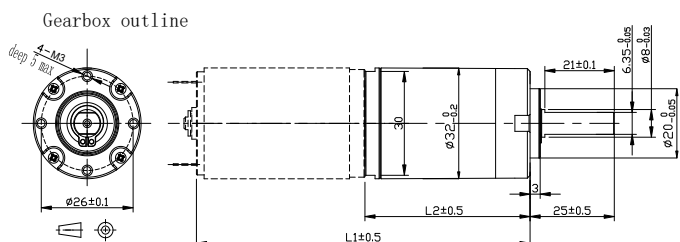


Φ32mm

General & Basic information/通用基本信息		
NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ32mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Metal/金属
4	Type of teeth/齿种类	Straight/直齿
5	Teeth material/齿材料*	Steel/钢件*
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	1,2,3,4
10	Axial play/轴向串动量	≤0.3 mm
11	Radial play/径向串动量(12mm from flange/距法兰盘12mm)	≤0.03 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤30N
13	Max. force for press fits/输出轴最大允许安装力	≤25N
14	Max. radial force/输出轴最大径向负载(12mm from flange/距法兰盘12mm)	≤120N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH
* Normally the 1st stage gears to motor made by plastic in order to reducing noise if stage number more than 1.		
* 一般情况下针对1级以上的齿轮箱, 第一级接近电机的齿轮为塑料齿轮降低噪音。		

Technical Data/技术参数					
NO.	Description/描述	Value/值			
17	Number of gear stages/齿轮级数	1	2	3	4
18	Reduction ratio/减速比	3.7:1 4.3:1 5.2:1 6.7:1	The ratio can be one of combinations of 4 ratios		
19	Max. continuous input speed/最高允许连续输入转速	10,000rpm	12,000rpm	18,000rpm	18,000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	12,000rpm	18,000rpm	25,000rpm	25,000rpm
21	Max. continuous torque/最高允许连续扭矩	750mNm	4,000mNm	7,000mNm	8,000mNm
22	Max. intermittent torque/最高允许瞬间扭矩	1,100mNm	6,000mNm	10,500mNm	12,000mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same	Same
24	Max. efficiency/最大效率	90%	81%	73%	65%
25	Weight without motor/无电机时质量(g)	138.3	158.5	178.6	198.8
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	30	39.5	49	58.5
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。			

Reduction ratio/减速比	Motor pinion specifications/电机齿参数			
	Material 材料	Number of teeth 齿数	Length 长度	Hole diameter 孔径
6.7:1 / 35:1 / 45.5:1 / 169:1 /	Steel/钢件	z=8	L=7	Φ2.3 Φ3.0 Φ3.175 -0.015 -0.035
5.2:1 / 19:1 / 27:1 / 100:1 / 115:1 / 139:1 / 352:1 / 516:1 / 721:1 / 2076:1		z=11	L=7	
4.3:1 / 16:1 / 79:1 / 253:1		z=14	L=7	
3.7:1 / 13.7:1 / 51:1 / 190:1		z=17	L=7	



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General & Basic information/通用基本信息		
NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ36mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Metal/金属
4	Type of teeth/齿种类	Straight/直齿
5	Teeth material/齿材料*	Steel/钢件*
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	1,2,3,4
10	Axial play/轴向串动量	≤0.3 mm
11	Radial play/径向串动量(10mm from flange/距法兰盘10mm)	≤0.03 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤80N
13	Max. force for press fits/输出轴最大允许安装力	≤80N
14	Max. radial force/输出轴最大径向负载(10mm from flange/距法兰盘10mm)	≤120N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH

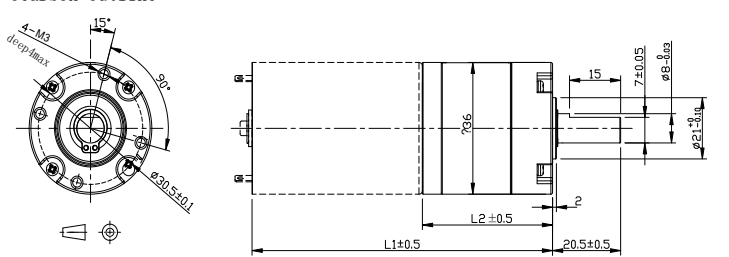
* Normally the 1st stage gears to motor made by plastic in order to reducing noise if stage number more than 1.

* 一般情况下针对1 级以上的齿轮箱，第一级接近电机的齿轮为塑料齿轮降低噪音。

Technical Data/技术参数					
NO.	Description/描述	Value/值			
17	Number of gear stages/齿轮级数	1	2	3	4
18	Reduction ratio/减速比	3.7:1 4.2:1 5:1 6.3:1	The ratio can be one of combinations of 4 ratios		
19	Max. continuous input speed/最高允许连续输入转速	10,000rpm	12,000rpm	18,000rpm	18,000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	12,000rpm	18,000rpm	25,000rpm	25,000rpm
21	Max. continuous torque/最高允许连续扭矩	750mNm	4,000mNm	6,000mNm	6,000mNm
22	Max. intermittent torque/最高允许瞬间扭矩	1,100mNm	6,000mNm	9,000mNm	9,000mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same	Same
24	Max. efficiency/最大效率	90%	80%	70%	60%
25	Weight without motor/无电机时质量(g)	137	194	252	310
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	29.2	37.4	45.6	53.8
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。			

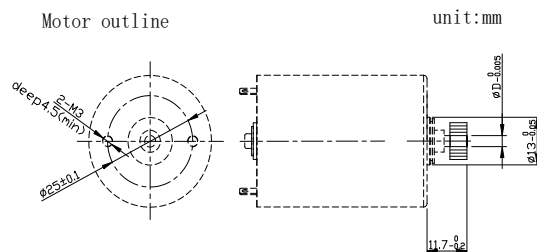
Reduction ratio 减速比	Motor pinion specifications/电机齿参数			
	Material 材料	Number of teeth 齿数	Length 长度	Hole diameter 孔径(D)
6.3:1 / 31.6:1 / 40:1 / 158:1 / 254:1 / 792:1 / 1608:1	Steel/钢件	z=9	L=5	Φ3.175 ^{-0.015} _{-0.035}
5:1 / 21:1 / 25:1 / 67:1 / 105:1 / 125:1 / 370:1 / 441:1 / 625:1		z=12	L=5	
4.2:1 / 17.6:1 / 311:1		z=15	L=5	Φ5.0 ^{-0.015} _{-0.035} Φ3.175
3.7:1 / 13.4:1 / 49:1		z=18	L=5	

Gearbox outline



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Motor outline



unit:mm



Φ42mm

Planetary gearbox/行星减速箱

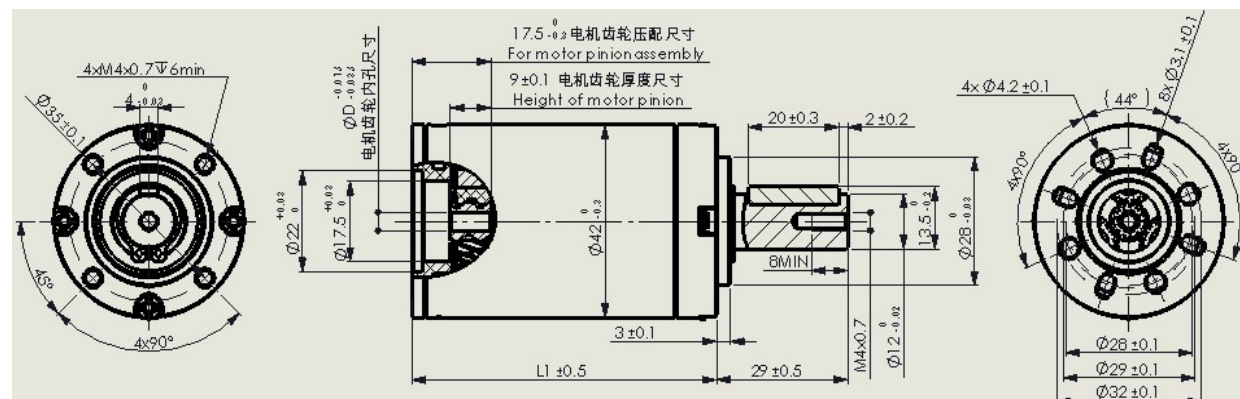
ST42PH Series/ST42PH系列

General & Basic information/通用基本信息		
NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ42mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Steel/钢件
4	Type of teeth/齿种类	Helical gears in 1st stage/首段斜齿轮
5	Teeth material/齿材料*	Plastic/塑胶 Steel/钢件
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	Optional 1 stage,2 stages,3 stages
10	Axial play/轴向串动量	≤0.3 mm
11	Radial play/径向串动量(15mm from flange/距法兰盘15mm)	≤0.05 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤80N
13	Max. force for press fits/输出轴最大允许安装力	≤200N
14	Max. radial force/输出轴最大径向负载(15mm from flange/距法兰盘15mm)	≤150N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH

In ST42PH series, plastic in 1st stage, steel in 2nd and 3rd stage.
* 在ST42PH系列里, 首段为塑料齿, 其他第2段和第3段分别为钢齿。

Technical Data/技术参数				
NO.	Description/描述	Value/值		
17	Number of gear stages/齿轮级数	1	2	3
18	Reduction ratio/减速比	3.789:1 4.313:1 5.077:1 6.3:1	The ratio can be one of combinations of 4 ratios	
19	Max. continuous input speed/最高允许连续输入转速	10000rpm	10000rpm	10000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	12000rpm	12000rpm	12000rpm
21	Max. continuous torque/最高允许连续扭矩	1,000mNm	3,000mNm	12,000mNm
22	Max. intermittent torque/最高允许瞬间扭矩	1,500mNm	4,500mNm	18,000mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same
24	Max. efficiency/最大效率	80%	70%	60%
25	Weight without motor/无电机时质量(g)			423
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	33.2	44.6	56
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。		

Reduction ratios/减速比	Motor pinion specifications/电机齿参数			
	Material 材料	Number of teeth 齿数	Length 长度	Hole diameter 孔径(D)
6.3:1 / 23.9:1 / 27.2:1 / 32.0:1 / 39.7:1 / 150.4:1 / 171.2:1/201.5:1/250.0:1	Steel/钢件	z=10	L=9	Φ3.175 ^{-0.015} _{-0.035}
5.1:1 / 19.2:1 / 21.9:1 / 25.8:1/97.7:1/111.2:1/130.1:1/162.4:1		z=13	L=9	Φ4.0 ^{-0.015} _{-0.035}
4.3:1 / 16.3:1 / 18.6:1 / 70.5:1 / 82.3:1/94.4:1/117.2:1		z=16	L=9	Φ5.0 ^{-0.015} _{-0.035}
3.8:1 / 14.4:1 / 54.4:1 / 61.9:1 / 72.9:1/90.4:1		z=19	L=9	



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Φ52mm

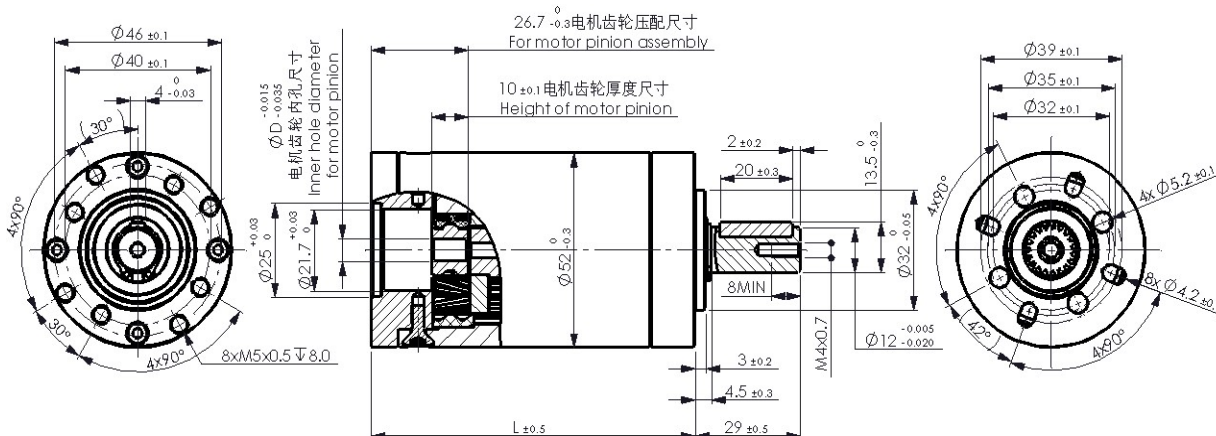
Planetary gearbox/行星减速箱

ST52PH Series/ST52PH系列

General & Basic information/通用基本信息		
NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ52mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Steel/钢件
4	Type of teeth/齿种类	Helical gears in 1st stage/首段斜齿轮
5	Teeth material/齿材料*	Plastic/塑胶 Steel/钢件
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	Optional 1 stage, 2 stages, 3 stages
10	Axial play/轴向串动量	≤0.3 mm
11	Radial play/径向串动量(15mm from flange/距法兰盘15mm)	≤0.05 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤100N
13	Max. force for press fits/输出轴最大允许安装力	≤300N
14	Max. radial force/输出轴最大径向负载(15mm from flange/距法兰盘15mm)	≤200N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH
In ST52PH series, plastic in 1st stage, steel in 2nd and 3rd stage.		
* 在ST52PH系列里, 首段为塑料齿, 其他第2段和第3段分别为钢齿。		

Technical Data/技术参数				
NO.	Description/描述	Value/值		
17	Number of gear stages/齿轮级数	1	2	3
18	Reduction ratio/减速比	3.789:1 4.313:1 5.077:1 6.3:1	The ratio can be one of combinations of 4 ratios	
19	Max. continuous input speed/最高允许连续输入转速	10000rpm	10000rpm	10000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	12000rpm	12000rpm	12000rpm
21	Max. continuous torque/最高允许连续扭矩	2,000mNm	5,000mNm	20,000mNm
22	Max. intermittent torque/最高允许瞬间扭矩	3,000mNm	7,500mNm	30,000mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same
24	Max. efficiency/最大效率	80%	70%	60%
25	Weight without motor/无电机时质量(g)			780
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	49.2	64.6	77
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。		

Reduction ratios/减速比	Motor pinion specifications/电机齿参数			
	Material 材料	Number of teeth 齿数	Length 长度	Hole diameter 孔径(D)
6.3:1 / 23.9:1 / 27.2:1 / 32.0:1 / 39.7:1 / 150.4:1 / 171.2:1 / 201.5:1 / 250.0:1	Steel/钢件	z=10	L=10	Φ4.0 ^{-0.015} / _{-0.035}
5.1:1 / 19.2:1 / 21.9:1 / 25.8:1 / 97.7:1 / 111.2:1 / 130.1:1 / 162.4:1		z=13	L=10	Φ6.0 ^{-0.015} / _{-0.035}
4.3:1 / 16.3:1 / 18.6:1 / 70.5:1 / 82.3:1 / 94.4:1 / 117.2:1		z=16	L=10	
3.8:1 / 14.4:1 / 54.4:1 / 61.9:1 / 72.9:1 / 90.4:1		z=19	L=10	



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东莞市赛仑特实业有限公司
Dongguan Silent Industry Co., Ltd



Φ62mm

Planetary gearbox/行星减速箱

ST62PH Series/ST62PH系列

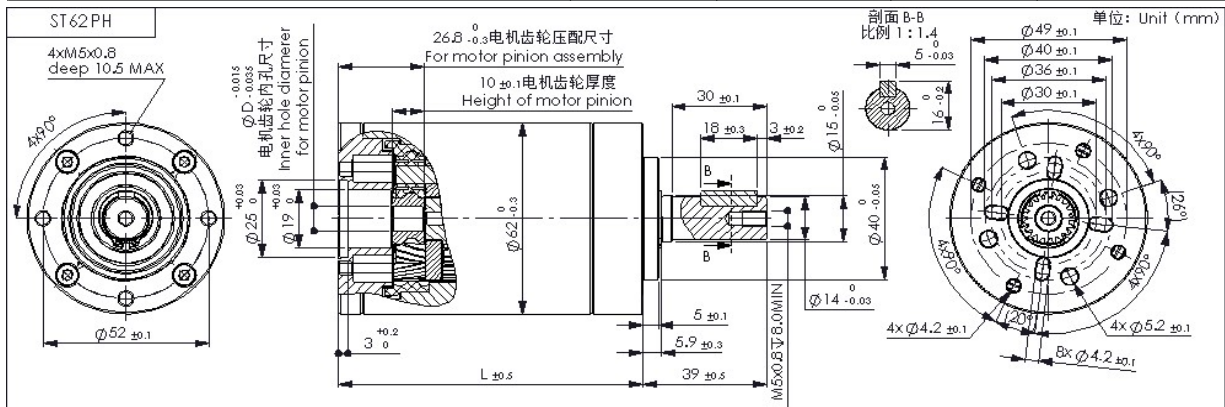
General & Basic information/通用基本信息		
NO.	Description/描述	Value/值
1	Outer diameter/外径	Φ62mm
2	Type of Gearbox/齿轮箱种类	Planetary/行星式
3	Housing material/外壳材质	Metal/金属
4	Type of teeth/齿种类	Helical gears in 1st stage/首段斜齿轮
5	Teeth material/齿材料*	Plastic/塑胶 Steel/钢件
6	Output shaft material/输出轴材料	Stainless Steel/不锈钢
7	Bearing at output/输出端轴承	Ball Bearing/滚珠轴承
8	No-load backlash/空载时齿轮回差	≤2°
9	Number of stages availability/可选齿轮级数	Optional 1 stage,2 stages,3 stages
10	Axial play/轴向串动量	≤0.3 mm
11	Radial play/径向串动量(20mm from flange/距法兰盘20mm)	≤0.05 mm
12	Dynamic Max. axial load/轴向动态最大负载	≤200N
13	Max. force for press fits/输出轴最大允许安装力	≤600N
14	Max. radial force/输出轴最大径向负载(20mm from flange/距法兰盘20mm)	≤300N
15	Operating temperature range/工作温度范围	-40°C to +120°C
16	Operating relative humidity/工作湿度范围	20%RH to 90%RH

In ST62PH series, plastic in 1st stage, steel in 2nd and 3rd stage.

* 在ST62PH系列里, 首段为塑料齿, 其他第2段和第3段分别为钢齿。

Technical Data/技术参数				
NO.	Description/描述	Value/值		
17	Number of gear stages/齿轮级数	1	2	3
18	Reduction ratio/减速比	3.789:1 4.313:1 5.077:1 6.3:1	The ratio can be one of combinations of 4 ratios	
19	Max. continuous input speed/最高允许连续输入转速	10000rpm	10000rpm	10000rpm
20	Max. intermittent input speed/最高允许瞬间输入转速	12000rpm	12000rpm	12000rpm
21	Max. continuous torque/最高允许连续扭矩	3,000mNm	8,000mNm	40,000mNm
22	Max. intermittent torque/最高允许瞬间扭矩	4,500mNm	12,000mNm	60,000mNm
23	Direction(from the driver to output) /旋向(从驱动器到输出)	Same	Same	Same
24	Max. efficiency/最大效率	80%	70%	60%
25	Weight without motor/无电机时质量(g)			1230
26	L2[mm]=Length without motor/无电机时单体齿轮箱的长度	53.5	68.9	82.3
27	L1[mm]=Length with motor/齿轮电机的长度	The total length of gear motor depends on the motor specified. 齿轮电机的总长根据具体选定电机而确定。		

Reduction ratios/减速比	Motor pinion specifications/电机齿参数			
	Material 材料	Number of teeth 齿数	Length 长度	Hole diameter 孔径(D)
6.3:1 / 23.9:1 / 27.2:1 / 32.0:1 / 39.7:1 / 150.4:1 / 171.2:1 / 201.5:1 / 250.0:1	Steel/钢件	z=10	L=10	Φ5.0 ^{+0.015} _{-0.035}
5.1:1 / 19.2:1 / 21.9:1 / 25.8:1 / 97.7:1 / 111.2:1 / 130.1:1 / 162.4:1		z=13	L=10	Φ7.0 ^{+0.015} _{-0.035}
4.3:1 / 16.3:1 / 18.6:1 / 70.5:1 / 82.3:1 / 94.4:1 / 117.2:1		z=16	L=10	Φ8.0 ^{+0.015} _{-0.035}
3.8:1 / 14.4:1 / 54.4:1 / 61.9:1 / 72.9:1 / 90.4:1		z=19	L=10	



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Part II DC planetary gearmotor



ST10P Series/ST10P系列

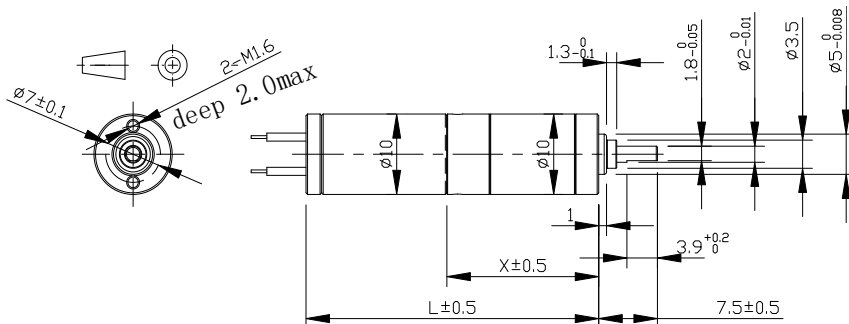
Specifications of DC motor/单体电机参数表			
1	Nominal voltage/工作电压	3.0V DC	4.5V DC
2	No load current /空载电流	19 mA	20 mA
3	No load speed/空载转速	14200 RPM	16800 RPM
4	Rated current/额定电流	84 mA	120 mA
5	Rated speed/额定转速	11400 RPM	12200 RPM
6	Rated torque/额定扭矩	0.128 mNm	0.20 mNm
7	Stall current/堵转电流	350 mA	385 mA
8	Stall torque/堵转扭矩	0.64 mNm	0.73 mNm
9	Max. efficiency/最大效率	60.0%	61.0%
10	Ambient temperature/温度	-10°C~+60°C	
11	Output bearing/输出轴端轴承	Sleeve bearing/含油轴承	
12	Type of brush/刷片种类	precious metal brush /精密金属刷	

Specifications of gearmotor under 3.0VDC/齿轮电机在3.0VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	4:1						
2	16:1	90 mA	712.5 RPM	1.3 mNm	120 mA	1.95 mNm	14.3 g
3	64:1	90 mA	178 RPM	4.2mNm	120 mA	6.3 mNm	16.3 g
4	256:1	90 mA	44.5 RPM	13.4 mNm	120 mA	20.1mNm	18.3 g
5	1024:1	90 mA	11 RPM	43 mNm	120 mA	64.5mNm	20.3 g

Specifications of gearmotor under 4.5VDC/齿轮电机在4.5VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	4:1						
2	16:1	120 mA	762.5 RPM	2.0 mNm	170 mA	3.0 mNm	14.3 g
3	64:1	120 mA	190.6 RPM	6.55 mNm	170 mA	9.825 mNm	16.3 g
4	256:1	120 mA	47.5 RPM	20.97 mNm	170mA	31.45mNm	18.3 g
5	1024:1	120 mA	12 RPM	67 mNm	170 mA	100.5mNm	20.3 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	11.8	31.8
2	15.6	35.6
3	19.4	39.4
4	23.2	43.2
5	27.0	47.0



东莞市赛仑特实业有限公司
Dongguan Silent Industry Co., Ltd

BLDC & Coreless planetary gearmotor/直流无刷空心杯行星齿轮电机



Φ10mm

ST10P Series/ST10P系列

Specifications of DC motor/单体电机参数表

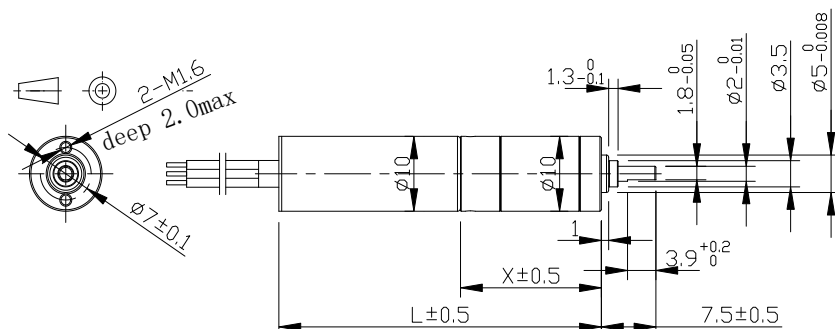
1	Nominal voltage/工作电压	6.0V DC	12V DC
2	No load current /空载电流	300 mA	160 mA
3	No load speed/空载转速	46000 RPM	52500 RPM
4	Rated current/额定电流	1730 mA	970 mA
5	Rated speed/额定转速	39200 RPM	45130 RPM
6	Rated torque/额定扭矩	1.77 mNm	1.92 mNm
7	Stall current/堵转电流	9974 mA	5930 mA
8	Stall torque/堵转扭矩	11.97 mNm	13.68mNm
9	Max. efficiency/最大效率	68.3%	70.0%
10	Ambient temperature/温度	-10°C~+60°C	
11	Output bearing/输出轴端轴承	Ball bearing or Sleeve bearing/滚珠轴承或者含油轴承	
12	Type of controller/驱动种类	The controller for BLDC motor is optional/无刷电机的驱动器为选配	

Specifications of gearmotor under 6.0VDC/齿轮电机在6.0VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	4:1						
2	16:1	1730 mA	2450 RPM	18 mNm	2450 mA	27 mNm	14.3 g
3	64:1	1730 mA	613 RPM	58 mNm	2450 mA	88 mNm	16.3 g
4	256:1	1730 mA	153 RPM	186 mNm	2450 mA	280 mNm	18.3 g
5	1024:1	1100 mA	41RPM	342 mNm	1400 mA	450 mNm	20.3 g

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	4:1						
2	16:1	970 mA	2820 RPM	19.7 mNm	1400 mA	29.6 mNm	14.3 g
3	64:1	970 mA	705 RPM	63 mNm	1400 mA	94.5 mNm	16.3 g
4	256:1	970mA	176RPM	200 mNm	1400 mA	350 mNm	18.3 g
5	1024:1	540 mA	48 RPM	300 mNm	725mA	450 mNm	20.3 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	11.8	36.8
2	15.6	40.6
3	19.4	44.4
4	23.2	48.2
5	27.0	52.0

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DC brush & coreless planetary gearmotor/直流有刷空心杯行星齿轮电机



Φ12mm

ST12P Series/ST12P系列

Specifications of DC motor/单体电机参数表

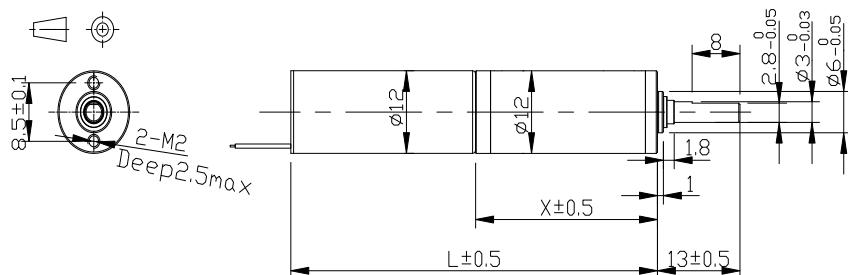
1	Nominal voltage/工作电压	6V DC	7.4V DC
2	No load current /空载电流	35 mA	40 mA
3	No load speed/空载转速	23000 RPM	27000 RPM
4	Rated current/额定电流	250mA	250 mA
5	Rated speed/额定转速	20000 RPM	23000 RPM
6	Rated torque/额定扭矩	0.5 mNm	0.5 mNm
7	Stall current/堵转电流	1750mA	1420 mA
8	Stall torque/堵转扭矩	3.7mNm	3.4 mNm
9	Max. efficiency/最大效率	72.0%	70.0%
10	Ambient temperature/温度	-10°C~+60°C	
11	Output bearing/输出轴端轴承	Sleeve bearing/含油轴承	
12	Type of brush/刷片种类	precious metal brush 精密金属刷	

Specifications of gearmotor under 6.0VDC/齿轮电机在6.0VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	4:1	250 mA	5000 RPM	1.6mNm	370 mA	2.4 mNm	12.3 g
2	16:1	250 mA	1250 RPM	5.12 mNm	370 mA	7.68 mNm	16.3 g
3	64:1	250 mA	312.5 RPM	16.4 mNm	370 mA	24.6 mNm	20.3 g
4	256:1	250 mA	78 RPM	52.5 mNm	370 mA	78.75mNm	24.4 g
5	1024:1	250 mA	19.5 RPM	167.7 mNm	370 mA	251.5mNm	28.4 g
5							

Specifications of gearmotor under 7.4VDC/齿轮电机在7.4VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	4:1	250 mA	5750 RPM	1.6mNm	330 mA	2.4 mNm	12.3 g
2	16:1	250 mA	1437.5 RPM	5.12 mNm	330 mA	7.68 mNm	16.3 g
3	64:1	250 mA	359.5 RPM	16.4 mNm	330 mA	24.6 mNm	20.3 g
4	256:1	250 mA	90 RPM	52.5 mNm	330 mA	78.75mNm	24.4 g
5	1024:1	250 mA	22.5 RPM	167.7 mNm	330 mA	251.5mNm	28.4 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	14.4	29.4
2	18.4	33.4
3	22.4	37.4
4	26.4	41.4
5	30.4	45.4

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ST12P Series/ST12P系列

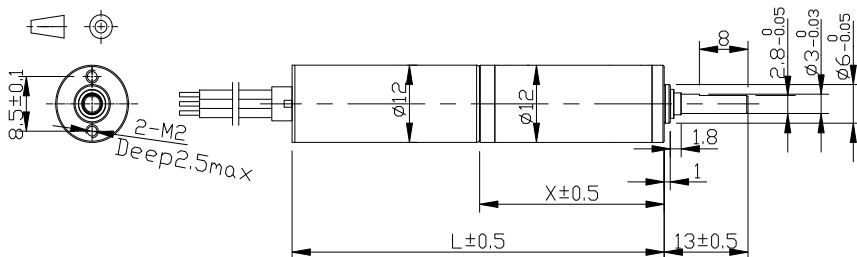
Specifications of DC motor/单体电机参数表			
1	Nominal voltage/工作电压	6.0V DC	12V DC
2	No load current /空载电流	30 mA	5 mA
3	No load speed/空载转速	10000 RPM	23000 RPM
4	Rated current/额定电流	170 mA	450 mA
5	Rated speed/额定转速	8500 RPM	15300 RPM
6	Rated torque/额定扭矩	0.78 mNm	2 mNm
7	Stall current/堵转电流	970 mA	1335 mA
8	Stall torque/堵转扭矩	5.2mNm	5.97 mNm
9	Max. efficiency/最大效率	66.0%	58.0%
10	Ambient temperature/温度	-10°C~+60°C	
11	Output bearing/输出轴端轴承	Ball bearing/滚珠轴承	
12	Type of controller/驱动种类	The controller for BLDC motor is optional/无刷电机的驱动器为选配	

Specifications of gearmotor under 6.0VDC/齿轮电机在6.0VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	4:1	170 mA	2125 RPM	2.5 mNm	250 mA	3.75mNm	21.8 g
2	16:1	170mA	531 RPM	8 mNm	250 mA	12 mNm	25.82 g
3	64:1	170 mA	132.5 RPM	25.5 mNm	250 mA	38.25 mNm	29.84 g
4	256:1	170 mA	33 RPM	82 mNm	250 mA	123 mNm	33.86 g
5	1024:1	170 mA	8.5 RPM	262 mNm	250 mA	393 mNm	37.88 g

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	4:1	450 mA	3825 RPM	6.4 mNm	680 mA	9.6 mNm	21.8 g
2	16:1	450 mA	956 RPM	20 mNm	680 mA	35 mNm	25.82 g
3	64:1	450 mA	239 RPM	65.5 mNm	680 mA	98.25 mNm	29.84 g
4	256:1	450 mA	60 RPM	210 mNm	680 mA	315 mNm	33.86 g
5	1024:1	270 mA	18 RPM	400 mNm	410 mA	600 mNm	37.88 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	14.4	44.4
2	18.4	48.4
3	22.4	52.4
4	26.4	56.4
5	30.4	60.4



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Φ16mm

DC brush & coreless planetary gearmotor/直流有刷空心杯行星齿轮电机

ST16P Series/ST16P系列

Specifications of DC motor/单体电机参数表

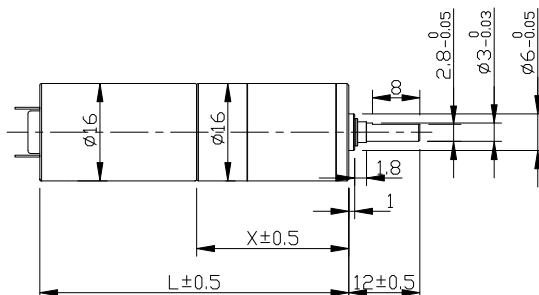
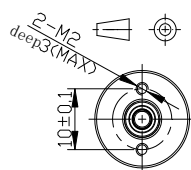
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	25 mA	15 mA
3	No load speed/空载转速	7700 RPM	12000 RPM
4	Rated current/额定电流	150 mA	170 mA
5	Rated speed/额定转速	5100 RPM	8700 RPM
6	Rated torque/额定扭矩	1.5 mNm	2.5 mNm
7	Stall current/堵转电流	395 mA	573 mA
8	Stall torque/堵转扭矩	4.44 mNm	9 mNm
9	Max. efficiency/最大效率	75.0%	75.0%
10	Ambient temperature/温度	-20°C~+55°C	
11	Output bearing/输出轴端轴承	Sleeve bearing/含油轴承	
12	Type of brush/刷片种类	Precious metal brush /精密金属刷	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.8:1	150 mA	1342 RPM	4.6 mNm	220 mA	6.9 mNm	33 g
1	4.6:1	150 mA	1108 RPM	5.5 mNm	220 mA	8.3 mNm	33 g
1	6:1	150 mA	850 RPM	7.2 mNm	220 mA	10.8 mNm	33 g
2	15:1	150 mA	340 RPM	14.5 mNm	220 mA	21.8 mNm	38 g
2	23:1	150 mA	221 RPM	22 mNm	220 mA	33 mNm	38 g
2	36:1	150 mA	142 RPM	34.5 mNm	220 mA	51.8 mNm	38 g
3	57:1	150 mA	90 RPM	43.7 mNm	220 mA	65.5 mNm	43 g
3	100:1	150 mA	51 RPM	76.8 mNm	220 mA	115 mNm	43 g
3	167:1	150 mA	30.5 RPM	128 mNm	220 mA	192 mNm	43 g
4	221:1	150 mA	23 RPM	135.8 mNm	220 mA	204 mNm	48 g
4	320:1	150 mA	16 RPM	197 mNm	220 mA	295.5 mNm	48 g
4	384:1	150 mA	13.3 RPM	236 mNm	220 mA	354 mNm	48 g
5	536:1	150 mA	9.5 RPM	264 mNm	220 mA	396 mNm	53 g
5	854:1	150 mA	6 RPM	420 mNm	220 mA	630 mNm	53 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.8:1	170 mA	2289 RPM	8 mNm	220mA	12 mNm	33 g
1	4.6:1	170 mA	1891 RPM	9.7mNm	220mA	14.5 mNm	33 g
1	6:1	170 mA	1450 RPM	12.7 mNm	220mA	19 mNm	33 g
2	15:1	170 mA	580 RPM	27 mNm	220mA	40.5 mNm	38 g
2	23:1	170 mA	378 RPM	41.5 mNm	220mA	62.2 mNm	38 g
2	36:1	170 mA	241.5 RPM	65 mNm	220mA	97.5 mNm	38 g
3	57:1	170 mA	152.5 RPM	87.5 mNm	220mA	131.2 mNm	43 g
3	100:1	170 mA	87RPM	153.5 mNm	220mA	230 mNm	43 g
3	167:1	170 mA	52 RPM	256 mNm	220mA	384 mNm	43 g
4	221:1	170 mA	39.3 RPM	288.5 mNm	220mA	432.7 mNm	48 g
4	320:1	170 mA	27 RPM	417.5 mNm	220mA	626 mNm	48 g
4	384:1	170 mA	22.5 RPM	501 mNm	220mA	751.5 mNm	48 g
5	536:1	170 mA	16.2 RPM	594.5 mNm	220mA	891.7 mNm	53 g
5	854:1	170 mA	10RPM	947.3 mNm	220mA	1421 mNm	53 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	14	34.5
2	17.9	38.4
3	21.8	42.3
4	25.7	46.2
5	29.6	50.1

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BLDC & Coreless planetary gearmotor/直流无刷空心杯行星齿轮电机



Φ16mm

ST16P Series/ST16P系列

Specifications of DC motor/单体电机参数表

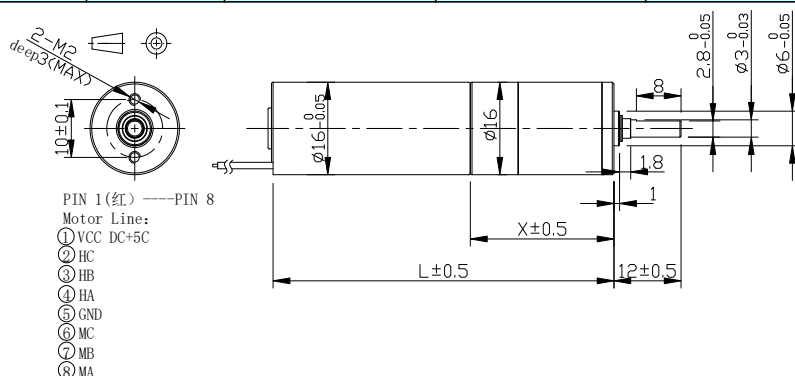
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	180 mA	70 mA
3	No load speed/空载转速	14000 RPM	14000 RPM
4	Rated current/额定电流	1215 mA	600 mA
5	Rated speed/额定转速	9500 RPM	9500 RPM
6	Rated torque/额定扭矩	8 mNm	8 mNm
7	Stall current/堵转电流	3353 mA	1656 mA
8	Stall torque/堵转扭矩	24.7 mNm	24.7 mNm
9	Max. efficiency/最大效率	65.0%	65.0%
10	Ambient temperature/温度	-20°C~+55°C	
11	Output bearing/输出轴端轴承	Ball bearing /滚珠轴承	
12	Type of controller/驱动种类	The controller for BLDC motor is optional/无刷电机的驱动器为选配	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.8:1	1215 mA	2500 RPM	24 mNm	1710mA	36 mNm	54 g
1	4.6:1	1215 mA	2065 RPM	30 mNm	1710mA	45mNm	54 g
1	6:1	1215 mA	1584 RPM	38 mNm	1710mA	57mNm	54 g
2	15:1	1215 mA	633 RPM	77 mNm	1710mA	116mNm	59 g
2	23:1	1215 mA	413 RPM	118mNm	1710mA	177 mNm	59 g
2	36:1	1215 mA	264 RPM	184 mNm	1710mA	276mNm	59 g
3	57:1	1215 mA	167 RPM	234 mNm	1710mA	351mNm	64 g
3	100:1	1215 mA	95 RPM	410 mNm	1710mA	615 mNm	64 g
3	167:1	1215 mA	57 RPM	684 mNm	1710mA	1026 mNm	64 g
4	221:1	1215 mA	43 RPM	724 mNm	1710mA	1086mNm	69 g
4	320:1	1215 mA	29 RPM	1048 mNm	1710mA	1572 mNm	69 g
4	384:1	1050 mA	26 RPM	1048 mNm	1480 mA	1572 mNm	69 g
5	536:1	1050 mA	19 RPM	1200 mNm	1480 mA	1800mNm	74 g
5	854:1	750 mA	13.5 RPM	1200 mNm	1005 mA	1800 mNm	74 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.8:1	600 mA	2500 RPM	24 mNm	840 mA	36 mNm	54 g
1	4.6:1	600 mA	2065 RPM	30 mNm	840 mA	45mNm	54 g
1	6:1	600 mA	1584 RPM	38 mNm	840 mA	57mNm	54 g
2	15:1	600 mA	633 RPM	77 mNm	840 mA	116mNm	59 g
2	23:1	600 mA	413 RPM	118mNm	840 mA	177 mNm	59 g
2	36:1	600 mA	264 RPM	184 mNm	840 mA	276mNm	59 g
3	57:1	600 mA	167 RPM	234 mNm	840 mA	351mNm	64 g
3	100:1	600 mA	95 RPM	410 mNm	840 mA	615 mNm	64 g
3	167:1	600 mA	57 RPM	684 mNm	840 mA	1026 mNm	64 g
4	221:1	600 mA	43 RPM	724 mNm	840 mA	1086mNm	69 g
4	320:1	600 mA	29 RPM	1048 mNm	840 mA	1572 mNm	69 g
4	384:1	500 mA	26 RPM	1048 mNm	720 mA	1572 mNm	69 g
5	536:1	500 mA	19 RPM	1200 mNm	720 mA	1800mNm	74 g
5	854:1	375 mA	13.5 RPM	1200 mNm	482 mA	1800 mNm	74 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	14	50
2	17.9	53.9
3	21.8	57.8
4	25.7	61.7
5	29.6	65.5

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Φ22mm

DC brush & coreless planetary gearmotor/直流有刷空心杯行星齿轮电机

Helical gears in 1st stage, low backlash, ceramic pins are optional

首段斜齿轮, 低回间隙, 陶瓷版销, 均可选择

Specifications of DC motor/单体电机参数表

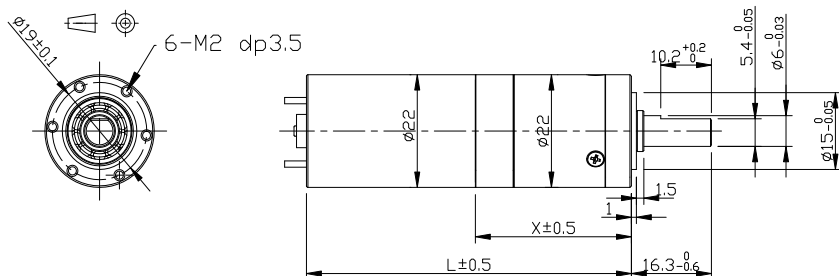
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	25 mA	25 mA
3	No load speed/空载转速	7500 RPM	6500 RPM
4	Rated current/额定电流	400 mA	450 mA
5	Rated speed/额定转速	6150 RPM	4800 RPM
6	Rated torque/额定扭矩	4.5 mNm	10 mNm
7	Stall current/堵转电流	2108 mA	1650 mA
8	Stall torque/堵转扭矩	25 mNm	38.2 mNm
9	Max. efficiency/最大效率	75.0%	75.0%
10	Ambient temperature/温度	-20°C~+55°C	
11	Output bearing/输出轴端轴承	Sleeve bearing/含油轴承	
12	Type of brush/刷片种类	Precious metal brush /精密金属刷	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	400 mA	1662 RPM	14.5 mNm	590 mA	21.7 mNm	103.5 g
1	4.3:1	400 mA	1430 RPM	17.6 mNm	590 mA	26.4 mNm	103.5 g
1	5.2:1	400 mA	1182 RPM	20 mNm	590 mA	30 mNm	103.5 g
2	16:1	400 mA	384 RPM	52 mNm	590 mA	78 mNm	115 g
2	19:1	400 mA	324 RPM	61.7 mNm	590 mA	92.5 mNm	115 g
2	27:1	400 mA	228 RPM	87.8 mNm	590 mA	131.7 mNm	115 g
3	59:1	400 mA	104 RPM	163 mNm	590 mA	244.5 mNm	125.5 g
3	79:1	400 mA	77.8 RPM	218 mNm	590 mA	327mNm	125.5 g
3	99:1	400 mA	62 RPM	273.5 mNm	590 mA	410 mNm	125.5 g
3	139:1	400 mA	44 RPM	384 mNm	590 mA	576 mNm	125.5 g
4	264:1	400 mA	23 RPM	620 mNm	590 mA	930 mNm	142.5 g
4	337:1	400 mA	18 RPM	791 mNm	590 mA	1200 mNm	142.5 g
4	516:1	400 mA	12 RPM	1200 mNm	590 mA	1800 mNm	142.5 g
4	721:1	400 mA	8.5RPM	1700 mNm	480 mA	2000 mNm	142.5 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	450 mA	1297 RPM	31.5 mNm	660 mA	47 mNm	103.5 g
1	4.3:1	450 mA	1116 RPM	36.5 mNm	660 mA	55 mNm	103.5 g
1	5.2:1	450 mA	923 RPM	44.2 mNm	660 mA	66.5 mNm	103.5 g
2	16:1	450 mA	300 RPM	115 mNm	660 mA	172.5 mNm	115 g
2	19:1	450 mA	253 RPM	137 mNm	660 mA	205.5 mNm	115 g
2	27:1	450 mA	178 RPM	195 mNm	660 mA	292.5 mNm	115 g
3	59:1	450 mA	81 RPM	362 mNm	660 mA	543 mNm	125.5 g
3	79:1	450 mA	60.5 RPM	485 mNm	660 mA	727.5 mNm	125.5 g
3	99:1	450 mA	48 RPM	608 mNm	660 mA	912 mNm	125.5 g
3	139:1	450 mA	34.5 RPM	854 mNm	660 mA	1281 mNm	125.5 g
4	264:1	450 mA	18 RPM	1378 mNm	660 mA	2067 mNm	142.5 g
4	337:1	450 mA	14 RPM	1750 mNm	660 mA	2625 mNm	142.5 g
4	516:1	450 mA	9 RPM	2000 mNm	500 mA	3000 mNm	142.5 g
4	721:1	255 mA	7.5 RPM	2000 mNm	370 mA	3000 mNm	142.5 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	19.4	52.9
2	25.4	58.9
3	31.4	64.9
4	37.4	70.9

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BLDC & Coreless planetary gearmotor/直流无刷空心杯行星齿轮电机



Φ22mm

ST22P Series/ST22P系列/低噪音(斜齿轮结构)/Low noise(Helical gear)

Specifications of DC motor/单体电机参数表

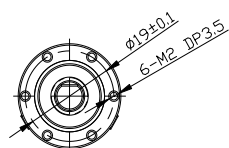
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	50 mA	100 mA
3	No load speed/空载转速	8100 RPM	21000 RPM
4	Rated current/额定电流	220 mA	640 mA
5	Rated speed/额定转速	6644 RPM	18065 RPM
6	Rated torque/额定扭矩	2.32 mNm	5.7 mNm
7	Stall current/堵转电流	1010 mA	3930 mA
8	Stall torque/堵转扭矩	12.9 mNm	40.8 mNm
9	Max. efficiency/最大效率	60.5%	70.7%
10	Ambient temperature/温度	-20°C~+55°C	
11	Output bearing/输出轴端轴承	Ball bearing /滚珠轴承	
12	Type of controller/驱动种类	The controller for BLDC motor is optional/无刷电机的驱动器为选配	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	220 mA	1796 RPM	7.3 mNm	310 mA	11 mNm	90.5 g
1	4.3:1	220 mA	1546 RPM	8.5 mNm	310 mA	12.8 mNm	90.5 g
1	5.2:1	220 mA	1278 RPM	10 mNm	310 mA	15 mNm	90.5 g
2	16:1	220 mA	415 RPM	27 mNm	310 mA	40.5 mNm	102 g
2	19:1	220 mA	350 RPM	32 mNm	310 mA	48 mNm	102 g
2	27:1	220 mA	246 RPM	45 mNm	310 mA	67.5 mNm	102 g
3	59:1	220 mA	113 RPM	84 mNm	310 mA	126 mNm	112.5 g
3	79:1	220 mA	84 RPM	113 mNm	310 mA	170 mNm	112.5 g
3	99:1	220 mA	67 RPM	141 mNm	310 mA	211.5 mNm	112.5 g
3	139:1	220 mA	48 RPM	198 mNm	310 mA	297 mNm	112.5 g
4	264:1	220 mA	25 RPM	320 mNm	310 mA	480 mNm	129.5 g
4	337:1	220 mA	20 RPM	408 mNm	310 mA	612 mNm	129.5 g
4	516:1	220 mA	13 RPM	625 mNm	310 mA	937.5 mNm	129.5 g
4	721:1	220 mA	9 RPM	875 mNm	310 mA	1313 mNm	129.5 g

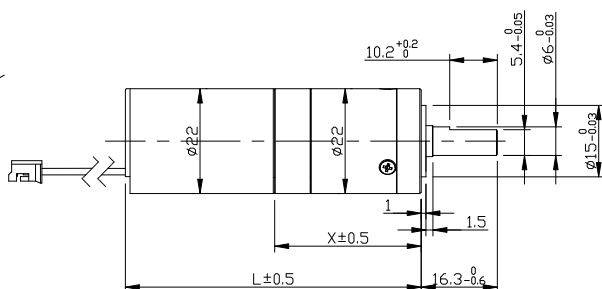
Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	640 mA	4882 RPM	18 mNm	900 mA	27 mNm	103.5 g
1	4.3:1	640 mA	4201 RPM	20 mNm	900 mA	30 mNm	103.5 g
1	5.2:1	640 mA	3474 RPM	25 mNm	900 mA	37.5mNm	103.5 g
2	16:1	640 mA	1129 RPM	66 mNm	900 mA	98 mNm	115 g
2	19:1	640 mA	950 RPM	78 mNm	900 mA	116 mNm	115 g
2	27:1	640 mA	669 RPM	111 mNm	900 mA	165 mNm	115 g
3	59:1	640 mA	306RPM	206.5 mNm	900 mA	306 mNm	125.5 g
3	79:1	640 mA	228 RPM	276.5 mNm	900 mA	410 mNm	125.5 g
3	99:1	640 mA	182 RPM	346.5 mNm	900 mA	513 mNm	125.5 g
3	139:1	640 mA	130RPM	486.5 mNm	900 mA	720 mNm	125.5 g
4	264:1	640 mA	68 RPM	785.5 mNm	900 mA	1164 mNm	142.5 g
4	337:1	640 mA	53 RPM	1000 mNm	900 mA	1485 mNm	142.5 g
4	516:1	640 mA	35 RPM	1535 mNm	900 mA	2275mNm	142.5 g
4	721:1	600 mA	25RPM	2000 mNm	830mA	2900mNm	142.5 g



Connection: JST PH2.0-8Y

- 1-VC 5-GND
- 2-HA 6-MA
- 3-HB 7-MB
- 4-HC 8-MC



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	19.4	51.4
2	25.4	57.4
3	31.4	63.4
4	37.4	69.4

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Φ26mm

DC brush & coreless planetary gearmotor/直流有刷空心杯行星齿轮电机

Helical gears in 1st stage, low backlash, ceramic pins are optional

首段斜齿轮, 低回转变隙, 陶瓷版销, 均可选择

Specifications of DC motor/单体电机参数表

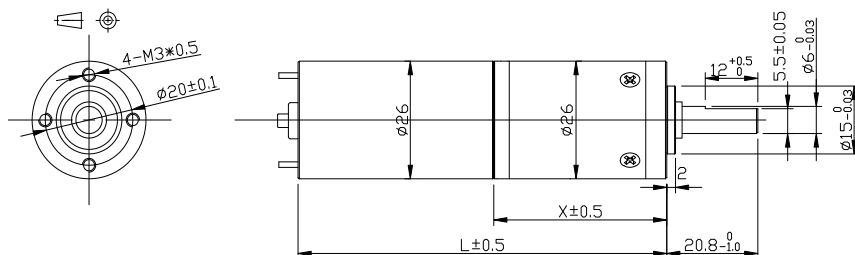
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	200 mA	87 mA
3	No load speed/空载转速	10200 RPM	8300RPM
4	Rated current/额定电流	2136 mA	834 mA
5	Rated speed/额定转速	9003 RPM	7412 RPM
6	Rated torque/额定扭矩	24.2 mNm	22.78mNm
7	Stall current/堵转电流	21429 mA	7792 mA
8	Stall torque/堵转扭矩	243.4 mNm	213 mNm
9	Max. efficiency/最大效率	81.0%	80.0%
10	Ambient temperature/温度	-20°C~+65°C	
11	Output bearing/输出轴端轴承	Sleeve bearing/含油轴承	
12	Type of brush/刷片种类	Carbon brush/碳刷	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	2140 mA	2433 RPM	76 mNm	3310 mA	114 mNm	160 g
1	4.3:1	2140 mA	2094 RPM	88.5 mNm	3310 mA	132.5 mNm	160 g
1	5.2:1	2140 mA	1731 RPM	107 mNm	3310 mA	151.5 mNm	160g
2	16:1	2140 mA	563 RPM	280 mNm	3310 mA	420 mNm	172 g
2	19:1	2140 mA	474 RPM	332 mNm	3310 mA	498 mNm	172 g
2	27:1	2140 mA	333.5RPM	472 mNm	3310 mA	708 mNm	172 g
3	59:1	2140 mA	152.5RPM	877 mNm	3310 mA	1315.5 mNm	186 g
3	79:1	2140 mA	114 RPM	1174 mNm	3310 mA	1761 mNm	186 g
3	99:1	2140 mA	91 RPM	1471 mNm	3310 mA	2206.5 mNm	186 g
3	139:1	2140 mA	64.5 RPM	2066 mNm	3310 mA	3099 mNm	186 g
4	264:1	1620 mA	35.5 RPM	2500 mNm	2500 mA	3750 mNm	200 g
4	337:1	1400 mA	28 RPM	2500 mNm	2020 mA	3750 mNm	200 g
4	516:1	970 mA	18.5 RPM	2500 mNm	1300 mA	3750 mNm	200 g
4	721:1	750 mA	13.5 RPM	2500 mNm	1000 mA	3750 mNm	200 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	920 mA	2003 RPM	71.6mNm	1324 mA	107.5mNm	160 g
1	4.3:1	920 mA	1723 RPM	83.5 mNm	1324 mA	125 mNm	160 g
1	5.2:1	920 mA	1425 RPM	100.5 mNm	1324 mA	150.5 mNm	160g
2	16:1	920 mA	463 RPM	263 mNm	1324 mA	394.5 mNm	172 g
2	19:1	920 mA	390 RPM	312 mNm	1324 mA	468.5 mNm	172 g
2	27:1	920 mA	274.5 RPM	444 mNm	1324 mA	666 mNm	172 g
3	59:1	920 mA	125.5 RPM	825 mNm	1324 mA	1237.5 mNm	186 g
3	79:1	920 mA	94 RPM	1105 mNm	1324 mA	1657.5 mNm	186 g
3	99:1	920 mA	75 RPM	1385 mNm	1324 mA	2077.5 mNm	186 g
3	139:1	920 mA	53 RPM	1945 mNm	1324 mA	2917.5 mNm	186 g
4	264:1	850 mA	28.5RPM	2500 mNm	11071mA	3750 mNm	200 g
4	337:1	605 mA	22.5 RPM	2500 mNm	858 mA	3750 mNm	200 g
4	516:1	425 mA	14.5 RPM	2500 mNm	590 mA	3750 mNm	200 g
4	721:1	335 mA	10.5 RPM	2500 mNm	500 mA	3750 mNm	200 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	21.5	66.2
2	30.5	75.2
3	39.5	84.2
4	48.5	93.2

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首段斜齿轮, 低回转变隙, 陶瓷版销, 均可选择

Specifications of DC motor/单体电机参数表

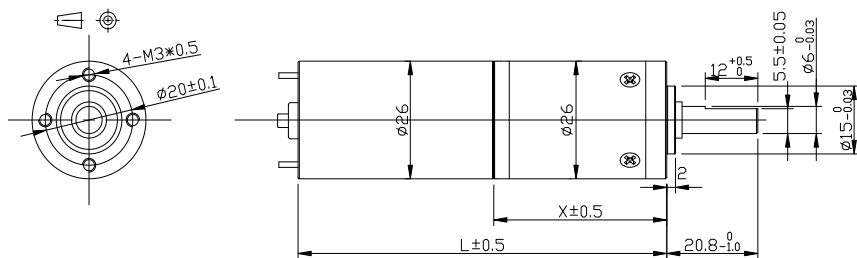
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	200 mA	87 mA
3	No load speed/空载转速	10200 RPM	8300RPM
4	Rated current/额定电流	2136 mA	834 mA
5	Rated speed/额定转速	9003 RPM	7412 RPM
6	Rated torque/额定扭矩	24.2 mNm	22.78mNm
7	Stall current/堵转电流	21429 mA	7792 mA
8	Stall torque/堵转扭矩	243.4 mNm	213 mNm
9	Max. efficiency/最大效率	81.0%	80.0%
10	Ambient temperature/温度	-20°C~+65°C	
11	Output bearing/输出轴端轴承	Sleeve bearing/含油轴承	
12	Type of brush/刷片种类	Carbon brush/碳刷	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	2140 mA	2433 RPM	76 mNm	3310 mA	114 mNm	160 g
1	4.3:1	2140 mA	2094 RPM	88.5 mNm	3310 mA	132.5 mNm	160 g
1	5.2:1	2140 mA	1731 RPM	107 mNm	3310 mA	151.5 mNm	160g
2	16:1	2140 mA	563 RPM	280 mNm	3310 mA	420 mNm	172 g
2	19:1	2140 mA	474 RPM	332 mNm	3310 mA	498 mNm	172 g
2	27:1	2140 mA	333.5RPM	472 mNm	3310 mA	708 mNm	172 g
3	59:1	2140 mA	152.5RPM	877 mNm	3310 mA	1315.5 mNm	186 g
3	79:1	2140 mA	114 RPM	1174 mNm	3310 mA	1761 mNm	186 g
3	99:1	2140 mA	91 RPM	1471 mNm	3310 mA	2206.5 mNm	186 g
3	139:1	2140 mA	64.5 RPM	2066 mNm	3310 mA	3099 mNm	186 g
4	264:1	1620 mA	35.5 RPM	2500 mNm	2500 mA	3750 mNm	200 g
4	337:1	1400 mA	28 RPM	2500 mNm	2020 mA	3750 mNm	200 g
4	516:1	970 mA	18.5 RPM	2500 mNm	1300 mA	3750 mNm	200 g
4	721:1	750 mA	13.5 RPM	2500 mNm	1000 mA	3750 mNm	200 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	920 mA	2003 RPM	71.6mNm	1324 mA	107.5mNm	160 g
1	4.3:1	920 mA	1723 RPM	83.5 mNm	1324 mA	125 mNm	160 g
1	5.2:1	920 mA	1425 RPM	100.5 mNm	1324 mA	150.5 mNm	160g
2	16:1	920 mA	463 RPM	263 mNm	1324 mA	394.5 mNm	172 g
2	19:1	920 mA	390 RPM	312 mNm	1324 mA	468.5 mNm	172 g
2	27:1	920 mA	274.5 RPM	444 mNm	1324 mA	666 mNm	172 g
3	59:1	920 mA	125.5 RPM	825 mNm	1324 mA	1237.5 mNm	186 g
3	79:1	920 mA	94 RPM	1105 mNm	1324 mA	1657.5 mNm	186 g
3	99:1	920 mA	75 RPM	1385 mNm	1324 mA	2077.5 mNm	186 g
3	139:1	920 mA	53 RPM	1945 mNm	1324 mA	2917.5 mNm	186 g
4	264:1	850 mA	28.5RPM	2500 mNm	11071mA	3750 mNm	200 g
4	337:1	605 mA	22.5 RPM	2500 mNm	858 mA	3750 mNm	200 g
4	516:1	425 mA	14.5 RPM	2500 mNm	590 mA	3750 mNm	200 g
4	721:1	335 mA	10.5 RPM	2500 mNm	500 mA	3750 mNm	200 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	21.5	66.2
2	30.5	75.2
3	39.5	84.2
4	48.5	93.2

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Φ28mm

DC brush & coreless planetary gearmotor/直流有刷空心杯行星齿轮电机

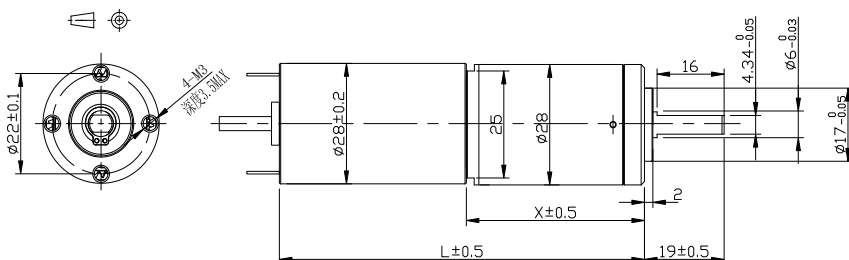
Helical gears in 1st stage, low backlash, ceramic pins are optional

首段斜齿轮, 低回间隙, 陶瓷版销, 均可选择

Specifications of DC motor/单体电机参数表			
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	300 mA	61 mA
3	No load speed/空载转速	7430 RPM	7700 RPM
4	Rated current/额定电流	3364 mA	1682 mA
5	Rated speed/额定转速	6597RPM	6831RPM
6	Rated torque/额定扭矩	51.38 mNm	49.88mNm
7	Stall current/堵转电流	27630 mA	14424 mA
8	Stall torque/堵转扭矩	458 mNm	442.1 mNm
9	Max. efficiency/最大效率	81.0%	84.0%
10	Ambient temperature/温度	-20°C~+65°C	
11	Output bearing/输出轴端轴承	Sleeve bearing含油轴承	
12	Type of brush/刷片种类	Carbon brush碳刷	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表							
Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	3400 mA	1783 RPM	161.8 mNm	5300 mA	242.7 mNm	254 g
1	4.3:1	3400 mA	1534 RPM	187.2 mNm	5300 mA	280.8 mNm	254 g
1	5.2:1	3400 mA	1731 RPM	226.3 mNm	5300 mA	339.4 mNm	254 g
2	16:1	3400 mA	412 RPM	594 mNm	5300 mA	891 mNm	277 g
2	19:1	3400 mA	347 RPM	705 mNm	5300 mA	1058 mNm	277 g
2	27:1	3400 mA	244 RPM	1000 mNm	5300 mA	1500 mNm	277 g
3	59:1	3400 mA	112 RPM	1862 mNm	5300 mA	2793 mNm	300 g
3	79:1	3400 mA	83 RPM	2493 mNm	5300 mA	3740 mNm	300 g
3	99:1	3400 mA	67 RPM	3124 mNm	5300 mA	4686 mNm	300 g
3	139:1	3400 mA	47 RPM	4386 mNm	5300 mA	6580 mNm	300 g
4	264:1	3150 mA	25 RPM	6000 mNm	4535 mA	9000 mNm	325 g
4	337:1	2520 mA	20 RPM	6000 mNm	3620 mA	9000 mNm	325 g
4	516:1	1750 mA	14 RPM	6000 mNm	2472 mA	9000 mNm	325 g
4	721:1	1350 mA	10 RPM	6000 mNm	2400 mA	9000 mNm	325 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表							
Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	1700 mA	1844 RPM	157.1 mNm	2580 mA	235.6 mNm	254 g
1	4.3:1	1700 mA	1594 RPM	181.7 mNm	2580 mA	272.6 mNm	254 g
1	5.2:1	1700 mA	1318 RPM	219.7 mNm	2580 mA	329.6 mNm	254 g
2	16:1	1700 mA	427 RPM	279 mNm	2580 mA	418.5 mNm	277 g
2	19:1	1700 mA	360 RPM	684.7 mNm	2580 mA	1027 mNm	277 g
2	27:1	1700 mA	253 RPM	973 mNm	2580 mA	1460 mNm	277 g
3	59:1	1700 mA	116 RPM	1807 mNm	2580 mA	2711 mNm	300 g
3	79:1	1700 mA	86 RPM	2420 mNm	2580 mA	3630 mNm	300 g
3	99:1	1700 mA	69 RPM	3033 mNm	2580 mA	4550 mNm	300 g
3	139:1	1700 mA	49 RPM	4258 mNm	2580 mA	6387 mNm	300 g
4	264:1	1530 mA	26 RPM	6000 mNm	2200 mA	9000 mNm	325 g
4	337:1	1220 mA	21 RPM	6000 mNm	1750 mA	9000 mNm	325 g
4	516:1	820 mA	14RPM	6000 mNm	1200 mA	9000 mNm	325 g
4	721:1	610 mA	10 RPM	6000 mNm	900 mA	9000 mNm	325 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	28.7	92.7
2	35.7	99.7
3	42.7	106.7
4	49.7	113.7

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Φ28mm

DC brush & coreless planetary gearmotor/直流无刷空心杯行星齿轮电机

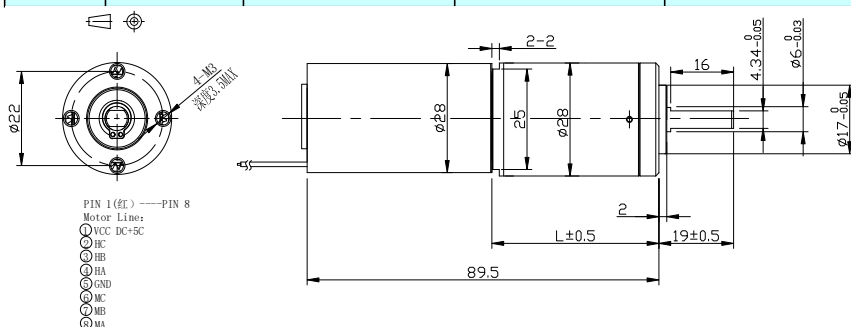
Helical gears in 1st stage, low backlash, ceramic pins are optional

首段斜齿轮, 低回转变隙, 陶瓷版销, 均可选择

Specifications of DC motor/单体电机参数表			
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	150 mA	250 mA
3	No load speed/空载转速	4600RPM	12500RPM
4	Rated current/额定电流	1230mA	1300 mA
5	Rated speed/额定转速	3300 RPM	11200 RPM
6	Rated torque/额定扭矩	32 mNm	20 mNm
7	Stall current/堵转电流	3972 mA	10346 mA
8	Stall torque/堵转扭矩	113.2 mNm	192.3 mNm
9	Max. efficiency/最大效率	74.0%	75.0%
10	Ambient temperature/温度	-20°C~+55°C	
11	Output bearing/输出轴端轴承	Ball bearing /滚珠轴承	
12	Type of controller/驱动种类	The controller for BLDC motor is optional/无刷电机的驱动器为选配	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表							
Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	1230 mA	892 RPM	100.6 mNm	1967 mA	150.9 mNm	250 g
1	4.3:1	1230 mA	770 RPM	117.0 mNm	1967 mA	175.5 mNm	250 g
1	5.2:1	1230 mA	635 RPM	141.4 mNm	1967 mA	212.1 mNm	250 g
2	16:1	1230 mA	206 RPM	370.0 mNm	1967 mA	555.0 mNm	273 g
2	19:1	1230 mA	174 RPM	439.3 mNm	1967 mA	659.0 mNm	273 g
2	27:1	1230 mA	122 RPM	624.2 mNm	1967 mA	936.3 mNm	273 g
3	59:1	1230 mA	56 RPM	1159 mNm	1967 mA	1739 mNm	295 g
3	79:1	1230 mA	42 RPM	1553 mNm	1967 mA	2330 mNm	295 g
3	99:1	1230 mA	33 RPM	1945 mNm	1967 mA	2918 mNm	295 g
3	139:1	1230 mA	24 RPM	2731 mNm	1967 mA	4097 mNm	295 g
4	264:1	1230 mA	13 RPM	4410 mNm	1967 mA	6615 mNm	321 g
4	337:1	1230 mA	9.8 RPM	5629 mNm	1967 mA	8444 mNm	321 g
4	516:1	967 mA	7.2 RPM	6000 mNm	1375 mA	9000 mNm	321 g
4	721:1	733 mA	5.5 RPM	6000 mNm	1024 mA	9000 mNm	321 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表							
Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	1300 mA	3027 RPM	62.9 mNm	1850 mA	94.4 mNm	250 g
1	4.3:1	1300 mA	2605 RPM	73.1 mNm	1850mA	109.6 mNm	250 g
1	5.2:1	1300 mA	2154 RPM	104.0 mNm	1850 mA	156 mNm	250 g
2	16:1	1300 mA	700 RPM	231.2 mNm	1850mA	346.8 mNm	273 g
2	19:1	1300 mA	589 RPM	274.6mNm	1850 mA	411.9 mNm	273 g
2	27:1	1300 mA	415 RPM	390.2 mNm	1850mA	585.3 mNm	273 g
3	59:1	1300 mA	190 RPM	724.7 mNm	1850 mA	1087 mNm	295 g
3	79:1	1300 mA	142 RPM	970.3 mNm	1850mA	1455 mNm	295 g
3	99:1	1300 mA	113 RPM	1216 mNm	1850 mA	1824 mNm	295 g
3	139:1	1300 mA	80.6 RPM	1707 mNm	1850mA	2560.5 mNm	295 g
4	264:1	1300 mA	42.4 RPM	2756 mNm	1850 mA	4134 mNm	321 g
4	337:1	1300 mA	33.2 RPM	3518 mNm	1850mA	5277 mNm	321 g
4	516:1	1300 mA	21.7 RPM	5387 mNm	1850 mA	8080.5 mNm	321 g
4	721:1	1100 mA	15.8 RPM	6000 mNm	1500 mA	9000 mNm	321 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	28.7	83.7
2	35.7	90.7
3	42.7	97.7
4	49.7	104.7

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Φ32mm

DC brush & coreless planetary gearmotor/直流有刷空心杯行星齿轮电机

Helical gears in 1st stage, low backlash, ceramic pins are optional

首段斜齿轮, 低回间隙, 陶瓷版销, 均可选择

Specifications of DC motor/单体电机参数表

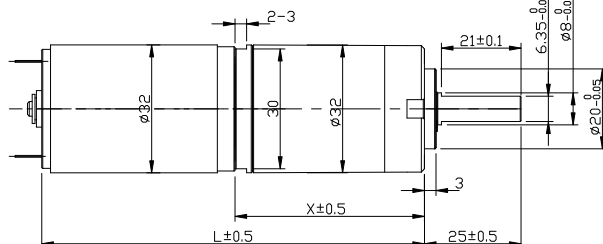
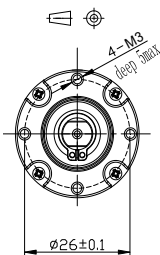
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	100 mA	50mA
3	No load speed/空载转速	4400 RPM	4400 RPM
4	Rated current/额定电流	1100 mA	550 mA
5	Rated speed/额定转速	3200 RPM	3200 RPM
6	Rated torque/额定扭矩	29.4 mNm	29.4 mNm
7	Stall current/堵转电流	3800 mA	1900 mA
8	Stall torque/堵转扭矩	107.8mNm	107.8 mNm
9	Max. efficiency/最大效率	72.0%	72.0%
10	Ambient temperature/温度	-10°C~+55°C	
11	Output bearing/输出轴端轴承	Ball bearing /滚珠轴承	
12	Type of brush/刷片种类	Carbon brush碳刷	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	1100 mA	865 RPM	92.5 mNm	1614 mA	138.8 mNm	363.3 g
1	4.3:1	1100 mA	744 RPM	107.5 mNm	1614 mA	161.3 mNm	363.3 g
1	5.2:1	1100 mA	615 RPM	130.0 mNm	1614 mA	195.0 mNm	363.3 g
2	16:1	1100 mA	200 RPM	339.9 mNm	1614 mA	509.9 mNm	383.5 g
2	19:1	1100 mA	168 RPM	403.6 mNm	1614 mA	605.4 mNm	383.5 g
2	27:1	1100 mA	119 RPM	573.5 mNm	1614 mA	860.3 mNm	383.5 g
3	59:1	1100 mA	54.0 RPM	1065 mNm	1614 mA	1598 mNm	403.6 g
3	79:1	1100 mA	40.5 RPM	1426 mNm	1614 mA	2139 mNm	403.6 g
3	99:1	1100 mA	32.3 RPM	1787 mNm	1614 mA	2681 mNm	403.6 g
3	139:1	1100 mA	23.0 RPM	2510 mNm	1614 mA	3765 mNm	403.6 g
4	264:1	1100 mA	12.1 RPM	4052 mNm	1614 mA	6078 mNm	423.8 g
4	337:1	1100 mA	9.5 RPM	5172 mNm	1614 mA	7758 mNm	423.8 g
4	516:1	992 mA	6.5 RPM	7919 mNm	1438 mA	11878 mNm	423.8 g
4	721:1	828 mA	5.0 RPM	8000 mNm	1200 mA	12000 mNm	423.8 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	550 mA	865 RPM	92.5 mNm	807 mA	138.8 mNm	363.3 g
1	4.3:1	550 mA	744 RPM	107.5 mNm	807 mA	161.3 mNm	363.3 g
1	5.2:1	550 mA	615 RPM	130.0 mNm	807 mA	195.0 mNm	363.3 g
2	16:1	550 mA	200 RPM	339.9 mNm	807 mA	509.9 mNm	383.5 g
2	19:1	550 mA	168 RPM	403.6 mNm	807 mA	605.4 mNm	383.5 g
2	27:1	550 mA	119 RPM	573.5 mNm	807 mA	860.3 mNm	383.5 g
3	59:1	550 mA	54.0 RPM	1065 mNm	807 mA	1598 mNm	403.6 g
3	79:1	550 mA	40.5 RPM	1426 mNm	807 mA	2139 mNm	403.6 g
3	99:1	550 mA	32.3 RPM	1787 mNm	807 mA	2681 mNm	403.6 g
3	139:1	550 mA	23.0 RPM	2510 mNm	807 mA	3765 mNm	403.6 g
4	264:1	550 mA	12.1 RPM	4052 mNm	807 mA	6078 mNm	423.8 g
4	337:1	550 mA	9.5 RPM	5172 mNm	807 mA	7758 mNm	423.8 g
4	516:1	500 mA	6.5 RPM	7919 mNm	720 mA	11878 mNm	423.8 g
4	721:1	420 mA	5.0 RPM	8000 mNm	600 mA	12000 mNm	423.8 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	30	95
2	39.5	104.5
3	49	114
4	58.5	123.5

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BLDC & Coreless planetary gearmotor/直流无刷空心杯行星齿轮电机



Φ32mm

Helical gears in 1st stage, low backlash, ceramic pins are optional

首段斜齿轮, 低回间隙, 陶瓷版销, 均可选择

Specifications of DC motor/单体电机参数表

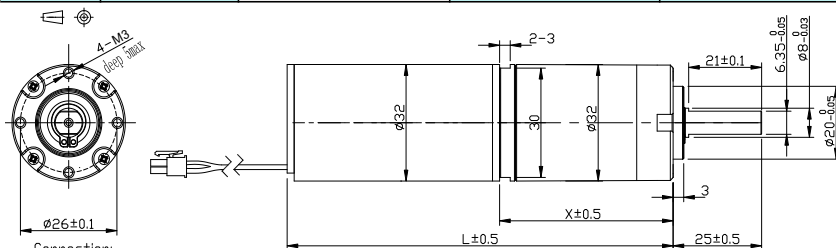
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	110 mA	40 mA
3	No load speed/空载转速	6000 RPM	3000 RPM
4	Rated current/额定电流	1230 mA	300 mA
5	Rated speed/额定转速	5520 RPM	2639 RPM
6	Rated torque/额定扭矩	21.23 mNm	19.5 mNm
7	Stall current/堵转电流	14120 mA	2200 mA
8	Stall torque/堵转扭矩	265.4 mNm	162.2 mNm
9	Max. efficiency/最大效率	83.1%	74.9%
10	Ambient temperature/温度	-10°C~+55°C	
11	Output bearing/输出轴端轴承	Ball bearing /滚珠轴承	
12	Type of controller/驱动种类	The controller for BLDC motor is optional/无刷电机的驱动器为选配	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	110 mA	1491 RPM	66.8 mNm	1791 mA	100.2mNm	354.3 g
1	4.3:1	110 mA	1283 RPM	77.6 mNm	1791 mA	116.4 mNm	354.3 g
1	5.2:1	110 mA	1061RPM	93.8mNm	1791 mA	140.7 mNm	354.3 g
2	16:1	110 mA	345RPM	245.4 mNm	1791 mA	368.1 mNm	374.5 g
2	19:1	110 mA	290 RPM	291.4 mNm	1791 mA	437.1 mNm	374.5 g
2	27:1	110 mA	204 RPM	414.1 mNm	1791 mA	621.2 mNm	374.5 g
3	59:1	110 mA	93.5 RPM	769.2 mNm	1791 mA	1154 mNm	394.6 g
3	79:1	110 mA	69.8 RPM	1030 mNm	1791 mA	1545 mNm	394.6 g
3	99:1	110 mA	55.8 RPM	1291 mNm	1791 mA	1936 mNm	394.6 g
3	139:1	110 mA	39.7 RPM	1812 mNm	1791 mA	2718 mNm	394.6 g
4	264:1	110 mA	20.9 RPM	2926 mNm	1791 mA	4389 mNm	414.8 g
4	337:1	110 mA	16.4 RPM	3735 mNm	1791 mA	5603 mNm	414.8 g
4	516:1	110 mA	10.7 RPM	5718 mNm	1791 mA	8577 mNm	414.8 g
4	721:1	110 mA	7.6 RPM	8000 mNm	1791 mA	12000 mNm	414.8 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	300 mA	713 RPM	61.3 mNm	430 mA	92.0 mNm	354.3 g
1	4.3:1	300 mA	614 RPM	71.3mNm	430 mA	107.0 mNm	354.3 g
1	5.2:1	300 mA	508 RPM	86.2 mNm	430 mA	129.3 mNm	354.3 g
2	16:1	300 mA	139 RPM	225.4 mNm	430 mA	338.1 mNm	374.5 g
2	19:1	300 mA	139 RPM	267.7 mNm	430 mA	401.6 mNm	374.5 g
2	27:1	300 mA	97.7 RPM	380.4 mNm	430 mA	570.6 mNm	374.5 g
3	59:1	300 mA	44.7 RPM	706.6 mNm	430 mA	1060 mNm	394.6 g
3	79:1	300 mA	33.4 RPM	946.1 mNm	430 mA	1419 mNm	394.6 g
3	99:1	300 mA	26.7 RPM	1186 mNm	430 mA	1779 mNm	394.6 g
3	139:1	300 mA	19.0 RPM	3260 mNm	430 mA	4890 mNm	394.6 g
4	264:1	300 mA	10.0 RPM	2687 mNm	430 mA	4031 mNm	414.8 g
4	337:1	300 mA	7.8 RPM	3430 mNm	430 mA	5145 mNm	414.8 g
4	516:1	300 mA	5.1 RPM	5252 mNm	430 mA	7878 mNm	414.8 g
4	721:1	300 mA	3.6 RPM	7339 mNm	430 mA	11000 mNm	414.8 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	30	90
2	39.5	99.5
3	49	109
4	58.5	118.5

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Φ36mm

Specifications of DC motor/单体电机参数表

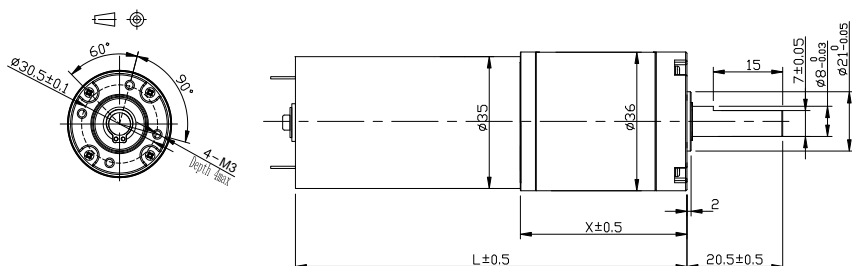
Specifications of DC motor/单体电机参数表			
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	225 mA	112 mA
3	No load speed/空载转速	7700 RPM	7700 RPM
4	Rated current/额定电流	2776 mA	1388 mA
5	Rated speed/额定转速	6900 RPM	6900 RPM
6	Rated torque/额定扭矩	39.2 mNm	39.2 mNm
7	Stall current/堵转电流	22000 mA	11000 mA
8	Stall torque/堵转扭矩	377.3 mNm	377.3 mNm
9	Max. efficiency/最大效率	74.0%	74.0%
10	Ambient temperature/温度	-20°C~+55°C	
11	Output bearing/输出轴端轴承	Ball bearing/滚珠轴承	
12	Type of brush/刷片种类	Carbon brush/碳刷	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	2776 mA	1865 RPM	123 mNm	3700 mA	184.5 mNm	359 g
1	4.2:1	2776 mA	1643 RPM	140 mNm	3700 mA	210 mNm	359 g
1	5.0:1	2776 mA	1380 RPM	166.5 mNm	3700 mA	250 mNm	359 g
2	13:1	2776 mA	530.5 RPM	368 mNm	3700 mA	552 mNm	416 g
2	25:1	2776 mA	276 RPM	708 mNm	3700 mA	1062 mNm	416 g
2	40:1	2776 mA	172.5 RPM	1133 mNm	3700 mA	1700 mNm	416 g
3	74:1	2776 mA	93 RPM	1781.5 mNm	3700 mA	2672 mNm	474 g
3	105:1	2776 mA	65.5 RPM	2527.5 mNm	3700 mA	3791 mNm	474 g
3	125:1	2776 mA	55 RPM	3009 mNm	3700 mA	4513.5 mNm	474 g
3	254:1	2500 mA	27.5 RPM	6000 mNm	3600 mA	9000 mNm	474 g
4	311:1	2400 mA	22.5 RPM	6000 mNm	3500 mA	9000 mNm	532 g
4	370:1	2100 mA	19 RPM	6000 mNm	3000 mA	9000 mNm	532 g
4	441:1	1800 mA	16 RPM	6000 mNm	2500 mA	9000 mNm	532 g
4	625:1	1300 mA	11.5 RPM	6000 mNm	1900 mA	9000 mNm	532 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	1388 mA	1865 RPM	123 mNm	1850 mA	184.5 mNm	359 g
1	4.2:1	1388 mA	1643 RPM	140 mNm	1850mA	210 mNm	359 g
1	5.0:1	1388 mA	1380 RPM	166.5 mNm	1850 mA	250 mNm	359 g
2	13:1	1388 mA	530.5 RPM	368 mNm	1850mA	552 mNm	416 g
2	25:1	1388 mA	276 RPM	708 mNm	1850 mA	1062 mNm	416 g
2	40:1	1388 mA	172.5 RPM	1133 mNm	1850mA	1700 mNm	416 g
3	74:1	1388 mA	93 RPM	1781.5 mNm	1850 mA	2672 mNm	474 g
3	105:1	1388 mA	65.5 RPM	2527.5 mNm	1850 mA	3791 mNm	474 g
3	125:1	1388 mA	55 RPM	3009 mNm	1850 mA	4513.5 mNm	474 g
3	254:1	1250 mA	27.5 RPM	6000 mNm	1800 mA	9000 mNm	474 g
4	311:1	1200 mA	22.5 RPM	6000 mNm	1750 mA	9000 mNm	532 g
4	370:1	1050 mA	19 RPM	6000 mNm	1500 mA	9000 mNm	532 g
4	441:1	900 mA	16 RPM	6000 mNm	1250 mA	9000 mNm	532 g
4	625:1	650 mA	11.5 RPM	6000 mNm	950 mA	9000 mNm	532 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	29.2	82.2
2	37.4	90.4
3	45.6	98.6
4	53.8	106.8



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BLDC & Coreless planetary gearmotor/直流无刷空心杯行星齿轮电机



Φ36mm

Helical gears in 1st stage, low backlash, ceramic pins are optional

首段斜齿轮, 低回转变隙, 陶瓷版销, 均可选择

Specifications of DC motor/单体电机参数表

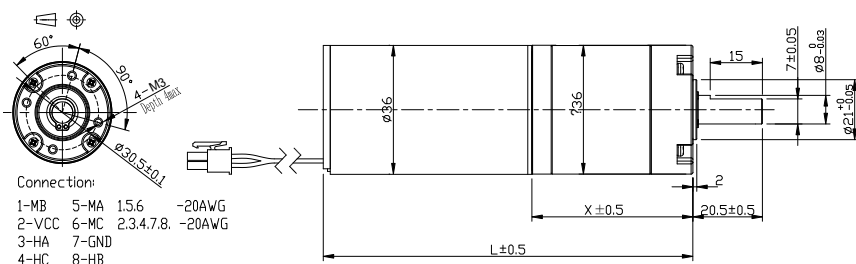
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	470 mA	120 mA
3	No load speed/空载转速	7200 RPM	7200 RPM
4	Rated current/额定电流	3630 mA	1500 mA
5	Rated speed/额定转速	6370 RPM	6660 RPM
6	Rated torque/额定扭矩	49.5 mNm	43.5 mNm
7	Stall current/堵转电流	27910 mA	18460 mA
8	Stall torque/堵转扭矩	429.3 mNm	580 mNm
9	Max. efficiency/最大效率	75.7%	84.5%
10	Ambient temperature/温度	-20°C~+55°C	
11	Output bearing/输出轴端轴承	Ball bearing /滚珠轴承	
12	Type of controller/驱动种类	The controller for BLDC motor is optional/无刷电机的驱动器为选配	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	3630 mA	1722 RPM	156 mNm	5200 mA	234 mNm	409 g
1	4.2:1	3630 mA	1517 RPM	208 mNm	5200 mA	312 mNm	409 g
1	5.0:1	3630 mA	1274 RPM	210 mNm	5200 mA	315 mNm	409 g
2	13:1	3630 mA	490 RPM	465 mNm	5200 mA	697.5 mNm	466 g
2	25:1	3630 mA	255 RPM	894 mNm	5200 mA	1341 mNm	466 g
2	40:1	3630 mA	159 RPM	1430.5 mNm	5200 mA	2145.5 mNm	466 g
3	74:1	3630 mA	86 RPM	2249.5 mNm	5200 mA	3374 mNm	524 g
3	105:1	3630 mA	60.5 RPM	3191 mNm	5200 mA	4786.5 mNm	524 g
3	125:1	3630 mA	51 RPM	3800 mNm	5200 mA	5700 mNm	524 g
3	254:1	3000 mA	26 RPM	6000 mNm	4200 mA	9000 mNm	524 g
4	311:1	2800 mA	21 RPM	6000 mNm	4000 mA	9000 mNm	582 g
4	370:1	2400 mA	18 RPM	6000 mNm	3400 mA	9000 mNm	582 g
4	441:1	2000 mA	15.5 RPM	6000 mNm	3000 mA	9000 mNm	582 g
4	625:1	1500 mA	11 RPM	6000 mNm	2100 mA	9000 mNm	582 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.7:1	1500 mA	1800 RPM	137 mNm	2200 mA	205.5 mNm	409 g
1	4.2:1	1500 mA	1585 RPM	183 mNm	2200 mA	274.5 mNm	409 g
1	5.0:1	1500 mA	1332 RPM	185 mNm	2200mA	277.5 mNm	409 g
2	13:1	1500 mA	512 RPM	408.5 mNm	2200 mA	612.5 mNm	466 g
2	25:1	1500 mA	266.5 RPM	785.5 mNm	5200 mA	1178 mNm	466 g
2	40:1	1500 mA	166.5 RPM	1257 mNm	5200 mA	1885.5 mNm	466 g
3	74:1	1500 mA	90 RPM	1977 mNm	5200 mA	2965.5 mNm	524 g
3	105:1	1500 mA	63.5 RPM	2805 mNm	2200mA	4207.5 mNm	524 g
3	125:1	1500 mA	53 RPM	3339 mNm	2200 mA	5008.5 mNm	524 g
3	254:1	1400 mA	26.5 RPM	6000 mNm	2000 mA	9000 mNm	524 g
4	311:1	1300 mA	21.5 RPM	6000 mNm	1900 mA	9000 mNm	582 g
4	370:1	1100 mA	18.5 RPM	6000 mNm	1650 mA	9000 mNm	582 g
4	441:1	950 mA	15.5 RPM	6000 mNm	1450 mA	9000 mNm	582 g
4	625:1	720 mA	11 RPM	6000 mNm	1000 mA	9000 mNm	582 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	29.2	89.2
2	37.4	97.4
3	45.6	105.6
4	53.8	113.8

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Φ42mm

DC brush & coreless planetary gearmotor/直流有刷空心杯行星齿轮电机

Helical gears in 1st stage, low backlash, ceramic pins are optional

首段斜齿轮, 低回转变隙, 陶瓷版销, 均可选择

Specifications of DC motor/单体电机参数表

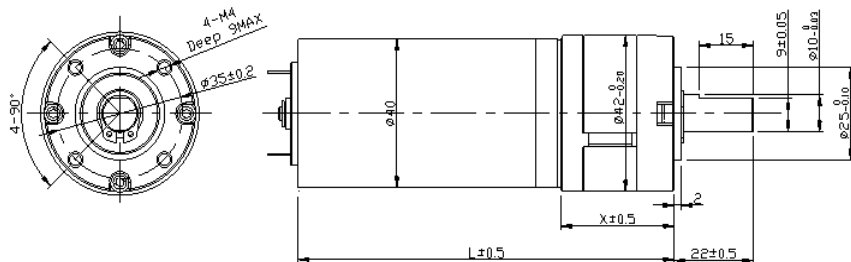
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	1060 mA	530 mA
3	No load speed/空载转速	7340 RPM	7340 RPM
4	Rated current/额定电流	12000 mA	6000 mA
5	Rated speed/额定转速	6670 RPM	6670 RPM
6	Rated torque/额定扭矩	166.6 mNm	166.6 mNm
7	Stall current/堵转电流	118000 mA	59000 mA
8	Stall torque/堵转扭矩	1825 mNm	1825 mNm
9	Max. efficiency/最大效率	81.0%	81.0%
10	Ambient temperature/温度	-20°C~+55°C	
11	Output bearing/输出轴端轴承	Ball bearing/滚珠轴承	
12	Type of brush/刷片种类	Carbon brush/碳刷	

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.6:1	12000 mA	1853 RPM	510 mNm	8700 mA	765 mNm	590 g
1	4.2:1	12000 mA	1588 RPM	595 mNm	8700 mA	892.5 mNm	590 g
1	5.0:1	12000 mA	1334 RPM	708 mNm	8700 mA	1062 mNm	590 g
2	13:1	12000 mA	513 RPM	1565 mNm	8700 mA	2347.5 mNm	675 g
2	25:1	12000 mA	266.5 RPM	3009 mNm	8700 mA	4513.5 mNm	675 g
2	40:1	12000 mA	166.5 RPM	4815 mNm	8700 mA	7222.5 mNm	675 g
3	74:1	12000 mA	90 RPM	7571 mNm	8700 mA	11356.5 mNm	758 g
3	105:1	12000 mA	64 RPM	10000 mNm	8700 mA	15000 mNm	758 g
3	125:1	4650 mA	55 RPM	10000 mNm	6900 mA	15000 mNm	758 g
3	254:1	2300 mA	27.5 RPM	10000 mNm	4050 mA	15000 mNm	758 g
4	311:1	2900 mA	22.5 RPM	12000 mNm	4050 mA	18000 mNm	840 g
4	370:1	2500 mA	19 RPM	12000 mNm	3500 mA	18000 mNm	840g
4	441:1	2300 mA	16 RPM	12000 mNm	3000 mA	18000 mNm	840 g
4	625:1	1750 mA	11.5 RPM	12000 mNm	2310 mA	18000 mNm	840 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.6:1	6000 mA	1853 RPM	510 mNm	8730 mA	765 mNm	590 g
1	4.2:1	6000 mA	1588 RPM	595 mNm	8730 mA	892.5 mNm	590 g
1	5.0:1	6000 mA	1334 RPM	708 mNm	8730 mA	1062 mNm	590 g
2	13:1	6000 mA	513 RPM	1565 mNm	8730 mA	2347.5 mNm	675 g
2	25:1	6000 mA	266.5 RPM	3009 mNm	8730 mA	4513.5 mNm	675 g
2	40:1	6000 mA	166.5 RPM	4815 mNm	8730 mA	7222.5 mNm	675 g
3	74:1	6000 mA	90 RPM	7571 mNm	8730 mA	11356.5 mNm	758 g
3	105:1	5500 mA	64 RPM	10000 mNm	8150 mA	15000 mNm	758 g
3	125:1	4850 mA	55 RPM	10000 mNm	6850 mA	15000 mNm	758 g
3	254:1	3000 mA	27.5 RPM	10000 mNm	4050 mA	15000 mNm	758 g
4	311:1	3000 mA	22.5 RPM	12000 mNm	4050 mA	18000 mNm	840 g
4	370:1	2600 mA	19 RPM	12000 mNm	3500 mA	18000 mNm	840g
4	441:1	2300 mA	16 RPM	12000 mNm	3000 mA	18000 mNm	840 g
4	625:1	1800 mA	11.5 RPM	12000 mNm	2310 mA	18000 mNm	840 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	31.6	102.1
2	42.5	113
3	53.4	123.9
4	64.3	134.8

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Specifications of DC motor/单体电机参数表

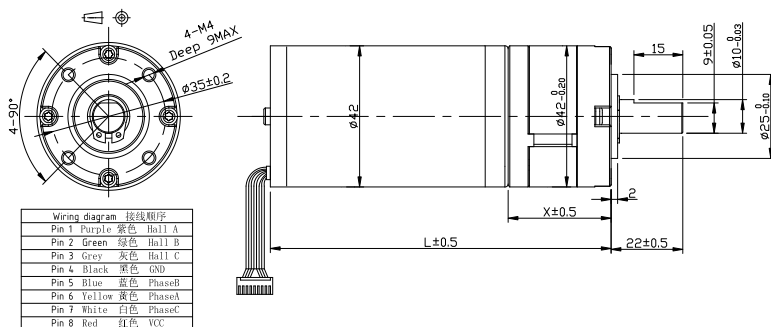
1	Nominal voltage/工作电压	12V DC	24V DC
2	No load current /空载电流	340 mA	170 mA
3	No load speed/空载转速	5000 RPM	5000 RPM
4	Rated current/额定电流	1920 mA	960 mA
5	Rated speed/额定转速	3860 RPM	3860 RPM
6	Rated torque/额定扭矩	40 mNm	40 mNm
7	Stall current/堵转电流	7270 mA	3635 mA
8	Stall torque/堵转扭矩	175.5 mNm	175.5 mNm
9	Max. efficiency/最大效率	70.0%	70.0%
10	Ambient temperature/温度	-20°C~+55°C	
11	Output bearing/输出轴端轴承	Ball bearing /滚珠轴承	
12	Type of controller/驱动种类	The controller for BLDC motor is optional/无刷电机的驱动器为选配	

Specifications of gearmotor under 12VDC/齿轮电机在12VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.6:1	1920 mA	1072 RPM	122.5 mNm	2710 mA	183.5 mNm	505 g
1	4.2:1	1920 mA	919 RPM	143 mNm	2710 mA	214.5 mNm	505 g
1	5.0:1	1920 mA	772 RPM	170 mNm	2710 mA	255 mNm	505 g
2	13:1	1920 mA	297 RPM	375.5 mNm	2710 mA	563 mNm	590 g
2	25:1	1920 mA	154.5 RPM	722.5 mNm	2710 mA	1084 mNm	590 g
2	40:1	1920 mA	96.5 RPM	1156 mNm	2710 mA	1734 mNm	590 g
3	74:1	1920 mA	52 RPM	1818 mNm	2710 mA	2727 mNm	673 g
3	105:1	1920 mA	36.5 RPM	2579 mNm	2710 mA	3868.5 mNm	673 g
3	125:1	1920 mA	31 RPM	3070.5 mNm	2710 mA	4605.5 mNm	673 g
3	254:1	1920 mA	15 RPM	6240 mNm	2710 mA	9360 mNm	673 g
4	311:1	1920 mA	12.5 RPM	6493.5 mNm	2710 mA	9740 mNm	755 g
4	370:1	1920 mA	10.5 RPM	7725.5 mNm	2710 mA	11588 mNm	755 g
4	441:1	1920 mA	8.5 RPM	9208 mNm	2710 mA	13812 mNm	755 g
4	625:1	1800 mA	6.3 RPM	12000 mNm	2520 mA	18000 mNm	755 g

Specifications of gearmotor under 24VDC/齿轮电机在24VDC下的参数表

Stage 段数	Ratio 减速比	Rated current 额定电流	Rated speed 额定转速	Rated torque 额定扭矩	Max.momentary current 最大瞬间电流	Max.momentary torque 最大瞬间扭矩	Weight 重量
1	3.6:1	960 mA	1072 RPM	122.5 mNm	1355 mA	183.5 mNm	505 g
1	4.2:1	960 mA	919 RPM	143 mNm	1355 mA	214.5 mNm	505 g
1	5.0:1	960 mA	772 RPM	170 mNm	1355 mA	255 mNm	505 g
2	13:1	960 mA	297 RPM	375.5 mNm	1355 mA	563 mNm	590 g
2	25:1	960 mA	154.5 RPM	722.5 mNm	1355 mA	1084 mNm	590 g
2	40:1	960 mA	96.5 RPM	1156 mNm	1355 mA	1734 mNm	590 g
3	74:1	960 mA	52 RPM	1818 mNm	1355 mA	2727 mNm	673 g
3	105:1	960 mA	36.5 RPM	2579 mNm	1355 mA	3868.5 mNm	673 g
3	125:1	960 mA	31 RPM	3070.5 mNm	1355 mA	4605.5 mNm	673 g
3	254:1	960 mA	15 RPM	6240 mNm	1355 mA	9360 mNm	673 g
4	311:1	960 mA	12.5 RPM	6493.5 mNm	1355 mA	9740 mNm	755 g
4	370:1	960 mA	10.5 RPM	7725.5 mNm	1355 mA	11588 mNm	755 g
4	441:1	960 mA	8.5 RPM	9208 mNm	1355 mA	13812 mNm	755 g
4	625:1	900 mA	6.3 RPM	12000 mNm	1255 mA	18000 mNm	755 g



Gearbox stages	Length of gearbox X	Length of gearmotor L
齿轮箱段数	齿轮箱长 X	齿轮电机总成 L
1	31.6	86.6
2	42.5	97.5
3	53.4	108.4
4	64.3	119.3

We are able to design and manufacture the products exactly to customers' requirements.

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Specifications subject to change without notice

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