



# AGV专用 高功率无刷电机

## High Power Brushless Motor for AGV



### COMPANY PROFILE 公司简介

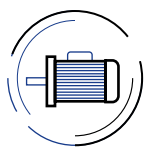
佛山市斗索科技有限公司是一家专注于AGV电机研究开发及其产业化应用的公司,立足AGV行业研制产品,拥有自主产品专利,遵循彼此忠诚、相互成就的宗旨,力争为AGV提供最好的电机。

公司研发团队由从事汽车电机研制二十年以上的专家组成,在电机及电机控制系统方面具有很强的研发能力及丰富的研制经验,能为AGV行业提供电机定制化服务。目前公司主要产品有直流无刷电机、直流无刷伺服电机、电机电控等。

Foshan Dousuo Technology Co., Ltd. is a company focusing on the research and development of AGV motor and its industrial application, based on the AGV industry to develop products, with independent product patents, follow the purpose of mutual loyalty and mutual achievement, and strive to provide the best motor for AGV.

The company's R & D team is composed of experts engaged in automotive motor development for more than 20 years, with strong R & D capability and rich development experience in motor and motor control system, and can provide customized motor services for the AGV industry. At present, the company's main products are DC brushless motor, DC brushless servo motor, motor electronic control and so on.

### CORE COMPETENCE AT THE TECHNICAL LEVEL 技术层面的核心竞争力



所有电机方案自主开发,高可靠的电控能力。  
All motor solutions developed independently, highly reliable electric control capabilities.



全新结构设计,电机及齿轮箱一体化,散热性能更好。  
New structural design, motor and gear box integration, better heat dissipation performance.



同体积下更大的输出扭矩,更大的输出功率。  
Greater output torque and greater output power under the same volume.



媲美日本电机的稳定性,远低于日本电机的制造成本,远高于国内其他电机的产品性能及稳定性。  
Comparable to the stability of Japanese motors, far lower than the manufacturing cost of Japanese motors, far higher than the product performance and stability of other domestic motors.

### APPLICATION SCENARIO 应用场景



负载移动机器人、电动助力轮车行走专用动力轮模组。  
Load mobile robot, special power wheel module of electric booster wheel.

[www.dosomotion.com](http://www.dosomotion.com)

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DS-24V200W / DS-24V350W / DS-48V500W

工作电压 OPERATING VOLTAGE	24V/48V		工作电流 WORKING CURRENT	≤30A			
功率额定 POWER RATING	200W/350W/500W		齿轮减速比 GEAR REDUCTION RATIO	30:1/50:1			
线圈耐热等级 COIL HEAT RATING	H级 (绕组温升限度125K,性能参考温度145°C) (winding temperature rise limit 125K, performance reference temperature 145°C)		电机绕组连接 MOTOR WINDING CONNECTION	三角连接 Triangular Connection			
额定转速 RATED SPEED	100/60RPM						
扭矩 TORQUE	型号 MOTOR TYPE	DS-24V200W		DS-24V350W		DS-48V500W	
齿轮减速比 RATED SPEED		30:1	50:1	30:1	50:1	30:1	50:1
额定扭矩(N.M) RATED TORQUE		27	44	33	55	45	75
最大扭矩(N.M) MAXIMUM TORQUE		33	61	39	70	67	98
绝缘电阻 INSULATION RESISTANCE	常温常压下绕组与外壳间加 DC500V 测量电阻值 100MΩ以上 At normal temperature and pressure, add DC500V between the winding and the shell to measure the resistance value of more than 100MΩ.						
绝缘耐压 INSULATION RESISTANCE	常温常压下绕组与外壳间加 DC500V 测量电阻值 100MΩ以上。 At normal temperature and pressure, add DC500V between the winding and the shell to measure the resistance value of more than 100MΩ.						
绝缘电阻 INSULATION WITHSTAND VOLTAGE	常温常压下绕组与外壳间加 50HZ/AC500V/1 分钟,电机无异常。 At normal temperature and pressure, 50Hz/AC500V/1 minute is added between the winding and the shell, and the motor is normal.						
使用环境 USE ENVIRONMENT	环境温度 40°C 以下,湿度 85%以下,无腐蚀性气体环境。 Ambient temperature below 40°C, humidity below 85%, non-corrosive gas environment.						
保存环境 PRESERVATION ENVIRONMENT	环境温度 90°C 以下,湿度 85%以下,无腐蚀性气体环境。 Ambient temperature below 90°C, humidity below 85%, non-corrosive gas environment.						
磁铁等级 MAGNET CLASS	NDFEB N45SH		防护等级 CLASS OF PROTECTION	IP40			
重量 WEIGHT	7.5 KG		尺寸 DIMENSION	220x 230 x 105mm			
输出方式 OUTPUT MODE	带键圆轴(见电机外观) Circular shaft with key (see motor appearance)						

DC BRUSHLESS MOTOR  
直流无刷电机

公司产品有直流无刷电机、伺服电机及电机电控,对标日本直流无刷电机,功率密度是对标电机的2-3倍,采用电机加齿轮箱一体化设计,结构紧凑、机械强度高,采用7级精度金属齿轮,结构稳定可靠,安装维护更简便。

本公司电机控制器本着“融合极简、安全可靠、卓越体验、AI云智”的理念建立解决方案,采用成熟的电机控制策略,使公司产品高性能、长续航、超静谧。在AGV长时间耐久测试中采用同一电机及电池的工况下,采用本公司电控的AGV工作时间对比其他品牌电控的7-8H提升到了11-12小时,AGV的工作效率提升了30%以上。

The company's products have DC brushless motor, servo motor and motor electronic control, Japan's standard DC brushless motor, power density is 2-3 times of the standard motor, the motor plus gearbox integrated design, compact structure, high mechanical strength, the use of 7 precision metal gear, stable and reliable structure, easier to install and maintain.

The motor controller of the company is based on the concept of "integration of minimalist, safe and reliable, excellent experience, AI cloud intelligence" to establish solutions, and adopts mature motor control strategies to make the company's products with high performance, long life and super quiet. Under the condition that the same motor and battery are used in the long-term endurance test of AGV, the working time of the electrically controlled AGV of our company is increased to 11-12 hours compared with 7-8H of other brands, and the working efficiency of AGV is increased by more than 30%.