

**GUIDE**

Stock code: 301633

# Company Profile

Guide the Drive Innovation  
Intellectualize the Future of Industry  
Become a Top-Ranking Supplier of Industrial Automation Products and Solutions

**GUIDE**

Wuhan Guide Technology Co., Ltd.  
Address: No. 6, Ligongyuan Road, WUT Science and Technology Park,  
East Lake High-tech Development Zone, Wuhan, China  
Tel: +86 27 87920068  
Service Hotline: +86 400 0077 570 (Mainland China)  
Website: [www.guide-tec.com](http://www.guide-tec.com)  
Email: [service@gdetec.com](mailto:service@gdetec.com)

2025.10

Technical specifications are subject to change without notice.  
Copyright©Wuhan Guide Technology Co., Ltd.



WeChat

**Wuhan Guide Technology Co., Ltd.**

# WUHAN GUIDE TECHNOLOGY CO., LTD.

Wuhan Guide Technology Co., Ltd. (Stock name: Guide Technology; Stock code: 301633) is a nationally accredited "Little Giant" enterprise. It is primarily recognized and supported by the Ministry of Industry and Information Technology with its specialized, professional and innovative high-tech features. It has three subsidiaries: Wuhan Guide Intelligent Technology Co., Ltd., Wuhan Guide Software Information Technology Co., Ltd., and Wuhan Guide Drive Science and Technology Co., Ltd. as well as branches in Shenzhen, Hainan and Shanghai.

GUIDE focuses on the field of industrial automation and informatization. There are three segments of our business: automatic drive products, intelligent control systems, and smart port management system software. GUIDE is committed to the localization of core drive components for various mechanical equipment, the automation of industrial equipment operation procedures, and the digitalization and informatization of enterprise management.

Guide Technology is engaged in the research and development, production, sales, and related technical services of industrial automation products such as VFDs, inverters, regenerative rectifier units, and industry-dedicated drives. Guide Intelligent provides solutions for the intelligent and unmanned operation of lifting and transportation equipment in fields such as ports, cement, metallurgy, railways, and warehousing. Guide Software is devoted to the development and service of software products such as production operation management systems, asset management systems, and integrated control systems. GUIDE has a nationwide sales and service network, and its products and services are widely used in industries such as ports, shield machinery, petroleum, construction machinery, ships, petroleum, cement, metallurgy, overhead cranes, railways, logistics, textiles, mining, chemical engineering, thermoelectricity generation.



Guide Technology actively develops core technologies and products with independent intellectual property rights, and has obtained over 100 technology patents and software copyrights.



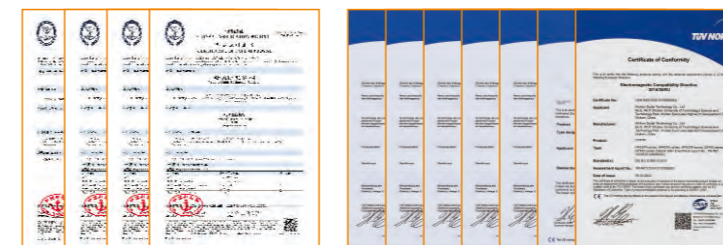
Guide Technology has four major advantages: specialization, refinement, differentiation, and novelty. It focuses on segmented markets, has strong innovation ability, and possesses key core technologies.

GUIDE is recognized as an "Outstanding High-tech Enterprise in Wuhan". It has been successively honored as one of the "Top 10 Intelligent and Informatized Enterprises in the Chinese Cement Industry", one of the "Chinese Top 100 Innovative Construction Enterprises", and an "Advanced Demonstration Enterprise for Port Science and Technology Innovation". The VFD products have won the "Top 3 of China Communications and Transportation Association Science and Technology Progress Award". Its intelligent control system products have garnered the "Champion of China Port Association Science and Technology Award".

GUIDE will uphold the business philosophy of "Quality and Service" continuously, implement our core values of "Achieving Customers, Benefiting Employees, Rewarding Shareholders and Contributing to Society", and develop firmly towards the mission of "Guide the Drive Innovation, Intellectualize the Future of Industry" to realize the vision of "Become a top-ranking supplier of industrial automation products and solutions".



## COMPANY PROFILE



GUIDE drive products have passed the CE certification test of global TÜV NORD institutions, and obtained the type approval certificate of China Classification Society (CCS).



# INNOVATION

Innovation is an inexhaustible driving force for enterprise development, and Guide Technology adheres to innovation leading development and accelerating the high-quality development of enterprises.



As an innovative company, Guide Technology firmly adheres to the path of independent innovation, guided by the scientific outlook on development, comprehensively promotes technological and product innovation, and continuously enhances the core competitiveness of the enterprise.

# R&D TEST



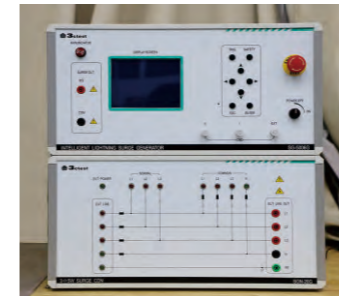
EMC testing



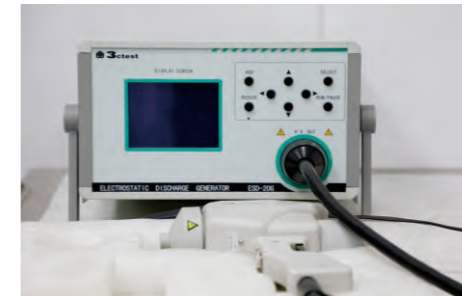
Vibration testing



Salt spray testing



Lightning surge testing



Electrostatic testing



Multifunctional lifting test platform



High power motor towing platform



Dustproof test chamber



Waterproof laboratory



Thermal shock test chamber



Tower crane test platform

## || CORPORATE CULTURE

Advanced technology and stable quality.  
Provide users with high-quality  
products and services.

- **Corporate Vision and Mission**

Vision: Guide the Drive Innovation, Intellectualize the Future of Industry.

Mission: Become a Top-ranking Supplier of Industrial Automation Products and Solutions.

- **Corporate Core Values**

Achieving Customers, Benefiting Employees, Rewarding Shareholders and Contributing to Society

- **Business Philosophy**

Quality and Service

QUALITY  
SERVICE

## || QUALITY ASSURANCE

Quality policy: Quality first, customer first, and comprehensively implement the brand strategy.



Guide Technology has a professional production workshop and quality testing platform, implementing high-quality product testing, providing a foundation for achieving "quality first, customer first, and comprehensive implementation of the brand strategy".



Product manufacturing workshop

## || QUALITY ASSURANCE

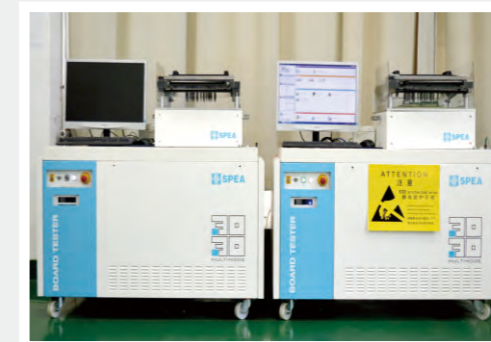
PCB assembly workshop



Cable workshop



Complete machine online withstand voltage testing, online aging testing, online FCT function testing, online packaging, connecting the entire manufacturing process, improving manufacturing efficiency, and ensuring product quality.



ICT testing



FCT testing

The PCB assembly is fully automatic tested by ICT online tester and FCT function tester.



High temperature and load aging room

By scanning the code to identify product nameplate information, automatically configure internal parameters of the VFD, and conduct fully automatic testing of the VFD according to the preset testing process, improving product testing efficiency and ensuring product quality before leaving the factory.



Complete machine automatic testing platform

By scanning the code to identify product nameplate information, automatically configure internal parameters of the VFD, and conduct fully automatic testing of the VFD according to the preset testing process, improving product testing efficiency and ensuring product quality before leaving the factory.

# PRODUCTS



HF630N Series AC Drive



HF650N Series AC Drive



GF630N01 (Mini) AC Drive



GF630N05 Overhead Crane-dedicated AC Drive



HF681N Series Book-size Multi-drive



HF680N Series Multi-drive



GF630N02 (Textile) AC Drive



GF630N03 (Logistics) AC Drive



GF630N04 Instant Start AC Drive



TBM-dedicated VFD Cabinet (Liquid-cooled)



Tower Crane-dedicated VFD Cabinet



Intelligent Construction Hoist Control System

# FUNCTION

## Featured functions of GUIDE VFD



### Anti-sway/positioning function

To achieve anti-sway when the operating mechanism is running, only the hoisting mechanism needs to be equipped with an encoder, which can realize the linkage of hoisting, gantry and trolley mechanisms. It can also realize the function of automatic positioning and anti-sway. (Applicable to HF630N-4 series drives.)



### Open- and closed-loop vector with 200% torque output at zero speed

Both closed-loop vector control with encoder feedback and open-loop vector control without encoder feedback can control the motor to output up to 200% of the rated torque at zero speed, ensuring the safety of hoisting and preventing the hook from slipping. (Applicable to all series drives.)



### Rapid slewing hook-following function

The characteristic of achieving conventional winding motor resistance control on the slewing mechanism of the portal crane is that the torque and current shock are smaller than those of conventional control methods. It can be quickly braked, hooked, and stabilized through foot brakes and VFD. (Applicable to HF650N-4 series drives.)



### Motor non-rigid connection synchronization function

When two or more hoisting motors using closed-loop control are not connected to a rigid shaft, this function can ensure that the speed and position of each motor are always synchronized whether it is inching or high-speed operation. This function can be used in conjunction with any brand of VFD. (Applicable to all series drives.)



### Smooth slewing control function

Enables smooth and rapid start and brake of the tower crane slewing arm. Able to use ordinary variable frequency motors to replace torque motors with eddy current heads or variable frequency motors with eddy current heads. Reduces user hardware and maintenance costs. (Applicable to HF630N-4 series drives.)



### Self-tuning function with load

When the load is less than 50% of the rated load, static and dynamic self-tuning of motor parameters can be carried out with the load, without the need for the motor shaft to be disconnected from the load. The dynamic self-tuning motor has extremely low speed, so there is no need to worry about insufficient mechanical travel. (Applicable to all series drives.)



### Motor speed tracking function

This function outputs zero torque when the driver presses the foot brake, and can quickly identify the current motor speed and operate smoothly when the driver releases the foot brake again. The VFD does not need to interrupt the output. (Applicable to HF650N-4 series drives.)



### Ultra low speed full load operation

The hoisting mechanism can operate at low speed and full load below 0.5 Hz, and for some applications, it can be as low as 0.1 Hz. (Applicable to all series drives.)



### Abnormal speed alarm function with brake mechanism

When the brake fails to hold or the holding brake is not tight, the load will slide down. The drive can automatically detect the fault in the power mode and the circuit and motor is normal, and output an alarm signal to prompt the operator to lower the load to the ground. (Applicable to HF630N-4 series drives.)



### Hook anti-collision function

When the hoisting mechanism is set to the anti-collision zero position, it prevents the operator from raising the hoisting mechanism to the top and causing an accident. It provides an additional protection against mechanical limit failure. (Applicable to HF630N-4 series drives.)



### Low voltage full load operation

Even if the input voltage of the VFD is as low as 308 V, the dynamic weak magnetic control algorithm can ensure stable operation at full load and minimize the possibility of the VFD not working properly due to voltage instability on site. The allowable input voltage fluctuation range is -15% to +10%. (Applicable to all series drives.)



### Motor rigid connection DROOP function

When the hoisting motor is connected with a rigid shaft, it can ensure the current and torque balance of the motor at any time. This function can be used in conjunction with any brand of VFD. (Applicable to all series drives.)

# APPLICATION

Guide Technology related products are widely used in industries such as ports, shield machinery, petroleum, construction machinery, ships, petroleum, cement, metallurgy, overhead cranes, railways, logistics, textiles, mining, chemical engineering, thermoelectricity generation.



A series of horizontal dashed lines for taking notes, spanning the right side of the page.