

Silent

精密小模数齿轮

Precision small module gear

微型精密行星减速箱

Micro precision planetary gearbox

微型精密行星减速电机

Micro precision planetary gear motor





DONGGUAN SILENT INDUSTRY CO.,LTD

Company Profile

公司简介

东莞市赛仑特实业有限公司创立于2006年，深耕小模数齿轮行业及微型精密行星减速箱行业多年，拥有稳定的技术团队及深厚技术积累，属国家高新技术企业和省专精特新企业，获得60多项专利，可为客户提供精密小模数齿轮、微型精密行星减速箱及直流减速电机整体解决方案。

我们秉承“用心制造产品，真诚服务客户”的经营理念，不断提升产品竞争力，先后通过ISO 9001/14001、IATF16949、ISO13485等体系认证，保障产品质量的稳定性及可靠性。

公司产品广泛应用于智能机器人、医疗器械、汽车零部件、智能家居、高端电动工具、航天军工、工业自动化等多个行业，与多家海内外知名企业有密切合作，专注替代同规格进口产品。

我们以市场及客户需求为宗旨，期望未来提供更多高性价比产品服务市场及客户，期待您光临本公司访问洽谈！



2006

成立：2006年



10200+

面积：10200多平方米



60+

专利：60多项

Dongguan Silent Industry Co.,Ltd was established in 2006. We are a professional manufacturer specialized in the industry of high precision gears and micro-precision planetary gearboxes for many years. As the National High-tech Enterprise and the Provincial SRDI (Specialized, Refinement, Differential, Innovation) Enterprise, we have a stable technical team and profound technology accumulation with more than 60 patents. We can offer you integrated solutions for precision small module gears, micro precision planetary gearboxes and DC gear motors.

We have always been adhering to the business philosophy of "manufacturing products with heart and serving customers sincerely". Also we are certified by ISO 9001/14001, IATF16949, ISO13485 international quality management system, the stability and reliability of our product quality can be ensured.

Our products are widely used in smart home and robots, medical equipments, automotive components, high-end electric tools, aerospace and military applications, industrial automation etc. We have established a long-term friendly relations of cooperation with many well-known enterprises at home and abroad, focusing on replacing imported products of the same specifications.

We aim to meet the requirements of our clients and market, and maintain the high quality at reasonable prices. To offer our clients the most efficient & economical solution has always been our committed pursuit. Welcome to our company for more discussion, our strong & solid team will always make the best effort to fulfill all your requirements.



Brand Value

品牌价值

赛尔特已荣获ISO9001、ISO14001、IATF16949、ISO13485等体系认证、60+项专利证书和发明证书。

Silent has won ISO9001, ISO14001, IATF16949, ISO13485 and other system certifications, 60+ patent certificates and invention certificates.



Development History

发展历程

见证19年
开拓的脚步一直向前

THE PASSED 19 YEARS WITNESSED OUR
NON-STOP FOOTSTEPS OF MOVING FORWARD

2011

通过ISO9001体系认证
通过ISO14001体系认证
Obtained the certifications of ISO9001 / 14001

2017

获国家高新技术企业称号
Won the title of National
High-tech Enterprise

2015

前海股权交易中心挂牌
Listed on Qianhai Equity Exchange

2006

赛伦特成立
Silent established

2020



通过IATF16949质量管理体系认证
Obtained the certifications of IATF 16949

2023



已申请通过ISO 13485体系认证
及多项发明专利证书
Obtained the certification of ISO
13485 and multiple invention
patents

2021



荣获省专精特新企业
Awarded as the Provincial SRDI
Enterprise
(Specialized, Refinement, Differential,
Innovation)

2019



推行精益
管理运作
Implemented Lean
Management



Production Equipment

生产设备



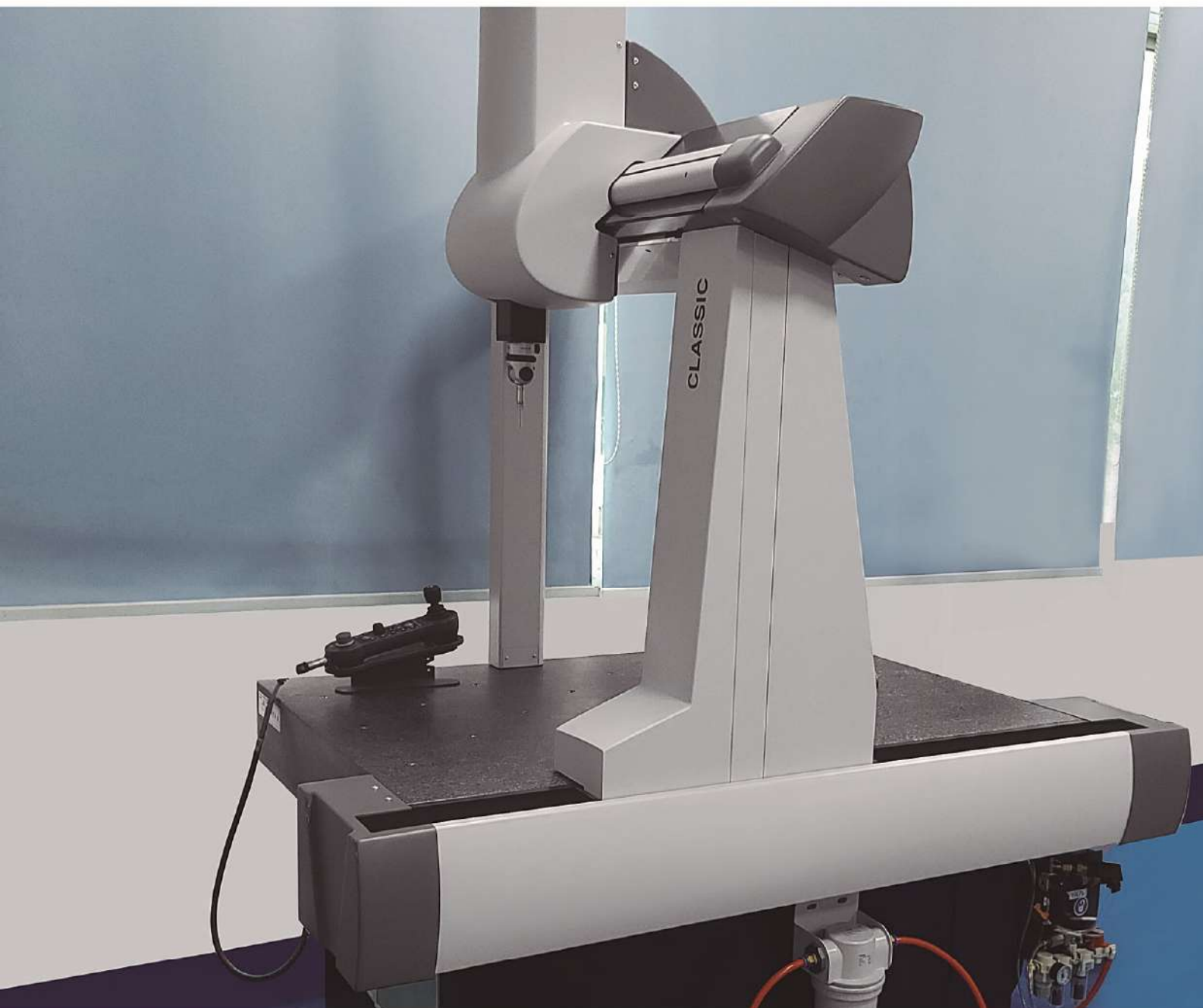


Testing Equipment

检测设备

生产全过程的管控是产品质量的保证，贯彻质量管理体系，杜绝任何不合格因素进入生产制造流程。

We conduct rigorous control on the entire production process and implement the quality management system to prevent any unqualified products and guarantee the product quality.





Micro precision planetary gearbox

— 微型精密行星减速箱 —



Planetary gearbox
行星减速箱
ST4.3P 系列



行星减速箱ST4.3P系列

通用基本信息 General & Basic information

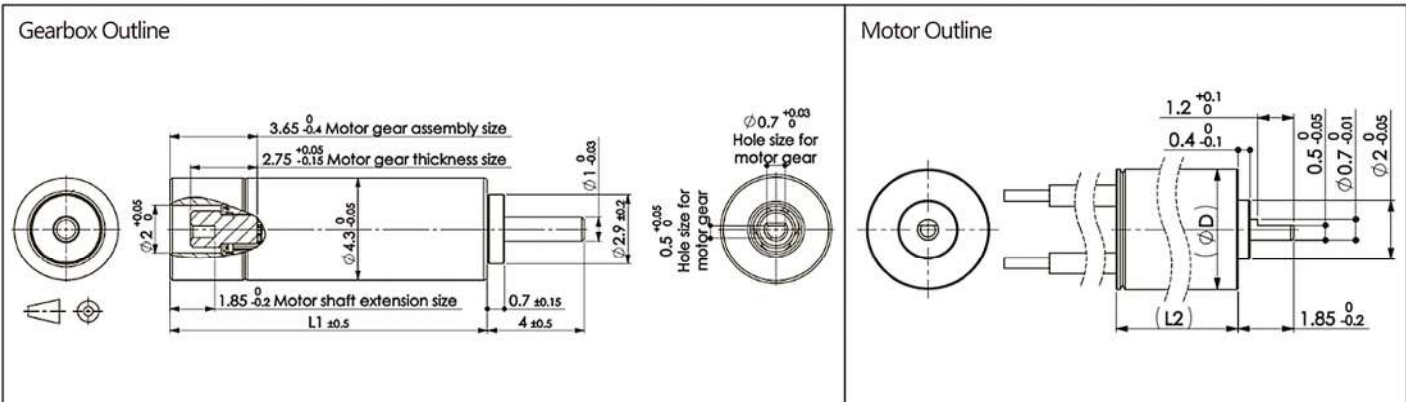
NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰6mm) Radial clearance(6mm from flange)	≤0.15mm
7	轴向间隙 Axial clearance	≤0.15mm
8	最大径向载荷(距法兰6mm) Max. radial load(6mm from flange)	≤2N
9	最大动态轴向载荷 Max. dynamic axial load	≤3N
10	最大允许安装力 Max. allowable installation force	≤2N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-15°C to +80°C

技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio	4.25	18.1	76.8	326
15	空载时齿轮回差 No-load gear backlash	6°	7°	7.5°	7.5°
16	最大连续输入转速 Max. continuous input speed	40000rpm	40000rpm	40000rpm	40000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	45000rpm	45000rpm	45000rpm	45000rpm
18	最大连续扭矩 Max. continuous torque	2mNm	6mNm	15mNm	15mNm
19	最大瞬时扭矩 Max. instantaneous torque	3mNm	9mNm	20mNm	20mNm
20	最大效率 Max. efficiency	80%	64%	51%	41%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	0.6	0.8	0.9	1.00
22	齿轮箱长度 L1[mm]=Lenght of gearbox	6.8	8.9	11	13.1

电机齿轮参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	中孔直径和扁位 Hole diameter and flat position
4.25	钢件 Steel	Z=12	2.75 ^{+0.05} _{-0.15}	Φ0.7 ^{+0.03} ₋₀
				Φ0.5 ^{+0.05} ₋₀



我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox

行星减速箱

ST5.8P 系列



通用基本信息 General & Basic information

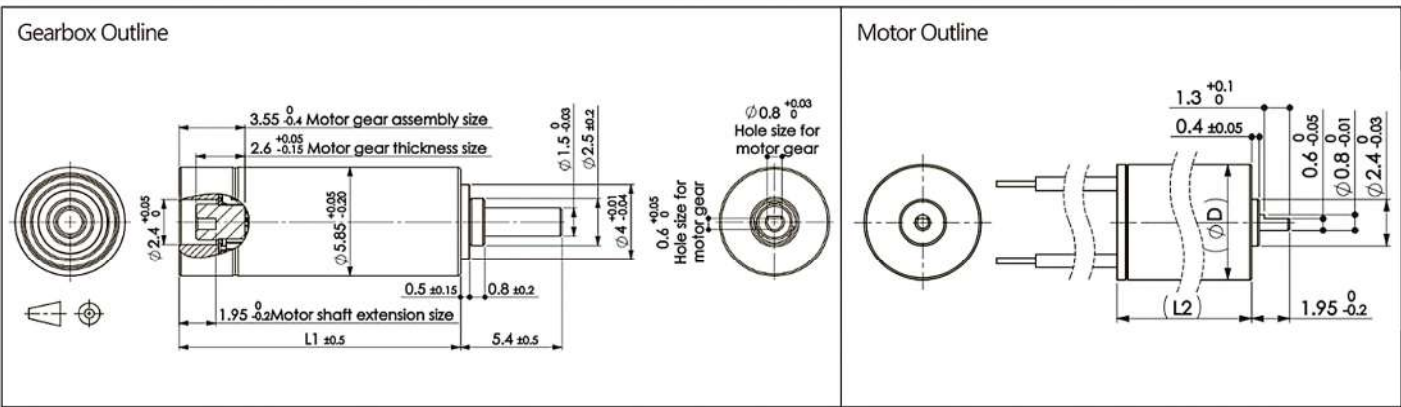
NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰6mm) Radial clearance(6mm from flange)	≤0.08mm
7	轴向间隙 Axial clearance	≤0.1mm
8	最大径向载荷(距法兰6mm) Max. radial load(6mm from flange)	≤5N
9	最大动态轴向载荷 Max. dynamic axial load	≤3N
10	最大允许安装力 Max. allowable installation force	≤5N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-15°C to +80°C

技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio	4	16	64	256
15	空载时齿轮回差 No-load gear backlash	4°	5°	5.5°	5.5°
16	最大连续输入转速 Max. continuous input speed	25000rpm	30000rpm	35000rpm	35000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	30000rpm	35000rpm	40000rpm	40000rpm
18	最大连续扭矩 Max. continuous torque	5mNm	10mNm	20mNm	20mNm
19	最大瞬时扭矩 Max. instantaneous torque	7.5mNm	15mNm	30mNm	30mNm
20	最大效率 Max. efficiency	80%	64%	51%	41%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	1.5	1.7	1.9	2.2
22	齿轮箱长度 L1[mm]=Lenght of gearbox	8.8	10.85	12.9	14.95

电机齿轮参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	中孔直径和扁位 Hole diameter and flat position
4.	钢件 Steel	Z=12	2.6 ^{+0.05} / _{-0.15}	$\Phi 0.8 \begin{smallmatrix} +0.03 \\ 0 \end{smallmatrix}$ $\Phi 0.6 \begin{smallmatrix} +0.05 \\ 0 \end{smallmatrix}$



我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox
行星减速箱
ST8P2系列



通用基本信息 General & Basic information

NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰4.5mm) Radial clearance(4.5mm from flange)	≤0.08mm
7	轴向间隙 Axial clearance	≤0.1mm
8	最大径向载荷(距法兰4.5mm) Max. radial load(4.5mm from flange)	≤8N
9	最大动态轴向载荷 Max. dynamic axial load	≤5N
10	最大允许安装力 Max. allowable installation force	≤10N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-15°C to +80°C

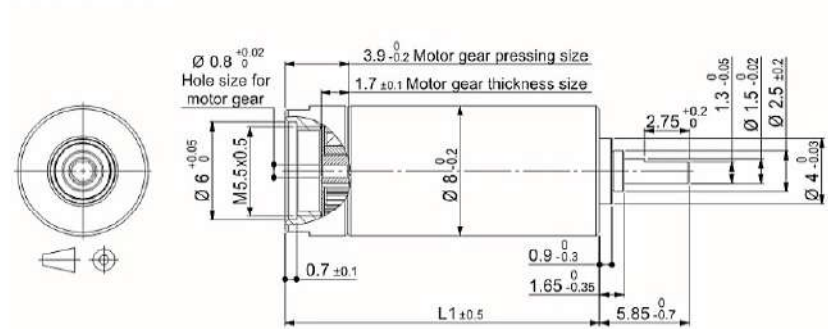
技术参数 Technical Data

NO.	描述 Description	值 Value				
13	齿轮级数 Number of gear stages	1	2	3	4	5
14	减速比 Reduction ratio	4.636	21.5	99.6	462	2141
15	空载时齿轮回差 No-load gear backlash	3°	3.6°	3.8°	4°	4°
16	最大连续输入转速 Max. continuous input speed	12,000rpm	15,000rpm	18,000rpm	20,000rpm	20,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	15,000rpm	18,000rpm	21,000rpm	25,000rpm	25,000rpm
18	最大连续扭矩 Max. continuous torque	10mNm	20mNm	60mNm	80mNm	100mNm
19	最大瞬时扭矩 Max. instantaneous torque	15mNm	30mNm	90mNm	120mNm	150mNm
20	最大效率 Max. efficiency	80%	64%	51%	41%	33%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	2.6	3.3	3.9	4.5	5.1
22	齿轮箱长度 L1[mm]=Lenght of gearbox	9.2	11.7	14.2	16.7	19.2

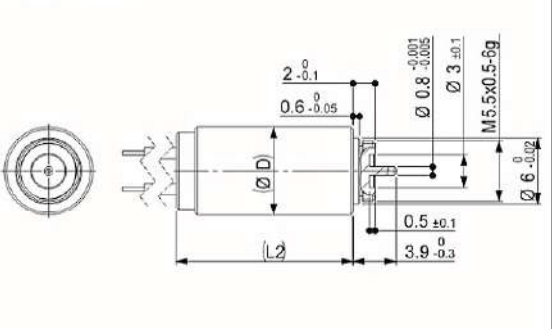
电机齿轮参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	孔径 Hole size
4.636	钢件 Steel	Z=11	1.7 ±0.1	Φ0.8 ^{+0.02} ₀

Gearbox Outline



Motor Outline



我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox

行星减速箱

ST10P2系列



通用基本信息 General & Basic information

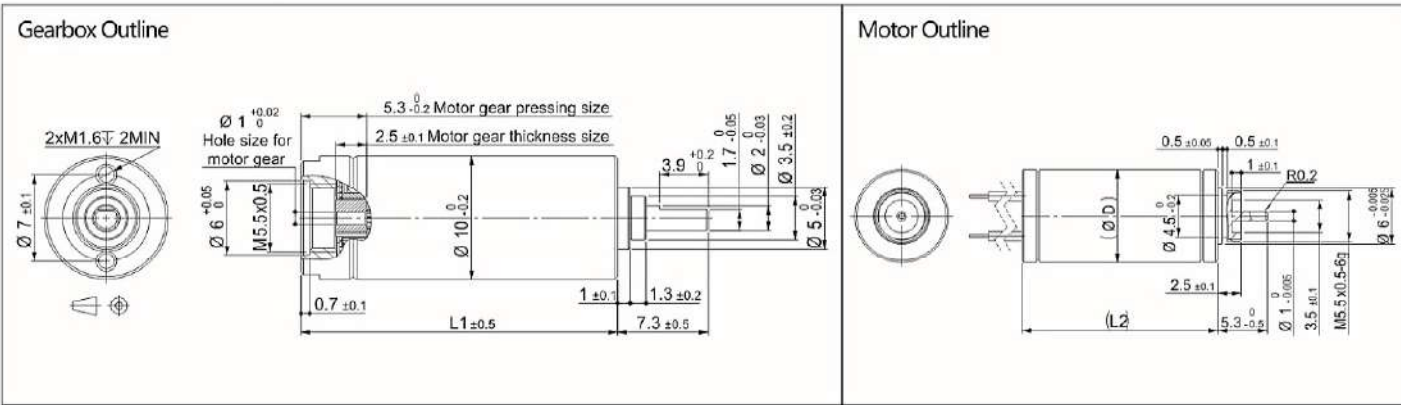
NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰5mm) Radial clearance(5mm from flange)	≤0.08mm
7	轴向间隙 Axial clearance	≤0.1mm
8	最大径向载荷(距法兰5mm) Max. radial load(5mm from flange)	≤10N
9	最大动态轴向载荷 Max. dynamic axial load	≤5N
10	最大允许安装力 Max. allowable installation force	≤5N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

技术参数 Technical Data

NO.	描述 Description	值 Value				
13	齿轮级数 Number of gear stages	1	2	3	4	5
14	减速比 Reduction ratio	4	16	64	256	1024
15	空载时齿轮回差 No-load gear backlash	2.2°	2.7°	2.9°	3.0°	3.0°
16	最大连续输入转速 Max. continuous input speed	12,000rpm	15,000rpm	18,000rpm	20,000rpm	25,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	15,000rpm	20,000rpm	22,000rpm	25,000rpm	30,000rpm
18	最大连续扭矩 Max. continuous torque	30mNm	50mNm	100mNm	200mNm	300mNm
19	最大瞬时扭矩 Max. instantaneous torque	45mNm	75mNm	150mNm	300mNm	450mNm
20	最大效率 Max. efficiency	85%	72%	61%	52%	44%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	5.4	6.8	8.2	9.7	11.1
22	齿轮箱长度 L1[mm]=Lenght of gearbox	11.5	15.0	18.5	22.0	25.5

电机齿轮参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	孔径 Hole size
4	钢件 Steel	Z=15	2.5 ±0.1	Φ1.0 ^{+0.02}



我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox
行星减速箱
ST12P2系列



通用基本信息 General & Basic information

NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰6mm) Radial clearance(6mm from flange)	≤0.05mm
7	轴向间隙 Axial clearance	≤0.1mm
8	最大径向载荷(距法兰6mm) Max. radial load(6mm from flange)	≤20N
9	最大动态轴向载荷 Max. dynamic axial load	≤8N
10	最大允许安装力 Max. allowable installation force	≤10N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

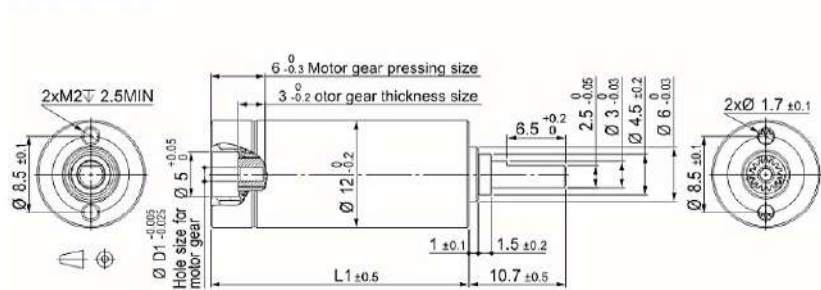
技术参数 Technical Data

NO.	描述 Description	值 Value				
13	齿轮级数 Number of gear stages	1	2	3	4	5
14	减速比 Reduction ratio	4	16	64	256	1024
15	空载时齿轮回差 No-load gear backlash	1.8°	2.2°	2.4°	2.5°	2.5°
16	最大连续输入转速 Max. continuous input speed	12,000rpm	15,000rpm	18,000rpm	20,000rpm	25,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	15,000rpm	20,000rpm	22,000rpm	25,000rpm	30,000rpm
18	最大连续扭矩 Max. continuous torque	50mNm	100mNm	200mNm	300mNm	400mNm
19	最大瞬时扭矩 Max. instantaneous torque	75mNm	150mNm	300mNm	450mNm	600mNm
20	最大效率 Max. efficiency	85%	72%	61%	52%	44%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	9.5	11.6	13.9	16.1	18.4
22	齿轮箱长度 L1[mm]=Lenght of gearbox	13.2	17.05	20.9	24.75	28.6

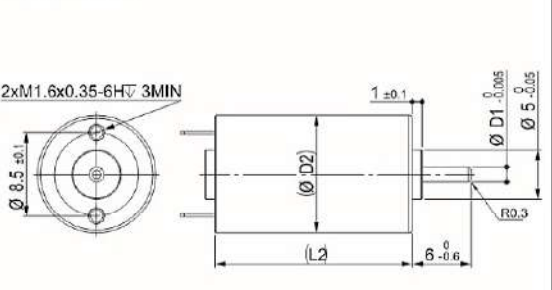
电机齿轮参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	孔径 Hole size
4	钢件 Steel	Z=15	3 ⁰ _{-0.2}	Φ1.0 ^{-0.005} _{-0.025} Φ1.5 ^{-0.005} _{-0.025}

Gearbox Outline



Motor Outline



我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox

行星减速箱

ST16P2系列



通用基本信息 General & Basic information

NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰6mm) Radial clearance(6mm from flange)	≤0.05mm
7	轴向间隙 Axial clearance	≤0.1mm
8	最大径向载荷(距法兰6mm) Max. radial load(6mm from flange)	≤30N
9	最大动态轴向载荷 Max. dynamic axial load	≤15N
10	最大允许安装力 Max. allowable installation force	≤25N
11	旋向(从驱动轮到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

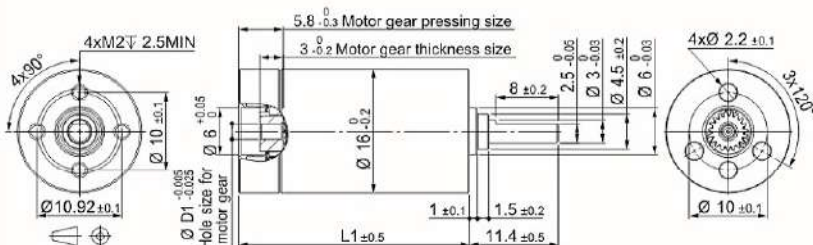
技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio	3.789 4.313 5.077 6.3	14.4 / 16.3 18.6 / 19.2 21.9 / 23.9 25.8 / 27.2 32.0 / 39.7	54.4 / 61.9 / 70.5 72.9 / 80.2 / 83.0 90.4 / 94.4 / 97.7 102.9 / 111.2 / 117.2 121.2 / 130.9 / 137.9 150.4 / 162.4 / 171.2 201.5 / 250.0	206 / 235 / 267 / 276 / 304 314 / 343 / 346 / 358 / 370 390 / 407 / 421 / 444 / 459 479 / 496 / 505 / 523 / 564 570 / 595 / 615 / 649 / 664 700 / 738 / 764 / 824 / 869 947 / 1023 / 1078 / 1269 / 1575
15	空载时齿轮回差 No-load gear backlash	1.8°	2.2°	2.4°	2.5°
16	最大连续输入转速 Max. continuous input speed	10,000rpm	12,000rpm	15,000rpm	18,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	12,000rpm	15,000rpm	18,000rpm	21,000rpm
18	最大连续扭矩 Max. continuous torque	200mNm	400mNm	800mNm	1,000mNm
19	最大瞬时扭矩 Max. instantaneous torque	300mNm	600mNm	1,200mNm	1,500mNm
20	最大效率 Max. efficiency	90%	81%	73%	65%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	16.4	20.6	22.7	29.3
22	齿轮箱长度 L1[mm]=Lenght of gearbox	13.6	17.6	21.6	25.6

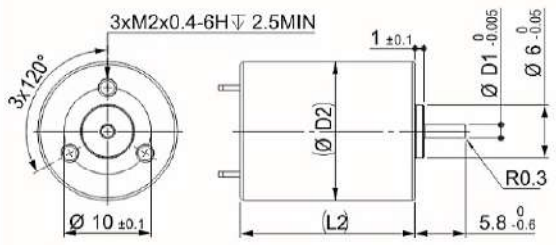
电机齿轮参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	孔径 Hole size
3.789	钢件 Steel	Z=19	3 ⁰ _{-0.2}	Φ1.5 ^{-0.005} _{-0.025}
4.313		Z=16		Φ2.0 ^{-0.005} _{-0.025}
5.077		Z=13		Φ1.0 ^{-0.005} _{-0.025}
6.3		Z=10		Φ1.0 ^{-0.005} _{-0.025}

Gearbox Outline



Motor Outline



我司可根据客户要求设计和生产相关产品,可适配多类型电机。We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox
行星减速箱
ST22P2系列



通用基本信息 General & Basic information

NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰8mm) Radial clearance(8mm from flange)	≤0.05mm
7	轴向间隙 Axial clearance	≤0.1mm
8	最大径向载荷(距法兰8mm) Max. radial load(8mm from flange)	≤55N
9	最大动态轴向载荷 Max. dynamic axial load	≤100N
10	最大允许安装力 Max. allowable installation force	≤100N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

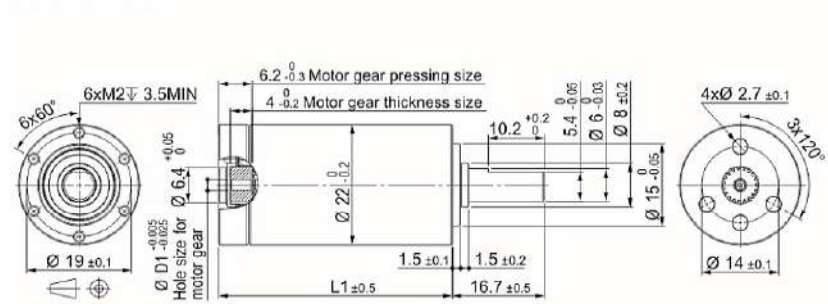
技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio	3.789 4.313 5.077 6.3	14.4 / 16.3 18.6 / 19.2 21.9 / 23.9 25.8 / 27.2 32.0 / 39.7	54.4 / 61.9 / 70.5 72.9 / 80.2 / 83.0 90.4 / 94.4 / 97.7 102.9 / 111.2 / 117.2 121.2 / 130.9 / 137.9 150.4 / 162.4 / 171.2 201.5 / 250.0	206 / 235 / 267 / 276 / 304 314 / 343 / 346 / 358 / 370 390 / 407 / 421 / 444 / 459 479 / 496 / 505 / 523 / 564 570 / 595 / 615 / 649 / 664 700 / 738 / 764 / 824 / 869 947 / 1023 / 1078 / 1269 / 1575
15	空载时齿轮回差 No-load gear backlash	1.4°	1.8°	1.9°	2.0°
16	最大连续输入转速 Max. continuous input speed	8,000rpm	10,000rpm	15,000rpm	20,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	10,000rpm	15,000rpm	20,000rpm	25,000rpm
18	最大连续扭矩 Max. continuous torque	500mNm	1,200mNm	2,000mNm	2,000mNm
19	最大瞬时扭矩 Max. instantaneous torque	800mNm	1,800mNm	3,000mNm	3,000mNm
20	最大效率 Max. efficiency	88%	77%	68%	60%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	46	61	72	83
22	齿轮箱长度 L1[mm]=Lenght of gearbox	18.7	26.2	31.6	37.0

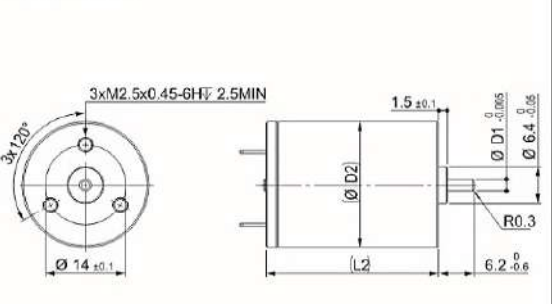
电机齿轮参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	孔径 Hole size
3.789	钢件 Steel	Z=19	4 ⁰ _{-0.2}	Φ2.0 ^{-0.005} _{-0.025}
4.313		Z=16		Φ3.0 ^{-0.005} _{-0.025}
5.077		Z=13		Φ2.0 ^{-0.005} _{-0.025}
6.3		Z=10		Φ1.5 ^{-0.005} _{-0.025}

Gearbox Outline



Motor Outline



我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox
行星减速箱
ST26P2系列



通用基本信息 General & Basic information

NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰10mm) Radial clearance(10mm from flange)	≤0.05mm
7	轴向间隙 Axial clearance	≤0.2mm
8	最大径向载荷(距法兰10mm) Max. radial load(10mm from flange)	≤70N
9	最大动态轴向载荷 Max. dynamic axial load	≤120N
10	最大允许安装力 Max. allowable installation force	≤120N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

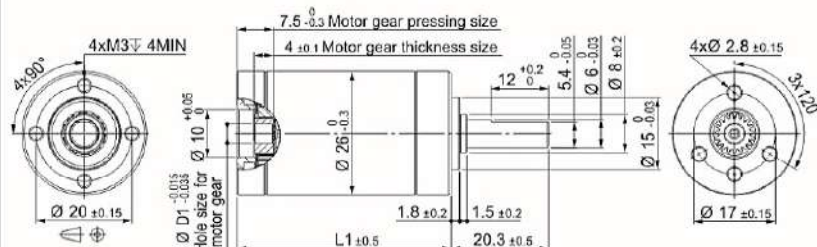
技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio			54.4 / 61.9 / 70.5	206 / 235 / 267 / 276 / 304
		3.789	14.4 / 16.3	72.9 / 80.2 / 83.0	314 / 343 / 346 / 358 / 370
		4.313	18.6 / 19.2	90.4 / 94.4 / 97.7	390 / 407 / 421 / 444 / 459
		5.077	21.9 / 23.9	102.9 / 111.2 / 117.2	479 / 496 / 505 / 523 / 564
		6.3	25.8 / 27.2	121.2 / 130.9 / 137.9	570 / 595 / 615 / 649 / 664
		32.0 / 39.7	150.4 / 162.4 / 171.2	700 / 738 / 764 / 824 / 869	
			201.5 / 250.0	947 / 1023 / 1078 / 1269 / 1575	
15	空载时齿轮回差 No-load gear backlash	1.2°	1.5°	1.7°	1.8°
16	最大连续输入转速 Max. continuous input speed	10,000rpm	12,000rpm	15,000rpm	15,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	12,000rpm	15,000rpm	20,000rpm	20,000rpm
18	最大连续扭矩 Max. continuous torque	750mNm	3,000mNm	4,500mNm	4,500mNm
19	最大瞬时扭矩 Max. instantaneous torque	1,100mNm	4,500mNm	6,200mNm	6,200mNm
20	最大效率 Max. efficiency	89%	79%	70%	62%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	72	98	116	135
22	齿轮箱长度 L1[mm]=Lenght of gearbox	21.7	31.4	38.0	44.6

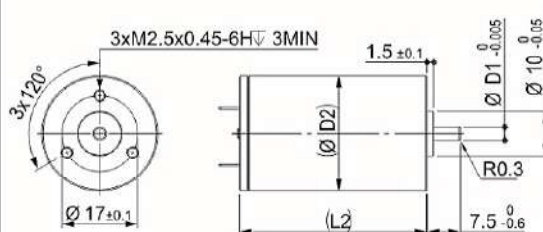
电机齿参数 Motor pinion specifications

初段減速比 Initial deceleration ratio	材料 Material	齒數 Number of teeth	厚度 Thickness	孔径 Hole size
3.789	鋼件 Steel	Z=19	4±0.1	Φ4.0 ^{-0.015} _{-0.035}
4.313		Z=16		Φ3.0 ^{-0.015} _{-0.035}
5.077		Z=13		Φ2.0 ^{-0.015} _{-0.035}
6.3		Z=10		

Gearbox Outline



Motor Outline



我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox
行星减速箱
ST28P2系列



通用基本信息 General & Basic information

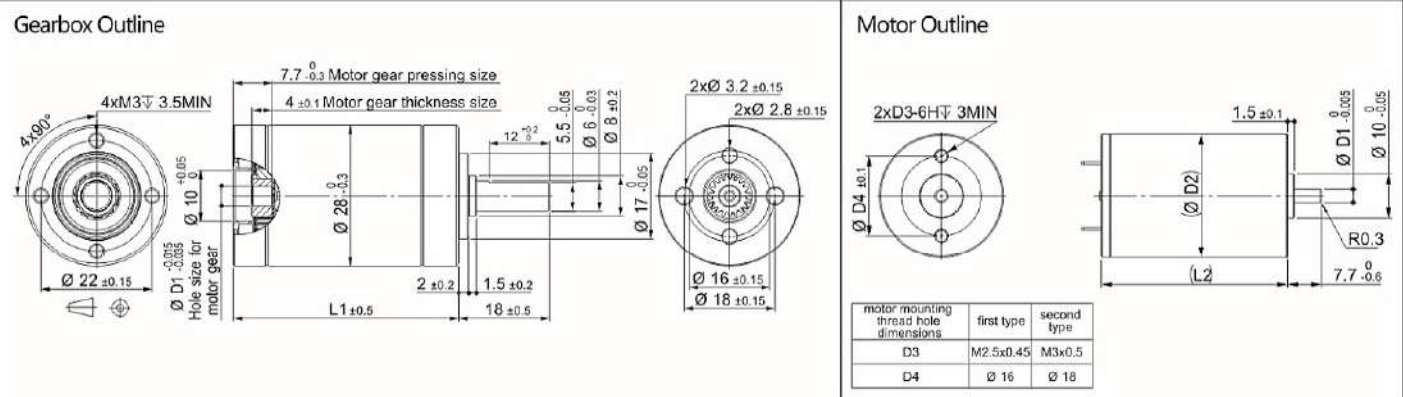
NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰10mm) Radial clearance(10mm from flange)	≤0.05mm
7	轴向间隙 Axial clearance	≤0.2mm
8	最大径向载荷(距法兰10mm) Max. radial load(10mm from flange)	≤70N
9	最大动态轴向载荷 Max. dynamic axial load	≤120N
10	最大允许安装力 Max. allowable installation force	≤120N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio	3.789 4.313 5.077 6.3	14.4 / 16.3 18.6 / 19.2 21.9 / 23.9 25.8 / 27.2 32.0 / 39.7	54.4 / 61.9 / 70.5 72.9 / 80.2 / 83.0 90.4 / 94.4 / 97.7 102.9 / 111.2 / 117.2 121.2 / 130.9 / 137.9 150.4 / 162.4 / 171.2 201.5 / 250.0	206 / 235 / 267 / 276 / 304 314 / 343 / 346 / 358 / 370 390 / 407 / 421 / 444 / 459 479 / 496 / 505 / 523 / 564 570 / 595 / 615 / 649 / 664 700 / 738 / 764 / 824 / 869 947 / 1023 / 1078 / 1269 / 1575
15	空载时齿轮回差 No-load gear backlash	1.2°	1.5°	1.7°	1.8°
16	最大连续输入转速 Max. continuous input speed	10,000rpm	12,000rpm	15,000rpm	15,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	12,000rpm	15,000rpm	20,000rpm	20,000rpm
18	最大连续扭矩 Max. continuous torque	750mNm	2,500mNm	4,500mNm	4,500mNm
19	最大瞬时扭矩 Max. instantaneous torque	1,100mNm	3,750mNm	6,200mNm	6,200mNm
20	最大效率 Max. efficiency	89%	79%	70%	62%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	86	118	141	164
22	齿轮箱长度 L1[mm]=Lenght of gearbox	21.7	31.4	38	44.6

电机齿参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	孔径 Hole size
3.789	钢件 Steel	Z=19	4 ±0.1	Φ4.0 ^{+0.015} _{-0.035}
4.313		Z=16		Φ3.0 ^{+0.015} _{-0.035}
5.077		Z=13		Φ2.0 ^{+0.015} _{-0.035}
6.3		Z=10		



我司可根据客户要求设计和生产相关产品,可适配多类型电机。We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox 行星减速箱 ST32P2系列



通用基本信息 General & Basic information

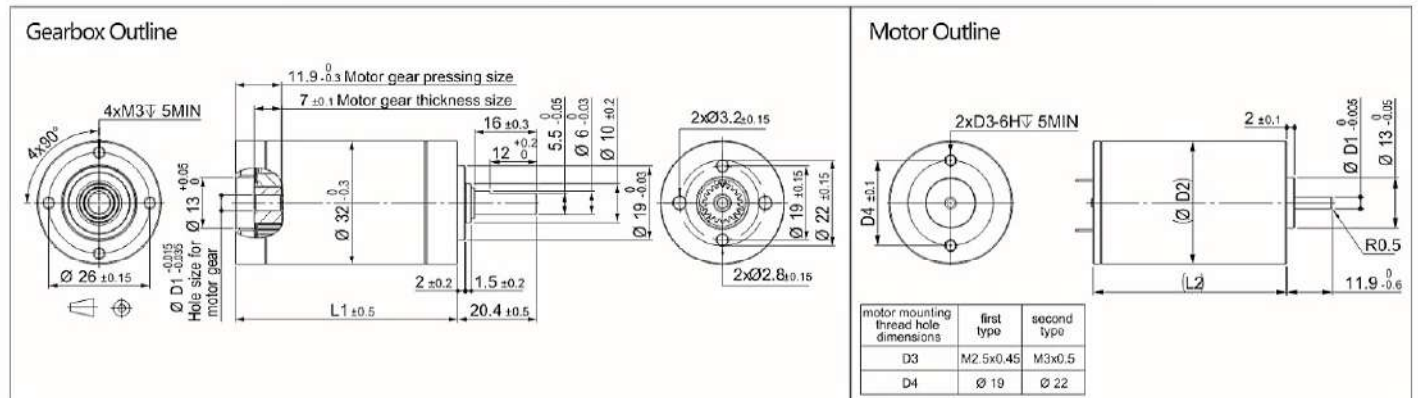
NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰10mm) Radial clearance(10mm from flange)	≤0.05mm
7	轴向间隙 Axial clearance	≤0.2mm
8	最大径向载荷(距法兰10mm) Max. radial load(10mm from flange)	≤120N
9	最大动态轴向载荷 Max. dynamic axial load	≤120N
10	最大允许安装力 Max. allowable installation force	≤200N
11	旋向(从驱动轮到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio	3.789 4.313 5.077 6.3	14.4 / 16.3 18.6 / 19.2 21.9 / 23.9 25.8 / 27.2 32.0 / 39.7	54.4 / 61.9 / 70.5 72.9 / 80.2 / 83.0 90.4 / 94.4 / 97.7 102.9 / 111.2 / 117.2 121.2 / 130.9 / 137.9 150.4 / 162.4 / 171.2 201.5 / 250.0	206 / 235 / 267 / 276 / 304 314 / 343 / 346 / 358 / 370 390 / 407 / 421 / 444 / 459 479 / 496 / 505 / 523 / 564 570 / 595 / 615 / 649 / 664 700 / 738 / 764 / 824 / 869 947 / 1023 / 1078 / 1269 / 1575
15	空载时齿轮回差 No-load gear backlash	1.1°	1.3°	1.5°	1.6°
16	最大连续输入转速 Max. continuous input speed	10,000rpm	12,000rpm	15,000rpm	18,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	12,000rpm	15,000rpm	20,000rpm	25,000rpm
18	最大连续扭矩 Max. continuous torque	1,000mNm	4,000mNm	8,000mNm	8,000mNm
19	最大瞬时扭矩 Max. instantaneous torque	1,500mNm	6,000mNm	12,000mNm	12,000mNm
20	最大效率 Max. efficiency	90%	81%	73%	65%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	135	177	219	259
22	齿轮箱长度 L1[mm]=Lenght of gearbox	28.1	37.8	47.5	57.2

电机齿参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	孔径 Hole size
3.789	钢件 Steel	Z=19	7 ±0.1	Φ3.0 ^{+0.015} _{-0.035} / Φ4.0 ^{+0.015} _{-0.035}
4.313		Z=16		
5.077		Z=13		
6.3		Z=10		Φ3.0 ^{+0.015} _{-0.035}



我司可根据客户要求设计和生产相关产品,可适配多类型电机。We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox
行星减速箱
ST36P2系列



通用基本信息 General & Basic information

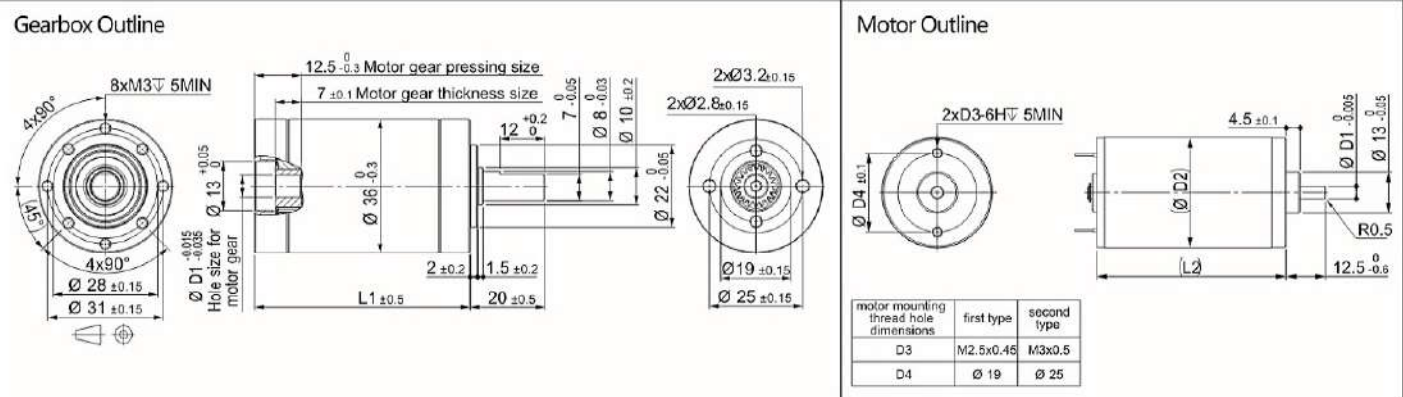
NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰10mm) Radial clearance(10mm from flange)	≤0.05mm
7	轴向间隙 Axial clearance	≤0.2mm
8	最大径向载荷(距法兰10mm) Max. radial load(10mm from flange)	≤200N
9	最大动态轴向载荷 Max. dynamic axial load	≤120N
10	最大允许安装力 Max. allowable installation force	≤120N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio	3.789 4.313 5.077 6.3	14.4 / 16.3 18.6 / 19.2 21.9 / 23.9 25.8 / 27.2 32.0 / 39.7	54.4 / 61.9 / 70.5 72.9 / 80.2 / 83.0 90.4 / 94.4 / 97.7 102.9 / 111.2 / 117.2 121.2 / 130.9 / 137.9 150.4 / 162.4 / 171.2 201.5 / 250.0	206 / 235 / 267 / 276 / 304 314 / 343 / 346 / 358 / 370 390 / 407 / 421 / 444 / 459 479 / 496 / 505 / 523 / 564 570 / 595 / 615 / 649 / 664 700 / 738 / 764 / 824 / 869 947 / 1023 / 1078 / 1269 / 1575
15	空载时齿轮回差 No-load gear backlash	1.0°	1.2°	1.4°	1.5°
16	最大连续输入转速 Max. continuous input speed	10,000rpm	1,200rpm	15,000rpm	15,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	12,000rpm	1,500rpm	20,000rpm	20,000rpm
18	最大连续扭矩 Max. continuous torque	1,000mNm	4,000mNm	8,000mNm	8,000mNm
19	最大瞬时扭矩 Max. instantaneous torque	1,500mNm	6,000mNm	12,000mNm	12,000mNm
20	最大效率 Max. efficiency	90%	81%	73%	65%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	184	239	294	347
22	齿轮箱长度 L1[mm]=Lenght of gearbox	28.7	38.4	48.1	57.8

电机齿参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	孔径 Hole size
3.789	钢件 Steel	Z=19	7±0.1	Φ3.175 ^{+0.015} _{-0.035} / Φ6.0 ^{+0.015} _{-0.035}
4.313		Z=16		Φ3.175 ^{+0.015} _{-0.035}
5.077		Z=13		
6.3		Z=10		



我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox

行星减速箱

ST42P3系列



通用基本信息 General & Basic information

NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	直齿 Straight
3	齿材料 Teeth material	钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰12mm) Radial clearance(12mm from flange)	≤0.06mm
7	轴向间隙 Axial clearance	≤0.2mm
8	最大径向载荷(距法兰12mm) Max. radial load(12mm from flange)	≤300N
9	最大动态轴向载荷 Max. dynamic axial load	≤150N
10	最大允许安装力 Max. allowable installation force	≤300N
11	旋向(从驱动轮到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

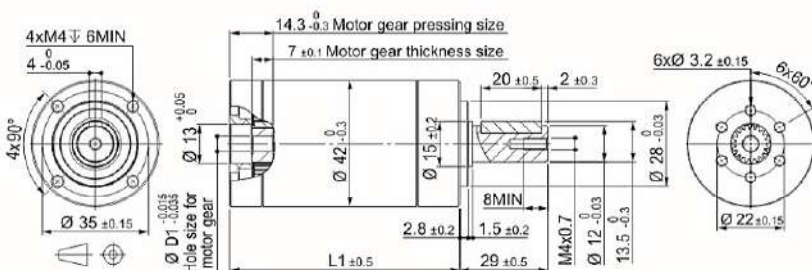
技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio	3.789 4.313 5.077 6.3	14.4 / 16.3 18.6 / 19.2 21.9 / 23.9 25.8 / 27.2 32.0 / 39.7	54.4 / 61.9 / 70.5 72.9 / 80.2 / 83.0 90.4 / 94.4 / 97.7 102.9 / 111.2 / 117.2 121.2 / 130.9 / 137.9 150.4 / 162.4 / 171.2 201.5 / 250.0	206 / 235 / 267 / 276 / 304 314 / 343 / 346 / 358 / 370 390 / 407 / 421 / 444 / 459 479 / 496 / 505 / 523 / 564 570 / 595 / 615 / 649 / 664 700 / 738 / 764 / 824 / 869 947 / 1023 / 1078 / 1269 / 1575
15	空载时齿轮回差 No-load gear backlash	1.0°	1.2°	1.4°	1.5°
16	最大连续输入转速 Max. continuous input speed	10000rpm	12000rpm	15000rpm	15000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	12000rpm	15000rpm	20000rpm	20000rpm
18	最大连续扭矩 Max. continuous torque	3000mNm	7500mNm	15000mNm	15000mNm
19	最大瞬时扭矩 Max. instantaneous torque	4500mNm	11250mNm	22500mNm	22500mNm
20	最大效率 Max. efficiency	90%	81%	73%	65%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	364	474	566	652
22	齿轮箱长度 L1[mm]=Lenght of gearbox	38.5	52.9	64.3	75.7

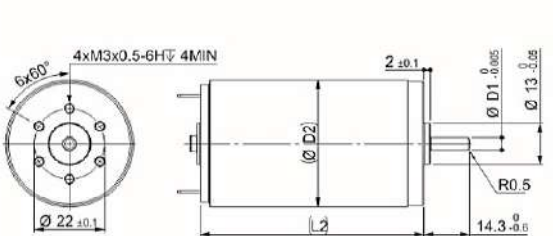
电机齿参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	孔径 Hole size
3.789	钢件 Steel	Z=19	7 ±0.1	Φ5.0 ^{+0.015} _{-0.035} / Φ6.0 ^{+0.015} _{-0.035}
4.313		Z=16		
5.077		Z=13		Φ5.0 ^{+0.015} _{-0.035}
6.3		Z=10		Φ3.5 ^{+0.015} _{-0.035}

Gearbox Outline



Motor Outline



我司可根据客户要求设计和生产相关产品,可适配多类型电机。We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox

行星减速箱

ST52PH系列



通用基本信息 General & Basic information

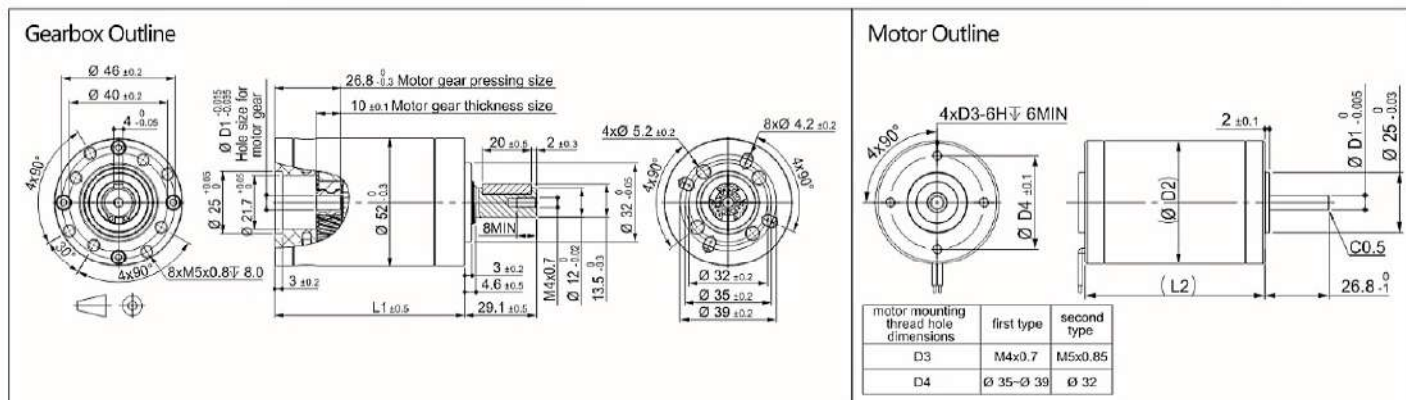
NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	首段斜齿轮 Helical gears in 1st stage
3	齿材料 Teeth material	塑胶 Plastic / 钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰15mm) Radial clearance(15mm from flange)	≤0.06mm
7	轴向间隙 Axial clearance	≤0.5mm
8	最大径向载荷(距法兰15mm) Max. radial load(15mm from flange)	≤300N
9	最大动态轴向载荷 Max. dynamic axial load	≤150N
10	最大允许安装力 Max. allowable installation force	≤300N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio	3.789 4.313 5.077 6.3	14.4 / 16.3 18.6 / 19.2 21.9 / 23.9 25.8 / 27.2 32.0 / 39.7	54.4 / 61.9 / 70.5 72.9 / 80.2 / 83.0 90.4 / 94.4 / 97.7 102.9 / 111.2 / 117.2 121.2 / 130.9 / 137.9 150.4 / 162.4 / 171.2 201.5 / 250.0	206 / 235 / 267 / 276 / 304 314 / 343 / 346 / 358 / 370 390 / 407 / 421 / 444 / 459 479 / 496 / 505 / 523 / 564 570 / 595 / 615 / 649 / 664 700 / 738 / 764 / 824 / 869 947 / 1023 / 1078 / 1269 / 1575
15	空载时齿间回差 No-load gear backlash	1.2°	1.4°	1.6°	1.7°
16	最大连续输入转速 Max. continuous input speed	6,000rpm	6,000rpm	6,000rpm	6,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	8,000rpm	8,000rpm	8,000rpm	8,000rpm
18	最大连续扭矩 Max. continuous torque	2,000mNm	5,000mNm	25,000mNm	25,000mNm
19	最大瞬时扭矩 Max. instantaneous torque	3,000mNm	7,500mNm	37,500mNm	37,500mNm
20	最大效率 Max. efficiency	85%	77%	69%	62%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	465	622	779	936
22	齿轮箱长度 L1[mm]=Length of gearbox	49.2	64.6	77	89.4

电机齿参数 Motor pinion specifications

初段减速比 Initial deceleration ratio	材料 Material	齿数 Number of teeth	厚度 Thickness	孔径 Hole size
3.789	钢件 Steel	Z=19	10 ±0.1	Φ6.0 ^{+0.015} _{-0.005}
4.313		Z=16		
5.077		Z=13		
6.3		Z=10		Φ4.0 ^{+0.015} _{-0.035}



我司可根据客户要求设计和生产相关产品,可适配多类型电机。We can design and produce products according to customers' requirements. Our products can be adapted to many types of motors.

Planetary gearbox
行星减速箱
ST62PH系列



通用基本信息 General & Basic information

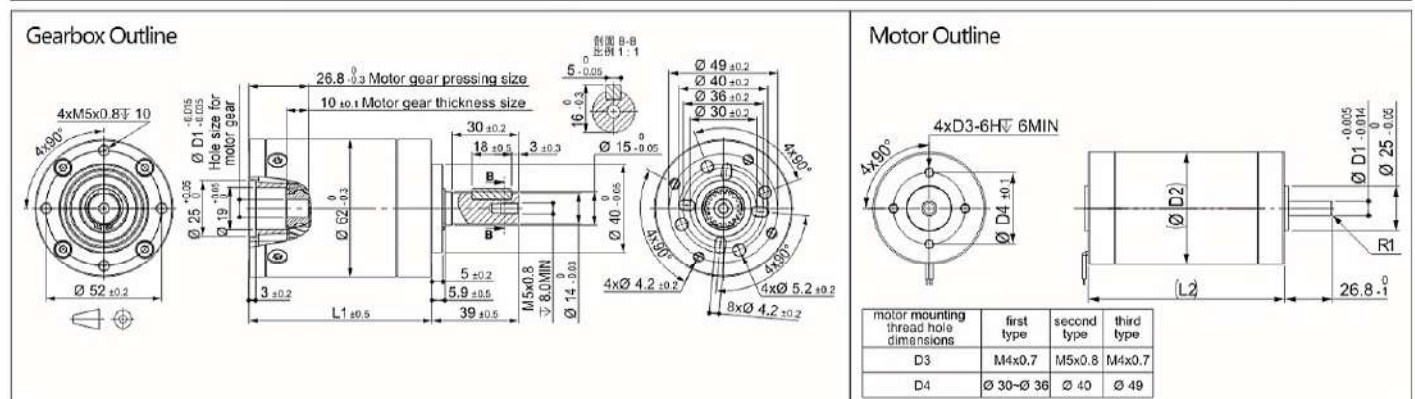
NO.	描述 Description	值 Value
1	外壳材质 Housing material	金属 Metal
2	齿种类 Type of teeth	首段斜齿轮 Helical gears in 1st stage
3	齿材料 Teeth material	塑胶 Plastic / 钢件 Steel
4	输出轴材料 Output shaft material	不锈钢 Stainless Steel
5	输出端轴承 Output end bearing	滚珠轴承 Ball Bearing
6	径向间隙(距法兰15mm) Radial clearance(15mm from flange)	≤0.08mm
7	轴向间隙 Axial clearance	≤0.5mm
8	最大径向载荷(距法兰15mm) Max. radial load(15mm from flange)	≤350N
9	最大动态轴向载荷 Max. dynamic axial load	≤200N
10	最大允许安装力 Max. allowable installation force	≤600N
11	旋向(从驱动器到输出) Direction(from the driver to output)	Same
12	工作温度范围 Operating temperature range	-40°C to +100°C

技术参数 Technical Data

NO.	描述 Description	值 Value			
13	齿轮级数 Number of gear stages	1	2	3	4
14	减速比 Reduction ratio			54.4 / 61.9 / 70.5	206 / 235 / 267 / 276 / 304
		3.789	14.4 / 16.3	72.9 / 80.2 / 83.0	314 / 343 / 346 / 358 / 370
		4.313	18.6 / 19.2	90.4 / 94.4 / 97.7	390 / 407 / 421 / 444 / 459
		5.077	21.9 / 23.9	102.9 / 111.2 / 117.2	479 / 496 / 505 / 523 / 564
		6.3	25.8 / 27.2	121.2 / 130.9 / 137.9	570 / 595 / 615 / 649 / 664
		32.0 / 39.7	150.4 / 162.4 / 171.2	700 / 738 / 764 / 824 / 869	
			201.5 / 250.0	947 / 1023 / 1078 / 1269 / 1575	
15	空载时齿轮回差 No-load gear backlash	1.0°	1.2°	1.4°	1.5°
16	最大连续输入转速 Max. continuous input speed	6,000rpm	6,000rpm	6,000rpm	6,000rpm
17	最大瞬时输入转速 Max. instantaneous input speed	8,000rpm	8,000rpm	8,000rpm	8,000rpm
18	最大连续扭矩 Max. continuous torque	3,000mNm	8,000mNm	50,000mNm	50,000mNm
19	最大瞬时扭矩 Max. instantaneous torque	4,500mNm	12,000mNm	75,000mNm	75,000mNm
20	最大效率 Max. efficiency	85%	77%	69%	62%
21	齿轮箱重量参考值(g) Weight reference value of gearbox	699	983	1237	1492
22	齿轮箱长度 L1[mm]=Lenght of gearbox	53.5	68.9	82.3	95.7

电机齿参数 Motor pinion specifications

初段減速比 Initial deceleration ratio	材料 Material	歯数 Number of teeth	厚度 Thickness	孔径 Hole size
3.789	鋼件 Steel	Z=19	10 ±0.1	Φ8.0 ^{-0.015} _{-0.036}
4.313		Z=16		Φ7.0 ^{-0.015} _{-0.036}
5.077		Z=13		
6.3		Z=10		



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Micro precision planetary gear motor

— 微型精密行星减速电机 —





DCcoreless & brushed planetary gearmotor

直流有刷空心杯行星减速电机

ST4.3P 系列

单体电机参数表
 Specifications of DC motor

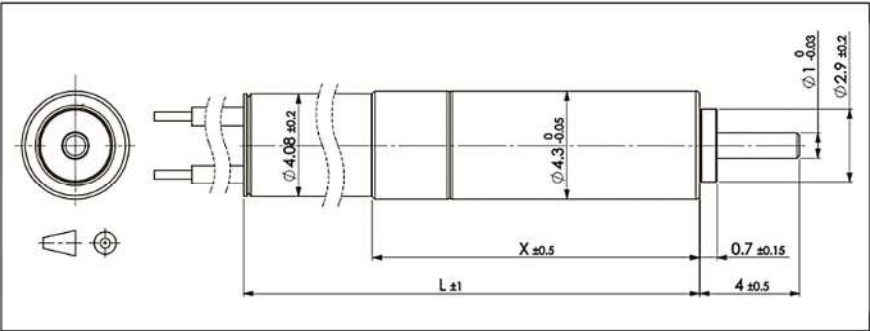
1	工作电压 Nominal voltage	3V DC	4.5V DC
2	空载电流 No load current	20 mA	15 mA
3	空载转速 No load speed	36000 RPM	36000 RPM
4	额定电流 Rated current	64 mA	45 mA
5	额定转速 Rated speed	27818 RPM	27818 RPM
6	额定扭矩 Rated torque	0.025 mNm	0.025 mNm
7	堵转电流 Stall current	159 mA	106 mA
8	堵转扭矩 Stall torque	0.11 mNm	0.11 mNm
9	最大效率 Max. efficiency	60.0%	60.0%
10	环境温度 Ambient temperature	-10°C~+50°C	
11	输出端轴承 Output end bearing	Ball bearing 滚珠轴承	
12	电刷种类 Type of brush	Metal brush 金属刷	

齿轮电机在3VDC下的参数表
 Specifications of gearmotor under 3VDC

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4.25:1	64 mA	6545 RPM	0.085 mNm	85 mA	0.128 mNm	
2	18.1:1	64 mA	1540 RPM	0.289 mNm	85 mA	0.434 mNm	
3	76.8:1	64 mA	362 RPM	0.983 mNm	85 mA	1.474 mNm	
4	326:1	64 mA	85 RPM	3.341 mNm	85 mA	5.011 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4.25:1	45 mA	6545 RPM	0.085 mNm	60 mA	0.128 mNm	
2	18.1:1	45 mA	1540 RPM	0.289 mNm	60 mA	0.434 mNm	
3	76.8:1	45 mA	362 RPM	0.983 mNm	60 mA	1.474 mNm	
4	326:1	45 mA	85 RPM	3.341 mNm	60 mA	5.011 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	68	18.8
2	89	20.9
3	11	23
4	13.1	25.1

我司可根据客户要求设计和生产相关产品,可适配多类型电机。
 We can design and produce products according to customers' requirements.

DCcoreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST5.8P 系列



单体电机参数表 Specifications of DC motor

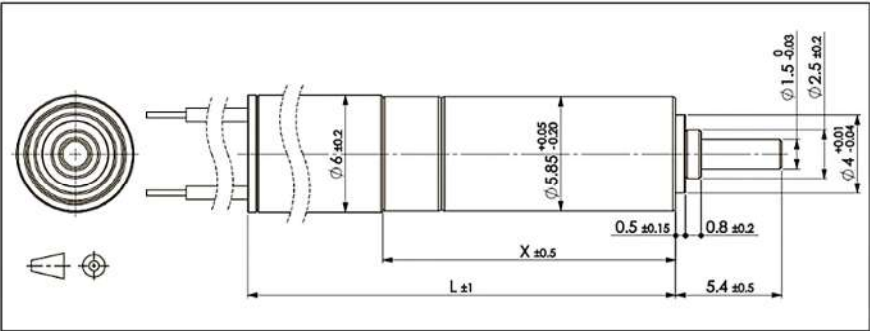
1	工作电压 Nominal voltage	3V DC	4.5V DC
2	空载电流 No load current	50 mA	35 mA
3	空载转速 No load speed	25000 RPM	25000 RPM
4	额定电流 Rated current	160 mA	110 mA
5	额定转速 Rated speed	21063 RPM	21063 RPM
6	额定扭矩 Rated torque	0.1 mNm	0.1 mNm
7	堵转电流 Stall current	635 mA	423 mA
8	堵转扭矩 Stall torque	0.635 mNm	0.635 mNm
9	最大效率 Max. efficiency	60.0%	60.0%
10	环境温度 Ambient temperature	-10°C~+50°C	
11	输出端轴承 Output end bearing	Ball bearing 滚珠轴承	
12	电刷种类 Type of brush	Metal brush 金属刷	

齿轮电机在3VDC下的参数表 Specifications of gearmotor under 3VDC

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4:1	160 mA	5266 RPM	0.32 mNm	220 mA	0.48 mNm	
2	16:1	160 mA	1316 RPM	1.02 mNm	220 mA	1.53 mNm	
3	64:1	160 mA	329 RPM	3.28 mNm	220 mA	4.92mNm	
4	256:1	160 mA	82 RPM	10.49 mNm	220 mA	15.74 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4:1	110 mA	5266 RPM	0.32 mNm	150 mA	0.48 mNm	
2	16:1	110 mA	1316 RPM	1.02 mNm	150 mA	1.53 mNm	
3	64:1	110 mA	329 RPM	3.28 mNm	150 mA	4.92mNm	
4	256:1	110 mA	82 RPM	10.49 mNm	150 mA	15.74 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	8.8	22.8
2	10.85	24.85
3	12.9	26.9
4	14.95	28.95

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

DC coreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST8P2系列



单体电机参数表 Specifications of DC motor

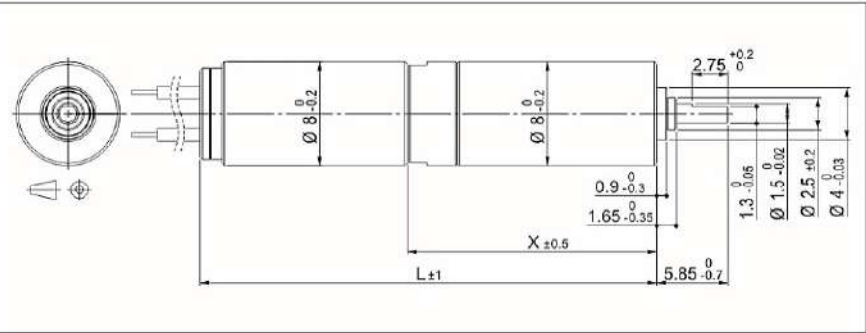
1	工作电压 Nominal voltage	3V DC	5V DC
2	空载电流 No load current	25 mA	15 mA
3	空载转速 No load speed	9000 RPM	9000 RPM
4	额定电流 Rated current	225 mA	135 mA
5	额定转速 Rated speed	5000 RPM	5000 RPM
6	额定扭矩 Rated torque	0.49 mNm	0.49 mNm
7	堵转电流 Stall current	400 mA	240 mA
8	堵转扭矩 Stall torque	1.1 mNm	1.1 mNm
9	最大效率 Max. efficiency	60.0%	60.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	金属刷 metal brush	

齿轮电机在3VDC下的参数表 Specifications of gearmotor under 3VDC

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4.636:1	225 mA	1079 RPM	1.8 mNm	320 mA	2.7 mNm	
2	21.5:1	225 mA	233 RPM	6.7 mNm	320 mA	10.1 mNm	
3	99.6:1	225 mA	50 RPM	25 mNm	320 mA	37.5 mNm	
4	462:1	200 mA	12 RPM	80 mNm	285 mA	120 mNm	
5	2141:1	70 mA	3.6 RPM	100 mNm	115 mA	150 mNm	

齿轮电机在5VDC下的参数表 Specifications of gearmotor under 5VDC

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4.636:1	135 mA	1079 RPM	1.8 mNm	200 mA	2.7 mNm	
2	21.5:1	135 mA	233 RPM	6.7 mNm	200 mA	10.1 mNm	
3	99.6:1	135 mA	50 RPM	25 mNm	200 mA	37.5 mNm	
4	461.9:1	120 mA	12 RPM	80 mNm	170 mA	120 mNm	
5	2141.5:1	50 mA	3.6 RPM	100 mNm	68 mA	150 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	9.2	25.2
2	11.7	27.7
3	14.2	30.2
4	16.7	32.7
5	19.2	35.2

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

BLDC & coreless planetary gearmotor 直流无刷空心杯行星减速电机

ST10P2系列



单体电机参数表 Specifications of DC motor

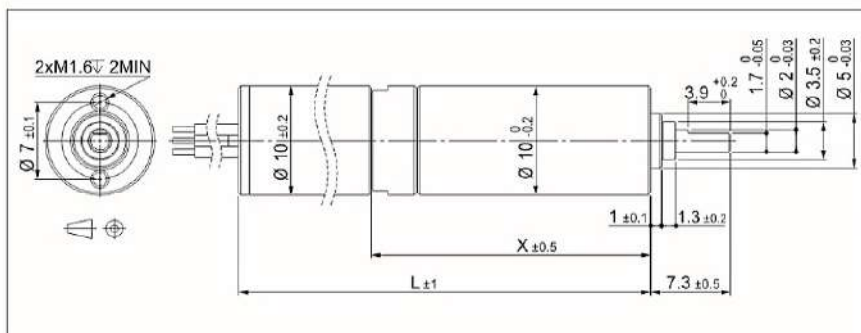
1	工作电压 Nominal voltage	6V DC	12V DC
2	空载电流 No load current	68 mA	34 mA
3	空载转速 No load speed	16415 RPM	16415 RPM
4	额定电流 Rated current	236 mA	118 mA
5	额定转速 Rated speed	13509 RPM	13509 RPM
6	额定扭矩 Rated torque	0.5 mNm	0.5 mNm
7	堵转电流 Stall current	900 mA	450 mA
8	堵转扭矩 Stall torque	2.82 mNm	2.82 mNm
9	最大效率 Max. efficiency	60.0%	60.0%
10	环境温度 Ambient temperature	-20 °C~+60 °C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	驱动种类 Type of controller	无刷电机的驱动器为选配 The controller for BLDC motor is optional	

齿轮电机在6VDC下的参数表 Specifications of gearmotor under 6VDC

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4:1	236 mA	3377 RPM	1.6 mNm	328 mA	2.4 mNm	
2	16:1	236 mA	844 RPM	5.1 mNm	328 mA	7.7 mNm	
3	64:1	236 mA	211 RPM	16.4 mNm	328 mA	24.6 mNm	
4	256:1	236 mA	53 RPM	52.4 mNm	328 mA	78.6 mNm	
5	1024:1	236 mA	13.2 RPM	168 mNm	328 mA	252 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4:1	118 mA	3377 RPM	1.6 mNm	164 mA	2.4 mNm	
2	16:1	118 mA	844 RPM	5.1 mNm	164 mA	7.7 mNm	
3	64:1	118 mA	211 RPM	16.4 mNm	164 mA	24.6 mNm	
4	256:1	118 mA	53 RPM	52.4 mNm	164 mA	78.6 mNm	
5	1024:1	118 mA	13.2 RPM	168 mNm	164 mA	252 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	11.5	36.5
2	15.0	40.0
3	18.5	43.5
4	22.0	47.0
5	25.5	50.5

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

Dccoreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST10P2系列



单体电机参数表 Specifications of DC motor

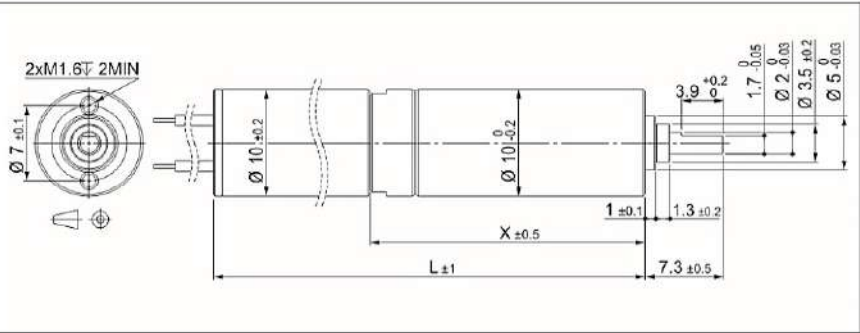
1	工作电压 Nominal voltage	3V DC	5V DC
2	空载电流 No load current	55 mA	35 mA
3	空载转速 No load speed	10000 RPM	10000 RPM
4	额定电流 Rated current	380 mA	230 mA
5	额定转速 Rated speed	7700 RPM	7700 RPM
6	额定扭矩 Rated torque	0.79 mNm	0.79 mNm
7	堵转电流 Stall current	1250 mA	760 mA
8	堵转扭矩 Stall torque	3.4 mNm	3.4 mNm
9	最大效率 Max. efficiency	70.0%	70.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	金属刷 metal brush	

齿轮电机在3VDC下的参数表 Specifications of gearmotor under 3VDC

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4:1	380 mA	1925 RPM	2.5 mNm	545 mA	3.8 mNm	
2	16:1	380 mA	481 RPM	8.1 mNm	545 mA	12.1 mNm	
3	64:1	380 mA	120 RPM	25.9 mNm	545 mA	38.8 mNm	
4	256:1	380 mA	30 RPM	82.8 mNm	545 mA	124.3 mNm	
5	1024:1	380 mA	7.5 RPM	265 mNm	545 mA	397.5 mNm	

齿轮电机在5VDC下的参数表 Specifications of gearmotor under 5VDC

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4:1	230 mA	1925 RPM	2.5 mNm	330 mA	3.8 mNm	
2	16:1	230 mA	481 RPM	8.1 mNm	330 mA	12.1 mNm	
3	64:1	230 mA	120 RPM	25.9 mNm	330 mA	38.8 mNm	
4	256:1	230 mA	30 RPM	82.8 mNm	330 mA	124.3 mNm	
5	1024:1	230 mA	7.5 RPM	265 mNm	330 mA	397.5 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	11.5	31.5
2	15.0	35.0
3	18.5	38.5
4	22.0	42.0
5	25.5	45.5

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

BLDC & coreless planetary gearmotor 直流无刷空心杯行星减速电机

ST12P2系列



单体电机参数表 Specifications of DC motor

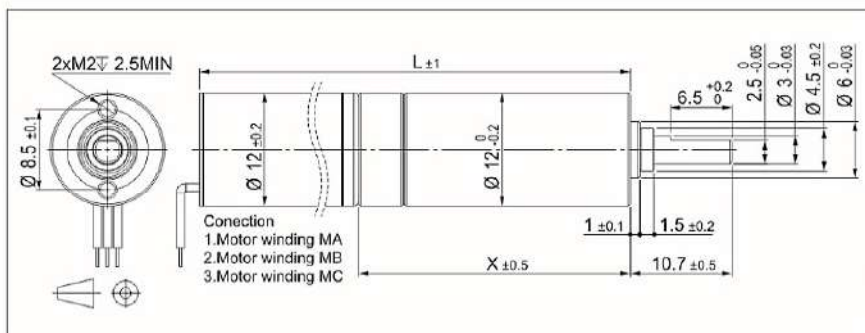
1	工作电压 Nominal voltage	6V DC	12V DC
2	空载电流 No load current	250 mA	125 mA
3	空载转速 No load speed	25310 RPM	25310 RPM
4	额定电流 Rated current	1760 mA	880 mA
5	额定转速 Rated speed	20719 RPM	20719 RPM
6	额定扭矩 Rated torque	3 mNm	3 mNm
7	堵转电流 Stall current	7320 mA	3660 mA
8	堵转扭矩 Stall torque	16.5 mNm	16.5 mNm
9	最大效率 Max. efficiency	75.0%	75.0%
10	环境温度 Ambient temperature	-20 °C~+60 °C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	驱动种类 Type of controller	无刷电机的驱动器为选配 The controller for BLDC motor is optional	

齿轮电机在6VDC下的参数表 Specifications of gearmotor under 6VDC

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4:1	1760 mA	5180 RPM	9.6 mNm	2540 mA	14.4 mNm	
2	16:1	1760 mA	1295 RPM	30.7 mNm	2540 mA	46.1 mNm	
3	64:1	1760 mA	324 RPM	98.3 mNm	2540 mA	147.5 mNm	
4	256:1	1690 mA	82 RPM	300 mNm	2410 mA	450 mNm	
5	1024:1	820 mA	23 RPM	400 mNm	1150 mA	600 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4:1	880 mA	5180 RPM	9.6 mNm	1270 mA	14.4 mNm	
2	16:1	880 mA	1295 RPM	30.7 mNm	1270 mA	46.1 mNm	
3	64:1	880 mA	324 RPM	98.3 mNm	1270 mA	147.5 mNm	
4	256:1	845 mA	82 RPM	300 mNm	1205 mA	450 mNm	
5	1024:1	410 mA	23 RPM	400 mNm	575 mA	600 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	13.2	43.2
2	17.05	47.05
3	20.9	50.9
4	24.75	54.75
5	28.6	58.6

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

Dccoreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST12P2 系列



单体电机参数表 Specifications of DC motor

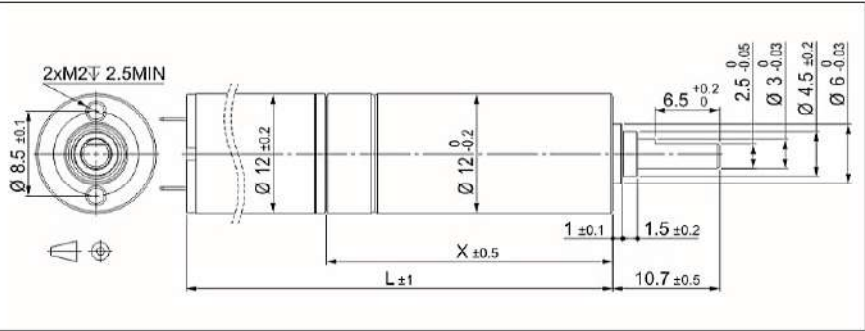
1	工作电压 Nominal voltage	6V DC	12V DC
2	空载电流 No load current	190 mA	95 mA
3	空载转速 No load speed	18000 RPM	18000 RPM
4	额定电流 Rated current	880 mA	440 mA
5	额定转速 Rated speed	16000 RPM	16000 RPM
6	额定扭矩 Rated torque	1.95 mNm	1.95 mNm
7	堵转电流 Stall current	5540 mA	2770 mA
8	堵转扭矩 Stall torque	17.55 mNm	17.55 mNm
9	最大效率 Max. efficiency	75.0%	75.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	金属刷 metal brush	

齿轮电机在6VDC下的参数表 Specifications of gearmotor under 6VDC

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4:1	880 mA	4000 RPM	6.24 mNm	1230 mA	9.36 mNm	
2	16:1	880 mA	1000 RPM	19.97 mNm	1230 mA	29.96 mNm	
3	64:1	880 mA	250 RPM	63.9 mNm	1230 mA	95.8 mNm	
4	256:1	880 mA	62.5 RPM	204.5 mNm	1230 mA	306.8 mNm	
5	1024:1	615 mA	16.4 RPM	400 mNm	825 mA	600 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	4:1	440 mA	4000 RPM	6.24 mNm	620 mA	9.36 mNm	
2	16:1	440 mA	1000 RPM	19.97 mNm	620 mA	29.96 mNm	
3	64:1	440 mA	250 RPM	63.9 mNm	620 mA	95.8 mNm	
4	256:1	440 mA	62.5 RPM	204.5 mNm	620 mA	306.8 mNm	
5	1024:1	300 mA	16.4 RPM	400 mNm	410 mA	600 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	13.2	43.2
2	17.05	47.05
3	20.9	50.9
4	24.75	54.75
5	28.6	58.6

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BLDC & coreless planetary gearmotor 直流无刷空心杯行星减速电机

ST16P2 系列



单体电机参数表 Specifications of DC motor

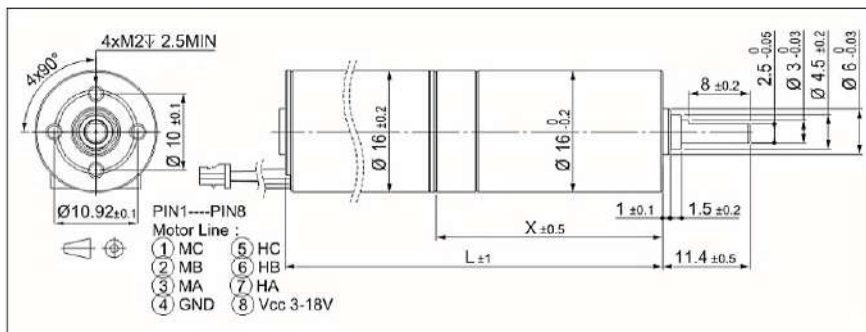
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	170 mA	85 mA
3	空载转速 No load speed	13200 RPM	13200 RPM
4	额定电流 Rated current	678 mA	339 mA
5	额定转速 Rated speed	11350 RPM	11350 RPM
6	额定扭矩 Rated torque	4 mNm	4 mNm
7	堵转电流 Stall current	3330 mA	1665 mA
8	堵转扭矩 Stall torque	28.5 mNm	28.5 mNm
9	最大效率 Max. efficiency	70.0%	70.0%
10	环境温度 Ambient temperature	-20 °C~+60 °C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	驱动种类 Type of controller	无刷电机的驱动器为选配 The controller for BLDC motor is optional	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	678 mA	2996 RPM	12.9 mNm	948 mA	19.4 mNm	
1	4.313:1	678 mA	2632 RPM	14.7 mNm	948 mA	22 mNm	
1	5.077:1	678 mA	2236 RPM	17.3 mNm	948 mA	26 mNm	
2	14.4:1	678 mA	788 RPM	41.6 mNm	948 mA	62 mNm	
2	25.8:1	678 mA	440 RPM	74.6 mNm	948 mA	120 mNm	
2	39.7:1	678 mA	286 RPM	115 mNm	948 mA	173 mNm	
3	80.2:1	678 mA	142 RPM	197 mNm	948 mA	296 mNm	
3	111.2:1	678 mA	102 RPM	273 mNm	948 mA	410 mNm	
3	130.9:1	678 mA	87 RPM	322 mNm	948 mA	483 mNm	
3	250:1	678 mA	45 RPM	614 mNm	948 mA	921 mNm	
4	304:1	678 mA	37 RPM	635 mNm	948 mA	953 mNm	
4	346:1	678 mA	32.8 RPM	722 mNm	948 mA	1083 mNm	
4	407:1	678 mA	27.9 RPM	850 mNm	948 mA	1275 mNm	
4	664:1	527 mA	17 RPM	1000 mNm	721 mA	1500 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	334 mA	2996 RPM	12.9 mNm	474 mA	19.4 mNm	
1	4.313:1	334 mA	2632 RPM	14.7 mNm	474 mA	22 mNm	
1	5.077:1	334 mA	2236 RPM	17.3 mNm	474 mA	26 mNm	
2	14.4:1	334 mA	788 RPM	41.6 mNm	474 mA	62 mNm	
2	25.8:1	334 mA	440 RPM	74.6 mNm	474 mA	120 mNm	
2	39.7:1	334 mA	286 RPM	115 mNm	474 mA	173 mNm	
3	80.2:1	334 mA	142 RPM	197 mNm	474 mA	296 mNm	
3	111.2:1	334 mA	102 RPM	273 mNm	474 mA	410 mNm	
3	130.9:1	334 mA	87 RPM	322 mNm	474 mA	483 mNm	
3	250:1	334 mA	45 RPM	614 mNm	474 mA	921 mNm	
4	304:1	334 mA	37 RPM	635 mNm	474 mA	953 mNm	
4	346:1	334 mA	32.8 RPM	722 mNm	474 mA	1083 mNm	
4	407:1	334 mA	27.9 RPM	850 mNm	474 mA	1275 mNm	
4	664:1	263 mA	17 RPM	1000 mNm	361 mA	1500 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	13.6	49.2
2	17.6	53.2
3	21.6	57.2
4	25.6	61.2

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

Dccoreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST16P2 系列



单体电机参数表 Specifications of DC motor

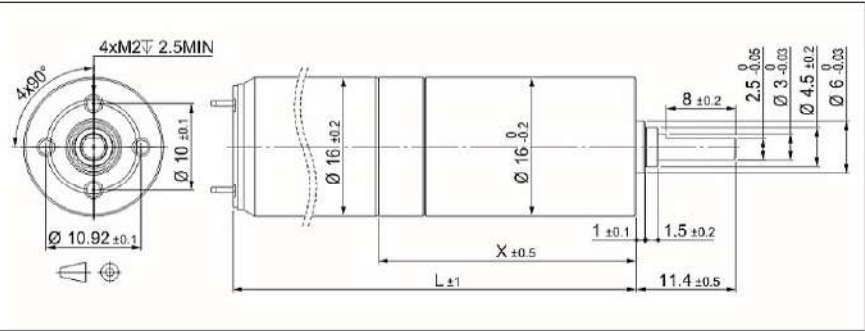
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	110mA	55mA
3	空载转速 No load speed	13000RPM	13000RPM
4	额定电流 Rated current	734mA	367mA
5	额定转速 Rated speed	11300RPM	11300RPM
6	额定扭矩 Rated torque	5mNm	5mNm
7	堵转电流 Stall current	4196mA	2098mA
8	堵转扭矩 Stall torque	38.23mNm	38.23mNm
9	最大效率 Max. efficiency	80.0%	80.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	金属刷 metal brush	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	734 mA	2982 RPM	16.2 mNm	1057 mA	24.3 mNm	
1	4.313:1	734 mA	2620 RPM	18.3 mNm	1057 mA	27.5 mNm	
1	5.077:1	734 mA	2226 RPM	21.6 mNm	1057 mA	32.4 mNm	
2	14.4:1	734 mA	785 RPM	52 mNm	1057 mA	78 mNm	
2	25.8:1	734 mA	438 RPM	93 mNm	1057 mA	140 mNm	
2	40:1	734 mA	283 RPM	145 mNm	1057 mA	218 mNm	
3	80.2:1	734 mA	141 RPM	246 mNm	1057 mA	369 mNm	
3	111:1	734 mA	102 RPM	341 mNm	1057 mA	512 mNm	
3	130.8:1	734 mA	86 RPM	402 mNm	1057 mA	603 mNm	
3	250:1	734 mA	45 RPM	768 mNm	1057 mA	1152 mNm	
4	304:1	734 mA	37 RPM	793 mNm	1057 mA	1190 mNm	
4	345.9:1	734 mA	33 RPM	903 mNm	1057 mA	1355 mNm	
4	407:1	697 mA	28 RPM	1000 mNm	1001 mA	1500 mNm	
4	664:1	462 mA	18 RPM	1000 mNm	648 mA	1500 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	367 mA	2982 RPM	16.2 mNm	529 mA	24.3 mNm	
1	4.313:1	367 mA	2620 RPM	18.3 mNm	529 mA	27.5 mNm	
1	5.077:1	367 mA	2226 RPM	21.6 mNm	529 mA	32.4 mNm	
2	14.4:1	367 mA	785 RPM	52 mNm	529 mA	78 mNm	
2	25.8:1	367 mA	438 RPM	93 mNm	529 mA	140 mNm	
2	40:1	367 mA	283 RPM	145 mNm	529 mA	218 mNm	
3	80.2:1	367 mA	141 RPM	246 mNm	529 mA	369 mNm	
3	111:1	367 mA	102 RPM	341 mNm	529 mA	512 mNm	
3	130.8:1	367 mA	86 RPM	402 mNm	529 mA	603 mNm	
3	250:1	367 mA	45 RPM	768 mNm	529 mA	1152 mNm	
4	304:1	367 mA	37 RPM	793 mNm	529 mA	1190 mNm	
4	345.9:1	367 mA	33 RPM	903 mNm	529 mA	1355 mNm	
4	407:1	349 mA	28 RPM	1000 mNm	501 mA	1500 mNm	
4	664:1	231 mA	18 RPM	1000 mNm	324 mA	1500 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	13.6	55.6
2	17.6	59.6
3	21.6	63.6
4	25.6	67.6

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

BLDC & coreless planetary gearmotor 直流无刷空心杯行星减速电机

ST22P2 系列



单体电机参数表 Specifications of DC motor

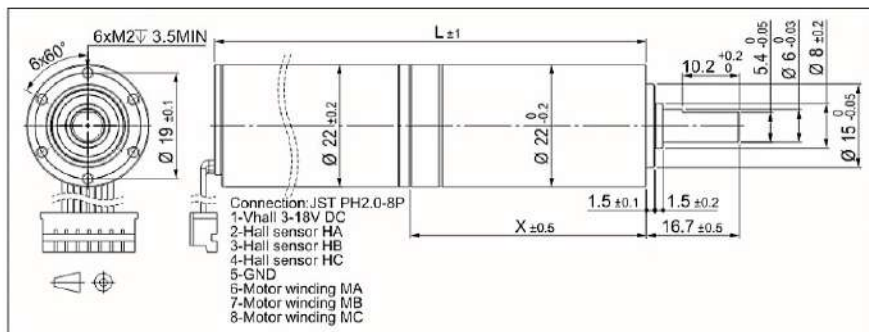
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	590 mA	295mA
3	空载转速 No load speed	12930 RPM	12930 RPM
4	额定电流 Rated current	2856 mA	1428 mA
5	额定转速 Rated speed	11413 RPM	11413 RPM
6	额定扭矩 Rated torque	18 mNm	18 mNm
7	堵转电流 Stall current	17.4 A	8.7 A
8	堵转扭矩 Stall torque	153 mNm	153 mNm
9	最大效率 Max. efficiency	75.0%	75.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	驱动种类 Type of controller	无刷电机的驱动器为选配 The controller for BLDC motor is optional	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	2856 mA	3012 RPM	58 mNm	4062 mA	87 mNm	
1	4.313:1	2856 mA	2646 RPM	66 mNm	4062 mA	99 mNm	
1	5.077:1	2856 mA	2248 RPM	78 mNm	4062 mA	117 mNm	
2	14.4:1	2856 mA	793 RPM	187 mNm	4062 mA	281 mNm	
2	25.8:1	2856 mA	442 RPM	336 mNm	4062 mA	504 mNm	
2	39.7:1	2856 mA	287 RPM	516 mNm	4062 mA	774 mNm	
3	80.2:1	2856 mA	142 RPM	887 mNm	4062 mA	1330 mNm	
3	111.2:1	2856 mA	103 RPM	1229 mNm	4062 mA	1844 mNm	
3	130.9:1	2856 mA	87 RPM	1447 mNm	4062 mA	2171mNm	
3	250:1	2203 mA	47 RPM	2000 mNm	3069 mA	3000 mNm	
4	304:1	2147 mA	39 RPM	2000 mNm	2985 mA	3000 mNm	
4	346:1	1944 mA	34.7 RPM	2000 mNm	2680 mA	3000 mNm	
4	407:1	1723 mA	29.8 RPM	2000 mNm	2349 mA	3000 mNm	
4	664:1	1239 mA	18.7 RPM	2000 mNm	1622 mA	3000 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	1428 mA	3012 RPM	58 mNm	2031 mA	87 mNm	
1	4.313:1	1428 mA	2646 RPM	66 mNm	2031 mA	99 mNm	
1	5.077:1	1428 mA	2248 RPM	78 mNm	2031 mA	117 mNm	
2	14.4:1	1428 mA	793 RPM	187 mNm	2031 mA	281 mNm	
2	25.8:1	1428 mA	442 RPM	336 mNm	2031 mA	504 mNm	
2	39.7:1	1428 mA	287 RPM	516 mNm	2031 mA	774 mNm	
3	80.2:1	1428 mA	142 RPM	887 mNm	2031 mA	1330 mNm	
3	111.2:1	1428 mA	103 RPM	1229 mNm	2031 mA	1844 mNm	
3	130.9:1	1428 mA	87 RPM	1447 mNm	2031 mA	2171mNm	
3	250:1	1102 mA	47 RPM	2000 mNm	1535 mA	3000 mNm	
4	304:1	1074 mA	39 RPM	2000 mNm	1492 mA	3000 mNm	
4	346:1	972 mA	34.7 RPM	2000 mNm	1340 mA	3000 mNm	
4	407:1	862 mA	29.8 RPM	2000 mNm	1174 mA	3000 mNm	
4	664:1	619 mA	18.7 RPM	2000 mNm	811 mA	3000 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	18.7	66.7
2	26.2	74.2
3	31.6	79.6
4	37.0	85.0

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Dccoreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST22P2 系列



单体电机参数表 Specifications of DC motor

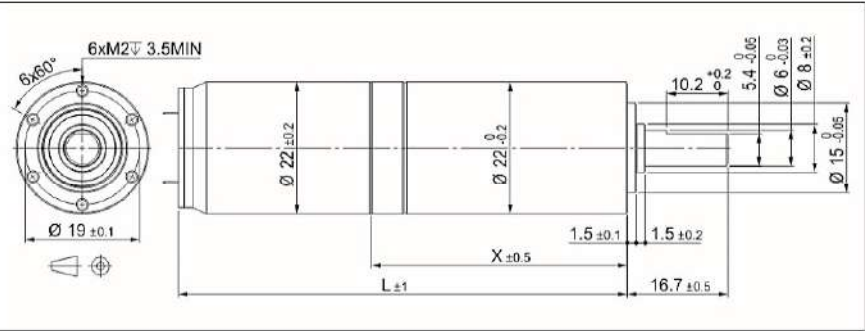
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	120 mA	60 mA
3	空载转速 No load speed	8800 RPM	8800 RPM
4	额定电流 Rated current	1018 mA	509 mA
5	额定转速 Rated speed	7357 RPM	7357 RPM
6	额定扭矩 Rated torque	10 mNm	10 mNm
7	堵转电流 Stall current	4770 mA	2385 mA
8	堵转扭矩 Stall torque	61 mNm	61 mNm
9	最大效率 Max. efficiency	77.0%	77.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	金属刷 metal brush	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	1018 mA	1942 RPM	32.3 mNm	1479 mA	48.5 mNm	
1	4.313:1	1018 mA	1706 RPM	36.6 mNm	1479 mA	54.9 mNm	
1	5.077:1	1018 mA	1449 RPM	43.2 mNm	1479 mA	65.1 mNm	
2	14.4:1	1018 mA	511 RPM	104 mNm	1479 mA	156 mNm	
2	25.8:1	1018 mA	285 RPM	186 mNm	1479 mA	279 mNm	
2	39.7:1	1018 mA	185 RPM	289 mNm	1479 mA	434 mNm	
3	80.2:1	1018 mA	92 RPM	493 mNm	1479 mA	659 mNm	
3	111.2:1	1018 mA	66 RPM	683 mNm	1479 mA	1023 mNm	
3	130.9:1	1018 mA	56 RPM	803 mNm	1479 mA	1205 mNm	
3	250:1	1018 mA	29.4 RPM	1535 mNm	1479 mA	2303 mNm	
4	304:1	1018 mA	24.2 RPM	1587 mNm	1479 mA	2381 mNm	
4	346:1	1018 mA	21.3 RPM	1806 mNm	1479 mA	2709 mNm	
4	407:1	964 mA	18.3 RPM	2000 mNm	1398 mA	3000 mNm	
4	664:1	627 mA	12 RPM	2000 mNm	894 mA	3000 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	509 mA	1942 RPM	32.3 mNm	740 mA	48.5 mNm	
1	4.313:1	509 mA	1706 RPM	36.6 mNm	740 mA	54.9 mNm	
1	5.077:1	509 mA	1449 RPM	43.4 mNm	740 mA	65.1 mNm	
2	14.4:1	509 mA	511 RPM	104 mNm	740 mA	156 mNm	
2	25.8:1	509 mA	285 RPM	186 mNm	740 mA	279 mNm	
2	39.7:1	509 mA	185 RPM	289 mNm	740 mA	434 mNm	
3	80.2:1	509 mA	92 RPM	493 mNm	740 mA	659 mNm	
3	111.2:1	509 mA	66 RPM	682 mNm	740 mA	1023 mNm	
3	130.9:1	509 mA	56 RPM	803 mNm	740 mA	1205 mNm	
3	250:1	509 mA	29.4 RPM	1535 mNm	740 mA	2303 mNm	
4	304:1	509 mA	24.2 RPM	1587 mNm	740 mA	2381 mNm	
4	346:1	509 mA	21.3 RPM	1806 mNm	740 mA	2709 mNm	
4	407:1	482 mA	18.3 RPM	2000 mNm	699 mA	3000 mNm	
4	664:1	314 mA	12 RPM	2000 mNm	447 mA	3000 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	18.7	50.7
2	26.2	58.2
3	31.6	63.6
4	37.0	69.0

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

BLDC & coreless planetary gearmotor 直流无刷空心杯行星减速电机

ST26P2 系列



单体电机参数表 Specifications of DC motor

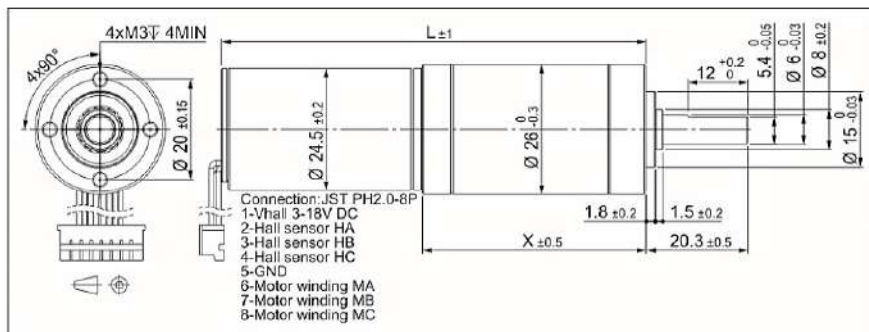
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	1056 mA	528 mA
3	空载转速 No load speed	15083 RPM	15083 RPM
4	额定电流 Rated current	6970 mA	3485 mA
5	额定转速 Rated speed	12789 RPM	12789 RPM
6	额定扭矩 Rated torque	40 mNm	40 mNm
7	堵转电流 Stall current	34.3 A	17.15 A
8	堵转扭矩 Stall torque	263 mNm	263 mNm
9	最大效率 Max. efficiency	77.0%	77.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	驱动种类 Type of controller	无刷电机的驱动器为选配 The controller for BLDC motor is optional	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	6970 mA	3375 RPM	129 mNm	10032 mA	193 mNm	
1	4.313:1	6970 mA	2965 RPM	147 mNm	10032 mA	220 mNm	
1	5.077:1	6970 mA	2519 RPM	173 mNm	10032 mA	259 mNm	
2	14.4:1	6970 mA	888 RPM	416 mNm	10032 mA	624 mNm	
2	25.8:1	6970 mA	496 RPM	746 mNm	10032 mA	1118 mNm	
2	39.7:1	6970 mA	322 RPM	1147 mNm	10032 mA	1721 mNm	
3	80.2:1	6970 mA	159 RPM	1970 mNm	10032 mA	2955 mNm	
3	111.2:1	6970 mA	115 RPM	2732 mNm	10032 mA	4097 mNm	
3	130.9:1	6970 mA	98 RPM	3216 mNm	10032 mA	4823 mNm	
3	250:1	5330 mA	54 RPM	4500 mNm	7028 mA	6200 mNm	
4	304:1	5186 mA	44 RPM	4500 mNm	6827 mA	6200 mNm	
4	346:1	4660 mA	39.5 RPM	4500 mNm	6102 mA	6200 mNm	
4	407:1	4091 mA	34 RPM	4500 mNm	5313 mA	6200 mNm	
4	664:1	2833 mA	21.6 RPM	4500 mNm	3583 mA	6200 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	3485 mA	3375 RPM	129 mNm	5016 mA	193 mNm	
1	4.313:1	3485 mA	2965 RPM	147 mNm	5016 mA	220 mNm	
1	5.077:1	3485 mA	2519 RPM	173 mNm	5016 mA	259 mNm	
2	14.4:1	3485 mA	888 RPM	416 mNm	5016 mA	624 mNm	
2	25.8:1	3485 mA	496 RPM	746 mNm	5016 mA	1118 mNm	
2	39.7:1	3485 mA	322 RPM	1147 mNm	5016 mA	1721 mNm	
3	80.2:1	3485 mA	159 RPM	1970 mNm	5016 mA	2955 mNm	
3	111.2:1	3485 mA	115 RPM	2732 mNm	5016 mA	4097 mNm	
3	130.9:1	3485 mA	98 RPM	3216 mNm	5016 mA	4823 mNm	
3	250:1	2665 mA	54 RPM	4500 mNm	3514 mA	6200 mNm	
4	304:1	2593 mA	44 RPM	4500 mNm	3414 mA	6200 mNm	
4	346:1	2330 mA	39.5 RPM	4500 mNm	3051 mA	6200 mNm	
4	407:1	2046 mA	34 RPM	4500 mNm	2657 mA	6200 mNm	
4	664:1	1417 mA	21.6 RPM	4500 mNm	1792 mA	6200 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	21.7	74.7
2	31.4	84.4
3	38.0	91.0
4	44.6	97.6

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

Dccoreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST26P2 系列



单体电机参数表 Specifications of DC motor

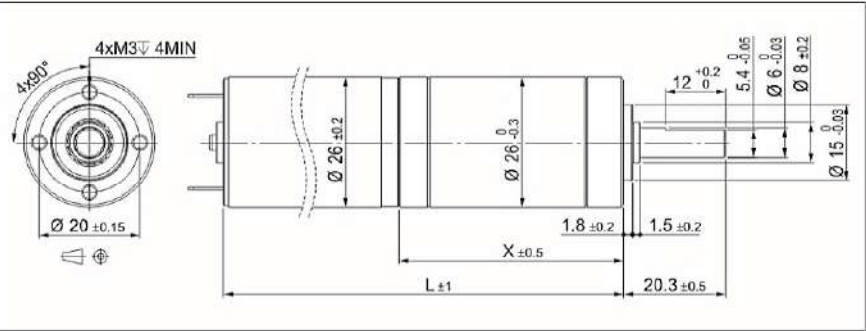
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	540 mA	270 mA
3	空载转速 No load speed	7800 RPM	7800 RPM
4	额定电流 Rated current	4650 mA	2325 mA
5	额定转速 Rated speed	6116 RPM	6116 RPM
6	额定扭矩 Rated torque	53 mNm	53 mNm
7	堵转电流 Stall current	16.6 A	8.3 A
8	堵转扭矩 Stall torque	245.5 mNm	245.5 mNm
9	最大效率 Max. efficiency	76.0%	76.0%
10	环境温度 Ambient temperature	-20°C~+80°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	碳刷 Carbon brush	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	4650 mA	1614 RPM	171 mNm	6760 mA	257 mNm	
1	4.313:1	4650 mA	1418 RPM	194 mNm	6760 mA	291 mNm	
1	5.077:1	4650 mA	1205 RPM	230 mNm	6760 mA	345 mNm	
2	14.4:1	4650 mA	425 RPM	551 mNm	6760 mA	827 mNm	
2	25.8:1	4650 mA	237 RPM	988 mNm	6760 mA	1482 mNm	
2	39.7:1	4650 mA	154 RPM	1532 mNm	6760 mA	2298 mNm	
3	80.2:1	4650 mA	76 RPM	2610 mNm	6760 mA	3915 mNm	
3	111.2:1	4650 mA	55 RPM	3613 mNm	6760 mA	5420 mNm	
3	130.9:1	4650 mA	47 RPM	4257 mNm	6577 mA	6200 mNm	
3	250:1	2764 mA	27.5 RPM	4500 mNm	3648 mA	6200 mNm	
4	304:1	2690 mA	22.7 RPM	4500 mNm	3535 mA	6200 mNm	
4	346:1	2413 mA	20.3 RPM	4500 mNm	3162 mA	6200 mNm	
4	407:1	2120 mA	17.5 RPM	4500 mNm	2756 mA	6200 mNm	
4	664:1	1466 mA	11.1 RPM	4500 mNm	1857 mA	6200 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	2325 mA	1614 RPM	171 mNm	3380 mA	257 mNm	
1	4.313:1	2325 mA	1418 RPM	194 mNm	3380 mA	291 mNm	
1	5.077:1	2325 mA	1205 RPM	230 mNm	3380 mA	345 mNm	
2	14.4:1	2325 mA	425 RPM	551 mNm	3380 mA	827 mNm	
2	25.8:1	2325 mA	237 RPM	988 mNm	3380 mA	1482 mNm	
2	39.7:1	2325 mA	154 RPM	1532 mNm	3380 mA	2298 mNm	
3	80.2:1	2325 mA	76 RPM	2610 mNm	3380 mA	3915 mNm	
3	111.2:1	2325 mA	55 RPM	3613 mNm	3380 mA	5420 mNm	
3	130.9:1	2325 mA	47 RPM	4257 mNm	3289 mA	6200 mNm	
3	250:1	1382 mA	27.5 RPM	4500 mNm	1824 mA	6200 mNm	
4	304:1	1345 mA	22.7 RPM	4500 mNm	1768 mA	6200 mNm	
4	346:1	1207 mA	20.3 RPM	4500 mNm	1581 mA	6200 mNm	
4	407:1	1060 mA	17.5 RPM	4500 mNm	1378 mA	6200 mNm	
4	664:1	733 mA	11.1 RPM	4500 mNm	929 mA	6200 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	21.7	78.7
2	31.4	88.4
3	38.0	95.0
4	44.6	101.6

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

BLDC & coreless planetary gearmotor 直流无刷空心杯行星减速电机

ST28P2 系列



单体电机参数表 Specifications of DC motor

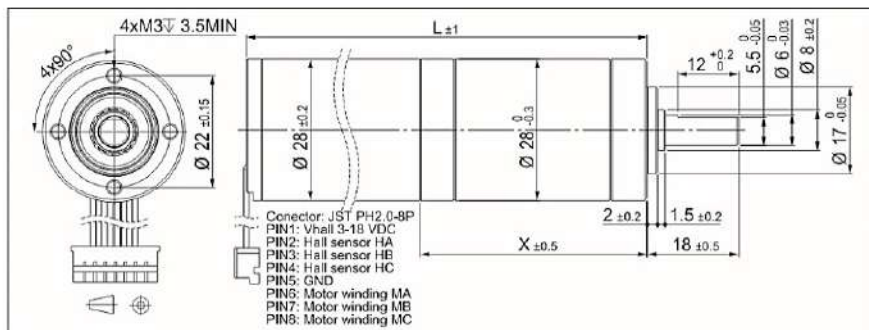
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	636 mA	318 mA
3	空载转速 No load speed	7956 RPM	7956 RPM
4	额定电流 Rated current	3716 mA	1858 mA
5	额定转速 Rated speed	6962 RPM	6962 RPM
6	额定扭矩 Rated torque	40 mNm	40 mNm
7	堵转电流 Stall current	21.8 A	10.9 A
8	堵转扭矩 Stall torque	320 mNm	320 mNm
9	最大效率 Max. efficiency	78.0%	78.0%
10	环境温度 Ambient temperature	-20 °C~+60 °C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	驱动种类 Type of controller	无刷电机的驱动器为选配 The controller for BLDC motor is optional	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	3716 mA	1837 RPM	129 mNm	5323 mA	194 mNm	
1	4.313:1	3716 mA	1614 RPM	146 mNm	5323 mA	219 mNm	
1	5.077:1	3716 mA	1371 RPM	173 mNm	5323 mA	260 mNm	
2	14.4:1	3716 mA	483 RPM	416 mNm	5323 mA	624 mNm	
2	25.8:1	3716 mA	270 RPM	746 mNm	5323 mA	1119 mNm	
2	39.7:1	3716 mA	175 RPM	1156 mNm	5323 mA	1734 mNm	
3	80.2:1	3716 mA	87 RPM	1970 mNm	5323 mA	2955 mNm	
3	111.2:1	3716 mA	63 RPM	2727 mNm	5323 mA	4091 mNm	
3	130.9:1	3716 mA	53 RPM	3213 mNm	5323 mA	4820 mNm	
3	250:1	2861 mA	29 RPM	4500 mNm	3749 mA	6200 mNm	
4	304:1	2784 mA	23.8 RPM	4500 mNm	3643 mA	6200 mNm	
4	346:1	2509 mA	21.2 RPM	4500 mNm	3264 mA	6200 mNm	
4	407:1	2210 mA	18.3 RPM	4500 mNm	2850 mA	6200 mNm	
4	664:1	1551 mA	11.5 RPM	4500 mNm	1944 mA	6200 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	1858 mA	1837 RPM	129 mNm	2662 mA	194 mNm	
1	4.313:1	1858 mA	1614 RPM	146 mNm	2662 mA	219 mNm	
1	5.077:1	1858 mA	1371 RPM	173 mNm	2662 mA	260 mNm	
2	14.4:1	1858 mA	483 RPM	416 mNm	2662 mA	624 mNm	
2	25.8:1	1858 mA	270 RPM	746 mNm	2662 mA	1119 mNm	
2	39.7:1	1858 mA	175 RPM	1156 mNm	2662 mA	1734 mNm	
3	80.2:1	1858 mA	87 RPM	1970 mNm	2662 mA	2955 mNm	
3	111.2:1	1858 mA	63 RPM	2727 mNm	2662 mA	4091 mNm	
3	130.9:1	1858 mA	53 RPM	3213 mNm	2662 mA	4820 mNm	
3	250:1	1430 mA	29 RPM	4500 mNm	1875 mA	6200 mNm	
4	304:1	1392 mA	23.8 RPM	4500 mNm	1822 mA	6200 mNm	
4	346:1	1255 mA	21.2 RPM	4500 mNm	1632 mA	6200 mNm	
4	407:1	1105 mA	18.3 RPM	4500 mNm	1425 mA	6200 mNm	
4	664:1	776 mA	11.5 RPM	4500 mNm	972 mA	6200 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	21.7	85.7
2	31.4	95.4
3	38.0	102.0
4	44.6	108.6

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Dccoreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST28P2 系列



单体电机参数表 Specifications of DC motor

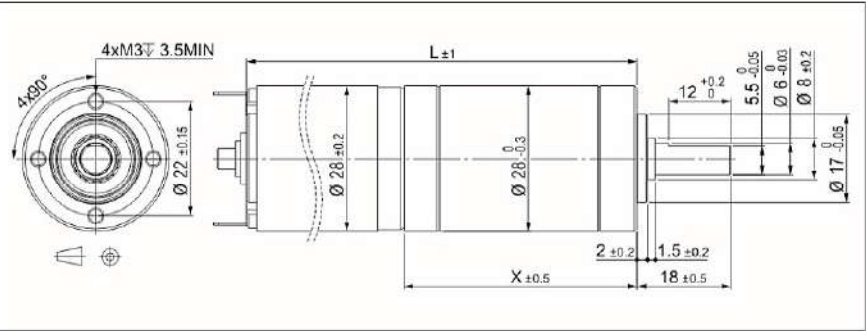
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	360 mA	180 mA
3	空载转速 No load speed	7300 RPM	7300 RPM
4	额定电流 Rated current	3384 mA	1692 mA
5	额定转速 Rated speed	6317 RPM	6317 RPM
6	额定扭矩 Rated torque	40 mNm	40 mNm
7	堵转电流 Stall current	19.4 A	9.7 A
8	堵转扭矩 Stall torque	297 mNm	297 mNm
9	最大效率 Max. efficiency	79.0%	79.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	碳刷 Carbon brush	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	3384 mA	1667 RPM	129 mNm	4931 mA	194 mNm	
1	4.313:1	3384 mA	1465 RPM	147 mNm	4931 mA	221 mNm	
1	5.077:1	3384 mA	1244 RPM	173 mNm	4931mA	260 mNm	
2	14.4:1	3384 mA	439 RPM	416 mNm	4931 mA	624 mNm	
2	25.8:1	3384 mA	245 RPM	746 mNm	4931 mA	1119 mNm	
2	39.7:1	3384 mA	158 RPM	1147 mNm	4931 mA	1721 mNm	
3	80.2:1	3384 mA	79 RPM	1970 mNm	4931 mA	2955 mNm	
3	111.2:1	3384 mA	57 RPM	2732 mNm	4931 mA	4098 mNm	
3	130.9:1	3384 mA	48 RPM	3216 mNm	4931 mA	6200 mNm	
3	250:1	2555 mA	26.3 RPM	4500 mNm	3414 mA	6200 mNm	
4	304:1	2485 mA	21.7 RPM	4500 mNm	3311 mA	6200 mNm	
4	346:1	2215 mA	19.3 RPM	4500 mNm	2942 mA	6200 mNm	
4	407:1	1928 mA	16.7 RPM	4500 mNm	2547 mA	6200 mNm	
4	664:1	1294 mA	10.5 RPM	4500 mNm	1673 mA	6200 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.8:1	1692 mA	1667 RPM	129 mNm	2466 mA	194 mNm	
1	4.3:1	1692 mA	1465 RPM	147 mNm	2466 mA	221 mNm	
1	5.1:1	1692 mA	1244 RPM	173 mNm	2466 mA	260 mNm	
2	14.4:1	1692 mA	439 RPM	416 mNm	2466 mA	624 mNm	
2	25.8:1	1692 mA	245 RPM	746 mNm	2466 mA	1119 mNm	
2	40:1	1692 mA	158 RPM	1147 mNm	2466 mA	1721 mNm	
3	80.2:1	1692 mA	79 RPM	1970 mNm	2466 mA	2955 mNm	
3	111:1	1692 mA	57 RPM	2732 mNm	2466 mA	4098 mNm	
3	130.8:1	1692 mA	48 RPM	3216 mNm	2466 mA	6200 mNm	
3	250:1	1278 mA	26.3 RPM	4500 mNm	1707 mA	6200 mNm	
4	304:1	1243 mA	21.7 RPM	4500 mNm	1656 mA	6200 mNm	
4	345.9:1	1108 mA	19.3 RPM	4500 mNm	1471 mA	6200 mNm	
4	407:1	964 mA	16.7 RPM	4500 mNm	1274 mA	6200 mNm	
4	664:1	647 mA	10.5 RPM	4500 mNm	837 mA	6200 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	21.7	85.7
2	31.4	95.4
3	38.0	102.0
4	44.6	108.6

我司可根据客户要求设计和生产相关产品,可适配多类型电机。We can design and produce products according to customers' requirements.

BLDC & coreless planetary gearmotor 直流无刷空心杯行星减速电机

ST32P2 系列



单体电机参数表 Specifications of DC motor

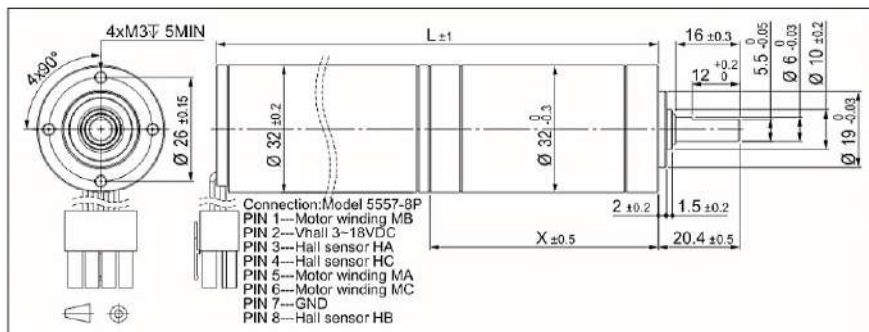
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	746 mA	373 mA
3	空载转速 No load speed	6053 RPM	6053 RPM
4	额定电流 Rated current	4304 mA	2152 mA
5	额定转速 Rated speed	5222 RPM	5222 RPM
6	额定扭矩 Rated torque	60 mNm	60 mNm
7	堵转电流 Stall current	23 A	11.5 A
8	堵转扭矩 Stall torque	437 mNm	437 mNm
9	最大效率 Max. efficiency	76.0%	76.0%
10	环境温度 Ambient temperature	-20 °C~+60 °C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	驱动种类 Type of controller	无刷电机的驱动器为选配 The controller for BLDC motor is optional	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	4304 mA	1374 RPM	205 mNm	6160 mA	308 mNm	
1	4.313:1	4304 mA	1214 RPM	233 mNm	6160 mA	350 mNm	
1	5.077:1	4304 mA	1024 RPM	274 mNm	6160 mA	411 mNm	
2	14.4:1	4304 mA	363 RPM	700 mNm	6160 mA	1050 mNm	
2	25.8:1	4304 mA	202 RPM	1254 mNm	6160 mA	1881 mNm	
2	39.7:1	4304 mA	131 RPM	1929 mNm	6160 mA	2894 mNm	
3	80.2:1	4304 mA	65 RPM	3508 mNm	6160 mA	5262 mNm	
3	111.2:1	4304 mA	47 RPM	4864 mNm	6160 mA	7296 mNm	
3	130.9:1	4304 mA	40 RPM	5726 mNm	6160 mA	8589 mNm	
3	250:1	3310 mA	21.8 RPM	8000 mNm	4666 mA	12000 mNm	
4	304:1	3075 mA	18 RPM	8000 mNm	4313 mA	12000 mNm	
4	346:1	2774 mA	16 RPM	8000 mNm	3863 mA	12000 mNm	
4	407:1	2448 mA	13.9 RPM	8000 mNm	3374 mA	12000 mNm	
4	664:1	1731 mA	8.7 RPM	8000 mNm	2296 mA	12000 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	2152 mA	1374 RPM	205 mNm	3080 mA	308 mNm	
1	4.313:1	2152 mA	1214 RPM	233 mNm	3080 mA	350 mNm	
1	5.077:1	2152 mA	1024 RPM	274 mNm	3080 mA	411 mNm	
2	14.4:1	2152 mA	363 RPM	700 mNm	3080 mA	1050 mNm	
2	25.8:1	2152 mA	202 RPM	1254 mNm	3080 mA	1881 mNm	
2	39.7:1	2152 mA	131 RPM	1929 mNm	3080 mA	2894 mNm	
3	80.2:1	2152 mA	65 RPM	3508 mNm	3080 mA	5262 mNm	
3	111.2:1	2152 mA	47 RPM	4864 mNm	3080 mA	7296 mNm	
3	130.9:1	2152 mA	40 RPM	5726 mNm	3080 mA	8589 mNm	
3	250:1	1655 mA	21.8 RPM	8000 mNm	2333 mA	12000 mNm	
4	304:1	1538 mA	18 RPM	8000 mNm	2157 mA	12000 mNm	
4	346:1	1387 mA	16 RPM	8000 mNm	1932 mA	12000 mNm	
4	407:1	1224 mA	13.9 RPM	8000 mNm	1687 mA	12000 mNm	
4	664:1	866 mA	8.7 RPM	8000 mNm	1148 mA	12000 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	28.1	98.1
2	37.8	107.8
3	47.5	117.5
4	57.2	127.2

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

Dccoreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST32P2 系列



单体电机参数表 Specifications of DC motor

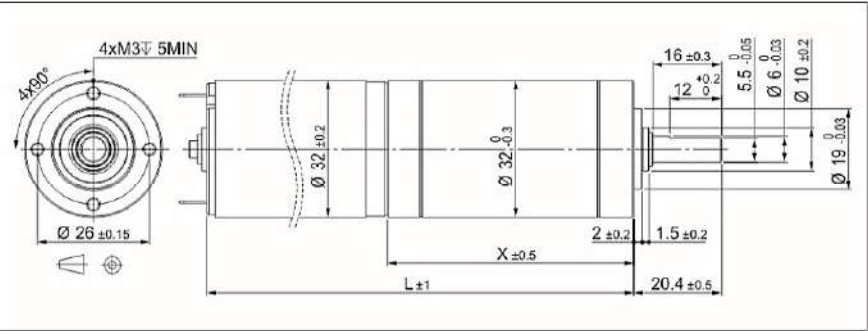
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	534 mA	267 mA
3	空载转速 No load speed	5860 RPM	5860 RPM
4	额定电流 Rated current	3342 mA	1671 mA
5	额定转速 Rated speed	5150 RPM	5150 RPM
6	额定扭矩 Rated torque	50 mNm	50 mNm
7	堵转电流 Stall current	20410 mA	10205 mA
8	堵转扭矩 Stall torque	412.7 mNm	412.7 mNm
9	最大效率 Max. efficiency	80.0%	80.0%
10	环境温度 Ambient temperature	-20°C~+80°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	碳刷 Carbon brush	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	3342 mA	1359 RPM	170.5 mNm	4740 mA	256 mNm	
1	4.313:1	3342 mA	1194 RPM	194 mNm	4740 mA	291 mNm	
1	5.077:1	3342 mA	1014 RPM	228mNm	4740 mA	343 mNm	
2	14.4:1	3342 mA	358 RPM	583 mNm	4740 mA	875 mNm	
2	25.8:1	3342 mA	200 RPM	1045 mNm	4740 mA	1568 mNm	
2	39.7:1	3342 mA	130 RPM	1608 mNm	4740 mA	2412 mNm	
3	80.2:1	3342 mA	64 RPM	2923 mNm	4740 mA	4385 mNm	
3	111.2:1	3342 mA	46 RPM	4053 mNm	4740 mA	6080 mNm	
3	130.9:1	3342 mA	39 RPM	4771 mNm	4740 mA	7157 mNm	
3	250:1	3000 mA	21 RPM	8000 mNm	4230 mA	12000 mNm	
4	304:1	2790 mA	17.4 RPM	8000 mNm	3910 mA	12000 mNm	
4	346:1	2520 mA	15.5 RPM	8000 mNm	3500 mA	12000 mNm	
4	407:1	2220 mA	13.4 RPM	8000 mNm	3060 mA	12000 mNm	
4	664:1	1570 mA	8.4 RPM	8000 mNm	2080 mA	12000 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	1671 mA	1359 RPM	170.5 mNm	2370 mA	256 mNm	
1	4.313:1	1671 mA	1194 RPM	194 mNm	2370 mA	291 mNm	
1	5.077:1	1671 mA	1014 RPM	228 mNm	2370 mA	343 mNm	
2	14.4:1	1671 mA	358 RPM	583 mNm	2370 mA	875 mNm	
2	25.8:1	1671 mA	200 RPM	1045 mNm	2370 mA	1568 mNm	
2	39.7:1	1671 mA	130 RPM	1608 mNm	2370 mA	2412 mNm	
3	80.2:1	1671 mA	64 RPM	2923 mNm	2370 mA	4385 mNm	
3	111.2:1	1671 mA	46 RPM	4053 mNm	2370 mA	6080 mNm	
3	130.9:1	1671 mA	39 RPM	4771 mNm	2370 mA	7157 mNm	
3	250:1	1500 mA	21 RPM	8000 mNm	2115 mA	12000 mNm	
4	304:1	1395 mA	17.4 RPM	8000 mNm	1955 mA	12000 mNm	
4	346:1	1260 mA	15.5 RPM	8000 mNm	1750 mA	12000 mNm	
4	407:1	1110 mA	13.4 RPM	8000 mNm	1530 mA	12000 mNm	
4	664:1	785 mA	8.4 RPM	8000 mNm	1040 mA	12000 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	28.1	93.1
2	37.8	102.8
3	47.5	112.5
4	57.2	122.2

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

BLDC & coreless planetary gearmotor 直流无刷空心杯行星减速电机

ST36P2 系列



单体电机参数表 Specifications of DC motor

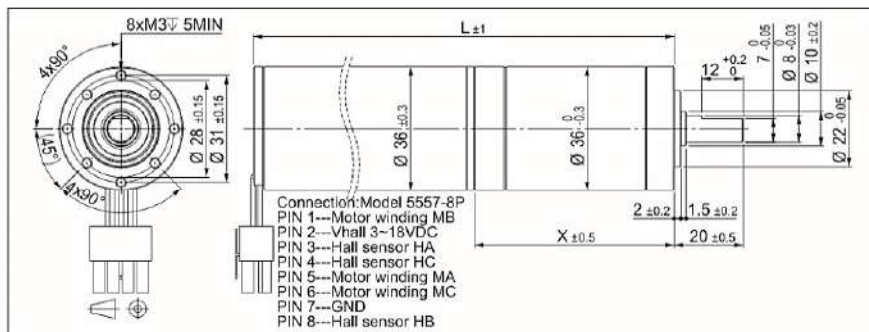
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	700 mA	350 mA
3	空载转速 No load speed	6555 RPM	6555 RPM
4	额定电流 Rated current	8860 mA	4430 mA
5	额定转速 Rated speed	5391 RPM	5391 RPM
6	额定扭矩 Rated torque	120 mNm	120 mNm
7	堵转电流 Stall current	39380 mA	19690 mA
8	堵转扭矩 Stall torque	676 mNm	676 mNm
9	最大效率 Max. efficiency	80.0%	80.0%
10	环境温度 Ambient temperature	-20 °C~+60 °C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	驱动种类 Type of controller	无刷电机的驱动器为选配 The controller for BLDC motor is optional	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	8850 mA	1423 RPM	387 mNm	12990 mA	580 mNm	
1	4.313:1	8850 mA	1250 RPM	440 mNm	12990 mA	660 mNm	
1	5.077:1	8850 mA	1062 RPM	518 mNm	12990 mA	777 mNm	
2	14.4:1	8850 mA	376 RPM	1245 mNm	12990 mA	1867 mNm	
2	25.8:1	8850 mA	209 RPM	2235 mNm	12990 mA	3352 mNm	
2	39.7:1	8850 mA	136 RPM	3441 mNm	12990 mA	5162 mNm	
3	80.2:1	8850 mA	67 RPM	5910 mNm	12990 mA	8866 mNm	
3	111.2:1	8650 mA	48.8 RPM	8000 mNm	12700 mA	12000 mNm	
3	130.9:1	7430 mA	42.7 RPM	8000 mNm	10870 mA	12000 mNm	
3	250:1	4150 mA	24.2 RPM	8000 mNm	5950 mA	12000 mNm	
4	304:1	4040 mA	20 RPM	8000 mNm	5780 mA	12000 mNm	
4	346:1	3620 mA	17.7 RPM	8000 mNm	5150 mA	12000 mNm	
4	407:1	3150 mA	15.2 RPM	8000 mNm	4450 mA	12000 mNm	
4	664:1	2150 mA	9.5 RPM	8000 mNm	2950 mA	12000 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	4430 mA	1423 RPM	387 mNm	6500 mA	580 mNm	
1	4.313:1	4430 mA	1250 RPM	440 mNm	6500 mA	660 mNm	
1	5.077:1	4430 mA	1062 RPM	518 mNm	6500 mA	777 mNm	
2	14.4:1	4430 mA	376 RPM	1245 mNm	6500 mA	1867 mNm	
2	25.8:1	4430 mA	209 RPM	2235 mNm	6500 mA	3352 mNm	
2	39.7:1	4430 mA	136 RPM	3441 mNm	6500 mA	5162 mNm	
3	80.2:1	4430 mA	67 RPM	5910 mNm	6500 mA	8866 mNm	
3	111.2:1	4330 mA	48.8 RPM	8000 mNm	6350 mA	12000 mNm	
3	130.9:1	3720 mA	42.7 RPM	8000 mNm	5440 mA	12000 mNm	
3	250:1	2080 mA	24.2 RPM	8000 mNm	2980 mA	12000 mNm	
4	304:1	2020 mA	20 RPM	8000 mNm	2890 mA	12000 mNm	
4	346:1	1810 mA	17.7 RPM	8000 mNm	2580 mA	12000 mNm	
4	407:1	1580 mA	15.2 RPM	8000 mNm	2260 mA	12000 mNm	
4	664:1	1080 mA	9.5 RPM	8000 mNm	1480 mA	12000 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	28.7	98.7
2	38.4	108.4
3	48.1	118.1
4	57.8	127.8

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

Dccoreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST36P2 系列



单体电机参数表 Specifications of DC motor

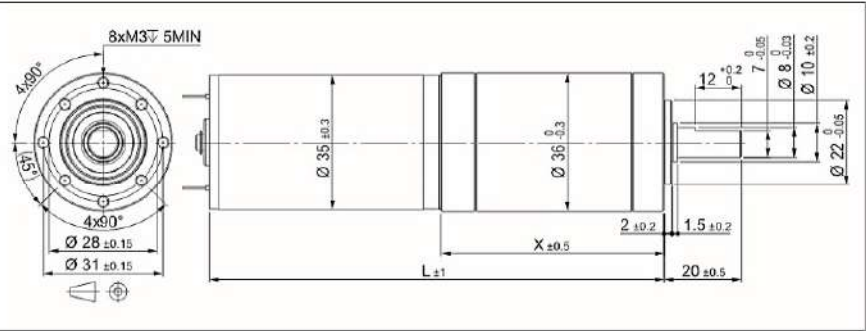
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	1100 mA	550 mA
3	空载转速 No load speed	5920 RPM	5920 RPM
4	额定电流 Rated current	3720 mA	1860 mA
5	额定转速 Rated speed	5620 RPM	5620 RPM
6	额定扭矩 Rated torque	43.8 mNm	43.8 mNm
7	堵转电流 Stall current	47540 mA	23770 mA
8	堵转扭矩 Stall torque	871.9 mNm	871.9 mNm
9	最大效率 Max. efficiency	75.0%	75.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	碳刷 Carbon brush	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	3720 mA	1483 RPM	141 mNm	5100 mA	212 mNm	
1	4.313:1	3720 mA	1303RPM	161 mNm	5100 mA	242 mNm	
1	5.077:1	3720 mA	1107 RPM	189 mNm	5100 mA	284 mNm	
2	14.4:1	3720 mA	391.5 RPM	454mNm	5100 mA	681 mNm	
2	25.8:1	3720 mA	218 RPM	816 mNm	5100 mA	1224 mNm	
2	39.7:1	3720 mA	140.6 RPM	1256 mNm	5100 mA	1884 mNm	
3	80.2:1	3720 mA	70 RPM	2157 mNm	5100 mA	3236 mNm	
3	111.2:1	3720 mA	50.6 RPM	2990 mNm	5100 mA	4485 mNm	
3	130.9:1	3720 mA	43 RPM	3520 mNm	5100 mA	5280 mNm	
3	250:1	3720 mA	22.5 RPM	6726 mNm	5100 mA	10089 mNm	
4	304:1	3720 mA	18.5 RPM	6948 mNm	5100 mA	10422 mNm	
4	346:1	3720 mA	16.2 RPM	7908 mNm	5100 mA	11862 mNm	
4	407:1	3300 mA	14 RPM	8000 mNm	4510mA	12000 mNm	
4	664:1	2360 mA	8.7 RPM	8000 mNm	3100 mA	12000 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	1860 mA	1483 RPM	141 mNm	2560 mA	212 mNm	
1	4.313:1	1860 mA	1303RPM	161 mNm	2560 mA	242 mNm	
1	5.077:1	1860 mA	1107 RPM	189 mNm	2560 mA	284 mNm	
2	14.4:1	1860 mA	391.5 RPM	454 mNm	2560 mA	681 mNm	
2	25.8:1	1860 mA	218 RPM	816 mNm	2560 mA	1224 mNm	
2	39.7:1	1860 mA	140.6 RPM	1256 mNm	2560 mA	1884 mNm	
3	80.2:1	1860 mA	70 RPM	2157 mNm	2560 mA	3236 mNm	
3	111.2:1	1860 mA	50.6 RPM	2990 mNm	2560 mA	4485 mNm	
3	130.9:1	1860 mA	43 RPM	3520 mNm	2560 mA	5280 mNm	
3	250:1	1860 mA	22.5 RPM	6726 mNm	2560 mA	10089 mNm	
4	304:1	1860 mA	18.5 RPM	6948 mNm	2560 mA	10422 mNm	
4	346:1	1860 mA	16.2 RPM	7908 mNm	2560 mA	11862 mNm	
4	407:1	1650 mA	14 RPM	8000 mNm	2260 mA	12000 mNm	
4	664:1	1180 mA	8.7 RPM	8000 mNm	1550 mA	12000 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	28.7	98.7
2	38.4	108.4
3	48.1	118.1
4	57.8	127.8

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

BLDC & coreless planetary gearmotor 直流无刷空心杯行星减速电机

ST42P3 系列



单体电机参数表 Specifications of DC motor

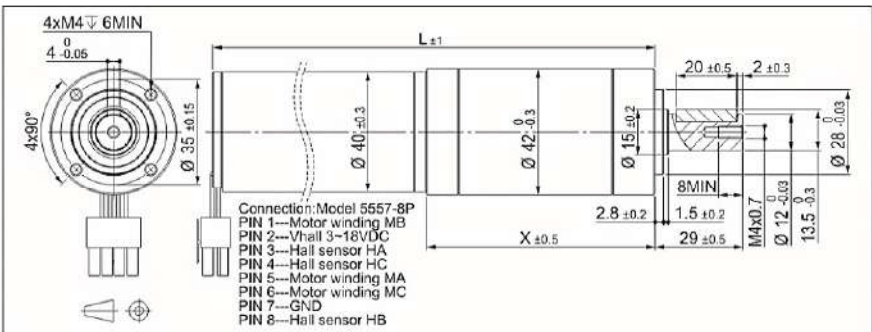
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	2270 mA	1135 mA
3	空载转速 No load speed	8016 RPM	8016 RPM
4	额定电流 Rated current	17300 mA	8650 mA
5	额定转速 Rated speed	7148 RPM	7148 RPM
6	额定扭矩 Rated torque	200 mNm	200 mNm
7	堵转电流 Stall current	120680 mA	60340 mNm
8	堵转扭矩 Stall torque	1847 mNm	1847 mNm
9	最大效率 Max. efficiency	85.0%	85.0%
10	环境温度 Ambient temperature	-20 °C~+60 °C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	驱动种类 Type of controller	无刷电机的驱动器为选配 The controller for BLDC motor is optional	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	17300 mA	1887 RPM	682 mNm	24820 mA	1023 mNm	
1	4.313:1	17300 mA	1658 RPM	776 mNm	24820 mA	1164 mNm	
1	5.077:1	17300 mA	1408 RPM	914 mNm	24820 mA	1371 mNm	
2	14.4:1	17300 mA	496 RPM	2333 mNm	24820 mA	3500 mNm	
2	25.8:1	17300 mA	277 RPM	4180 mNm	24820 mA	6270 mNm	
2	39.7:1	17300 mA	179 RPM	6480 mNm	24820 mA	9720 mNm	
3	80.2:1	17300 mA	89 RPM	11693 mNm	24820 mA	17540 mNm	
3	111.2:1	16200 mA	65 RPM	15000 mNm	23340 mA	22500 mNm	
3	130.9:1	14090 mA	56 RPM	15000 mNm	20000 mA	22500 mNm	
3	250:1	8200 mA	30.5 RPM	15000 mNm	11550 mA	22500 mNm	
4	304:1	7640 mA	25 RPM	15000 mNm	10750 mA	22500 mNm	
4	346:1	6930 mA	22 RPM	15000 mNm	9720 mA	22500 mNm	
4	407:1	6170 mA	19 RPM	15000 mNm	8600 mA	22500 mNm	
4	664:1	4860 mA	12 RPM	15000 mNm	6150 mA	22500 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	8650 mA	1887 RPM	682 mNm	12410 mA	1023 mNm	
1	4.313:1	8650 mA	1658 RPM	776 mNm	12410 mA	1164 mNm	
1	5.077:1	8650 mA	1408 RPM	914 mNm	12410 mA	1371 mNm	
2	14.4:1	8650 mA	496 RPM	2333 mNm	12410 mA	3500 mNm	
2	25.8:1	8650 mA	277 RPM	4180 mNm	12410 mA	6270 mNm	
2	39.7:1	8650 mA	179 RPM	6480 mNm	12410 mA	9720 mNm	
3	80.2:1	8650 mA	89 RPM	11693 mNm	12410 mA	17540 mNm	
3	111.2:1	8100 mA	65 RPM	15000 mNm	11590 mA	22500 mNm	
3	130.9:1	7050 mA	56 RPM	15000 mNm	10000 mA	22500 mNm	
3	250:1	4230 mA	30.5 RPM	15000 mNm	5770 mA	22500 mNm	
4	304:1	3960 mA	25 RPM	15000 mNm	5370 mA	22500 mNm	
4	346:1	3620 mA	22 RPM	15000 mNm	4860 mA	22500 mNm	
4	407:1	3250 mA	19 RPM	15000 mNm	4300 mA	22500 mNm	
4	664:1	2430 mA	12 RPM	15000 mNm	3080 mA	22500 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(L) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	38.5	126.5
2	52.9	140.9
3	64.3	152.3
4	75.7	163.7

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

Dccoreless & brushed planetary gearmotor
直流有刷空心杯行星减速电机

ST42P3 系列



单体电机参数表 Specifications of DC motor

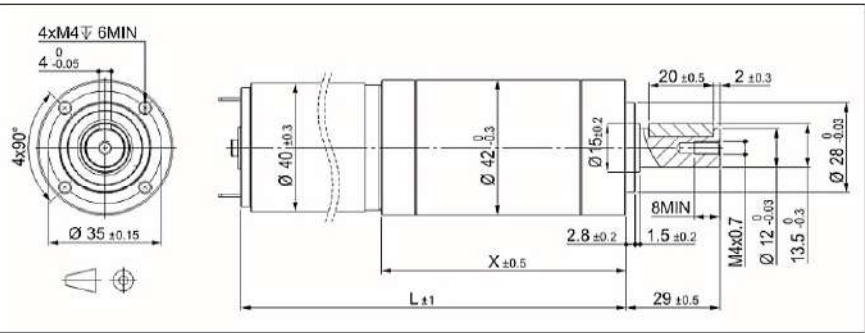
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	1100 mA	550 mA
3	空载转速 No load speed	8200 RPM	8200 RPM
4	额定电流 Rated current	15100 mA	7550 mA
5	额定转速 Rated speed	7585 RPM	7585 RPM
6	额定扭矩 Rated torque	161.4 mNm	161.4 mNm
7	堵转电流 Stall current	158580 mA	79290 mA
8	堵转扭矩 Stall torque	2152 mNm	2152 mNm
9	最大效率 Max. efficiency	85.0%	85.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	碳刷 Carbon brush	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	15100 mA	2002 RPM	550 mNm	22180 mA	825 mNm	
1	4.313:1	15100 mA	1759 RPM	626 mNm	22180 mA	939 mNm	
1	5.077:1	15100 mA	1494 RPM	737 mNm	22180 mA	1106 mNm	
2	14.4:1	15100 mA	527 RPM	1882 mNm	22180 mA	2816 mNm	
2	25.8:1	15100 mA	294 RPM	3373 mNm	22180 mA	5060 mNm	
2	39.7:1	15100 mA	190 RPM	5229 mNm	22180 mA	7844 mNm	
3	80.2:1	15100 mA	95 RPM	9437 mNm	22180 mA	14156 mNm	
3	111.2:1	15100 mA	68 RPM	13060 mNm	22180 mA	19590 mNm	
3	130.9:1	14720 mA	58 RPM	15000 mNm	21530 mA	22500 mNm	
3	250:1	8140 mA	31.5 RPM	15000 mNm	11660 mA	22500 mNm	
4	304:1	7580 mA	26 RPM	15000 mNm	10810 mA	22500 mNm	
4	346:1	6790 mA	23 RPM	15000 mNm	9635 mA	22500 mNm	
4	407:1	5940 mA	19.5 RPM	15000 mNm	8360 mA	22500 mNm	
4	664:1	4070 mA	12 RPM	15000 mNm	5550 mA	22500 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	7550 mA	2002 RPM	550 mNm	11050 mA	825 mNm	
1	4.313:1	7550 mA	1759 RPM	626 mNm	11050 mA	939 mNm	
1	5.077:1	7550 mA	1494 RPM	737 mNm	11050 mA	1106 mNm	
2	14.4:1	7550 mA	527 RPM	1882 mNm	11050 mA	2816 mNm	
2	25.8:1	7550 mA	294 RPM	3373 mNm	11050 mA	5060 mNm	
2	39.7:1	7550 mA	190 RPM	5229 mNm	11050 mA	7844 mNm	
3	80.2:1	7550 mA	95 RPM	9437 mNm	11050 mA	14156 mNm	
3	111.2:1	7550 mA	68 RPM	13060 mNm	11050 mA	19590 mNm	
3	130.9:1	7370 mA	58 RPM	15000 mNm	10780 mA	22500 mNm	
3	250:1	4120 mA	31.5 RPM	15000 mNm	5900 mA	22500 mNm	
4	304:1	3810 mA	26 RPM	15000 mNm	5440 mA	22500 mNm	
4	346:1	3420 mA	23 RPM	15000 mNm	4850 mA	22500 mNm	
4	407:1	2990 mA	19.5 RPM	15000 mNm	4200 mA	22500 mNm	
4	664:1	2040 mA	12 RPM	15000 mNm	2790 mA	22500 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	38.5	108.5
2	52.9	122.9
3	64.3	134.3
4	75.7	145.7

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

DC ironcore & brushed planetary gearmotor 直流有刷铁芯行星减速电机

ST52PH 系列



单体电机参数表 Specifications of DC motor

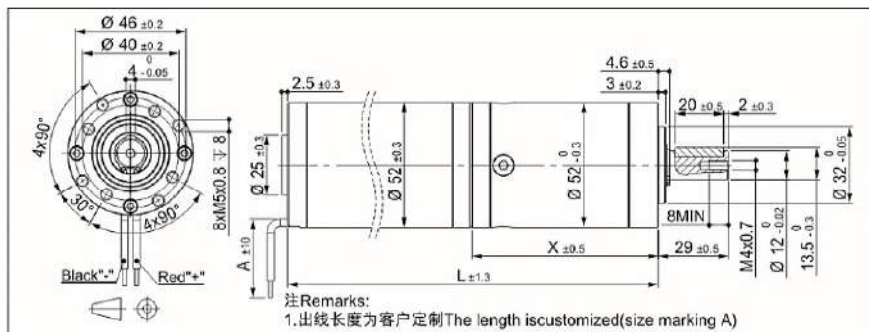
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	0.99 A	0.64 A
3	空载转速 No load speed	4200 RPM	4200 RPM
4	额定电流 Rated current	5.68 A	4.96 A
5	额定转速 Rated speed	3700 RPM	3500 RPM
6	额定扭矩 Rated torque	0.11 Nm	0.2 Nm
7	堵转电流 Stall current	34.88 A	22.65 A
8	堵转扭矩 Stall torque	0.924 Nm	1.2 Nm
9	最大效率 Max. efficiency	70.0%	70.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	碳刷 Carbon brush	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	5.68 A	977 RPM	354 mNm	8.03 A	531 mNm	
1	4.313:1	5.68 A	858 RPM	403 mNm	8.03 A	605 mNm	
1	5.077:1	5.68 A	729 RPM	475 mNm	8.03 A	713 mNm	
2	14.4:1	5.68 A	257 RPM	1144 mNm	8.03 A	1717 mNm	
2	25.8:1	5.68 A	143 RPM	2050 mNm	8.03 A	3076 mNm	
2	39.7:1	5.68 A	93 RPM	3155 mNm	8.03 A	4733 mNm	
3	80.2:1	5.68 A	46.1 RPM	5418 mNm	8.03 A	8127 mNm	
3	111.2:1	5.68 A	33.3 RPM	7512 mNm	8.03 A	11268 mNm	
3	130.9:1	5.68 A	28.3 RPM	8843 mNm	8.03 A	13265 mNm	
3	250:1	5.68 A	14.8 RPM	16888 mNm	8.03 A	25332 mNm	
4	304:1	5.68 A	12.2 RPM	17456 mNm	8.03 A	26184 mNm	
4	346:1	5.68 A	10.7 RPM	19868 mNm	8.03 A	29802 mNm	
4	407:1	5.68 A	9.1 RPM	23370 mNm	8.03 A	35055 mNm	
4	664:1	4.00 A	5.8 RPM	25000 mNm	5.6 A	37500 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max. momentary current	最大瞬间扭矩 Max. momentary torque	重量 Weight
1	3.789:1	4.96 A	924 RPM	644 mNm	7.18 A	966 mNm	
1	4.313:1	4.96 A	812 RPM	733 mNm	7.18 A	1100 mNm	
1	5.077:1	4.96 A	689 RPM	863 mNm	7.18 A	1295 mNm	
2	14.4:1	4.96 A	243 RPM	2081 mNm	7.18 A	3122 mNm	
2	25.8:1	4.96 A	136 RPM	3728 mNm	7.18 A	5592 mNm	
2	39.7:1	4.39 A	90 RPM	5000 mNm	6.33 A	7500 mNm	
3	80.2:1	4.96 A	43.6 RPM	9851 mNm	7.18 A	14777 mNm	
3	111.2:1	4.96 A	31.5 RPM	13658 mNm	7.18 A	20487 mNm	
3	130.9:1	4.96 A	26.8 RPM	16078 mNm	7.18 A	24117 mNm	
3	250:1	4.13 A	14.5 RPM	25000 mNm	5.94 A	37500 mNm	
4	304:1	4.02 A	12.0 RPM	25000 mNm	5.77 A	37500 mNm	
4	346:1	3.59 A	10.7 RPM	25000 mNm	5.13 A	37500 mNm	
4	407:1	3.13 A	9.3 RPM	25000 mNm	4.44 A	37500 mNm	
4	664:1	2.12 A	5.9 RPM	25000 mNm	2.92 A	37500 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	49.2	159.2
2	64.6	174.6
3	77.0	187.0
4	89.4	199.4

我司可根据客户要求设计和生产相关产品,可适配多类型电机。 We can design and produce products according to customers' requirements.

DC ironcore & brushed planetary gearmotor
直流有刷铁芯行星减速电机

ST62PH 系列



单体电机参数表 Specifications of DC motor

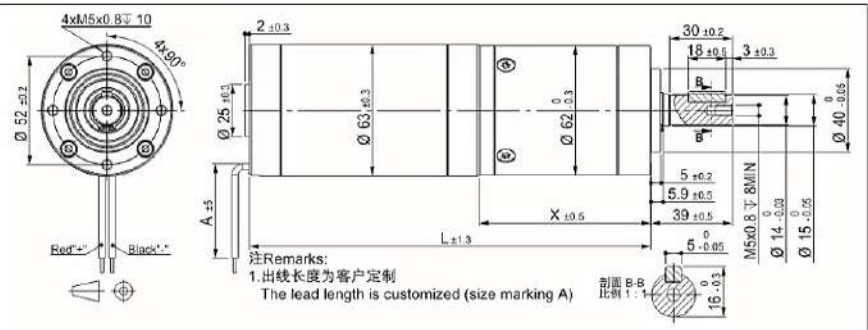
1	工作电压 Nominal voltage	12V DC	24V DC
2	空载电流 No load current	1.94 A	1.41 A
3	空载转速 No load speed	3500 RPM	4700 RPM
4	额定电流 Rated current	13.03 A	9.83 A
5	额定转速 Rated speed	3000 RPM	4000 RPM
6	额定扭矩 Rated torque	0.31 Nm	0.35 Nm
7	堵转电流 Stall current	68.26 A	49.63 A
8	堵转扭矩 Stall torque	2.17 Nm	2.35 Nm
9	最大效率 Max. efficiency	70.0%	70.0%
10	环境温度 Ambient temperature	-20°C~+60°C	
11	输出端轴承 Output end bearing	滚珠轴承 Ball bearing	
12	电刷种类 Type of brush	碳刷 Carbon brush	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	13.03 A	792 RPM	998 mNm	18.58 A	1498 mNm	
1	4.313:1	13.03 A	696 RPM	1136 mNm	18.58 A	1705 mNm	
1	5.077:1	13.03 A	591 RPM	1338 mNm	18.58 A	2007 mNm	
2	14.4:1	13.03 A	208 RPM	3225 mNm	18.58 A	4838 mNm	
2	25.8:1	13.03 A	116 RPM	5779 mNm	18.58 A	8669 mNm	
2	39.7:1	11.92 A	77 RPM	8000 mNm	17.05 A	12000 mNm	
3	80.2:1	13.03 A	37.4 RPM	15268 mNm	18.58 A	22902 mNm	
3	111.2:1	13.03 A	27.0 RPM	21170 mNm	18.58 A	31755 mNm	
3	130.9:1	13.03 A	22.9 RPM	24921 mNm	18.58 A	37381 mNm	
3	250:1	13.03 A	12.0 RPM	47595 mNm	18.58 A	71393 mNm	
4	304:1	13.03 A	9.9 RPM	49194 mNm	18.58 A	73791 mNm	
4	346:1	11.81 A	8.8 RPM	50000 mNm	16.93 A	75000 mNm	
4	407:1	10.36 A	7.7 RPM	50000 mNm	14.57 A	75000 mNm	
4	664:1	7.1 A	4.9 RPM	50000 mNm	9.68 A	75000 mNm	

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

段数 Stage	减速比 Ratio	额定电流 Rated current	额定转速 Rated speed	额定扭矩 Rated torque	最大瞬间电流 Max.momentary current	最大瞬间扭矩 Max.momentary torque	重量 Weight
1	3.789:1	9.83 A	1056 RPM	1127 mNm	14.04 A	1691 mNm	
1	4.313:1	9.83 A	927 RPM	1283 mNm	14.04 A	1925 mNm	
1	5.077:1	9.83 A	788 RPM	1510 mNm	14.04 A	2266 mNm	
2	14.4:1	9.83 A	278 RPM	3641 mNm	14.04 A	5462 mNm	
2	25.8:1	9.83 A	155 RPM	6524 mNm	14.04 A	9786 mNm	
2	39.7:1	8.05 A	104 RPM	8000 mNm	11.53 A	12000 mNm	
3	80.2:1	9.83 A	49.9 RPM	17238 mNm	14.04 A	25857 mNm	
3	111.2:1	9.83 A	36 RPM	23902 mNm	14.04 A	35853 mNm	
3	130.9:1	9.83 A	30.6 RPM	28136 mNm	14.04 A	42204 mNm	
3	250:1	9.23 A	16.2 RPM	50000 mNm	13.28 A	75000 mNm	
4	304:1	8.96 A	13.4 RPM	50000 mNm	12.88 A	75000 mNm	
4	346:1	8.01 A	12 RPM	50000 mNm	11.45 A	75000 mNm	
4	407:1	7.07 A	10.4 RPM	50000 mNm	9.91 A	75000 mNm	
4	664:1	4.88 A	6.6 RPM	50000 mNm	6.62 A	75000 mNm	



齿轮箱段数 Gearbox stages	齿轮箱长(X) Length of gearbox	齿轮电机总成(L) Length of gearmotor
1	53.5	163.5
2	68.9	178.9
3	82.3	192.3
4	95.7	205.7

我司可根据客户要求设计和生产相关产品,可适配多类型电机。We can design and produce products according to customers' requirements.

精密小模数齿轮 Small module gear precision

加工范围：2.0模数以内的精密小模数直齿轮、斜齿轮、蜗轮蜗杆、精切齿轮、精磨齿轮等，精度可达ISO GB 5以上。

We can process precision small module gears within 2.0 modules, including spur gears, helical gears, worm gears, precision cutting gears, etc., with an accuracy of ISO GB5 or above.

马达铜齿 motor copper gear



蜗轮蜗杆 Worm gear



- 高精度马达铜齿：用于各类扫地机、智能机器人、汽车零部件等行业。
High-precision motor copper teeth: used in various sweepers, intelligent robots, auto parts and other industries.
- 蜗轮蜗杆：应用于各类汽车刹车、门窗、座椅等部位。
Worm shafts and worm gears: used in various applications of automobile brakes, doors and windows, seats and other parts.

可来图来样加工定制

We're able to offer custom-made services based on drawings and samples from customers.

精密小模数齿轮 Small module gear precision

加工范围：2.0模数以内的精密小模数直齿轮、斜齿轮、蜗轮蜗杆、精切齿轮、精磨齿轮等，精度可达ISO GB 5以上。

We can process precision small module gears within 2.0 modules, including spur gears, helical gears, worm gears, precision cutting gears, etc., with an accuracy of ISO GB5 or above.

精切和精磨齿轮 Precision cut and ground gears



马达轴齿 Motor shaft gear



- 精切和精磨齿轮：热处理后（HRC60度）精加工产品，精度等级GB5以上，应用于各类高端精密行星减速机。
Precision cut and ground gears: Finished products after heat treatment (HRC60 degrees), with accuracy grades above GB5, used in various applications of high-end precision planetary gearboxes.
- 马达轴齿：广泛应用于各类智能小家电，汽车零部件，电动工具等。
Motor shaft gear: widely used in all kinds applications of smart home appliances, auto parts, power tools, etc.

可来图来样加工定制

We're able to offer custom-made services based on drawings and samples from customers.

产品需求信息表 Inquiry Checklist Form

客户代码 Customer's ID		项目号 Project NO.		客户行业 Industry field	
产品用途 Product application		客户型号 Customer's model		项目等级 Project level	A级 ☐ 其他 ☐ Level A other
年用量 Annual quantity		样机需求数量 Product application		需求报价阶梯 Quantity for quotation	
项目开发阶段 Project development phase	概念期 ☐ 样机期 ☐ 量产期 ☐ 其他 ☐ Concept phase Prototype phase Mass production phase Other				
重点关注事项 Customer focus	质量 ☐ 噪音 ☐ 一致性 ☐ 交期 ☐ 寿命 ☐ 可靠性 ☐ 其他 ☐ Quality Noise Consistency Lead time Endurance Reliability Other				
可供参考资料 For reference	技术图纸 ☐ 共 页; 样板 ☐ 共 个; 其他 ☐ Datasheet total page Sample total quantity Other				
需求产品类别 Demand product category	单齿轮箱 ☐ Gearbox		行星齿轮箱 ☐ 正齿轮箱 ☐ 蜗轮蜗杆齿轮箱 ☐ 其他 ☐ Planetary gearbox Spur Gearbox Worm Gearbox Other		
	减速电机 ☐ Gearmotor		有刷电机 ☐ 无刷电机 ☐ 其他 ☐ Brush motor Brushless motor Other		

产品性能参数需求
Product Performance Parameter Requirements

序号 No.	技术指标 Technical specifications	具体要求 Detailed requirements	评审结果 Evaluation outcome
1	额定电压 (可选3~48V) Nominal Voltage(optional 3~48V DC)		
2	额定扭矩 (输入 ☐ /输出 ☐) Nominal Torque (Input/Output)		
3	额定转速 (输入 ☐ /输出 ☐) Nominal Speed (Input/Output)		
4	最大瞬间扭矩 (输入 ☐ /输出 ☐) Nominal Speed (Input/Output)		
5	轴向串动量 ☐ /径向串动量 ☐ Axial play / Radial play		
6	防护等级 ☐ /其他保护功能 ☐ IP class / Other protections		
7	温度 ☐ /湿度 ☐ 要求 Temperature/humidity		
8	寿命 (循环数/小时) life time(Cycles/hours)	连续 ☐ 间断 ☐ _____ H Continuous Discontinuous	
9	运行方式 Runing mode	CW()/OFF()/CCW()/OFF()	
10	尺寸 ☐ /外观要求 ☐ Dimension / Appearance		
11	功率 ☐ /减速比 ☐ /效率 ☐ Power/Ratio / Efficiency		
12	齿轮箱空载回差 Backlash of gearbox		
13	抗干扰和认证要求 EMC & Certifications		
14	轴向最大负荷 Max. axial load on shaft		
15	径向最大负荷 Max. axial load on shaft		
16	安装方向 Direction of assembly		
17	噪音要求 Noise Requirement	空载 ☐ 负载 ☐ No load Rated	
		测试距离 _____ cm, ≤ _____ dB Test distance	
18	补充说明 Supplementary notes		

地址：中国广东省东莞市厚街镇白濠工业区世纪路15号
Add : No.15, Century Road, Baihao Industrial Zone, Houjie Town, Dongguan City, Guangdong Province, China
TEL : (+86)769-39017383 postcode 邮编: 523960
URL : <http://www.gdmotor.cn> / <https://www.silent-motor.com>



东莞市赛仑特实业有限公司
DONGGUAN SILENT INDUSTRY CO.,LTD

地址：中国广东省东莞市厚街镇白濠工业区世纪路15号

ADD : NO.15, BAIHAO INDUSTRY DISTRICT, HOUJIE TOWN, DONGGUAN, GUANGDONG, P.R.OF CHINA

电话：0769-39017383 网址：www.gdmotor.cn / www.silent-motor.com