

- PCB电主轴系列
PCB electric spindle series
- ◎ 玻璃磨削电主轴系列
Electric spindle glass grinding series
- ◎ 高光及超精加工电主轴系列
High-gloss and superfinishing electric spindle series
- ◎ 超声波主轴系列
Ultrasonic spindle series
- ◎ 加工中心主轴系列
Machining center spindle series
- ◎ 钻攻中心电主轴系列
Drilling and tapping center electric spindle series
- ◎ 雕铣电主轴系列
Engraving and milling electric spindle series
- ◎ 磨削产品系列
Grinding solutions
- ◎ 车床主轴系列
Lathe spindle series
- ◎ 木工电主轴系列
Woodworking electric spindle series
- ◎ 牙雕电主轴系列
Dental electric spindle series
- ◎ 减速器系列
Reducer series
- ◎ 直线电机系列
Linear motor series
- ◎ 转台及摆头系列
Turntable and swivel rotary head series
- ◎ 刀柄夹头系列
Tool holder and collet series
- ◎ 夹具系列
Clamping series
- ◎ 昊志氢电空压机
Haozhi hydrogen electric air compressor

PCB电主轴系列

PCB electric spindle series



www.haozhihs.com

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广州市昊志机电股份有限公司
GUANGZHOU HAOZHI INDUSTRIAL CO.,LTD.

高精 · 高效 · 高稳定性

昊志机电产品之道

High precision · High efficiency · High stability

Haozhi Product Philosophy

为助力全球先进装备制造,
提升人类良好体验
而奋斗不止

keeps on striving for global advanced
manufacturing industry,for improving
human experience.

关于我们 About us

广州市昊志机电股份有限公司成立于2006年，是一家专业从事中高端数控机床、机器人、新能源汽车核心功能部件等的研发设计、生产制造、销售与维修服务的国家高新技术企业，于2016年在创业板上市（股票代码300503）。

昊志机电秉承“立足自主技术创新、服务全球先进制造”的发展战略，逐步发展成为国内外主轴专业领域中研产销规模最大的企业之一，电主轴领域全球市场占有率第一，公司立足主轴行业，借助在研发、制造、客户、品牌等方面的积累，稳步向数控机床和工业机器人等高端装备的核心功能部件领域横向扩张，目前产品涵盖PCB钻孔机/成型机/划片机电主轴、数控金属/玻璃雕铣机电主轴、数控车床主轴/电主轴、走芯车床电主轴、直结与皮带式机械主轴、加工中心电主轴、钻攻中心电主轴、高速内/外圆磨床主轴、木工雕铣机电主轴、高光及超精加工电主轴、超声波电主轴、液静压主轴、铣削动力头、末端执行机构、刀柄夹头、数控转台、直线电机、谐波减速器、数控系统、伺服电机、驱动器、传感器、燃料电池压缩机、曝气鼓风机、直驱类高速风机等数十个系列上百种产品。

昊志机电拥有一批经验丰富、锐意创新的科技型人才队伍，研发人员400余人，研究生占比12%，具备优异的创新水平、研发实力和竞争力，近三年平均研发投入占营收比重的8%以上，截止2024年12月31日，公司及境内子公司合计拥有专利819项。公司具备完善、齐全的各类高端实验室，包括：理化实验室、轴承实验室、测量实验室、电机实验室、综合性能实验室、切削实验室、直线电机实验室、减速机实验室、机器人实验室、磨合测试实验室、抗干扰能力实验室、可靠性实验室等。

Guangzhou Haozhi Industrial Co., Ltd.

Founded in 2006 and listed on GEM (stock code: 300503) in 2016, Haozhi is a international high-tech enterprise specializing in the R&D, design, production, sales, and maintenance of core functional components for mid- to high-end CNC machine tools, robots, and new-energy vehicles. Haozhi leads the motor spindles market and continues to expand.

Haozhi product range includes:

- Dental Spindles
- High Speed Cutting Spindles
- High Performance Cutting Spindles
- Coupling Spindles
- Turning Spindles
- Grinding Spindles
- PCB Drilling/Routing Spindles
- Ultra-precision Finish Milling Spindles
- Collets and Tool holders
- 4 Axis and 5 Axis Rotary Tables
- Linear Motors
- Cobots/Harmonic Reducers/Robot Joint/Brake/Torque Sensor/End Effector
- EV Hydrogen Compressor

Haozhi boasts a highly skilled and innovative team with over 300 R&D personnel and more than 30 specially appointed experts, both domestic and international masters. The proportion of R&D investment in operating income over the past three years exceeds 8%, resulting in 819 patents as of December 31, 2024. Haozhi maintains comprehensive high-end laboratories for extensive testing and innovation.



江东厂 Jiangdong Factory



田园厂 Tianyuan Factory

禾丰厂 Hefeng Factory



湖南显隆厂 Hunan Xianlong Factory



瑞士工厂 Swiss Factory



汇聚全球顶尖的加工设备
最高加工精度可达0.1μm

Gathers World-class cutting-edge processing equipment

Asia's first fully automated production line,
Machining precision up to 0.1μm

全球知名的生产基地

厂房建筑面积18.9万平方米, 产能达约200,000支/年。

Global Manufacturing Base

Covering an area of 189,000 m², capacity: about 200,000pcs spindles per year.



雄踞世界级技术研究中心

300余人研发团队, 近三年研发投入占
销售额8%以上

Haozhi has world-class technology research center

More than 300 r&d team, r&d investment in the past three years accounted for more than 8% of sales



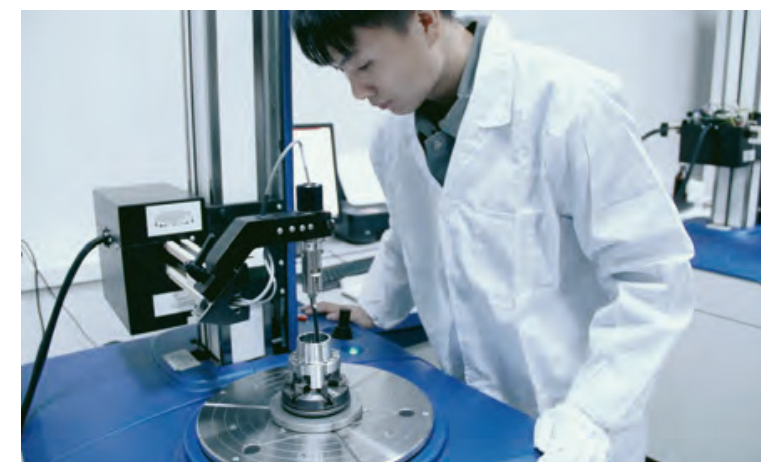
西班牙厂 Spanish Factory



上海工厂 Shanghai Factory



法国工厂 French Factory



国际一流检测仪器及设备
具备纳米级检测精度

Ultra-precision measuring instrument and inspection equipment

With nanoscale precision

PCB电主轴系列

PCB electric spindle series

主要应用于电路板行业（PCB）钻孔和成型高速高精度加工。
Mainly applied for the industries of Printed circuit board (PCB) drilling and routing process, with high speed and high precision.



主要性能特点

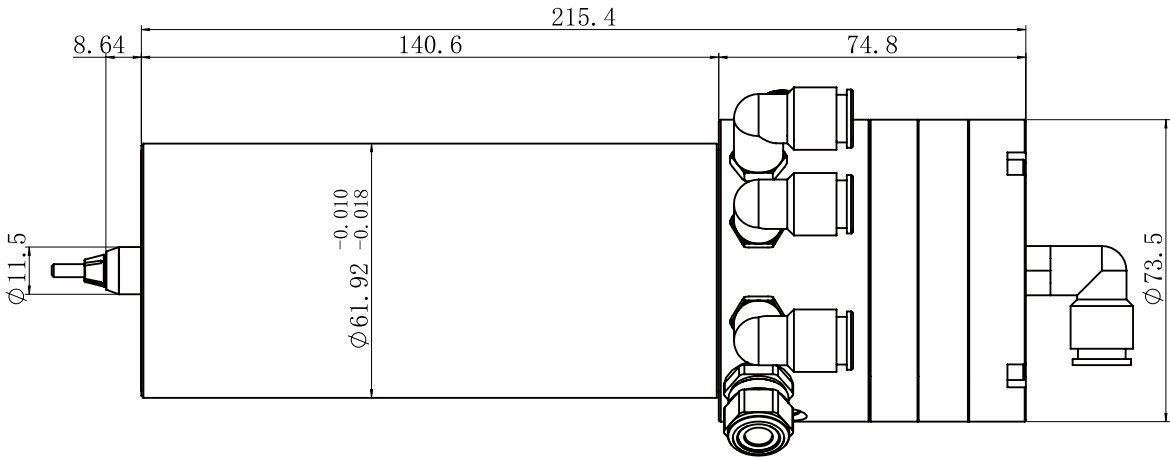
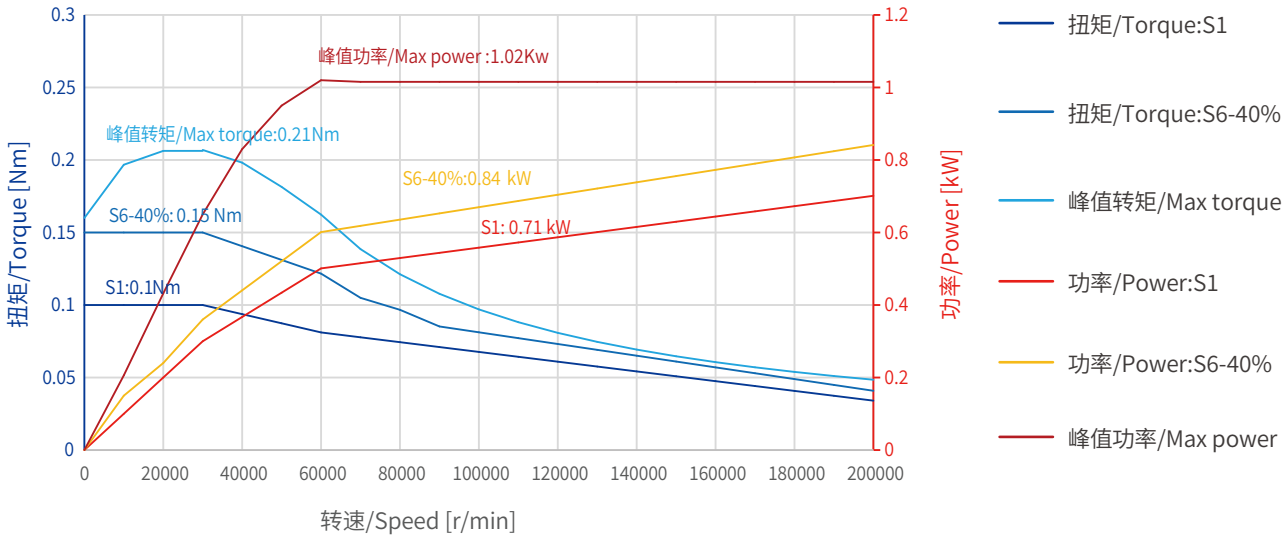
Main Features

高效率 PCB钻孔电主轴最高转速高达400000rpm。极限启停速度：实现3.8秒直升200,000rpm，7.5秒直升250,000rpm。综合加工效率提升23%。PCB成型电主轴最高转速高达75000rpm（滚珠），80000rpm（气浮），实现高转速，高效率加工。	High efficiency PCB drilling motorized spindle has the maximum speed of 400,000rpm. Limit start and stop speed: It can reach to 200,000 RPM in 3.8s and reach to 250,000 RPM in 7.8s.And the comprehensive machining efficiency improvement of 23%. PCB molding motorized spindle has the maximum speed of 75,000rpm (ball bearing), 80,000rpm (air bearing), to achieve high speed and high-efficiency machining.
高性能 结合驱动器性能特点，设计高性能双绕组电机(具有低速大扭矩，高速高效率的特点)，提高加工转速、输出功率、扭矩，加工能力大幅提升。其中，创新型产品DQF-200E4.S和颠覆性产品DQF-250B.S，6.35mm刀具连续加工10000孔以上（S20000 F0.3 R5.03*1.6 mmFR4），能轻松应对各类厚板、硬板。	High performance Leveraging the performance characteristics of the driver, a high-performance dual-winding motor is designed—featuring high torque at low speeds and high efficiency at high speeds—and this motor enhances machining speed, output power, and torque while significantly boosting overall machining capacity; among the product lineup, the innovative product DQF-200E4.S and the disruptive product DQF-250B.S, when equipped with a 6.35mm cutter, can continuously machine over 10,000 holes (S20000, F0.3, R5.03×1.6 mm FR4) and easily handle various thick and hard plates.
高节能 保证性能前提下，气浮主轴耗气量和滚珠主轴防尘气封耗气量优化到最小，降低终端客户使用成本，耗气量可降低20%。	High energy conservation Under the premise of ensuring the performance, the gas consumption of the air bearing spindle and the dust proof gas seal of the ball bearing spindle can be optimized to the minimum, so as to reduce the use cost of terminal users and the gas consumption can be reduced by 20%.
高精度 PCB行业电主轴静态回转精度≤2μm，动态精度≤6μm（出厂标准），具有无与伦比的高精密度的特性，实现更高的钻孔CPK值。	High precision The PCB industry motorized spindle has the static rotation precision of ≤2μm, and the dynamic precision of ≤6μm (factory standard), with unmatched high precision, achieving higher drilling CPK value.
长寿命 高分子材料的轴霸、高稳定性能的碟簧和高氮不锈钢材料组合而成的拉刀机构，能稳定50万次无故障使用。同时还配有电机温度传感器，轴芯转速传感器等保护功能。	Long service life The broaching mechanism composed of spindle made of high polymer material, high-stability disc spring and high nitrogen stainless steel materials, can be used for 500,000 times without failure. At the same time, it is also equipped with motor temperature sensor, spindle core speed sensor and other protective functions.
低维护率 简洁的结构设计，使后期的维护成本大幅度降低，20万转钻孔机主轴平均维护成本相比传统结构设计，可大幅降低维护成本20%。	Low maintenance rate The simple structure design significantly reduces the later maintenance cost. Compared with the traditional structure design, the average maintenance cost of the spindle of 200,000rpm drilling machine can be significantly reduced by 20%.

DQF-200E



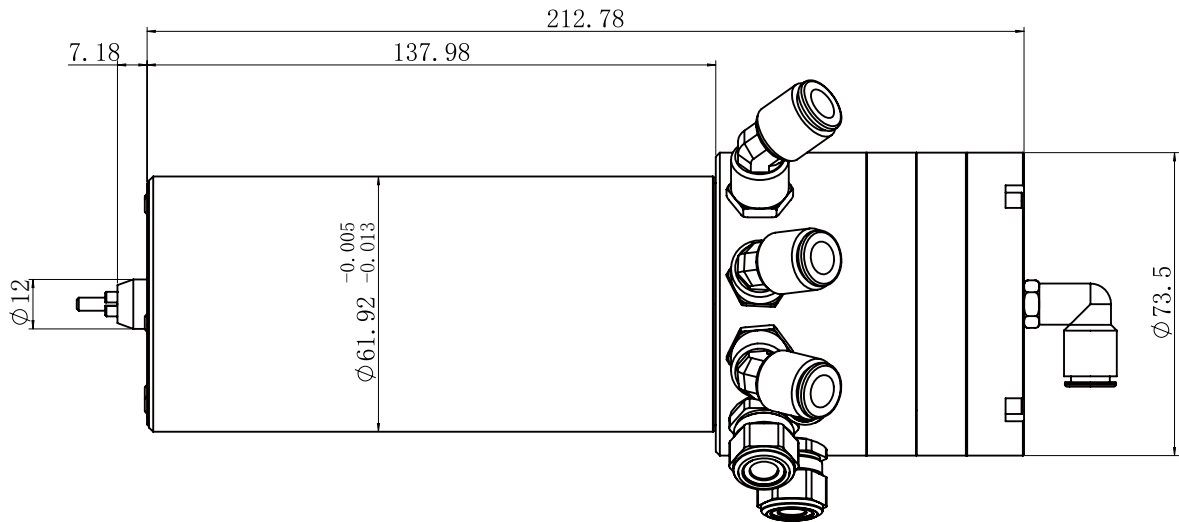
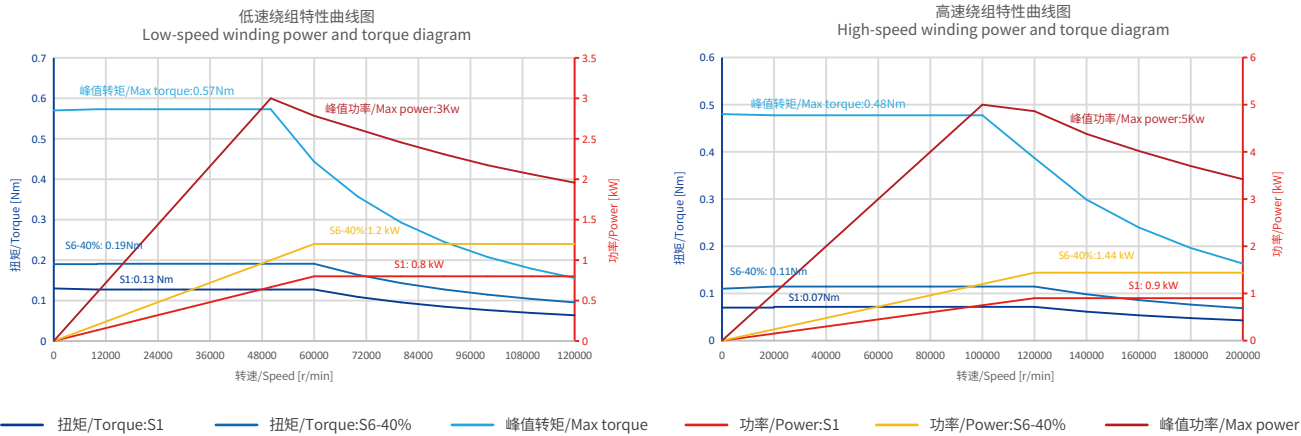
高速绕组特性曲线图
High-speed winding power and torque diagram



主轴型号	DQF-200E	
最高转速	200000 rpm	
最高电压	200 V	
额定功率S6	低速绕组	/
	高速绕组	0.84 kW
额定转矩S6	低速绕组	/
	高速绕组	0.15 N · m
最高频率	低速绕组	/
	高速绕组	3333 Hz
额定电流S6	低速绕组	/
	高速绕组	3.3 A
夹头扭矩	≥127 N · cm	
振动值	≤0.8 mm/s	
冷却形式及介质	内冷，水	
冷却系统冷却液流量	水：≥1.5 L/min (水压力0.2MPa)	
气缸工作气压	0.56~0.60 MPa	
轴承工作气压	0.6~0.65 MPa	
轴端静态偏摆	≤2.0 μm	
轴端动态偏摆	≤6.0 μm	
气路系统气流量	40~48 L/min	
重量	3.2 kg	

Spindle model	DQF-200E	
Maximum speed	200000 rpm	
Maximum voltage	200 V	
Rated power	Low winding	/
	High winding	0.84 kW
Rated power	Low winding	/
	High winding	0.15 N · m
Maximum frequency	Low winding	/
	High winding	3333 Hz
Rated current	Low winding	/
	High winding	3.3 A
Chuck torque	≥127 N · cm	
Vibration values	≤0.8 mm/s	
Cooling form and medium	Inteinal cooling,Water	
Cooling system coolant flow	Water: ≥1.5 L/min (Water pressure 0.2MPa)	
Cylinder working pressure	0.56~0.60 MPa	
Bearing working pressure	0.6~0.65 MPa	
Static runout	≤2.0 μm	
Dynamic runout	≤6.0 μm	
Air system air flow	40~48 L/min	
Weight	3.2 kg	

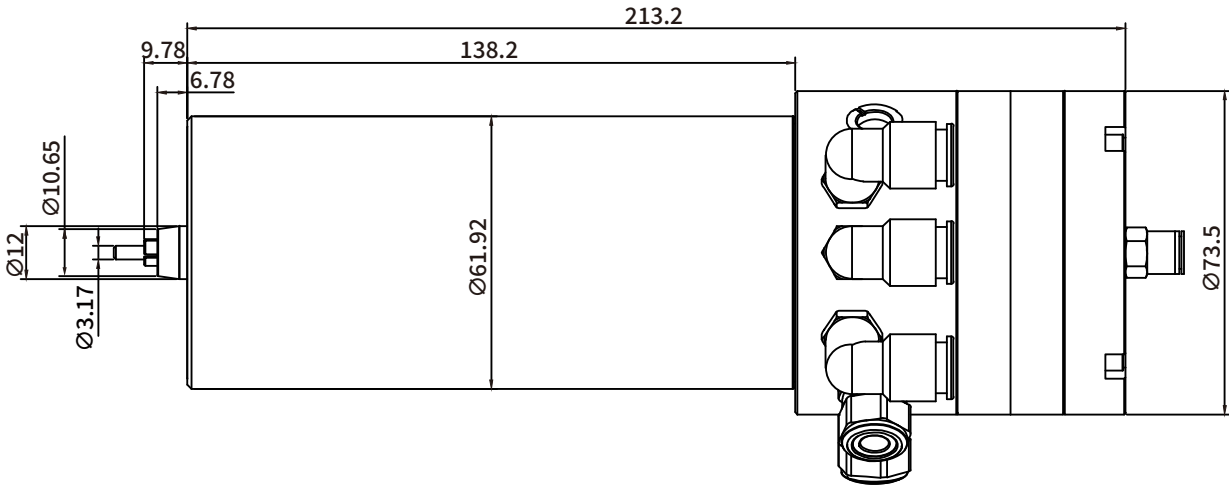
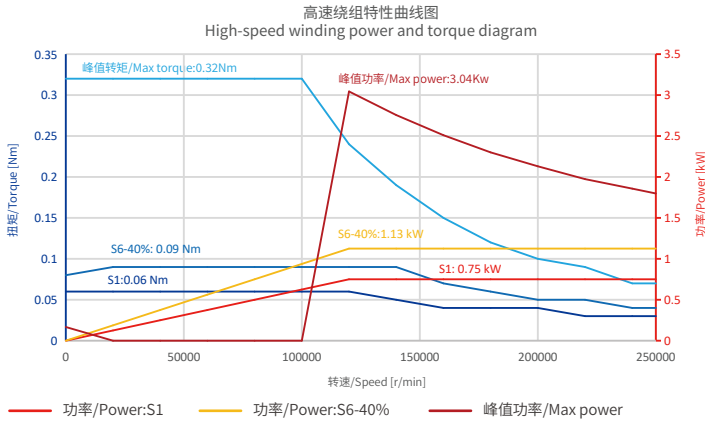
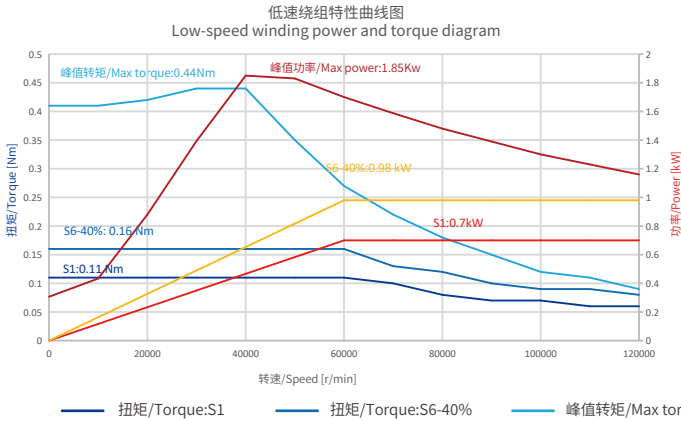
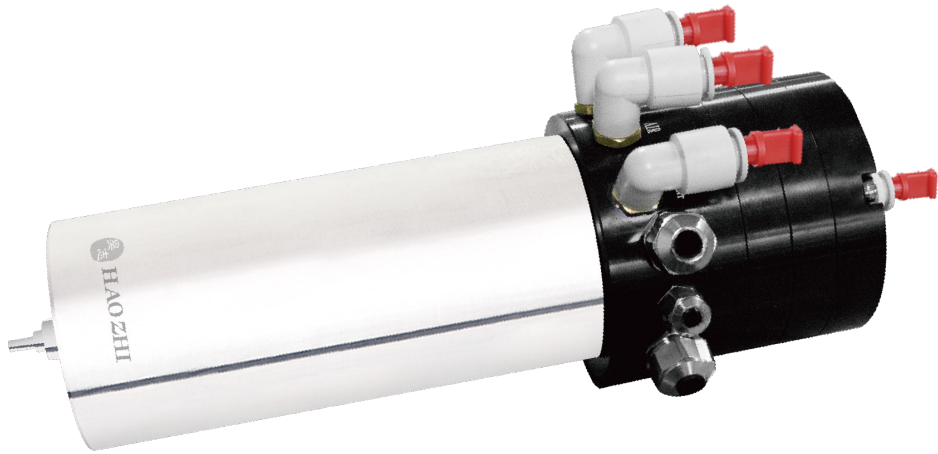
DQF-200E4.S



主轴型号	DQF-200E4.S	
最高转速	低速绕组 120000 rpm 高速绕组 200000 rpm	
最高电压	220 V	
额定功率S6	低速绕组	1.2 kW
	高速绕组	1.44 kW
额定转矩S6	低速绕组	0.19 N · m
	高速绕组	0.11 N · m
最高频率	低速绕组	2000 Hz
	高速绕组	3333 Hz
额定电流S6	低速绕组	5.25 A
	高速绕组	6.4 A
夹头扭矩	≥165 N · cm	
振动值	≤0.8 mm/s	
冷却形式及介质	内冷，水	
冷却系统冷却液流量	水：≥2 L/min (水压力0.2MPa)	
气缸工作气压	0.56~0.60 MPa	
轴承工作气压	0.6~0.65 MPa	
轴端静态偏摆	≤2.0 μm	
轴端动态偏摆	≤6.0 μm	
气路系统气流量	40~48 L/min	
重量	3.5 kg	

Spindle model	DQF-200E4.S	
Maximum speed	low-speed winding 120000 rpm High-speed winding 200000 rpm	
Maximum voltage	220 V	
Rated power	Low winding	1.2 kW
	High winding	1.44 kW
Rated power	Low winding	0.19 N · m
	High winding	0.11 N · m
Maximum frequency	Low winding	2000 Hz
	High winding	3333 Hz
Rated current	Low winding	5.25 A
	High winding	6.4 A
Chuck torque	≥165 N · cm	
Vibration values	≤0.8 mm/s	
Cooling form and medium	Inteinal cooling,Water	
Cooling system coolant flow	Water: ≥2 L/min (Water pressure 0.2MPa)	
Cylinder working pressure	0.56~0.60 MPa	
Bearing working pressure	0.6~0.65 MPa	
Static runout	≤2.0 μm	
Dynamic runout	≤6.0 μm	
Air system air flow	40~48 L/min	
Weight	3.5 kg	

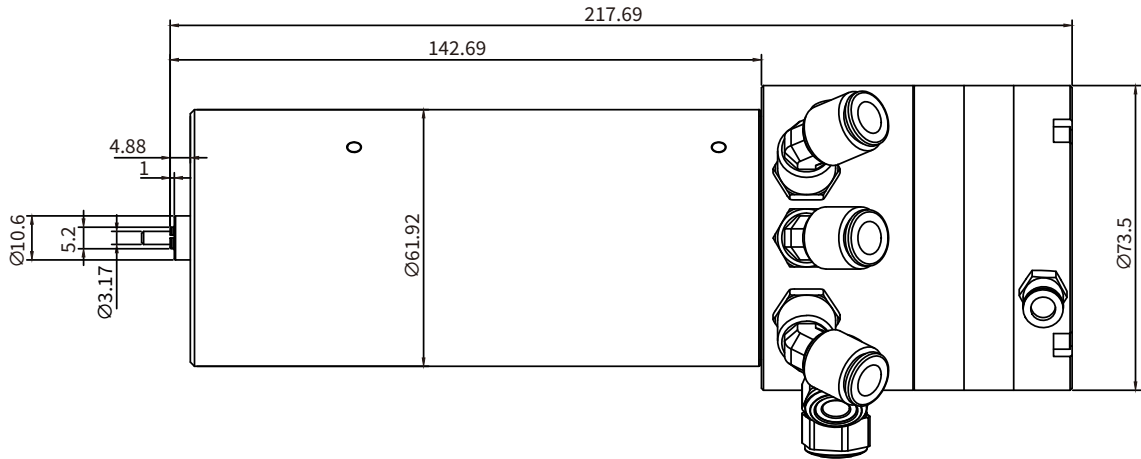
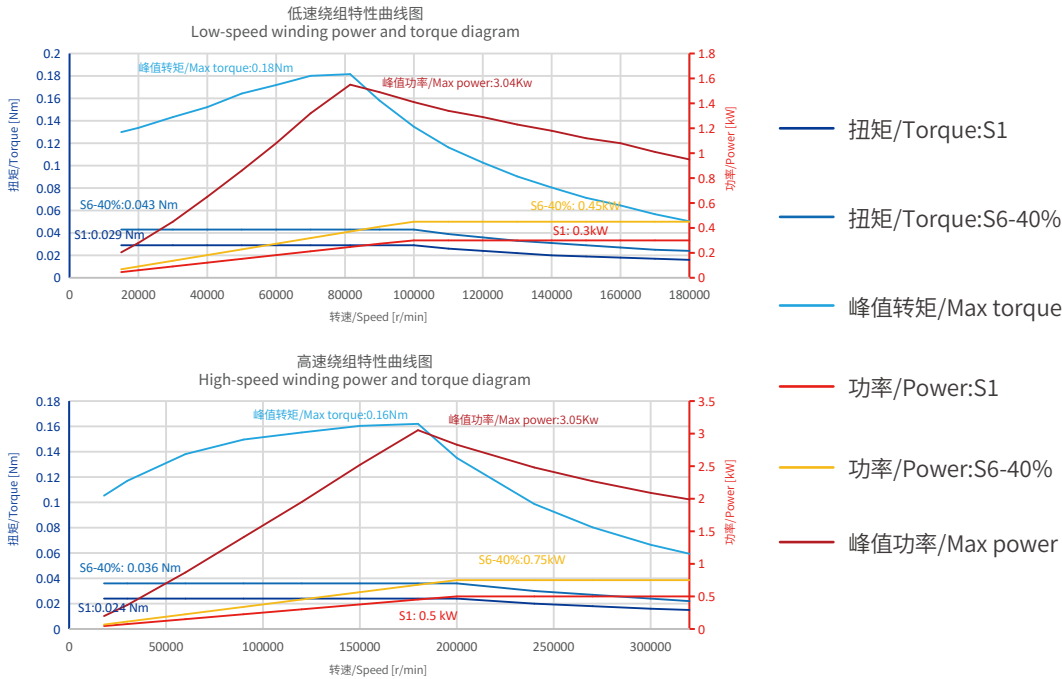
DQF-250B.S



主轴型号	DQF-250B.S	
最高转速	低速绕组 120000 rpm 高速绕组 250000 rpm	
最高电压	220 V	
额定功率S6	低速绕组	0.98 kW
	高速绕组	1.125 kW
额定转矩S6	低速绕组	0.16 N · m
	高速绕组	0.09 N · m
最高频率	低速绕组	2000 Hz
	高速绕组	4167 Hz
额定电流S6	低速绕组	4.48 A
	高速绕组	3.3 A
夹头扭矩	≥165 N · cm	
振动值	≤0.8 mm/s	
冷却形式及介质	内冷，水	
冷却系统冷却液流量	水：≥2 L/min (水压0.2MPa)	
气缸工作气压	0.56~0.60 MPa	
轴承工作气压	0.6~0.65 MPa	
轴端静态偏摆	≤2.0 μm	
轴端动态偏摆	≤6.0 μm	
气路系统气流量	40~48 L/min	
重量	3.4 kg	

Spindle model	DQF-250B.S	
Maximum speed	low-speed winding 120000 rpm High-speed winding 250000 rpm	
Maximum voltage	220 V	
Rated power	Low winding	0.98 kW
	High winding	1.125 kW
Rated power	Low winding	0.16 N · m
	High winding	0.09 N · m
Maximum frequency	Low winding	2000 Hz
	High winding	4167 Hz
Rated current	Low winding	4.48 A
	High winding	3.3 A
Chuck torque	≥165 N · cm	
Vibration values	≤0.8 mm/s	
Cooling form and medium	Inteinal cooling,Water	
Cooling system coolant flow	Water: ≥2 L/min (Water pressure 0.2MPa)	
Cylinder working pressure	0.56~0.60 MPa	
Bearing working pressure	0.6~0.65 MPa	
Static runout	≤2.0 μm	
Dynamic runout	≤6.0 μm	
Air system air flow	40~48 L/min	
Weight	3.4 kg	

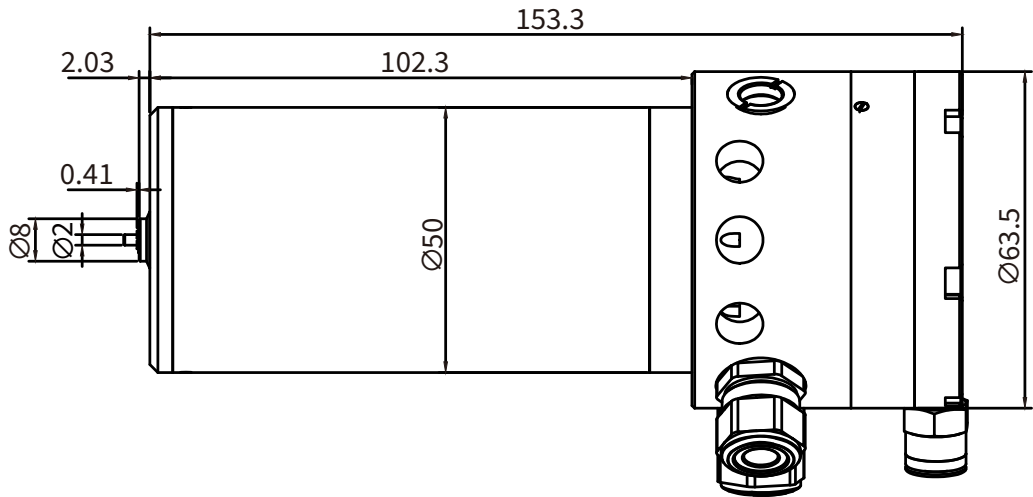
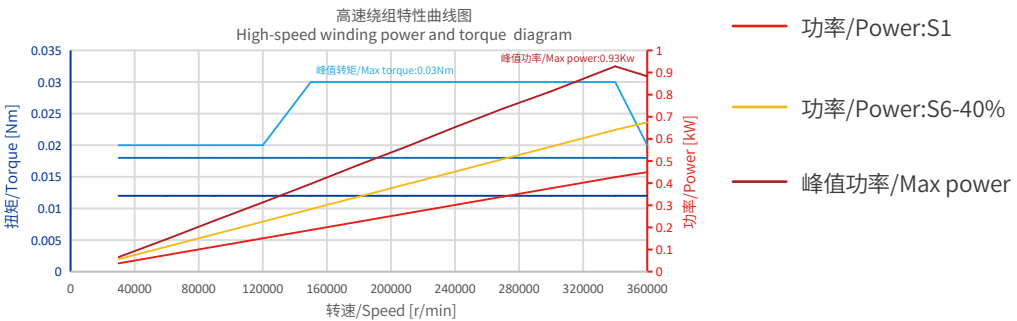
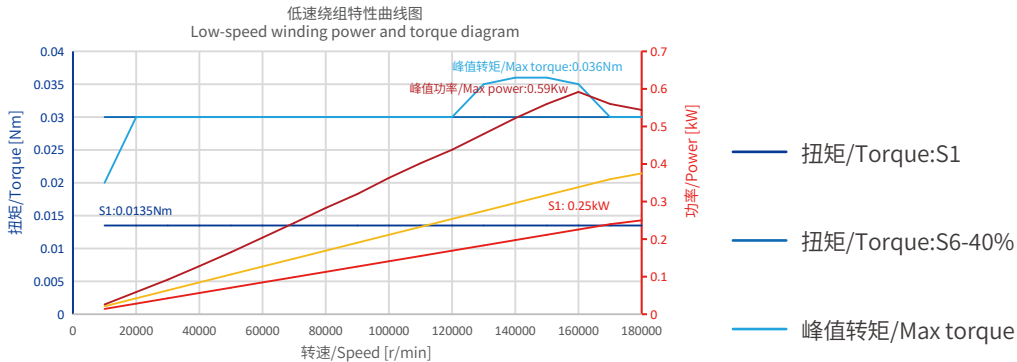
DQF-320E



主轴型号	DQF-320E	
最高转速	低速绕组 180000 rpm 高速绕组 320000 rpm	
最高电压	220 V	
额定功率S6	低速绕组	0.45 kW
	高速绕组	0.75 kW
额定转矩S6	低速绕组	0.043 N · m
	高速绕组	0.036 N · m
最高频率	低速绕组	3000 Hz
	高速绕组	5334 Hz
额定电流S6	低速绕组	2.95 A
	高速绕组	4.5 A
夹头扭矩	≥87.5 N · cm	
振动值	≤0.8 mm/s	
冷却形式及介质	内冷，水	
冷却系统冷却液流量	水：≥1.0 L/min (水压力0.2MPa)	
气缸工作气压	0.55~0.60 MPa	
轴承工作气压	0.65~0.75 MPa	
轴端静态偏摆	≤2.0 μm	
轴端动态偏摆	≤6.0 μm	
气路系统气流量	50~66 L/min	
重量	2.6 kg	

Spindle model	DQF-320E	
Maximum speed	low-speed winding 180000 rpm High-speed winding 320000 rpm	
Maximum voltage	220 V	
Rated power	Low winding	0.45 kW
	High winding	0.75 kW
Rated power	Low winding	0.043 N · m
	High winding	0.36 N · m
Maximum frequency	Low winding	3000 Hz
	High winding	5334 Hz
Rated current	Low winding	2.95 A
	High winding	4.5 A
Chuck torque	≥87.5 N · cm	
Vibration values	≤0.8 mm/s	
Cooling form and medium	Inteinal cooling,Water	
Cooling system coolant flow	Water: ≥1.0 L/min (Water pressure 0.2MPa)	
Cylinder working pressure	0.55~0.60 MPa	
Bearing working pressure	0.65~0.75 MPa	
Static runout	≤2.0 μm	
Dynamic runout	≤6.0 μm	
Air system air flow	50~66 L/min	
Weight	2.6 kg	

DQF-360



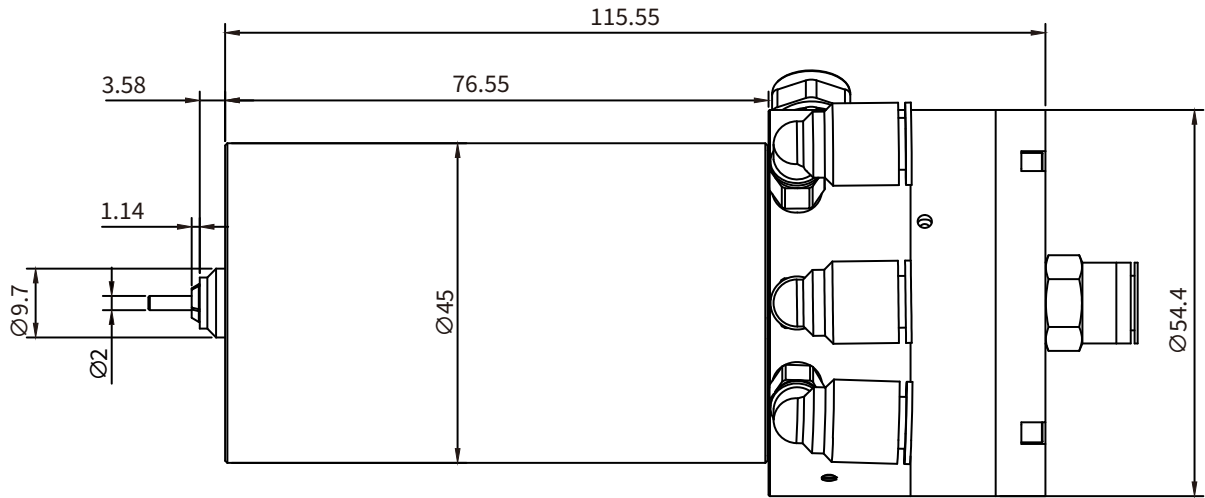
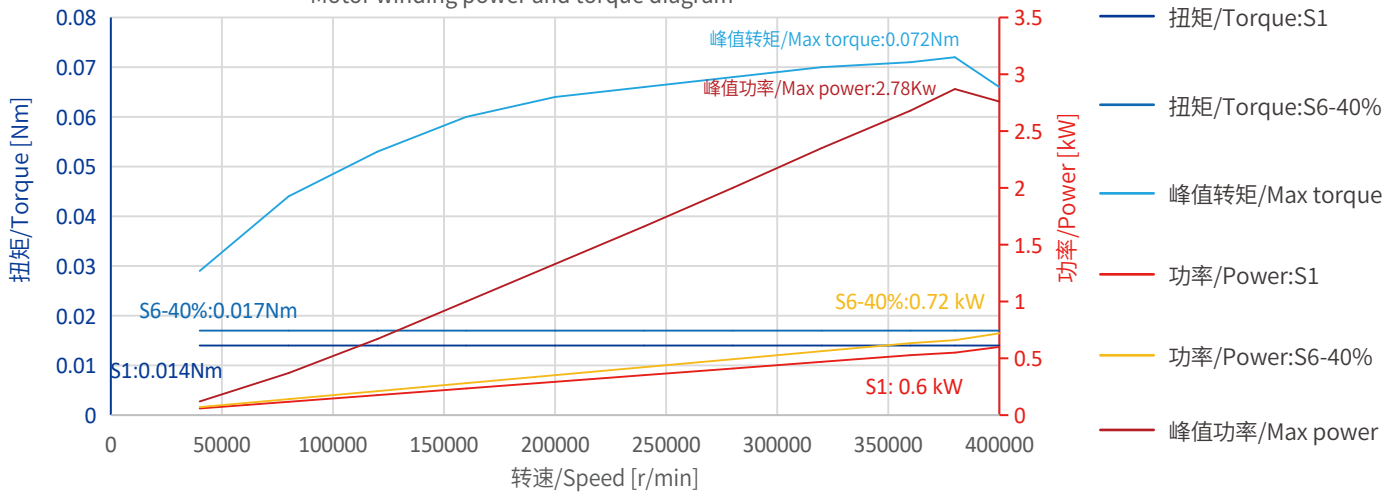
主轴型号	DQF-360	
最高转速	低速绕组 180000 rpm 高速绕组 360000 rpm	
最高电压	220 V	
额定功率S6	低速绕组	0.375 kW
	高速绕组	0.675 kW
额定转矩S6	低速绕组	0.022 N · m
	高速绕组	0.018 N · m
最高频率	低速绕组	3000 Hz
	高速绕组	6000 Hz
额定电流S6	低速绕组	2.1 A
	高速绕组	3.3 A
夹头扭矩	≥50 N · cm	
振动值	≤0.8 mm/s	
冷却形式及介质	内冷，水	
冷却系统冷却液流量	水：≥2 L/min (水压0.2MPa)	
气缸工作气压	0.56~0.60 MPa	
轴承工作气压	0.65~0.75 MPa	
轴端静态偏摆	≤2.0 μm	
轴端动态偏摆	≤6.0 μm	
气路系统气流量	42~50 L/min	
重量	1.5 kg	

Spindle model	DQF-360	
Maximum speed	low-speed winding 180000 rpm High-speed winding 360000 rpm	
Maximum voltage	220 V	
Rated power	Low winding	0.375 kW
	High winding	0.675 kW
Rated power	Low winding	0.022 N · m
	High winding	0.018 N · m
Maximum frequency	Low winding	3000 Hz
	High winding	6000 Hz
Rated current	Low winding	2.1 A
	High winding	3.3 A
Chuck torque	≥50 N · cm	
Vibration values	≤0.8 mm/s	
Cooling form and medium	Inteinal cooling,Water	
Cooling system coolant flow	Water: ≥2 L/min (Water pressure 0.2MPa)	
Cylinder working pressure	0.56~0.60 MPa	
Bearing working pressure	0.65~0.75 MPa	
Static runout	≤2.0 μm	
Dynamic runout	≤6.0 μm	
Air system air flow	42~50 L/min	
Weight	1.5 kg	

DQF-400



电机绕组特性曲线图
Motor winding power and torque diagram



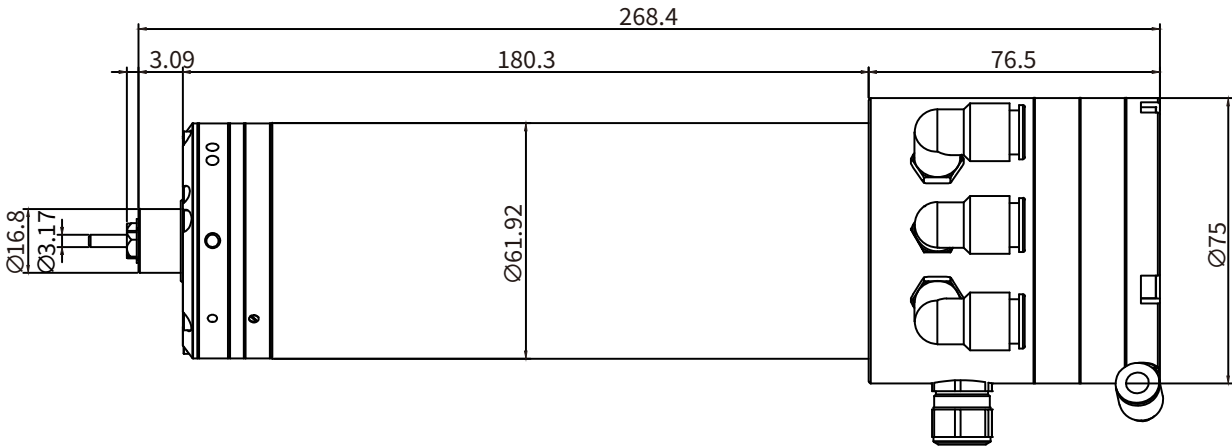
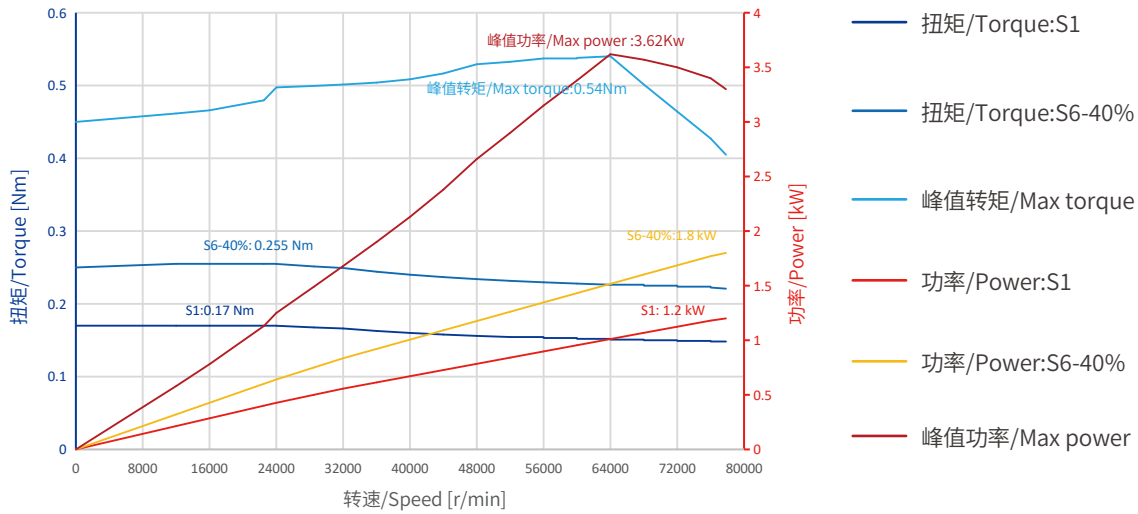
主轴型号	DQF-400	
最高转速	400000 rpm	
最高电压	200 V	
额定功率S6	低速绕组	/
	高速绕组	0.72 kW
额定转矩S6	低速绕组	/
	高速绕组	0.017 N · m
最高频率	低速绕组	/
	高速绕组	6667 Hz
额定电流S6	低速绕组	/
	高速绕组	2.4 A
夹头扭矩	≥25.4 N · cm	
振动值	≤0.6 mm/s	
冷却形式及介质	内冷，水或油	
冷却系统冷却液流量	水：≥1.2 L/min (水压力0.2MPa)	
气缸工作气压	0.56~0.60 MPa	
轴承工作气压	0.65~0.75 MPa	
轴端静态偏摆	≤2.0 μm	
轴端动态偏摆	≤6.0 μm	
气路系统气流量	36~44 L/min	
重量	1.0 kg	

Spindle model	DQF-400	
Maximum speed	400000 rpm	
Maximum voltage	200 V	
Rated power	Low winding	/
	High winding	0.72 kW
Rated power	Low winding	/
	High winding	0.017 N · m
Maximum frequency	Low winding	/
	High winding	6667 Hz
Rated current	Low winding	/
	High winding	2.4 A
Chuck torque	≥25.4 N · cm	
Vibration values	≤0.6 mm/s	
Cooling form and medium	Internal cooling, water or oil	
Cooling system coolant flow	Water: ≥1.2 L/min (Water pressure 0.2MPa)	
Cylinder working pressure	0.56~0.60 MPa	
Bearing working pressure	0.65~0.75 MPa	
Static runout	≤2.0 μm	
Dynamic runout	≤6.0 μm	
Air system air flow	36~44 L/min	
Weight	1.0 kg	

DQFX-06280/1.2-DPWS



电机绕组特性曲线图
Motor winding power and torque diagram

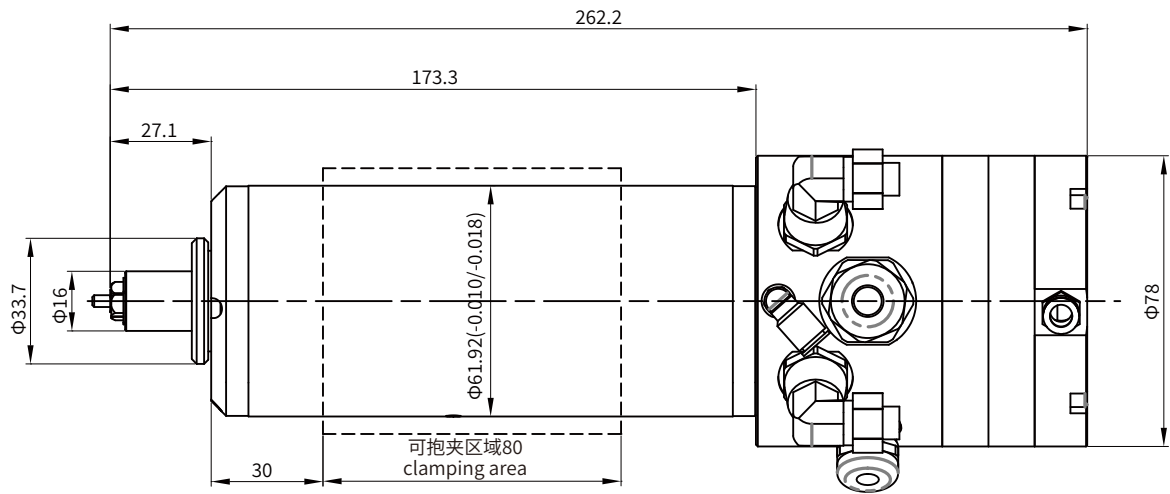
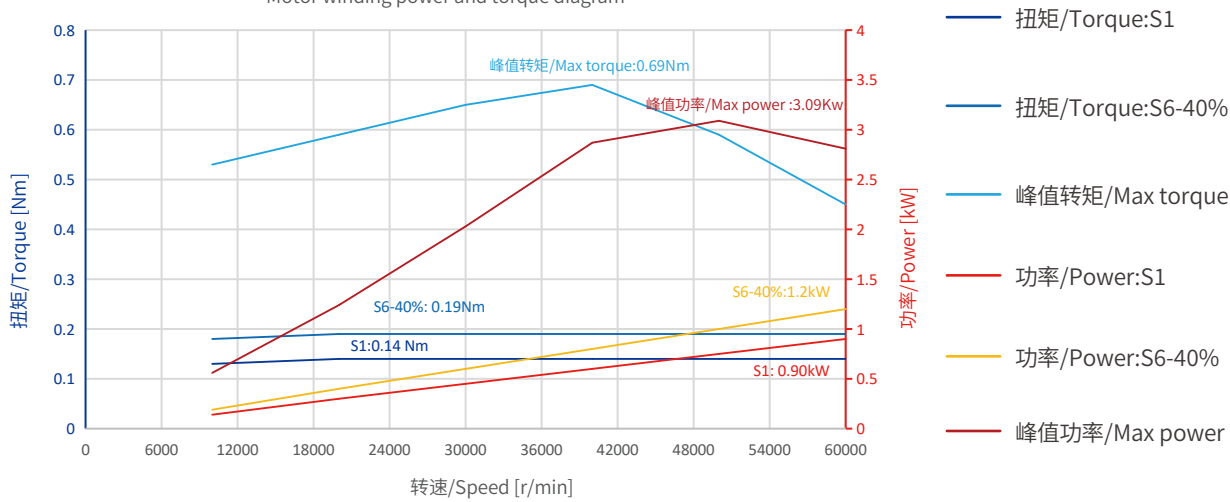


主轴型号	DQFX-06280/1.2-DPWS	Spindle model	DQFX-06280/1.2-DPWS
最高转速	80000 rpm	Maximum speed	80000 rpm
最高电压	220 V	Maximum voltage	220 V
额定功率S6	1.5 kW	Rated power	1.5 kW
额定转矩S6	0.0255 N · m	Rated power	0.0255 N · m
最高频率	1333Hz	Maximum frequency	1333Hz
额定电流S6	5 A	Rated current	5 A
夹头扭矩	≥254 N · m (刀柄3.175)	Chuck torque	≥254 N · m (Hilt 3.175)
振动值	≤0.8 mm/s	Vibration values	≤0.8 mm/s
冷却形式及介质	内冷, 水	Cooling form and medium	Internal cooling, water
冷却系统冷却液流量	水: ≥1.5 L/min(水压力0.2MPa)	Cooling system coolant flow	Water: ≥1.5 L/min (Water pressure 0.2MPa)
气缸工作气压	0.56~0.60 MPa	Cylinder working pressure	0.56~0.60 MPa
轴承工作气压	0.6~0.65 MPa	Bearing working pressure	0.6~0.65 MPa
轴端静态偏摆	≤2.0 μm	Static runout	≤2.0 μm
轴端动态偏摆	≤6.0 μm	Dynamic runout	≤6.0 μm
气路系统气流量	86~92 (@80000rpm)	Air system air flow	86~92 (@80000rpm)
重量	4.8 kg	Weight	4.8 kg

DGZ-60C3.S



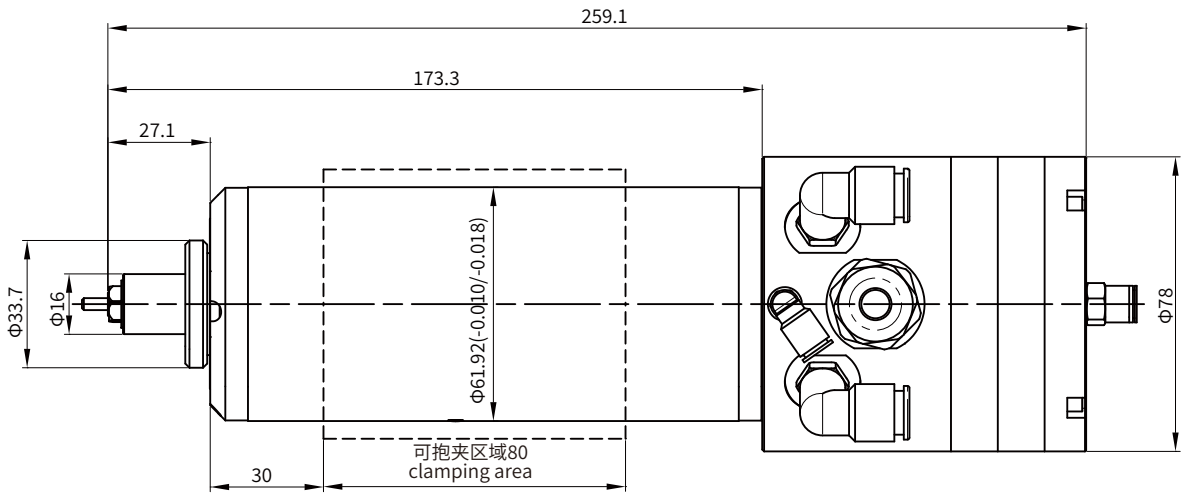
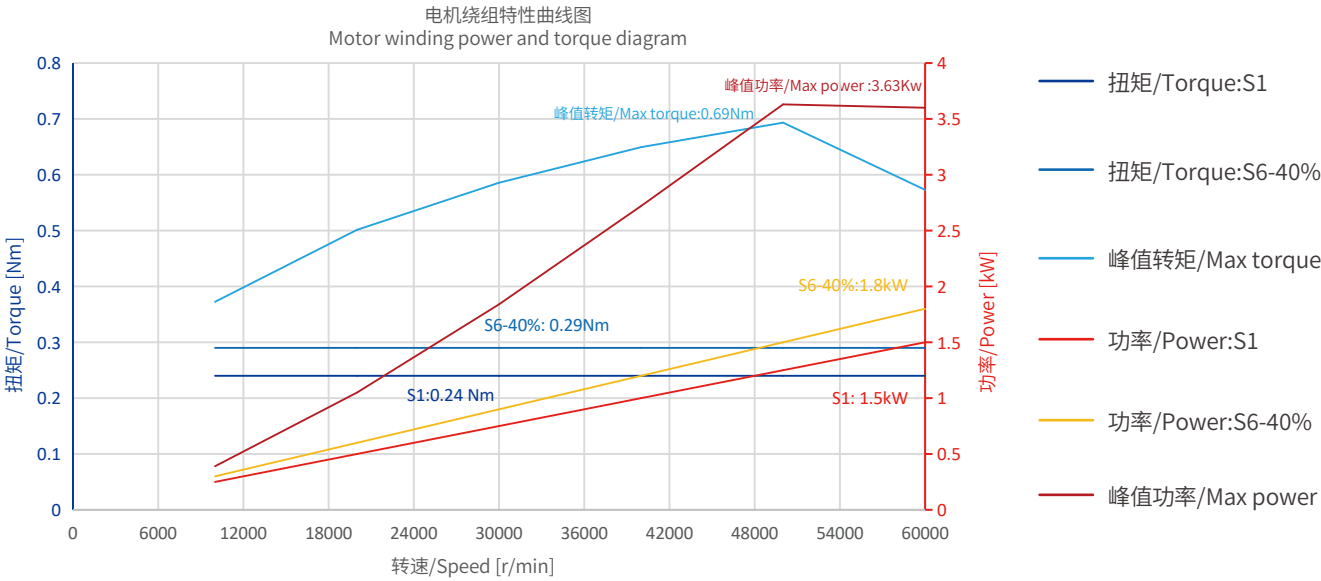
电机绕组特性曲线图
Motor winding power and torque diagram



主轴型号	DGZ-60C3.S
直径	$\Phi 61.92\text{mm}$
最高转速	60,000rpm
刀柄型号	B005直柄夹头
轴承类型	陶瓷球轴承
最大频率	1,000Hz
电机类型	异步
额定电压	200V
输出功率S1 100%	0.9kW
输出功率S6 40%	1.2kW
输出扭矩S1 100%	0.15N.m
输出扭矩S6 40%	0.19N.m
额定电流S1 100%	3.5A
额定电流S6 40%	4.2A
气封气流量	30-50L/min (气压0.15MPa)
冷却方式	水冷
冷却流量	$\geq 1.6\text{L/min}$
电机温度传感器类型	PTC
换刀方式	气缸
换刀气压	0.56-0.60MPa
振动速度	0.8mm/s
测速功能	是
重量	$4.24\pm 0.5\text{kg}$

SpindleModel	DGZ-60C3.S
Diameter	$\Phi 61.92\text{mm}$
The highest speed	60,000rpm
Tool interface	B005 draw-in collet
Bearing type	Ceramic ball bearing
Max. Frequency	1,000Hz
Motor system	Asynchronous
The rated voltage	200V
Power output S1 100%	0.9kW
Power output S6 40%	1.2kW
Output torque S1 100%	0.15N.m
Output torque S6 40%	0.19N.m
Rated current S1 100%	3.5A
Rated current S6 40%	4.2A
Air seal gas flow rate	30-50L/min(Air pressure 0.15MPa)
Cooling system	Water cooling
The cooling flow rate	$\geq 1.6\text{L/min}$
Motor temperature sensor type	PTC
Tool change	Cylinder
Tool change air pressure	0.56-0.60MPa
Vibration velocity	0.8mm/s
Speed sensor	Yes
Weight	$4.24\pm 0.5\text{kg}$

DGZ-60C升级版(Upgrade)

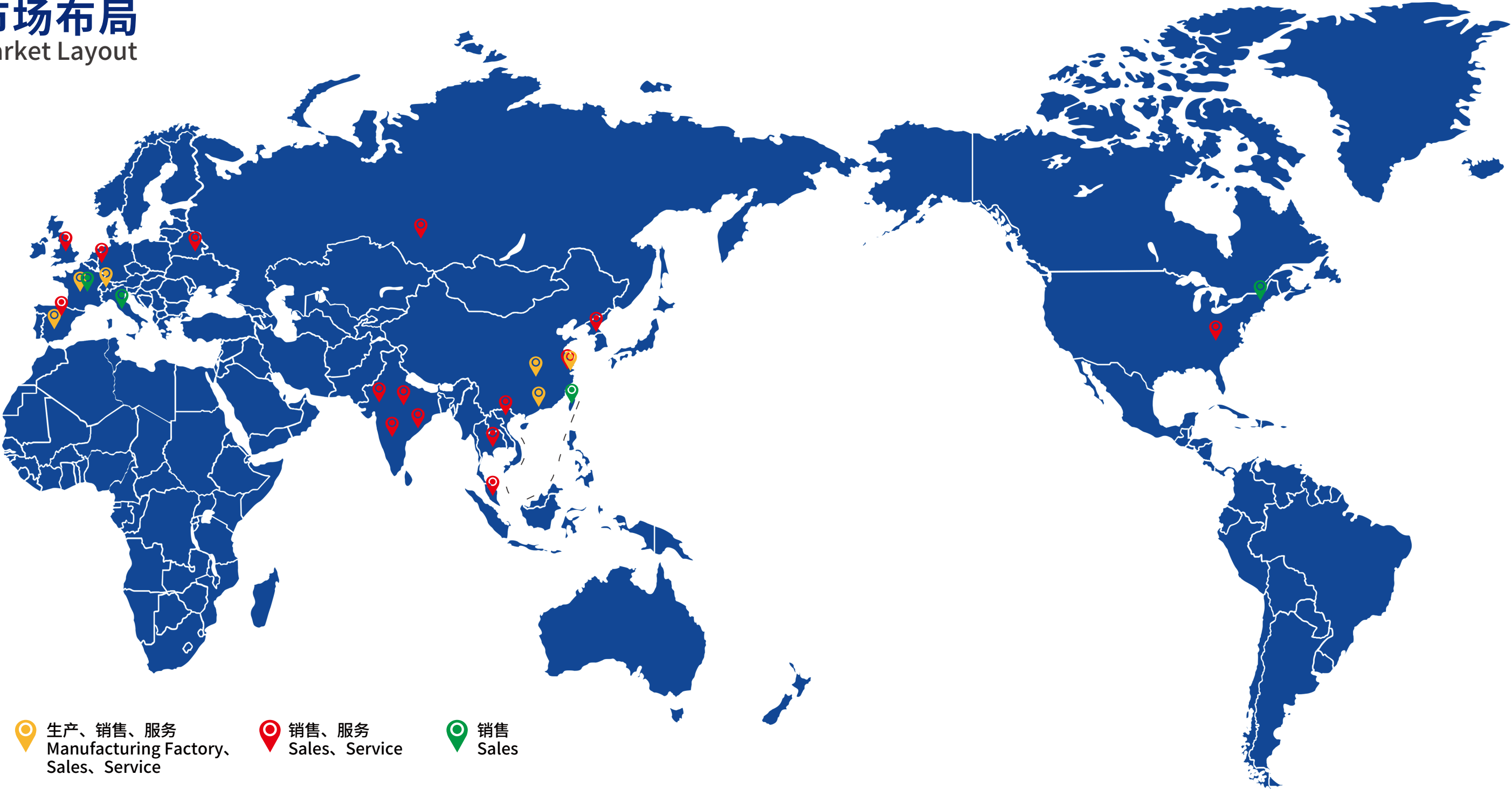


主轴型号	DGZ-60C升级版
直径	Φ61.92mm
最高转速	60000rpm
刀柄型号	B005直柄夹头
轴承类型	陶瓷球轴承
最大频率	1000Hz
电机类型	异步
额定电压	220V
输出功率S1 100%	1.5kW
输出功率S6 40%	1.8kW
输出扭矩S1 100%	0.24N.m
输出扭矩S6 40%	0.29N.m
额定电流S1 100%	4.8A
额定电流S6 40%	5.8A
气封气流量	30-50L/min（气压0.15MPa）
冷却方式	水冷
冷却流量	≥1.6L/min
电机温度传感器类型	PTC
换刀方式	气缸
换刀气压	0.56-0.60MPa
振动速度	0.8mm/s
重量	4.2±0.5kg

SpindleModel	DGZ-60C Upgrade
Diameter	Φ61.92mm
The highest speed	60000rpm
Tool interface	B005 draw-in collet
Bearing type	Ceramic ball bearing
Max. Frequency	1000Hz
Motor system	Asynchronous
The rated voltage	220V
Power output S1 100%	1.5kW
Power output S6 40%	1.8kW
Output torque S1 100%	0.24N.m
Output torque S6 40%	0.29N.m
Rated current S1 100%	4.8A
Rated current S6 40%	5.8A
Air seal gas flow rate	30-50L/min(Air pressure 0.15MPa)
Cooling system	Water cooling
The cooling flow rate	≥1.6L/min
Motor temperature sensor type	PTC
Tool change	Cylinder
Tool change air pressure	0.56-0.60MPa
Vibration velocity	0.8mm/s
Weight	4.2±0.5kg

市场布局

Market Layout



 生产、销售、服务
Manufacturing Factory,
Sales、Service

 销售、服务
Sales、Service

 销售
Sales

NA

 贝瑟默城, 美国
Bessemer City USA

 威尔明顿, 美国
Wilmington, USA

EU

 苏黎世, 瑞士
Zurich, Switzerland

 卢尔德, 法国
Lourdes, France

 巴塞罗那, 西班牙
Badalona, Spain

 吉普斯夸省, 西班牙
Gipuzkoa, Spain

 新西伯利亚, 俄罗斯
Novosibirsk, Russia

 明斯克, 白俄罗斯
Minsk, Belarus

 切斯特菲尔德, 英国
Chesterfield, UK

 哈瑙, 德国
Hanau, Germany

 热那亚省, 意大利
Genova, Italy

 里昂, 法国
Lyon, France

ASIA

 广州, 中国
Guangzhou, China

 岳阳, 中国
Yueyang, China

 上海, 中国
Shanghai, China

 苏州, 中国
Suzhou, China

 清奈, 印度
Chennai, India

 班加罗尔, 印度
Bangalore, India

 本地治里, 印度
Puducherry, India

 浦那, 印度
Pune, India

 京畿道, 韩国
Kyunggi-do, Korea

 巴吞他尼府, 泰国
Pathumthani, Thailand

 桂武北宁, 越南
Phuong Mao, Vietnam

 柔佛州, 马来西亚
Johor, Malaysia

 桃园市, 中国台湾
Taoyuan, Taiwan China

为客户带去超值 · 为股东创造所值
为员工体现价值 · 为社会营造增值

Deliver extra value to customers.
Create lucrative value for shareholders.
Help employees realize their values.
Bring added value to society.