HENGDA IPC

PRODUCT CATALOG

HENGDA INDUSTRIAL CONTROL CO.LTD

ABOUT US

Chengdu HENGDA Industrial Control Co., Ltd（HENGDA IPC） traces the origins to the Chengdu HENGDA Chemical Automation Research Institute, founded in 1996. Specializing in the R&D, production, and application of industrial automation products, HENGDA is certified as a "National High-Tech R&D Enterprise Recognized under the Dual-Software Program." We now houses three main divisions—R&D Center, Sales Center, and Production Center—with a total floor space of nearly 5,000 square meters.

High - and New - Technology Enterprise Certificate

Guided by the principle that "Quality is our foundation, integrity the source of our growth," HENGDA is committed to a business path of "high standards, meticulous processes, and zero defects." We continuously improve product performance and after-sales service, earning broad customer recognition and trust. Our products are now distributed across the Chinese mainland and exported to numerous countries, including Indonesia, the Philippines, Kyrgyzstan, Armenia, Russia, India, the United States, and Mexico, playing a critical role in enhancing the safety, energy efficiency, and productivity of our partners.

Computer Software Copyright Registration Certificates

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WLK Motor Excitation Series

HENGDA IPC

Advanced Control, Wide Power Range, Tailored Solutions
Delivering advanced excitation control for synchronous motors from 200kW to 120MW,
Ensuring efficient and reliable motor operation.

Key Features

- <6ms automatic switching, 29 years fault-free operation
- IEC explosion-proof certification, Prevents overvoltage damage
- Reduced commissioning time, ±0.1% voltage accuracy
- Fault localization, Maintenance without shutdown
- Industry 4.0 ready, Globally compatible components
- Dual independent hot-standby HMI systems

Primary Applications

WLK Series delivers advanced microprocessor-based excitation control for synchronous motors from 200 kW to 120 MW, ensuring precise and reliable operation across a broad power spectrum. It drives critical industrial equipment such as compressors, ball mills, blowers, pumps, and refrigeration systems in sectors from manufacturing to utilities.

Designed for demanding environments, the series offers high reliability with options including standard, hot-swappable dual-system, and explosion-proof configurations—all supporting seamless integration into diverse operational setups. With robust protection features and stable performance under voltage fluctuations, it maintains continuous motor control in challenging grid conditions.

The explosion-proof models carry certifications such as Ex e II Gc and Ex e mb II T3 Gc, enabling safe use in hazardous settings like chemical plants and mining areas with combustible dust.

WLK is the trusted solution for both standard and high-risk industrial applications worldwide.

Your Benefits

Unmatched Stability and Precision
WLK series utilize a 32-bit DSP control system, delivering high sampling accuracy and rapid response.

Adaptive Control and Rapid Dynamics
Integrated adaptive intelligence automatically selects optimal control strategies based on real-time conditions, reducing manual intervention. With a ⩽0.02s response delay, the system maintains dynamic stability during load or grid variations.

High Availability and Redundancy
Critical models feature a dual-processor system with under 6ms fault switchover, eliminating unplanned downtime. Hot-swappable components enable maintenance without interruption, supported by self-diagnosis and automated recovery.

Proven Longevity and EMC Robustness
Documented systems operate flawlessly for up to 29 years (brush type) and 15 years (brushless). Compliant with IEC standards, the design ensures high EMC performance, minimal interference, and reliable data integrity.

Model	Features
WLK-T3	Microprocessor-controlled single-system cabinet. A foundational model focused on straightforward, reliable performance and lower initial cost.
WLK-S3	Dual-system architecture with disturbance-free automatic switching (<6ms) and hot-swappable components (e.g., controllers, touchscreens).
WLK-WS3	Increased Safety (Ex e) design with dual-system control. Certifications: Ex e II Gc, Ex e II T3 Gc, Ex e mb II T3 Gc. Integrates static & rotating excitation.

WLKF Generator Excitation Series

HENGDA IPC

Precise Regulation, Multi-Method, Grid-Integrated
Advanced microprocessor-based excitation control for synchronous generators, supporting static, brushless, and DC exciter systems.

Key Features

- <6ms automatic switching, 29 years fault-free operation
- IEC explosion-proof certification, Prevents overvoltage damage
- Reduced commissioning time, ±0.1% voltage accuracy
- Fault localization, Maintenance without shutdown
- Industry 4.0 ready, Globally compatible components
- Dual independent hot-standby HMI systems

Primary Applications

WLKF Series delivers advanced microprocessor-based excitation control for synchronous generators across hydro, steam turbine, and diesel applications. Supporting static, brushless, and SCR excitation methods, the systems ensure precise voltage regulation and seamless transition between standalone and grid-connected operation.

Designed for reliability, the series includes both single-cabinet and fully redundant dual-channel configurations with hot-standby capability, enabling continuous operation under demanding conditions. Compact and unified designs are available for space-constrained installations, while rugged architectures support generators from small-scale units up to large industrial capacities.

Suitable for a wide range of power generation environments—from compact plants to major grid-tied facilities—WLKF systems provide adaptable, maintenance-friendly solutions that ensure stable generator performance and secure grid integration.

Your Benefits

Reduced Operating Costs
Dual-system redundancy, hot-swappable parts, and under-6ms switchover cut unplanned downtime. Self-diagnosis speeds up troubleshooting and lowers skill demands. Contactless de-excitation prevents overvoltage damage, extending motor life and reducing repair costs.

Safety in Hazardous Areas
WLK-WS3 includes an IEC-certified explosion-proof rotating control module, protecting personnel and equipment in flammable or dusty settings.

Future-Ready Design
Modular and scalable architecture allows easy expansion and Industry 4.0 upgrades. Global brand compatibility simplifies integration and procurement.

Efficient Performance
Accurate power factor regulation avoids grid penalties. Soft-start and matched excitation reduce mechanical stress, extending equipment life.

Intuitive Operation
A 10-inch touchscreen (dual on S3/WS3) shows real-time data, trends, and alarms for proactive control and informed decisions.

Model	Features
WLKF-T33	Static thyristor excitation; integrated single-cabinet design (regulation, excitation power, and de-excitation panels); compact and unified structure.
WLKF-T3	Single-channel SCR excitation control; consists of power unit and excitation controller; supports standalone and grid-connected operation.
WLKF-S3	Dual-channel microprocessor-based control; fully redundant design (controllers, main circuits, touchscreens); supports hot-standby and independent operation modes.
WLKF-WS	Dual-channel SCR excitation for brushless synchronous generators; fully redundant architecture; supports hot-standby and independent operation.

HDMV Series Inverters

Advanced Drives, Built to Perform, Engineered to Last
Precise motor control, robust safety features,
and unmatched adaptability for industry and infrastructure.

HDMV Series Inverters - Smart, Reliable, and Built for Every Motor

HDMV uses advanced motor drive technology with high-precision vector control to efficiently run all kinds of motors—synchronous, asynchronous, direct-drive, electric spindles, and more.

Designed for tough environments, it includes smart safety features like automatic frequency reduction during power loss, torque limiting, and protection against overvoltage or overcurrent.

With models for medium/low-voltage, high-voltage, and even explosion-proof mining applications, PowerDrive Pro supports industries from power generation and manufacturing to infrastructure.

Its rugged design handles voltage fluctuations, recovers automatically from brief outages, and stays cool with airflow system or water cooling—making it perfect for unstable or demanding power grids.

Your Benefits

Enhanced Performance & Precision Control
Advanced drive technology enables smooth starting, stable operation, and seamless speed control, preventing mechanical shock. It also provides precise speed and torque regulation for applications like conveyor and pump control.

High Adaptability & Application Flexibility
Maintains operation during grid fluctuations or power loss, minimizing downtime. Compatible with multiple motor types and suitable for fans, pumps, mills, and other heavy-duty uses.

Operational Safety & Ease of Use
Integrated protection against faults such as short circuits and overloads ensures equipment and personnel safety. The intuitive HMI simplifies operation and reduces training effort.

Efficiency, Integration & Compact Design
Reduces energy use and costs by matching motor speed to actual demand. Supports industrial communication protocols and features a space-saving design.

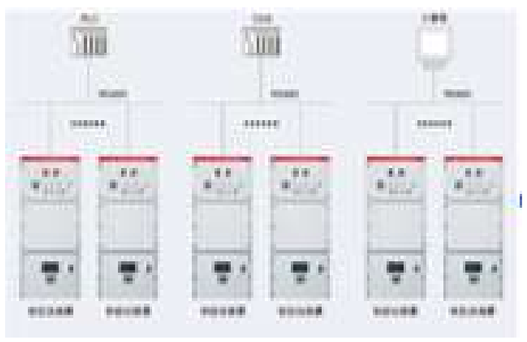
Reliable Support & Long-Term Value
Full lifecycle support from selection to maintenance ensures operational confidence and long-term reliability.

Model	Features
HDMV-LG	Cost-effective low-voltage vector drive with open-loop control; domestic components, user-friendly.
HDMV-LP	High-performance closed-loop low-votage vector drive; imported components; precise torque/position control.
HDMV-HG	Air-cooled high-voltage drive; low harmonics, high power factor; robust two-quadrant operation.
HDMV-HW	Water-cooled, ultra-high-power (up to 10 kV / 10 MW); built for reliability at extreme capacity.
HDMV-S	Ultra-compact book-style design; sensorless vector control; supports both synchronous & asynchronous motors; high power density, DIN-rail or side-mountable.

HDGR High-Voltage Solid-State Soft Starter Cabinet

HENGDA IPC

Smooth Start, Lower Impact, Smarter Control
Widely used in chemical, metallurgical, and energy sectors, enabling smooth motor startup for high-inertia equipment.



Primary Applications

- Modernizing legacy systems—such as those using liquid-resistance, star-delta, or autotransformer starters—that suffer from high energy consumption, low efficiency, or complex upkeep.
- In new industrial setups, including petrochemical, metallurgical, and power generation plants, HDGR enables smooth and reliable starting of critical equipment like large fans, compressors, and pumps—preserving process continuity.
- For sites with unstable or limited grid capacity, such as remote mines, oilfields, or distributed energy projects, HDGR limits starting current to 4–6 times the rated value, helping maintain local grid stability.
- Supporting smart facility management by integrating seamlessly with DCS, enabling remote monitoring, fault diagnosis, and energy data collection—thereby cutting manual inspection and unplanned downtime costs.

Your Benefits

- **Optimized Mechanical & Electrical Stress Reduction, Lower TCO**
  HDGR enables smooth, stepless control of motor speed and torque, cutting typical startup shock by over *60%*. Thereby extending equipment MTBF and lowering total cost of ownership.
- **High Reliability and Production Continuity Assurance**
  Multi-layer digital protection and redundant monitoring continuously track motor conditions—such as three-phase unbalance, overload, and phase errors—to pre-warn and prevent abrupt shutdowns. *Designed for high-load, continuous operations, the system ensures stable uptime.*
- **Broad Applicability and Control Mode Compatibility**
  Supporting high-voltage applications from *3 kV to 10 kV*, the system is compatible with both asynchronous and synchronous motors. It offers flexible local/remote control and delivers strong environmental and grid adaptability.
- **Rapid Deployment & Easy Maintenance**
  Featuring a *compact or customizable cabinet design,* the system integrates in series with the main circuit for straightforward installation—without major wiring modifications. Its modular structure simplifies fault diagnosis and component replacement.
- **Digitalization and Smart Integration**
  Standard industrial interfaces enable deep integration and data sharing with plant DCS, supporting functions such as energy consumption analysis, predictive maintenance (PdM), and remote O&M. This data foundation helps drive digital and low-carbon transformation in industrial energy management.

Case Study

High-Voltage Liquid-Resistance Soft Starter System Upgrade

- Customer's Challenge

Shanxi Yangxian Yuhu Chemical Co., Ltd. had used liquid-resistance soft starters for over 10 years. As the equipment aged, several issues emerged: the cabinets were large and space-consuming, maintenance was complex and costly, and startup accuracy was low, preventing frequent restarts and limiting production flexibility.

- Hengda's Solution

HDGR is the more efficient, low-maintenance, and intelligent high-voltage soft-start solution.

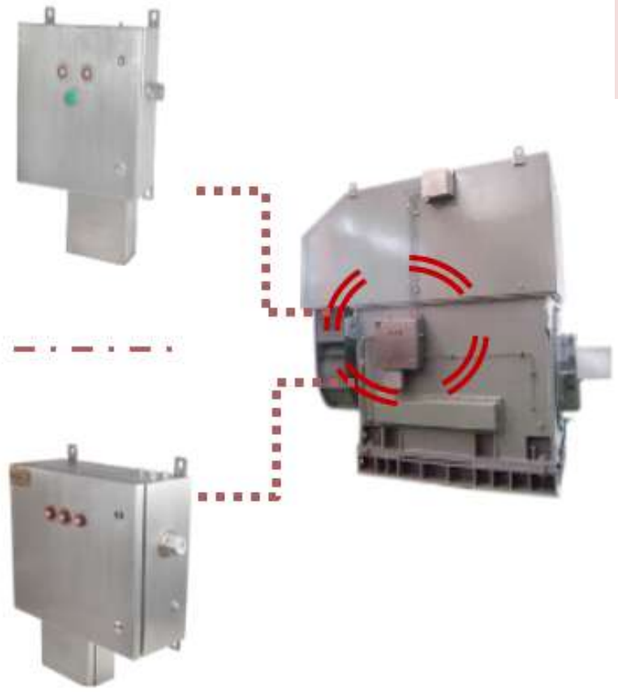
- Client Feedback

The O&M team praised HDGR for its minimal maintenance and high starting accuracy. Performance stability exceeded expectations, effectively ensuring long-term reliable operation of key assets. The retrofit resolved core operational issues while boosting both productivity and reliability through advanced solid-state technology.

ZCHDE Increased Safety Motor Pre-Purging Control Device

HENGDA IPC

Safe Start, Compliant Purge, Automated Control
Making safe motor startup in hazardous areas,Compliant Purge, Automated Control.
Using pneumatic logic and two-stage filtration, the system provides fully automated,
Reliable operation with support for remote and local control.



Primary Applications

ZCHDE Pre-Purge Device ensures safe motor startup in hazardous areas with explosive gases (Groups IIA, IIB, IIC). It is widely used in petrochemical plants, coal chemical facilities, offshore platforms, and underground mining, providing automated purging for increased safety motors on critical equipment such as blowers and pumps.

ZCHDE utilizes pneumatic logic control and two-stage filtration to achieve intrinsic safety without electrical power. Its flow-interlocked purge initiation ensures thorough cavity gas replacement, while the integrated pressure relief module maintains operational safety.

Supporting remote monitoring and compatible with air or inert gas sources, the system operates reliably from -20 °C to +60 °C and complies with Chinese National Standard GB/T 3836 (Ex db eb mb IIC T4 Gb).

Your Benefits

Compliant & Asset-Safe Operation
ZCHDE complies with Chinese and international standards, performing thorough and effective gas purging prior to motor start-up. This ensures operational compliance in explosive atmospheres, mitigates safety risks, and safeguards high-value Increased Safety (Ex e) motors.

Reliable Design, Lower Operating & Maintenance Costs
The core control logic uses pneumatic controls, and all field indicators are pneumatic, minimizing electrical failure risks. With dual-stage air filtration (50μm and 5μm) and pressure regulation, the system ensures long-term stability of control operations.

Automated Process & Safety Interlock, Minimizing Human Error
Once activated, the purge sequence runs automatically. The timer starts continuous counting only when the purge flow reaches the minimum required rate. A mandatory safety interlock prevents erroneous start signals during insufficient purging.

Remote Centralized Management for Improved Operational Efficiency
The unit is equipped with an explosion-proof "Ex d IIC" switch and corresponding electrical signals connected to the Increased Safety terminal box. This allows monitoring and start-up operations from a remote control room, optimizing human resource allocation.

Technical Specifications

- **Composite Explosion-Proof Structure & High-Level Protection**
- **Pneumatic Logic Control for Enhanced Intrinsic Safety**
- **Two-Stage High-Precision Air Filtration & Regulation**
- **Precise Control of Flow and Pressure Parameters**
- **Strict Flow-Interlocked Purge Initiation**
- **Standard-Compliant Pressure Relief Module**
- **High-Protection Electrical Interfaces**
- **Operating Temperature Range: -20℃~+60℃**

WDT Voltage and Power Regulation Cabinet

HENGDA IPC

Precise Control, Stable Performance, Efficient Operation
Accurate management of voltage, current, and power in industrial electric heating systems. Designed for demanding environments such as chemical processing, metallurgy, building materials, and hydrogen production.

Key Modles

WDTJ AC Voltage and power regulation cabinet

WDTJ is designed for all industrial applications requiring AC voltage and power regulation, especially in electric heating systems like resistance heating and arc furnaces.

The key benefits include a three-phase fully-controlled regulation method and high-precision digital technology, which together ensure excellent output balance and prevent costly unplanned downtime caused by load imbalance.

WDTZ DC Voltage and power regulation cabinet

WDTZ is engineered for loads requiring a stable DC power supply. The primary applications include electrolytic hydrogen production systems, where it provides a regulated rectified output, and environmental wastewater treatment processes such as electrolysis and electrodialysis.

WDTZ leverages a three-phase fully-controlled bridge rectifier and dual closed-loop PID auto-regulation to maintain either constant current or constant voltage. This ensures highly stable, precise, and controllable DC output.

Your Benefits

Time-Tested Reliability

With deep expertise in industrial control since 1997, we have a long-term track record that guarantees system stability and reliability, securing your investment with confidence.

Advanced Technology for Stable & Efficient Operation

Our digital synchronous phase-shifting technology ensures balanced three-phase output while also enabling dual closed-loop PID auto-regulation for constant voltage with stable current and constant current with stable voltage. This guarantees high precision and efficiency in process control.

Minimal Maintenance, Lower Operational Costs

Featuring set-and-forget functionality that eliminates complex potentiometer adjustments. With clear diagnostics and event logging, fault identification is swift, drastically reducing downtime and the total cost of ownership.

Intuitive Operation

Color touchscreen ensures quick and easy adoption, significantly reducing training time and cost.

Case Study

Eliminating Recurrent Failures in Synthesis Reactor Electric Heating with WDTJ

- Customer's Challenge

The original temperature control system for Hubei Sanning Group's synthesis reactor relied on analog, non-microprocessor-based circuitry (using resistors and capacitors) to adjust the thyristor firing angle. This caused significant three-phase output imbalance. The resulting uneven heating of three-phase resistor elements led to frequent filament cracking, breakage, and short circuits, repeatedly forcing production line stoppages.

- Hengda's Solution

HDGR is the more efficient, low-maintenance, and intelligent high-voltage soft-start solution.
Since 1997, we have supplied the first-generation WDTJ AC voltage and power regulation cabinet to address this issue. By implementing high-performance industrial control chips and digital synchronous phase-shifting technology, we entirely replaced the unstable analog control, achieving precise digital regulation of the firing angle.

- Client Feedback

After the upgrade, the system immediately delivered accurate three-phase voltage triggering and stable output current. This completely eliminated unplanned downtime caused by three-phase imbalance at Hubei Sanning Group, ensuring continuous production.

WGT Series High-Voltage Control Power Supplies

HENGDA IPC

Reliable Power, High Efficiency, Engineered for Industry
Precise high-voltage control, Superior reliability, and Adaptable performance for industrial and new energy applications.

Primary Applications

- Electrostatic precipitators for industrial flue gas purification.
- High-voltage electric field processing systems, such as hydrogen production via water electrolysis and electrodialysis processes.
- High-power motor drives for applications like gas compression (e.g., air, CO2).
- High-power control tasks such as scrap metal sorting.

Key Modles

WGT-T3 High-Voltage mains frequency control power Supply (SCR)

The ideal power solution for applications like electrostatic precipitation (ESP) that utilize grid operating frequency. It is designed for precise voltage regulation where stability and cost-effectiveness are primary concerns.

WGT-P3 High-Voltage High-Frequency Control Power Supply (IGBT/SiC)

The power solution specifically engineered for emerging and high-end industrial applications that have stringent requirements for high frequency, high power density, and superior efficiency.

Your Benefits

Future-Ready Design with Proven Reliability

Built on an advanced architecture, the WGT series readily meets the demands of emerging applications such as renewable energy and storage, eliminating concerns of early obsolescence. Our solutions have been deployed for leading clients in the chemical and steel sectors. All components are sourced from top-tier suppliers, ensuring consistent quality and long-term operational stability.

Precision Control & Rapid Project Support

The system delivers industry-leading stability and accuracy, enabling quick integration and commissioning for both new and upgraded facilities. We offer end-to-end support—from needs analysis to custom design—coupled with responsive logistics to keep your projects on schedule.

User-Friendly Operation & Remote Connectivity

Featuring an intuitive color touchscreen, the system provides clear access to operational status, real-time parameters, and historical trends. With support for MODBUS and SIM-based IoT functions, it enables remote diagnostics and pre-alarms, streamlining off-site maintenance and fault resolution. This significantly shortens troubleshooting time and ensures high MTBF (Mean Time Between Failures).

Case Study

Electrostatic Precipitator Upgrade at Hubei Sanning Chemical

- Customer's Challenge

Hubei Sanning Chemical's electrostatic precipitator (ESP) system had been operating for years with increasing failures and declining dust collection efficiency. Key issues included:

1. Failure to reach target high-voltage levels
2. Poor voltage control accuracy
3. Inability to effectively limit discharge spark frequency
4. These shortcomings not only risked non-compliance with environmental standards but also undermined production stability.

- Hengda's Solution

We delivered a customized WGT-series high-voltage control power supply featuring:
Highly precise voltage regulation and improved step-up characteristics
Microprocessor-controlled monitoring and limitation of spark rate (sparks per minute)

- Client Feedback

Operating voltage increased by 10%, significantly improving dust removal efficiency. Stable and accurate voltage output with tightly controlled sparking.
Markedly improved system reliability and reduced failure rate
The system has now operated flawlessly for three years, earning consistent positive feedback from the custome.

Motor / Generator Auxiliary Cabinets

HENGDA IPC

Specialized control, protection, and automation solutions for diverse industrial power systems. Suitable for sectors ranging from metallurgy, mining, and petrochemicals to municipal infrastructure and power generation

Digital Quasi-Synchronization Cabinet

Applicable to generator synchronization and power line check-synchronization closing operations across all voltage classes, it is commonly employed in waste-heat and renewable energy power generation systems for precise grid connection control.

- HD-316 integrates multiple functions including manual quasi-synchronization, automatic quasi-synchronization, and no-voltage check for parallel operations.
- Supporting frequency and voltage regulation control of generators.
- Equipped with a 32-bit high-performance DSP processor and redundant sampling with cross-verification technology, it ensures reliable synchronization closing actions and accurate capture of phase angle with an error ⩽0.5°.
- With 16 programmable contact inputs and 5 alarm outputs, it meets the requirements of unattended power stations.

Motor Protection, Measurement and Control Device

HDCM is primarily applied to lines and outgoing feeders at voltage levels of 35 kV and below, forming an integral part of substation integrated automation systems. HDCM integrates line protection, measurement and control, and circuit breaker control functions.

- HDCM is housed in a standard, all-aluminum chassis, featuring a front panel with an LCD, status indicators, and a keypad.
- HDCM also supports remote management through RS-485 interface.
- Built with a reinforced chassis designed to resist strong vibration and interference, it ensures high reliability even in harsh field environments.
- HDCM offers comprehensive protection features, including instantaneous over-current/overload (pre/post-start), locked rotor, negative-sequence over-current, three-stage zero-sequence over-current, thermal overload, non-electrical protection, and multiple abnormal alarm functions.

Generator Low-Voltage Distribution Cabinet

BKSF is designed for low-voltage hydroelectric power stations with individual generator capacities up to 800 kW, this system is used for power distribution and control in 380V, 50Hz circuits.
Designed and manufactured according to IEC/GB 7251 standards, or according to the user's special requirements.

- Complete protection and alarm functions for over-current, over-voltage, overload, and short circuit.
- Two grid-synchronization methods: automatic quasi-synchronization and the dark lamp method.
- Automated control capabilities, including electric start/stop, trip-based shutdown, and water resistance protection.

High-Voltage Automatic Reactive Power Compensation Cabinet

ZGB is based on grid voltage, reactive power, and power factor, the system uses intuitive fuzzy logic control to automatically switch in optimally sized capacitor banks in steps. This enables automatic reactive power compensation, which saves energy, reduces losses, increases transmission capacity, improves distribution system efficiency, and enhances economic performance.
ZGB is suitable for decentralized compensation of high-power HV motors and centralized compensation in distribution systems across sectors such as metallurgy, mining, building materials, petrochemicals, machinery, municipal infrastructure, and power.

- Utilizes premium high-voltage compensation capacitors for localized reactive power compensation, effectively raising the motor power factor to over 0.95 with notable energy-saving results.
- Reduces reactive power losses on the user side, improves voltage quality, and decreases line losses.
- Increases transformer load capacity and enhances the efficiency of electrical equipment.
- Adopts advanced vacuum-metallized polypropylene film parallel capacitors, which are compact, high-capacity, and lightweight.
- Uses high-voltage expulsion-type fuses for short-circuit protection, ensuring operational safety.
- After disconnecting from the grid, residual voltage discharges to below 50 V within 3 minutes.
- The centralized compensation type operates in parallel with the host equipment, switching on and off automatically in sync—featuring no moving parts, safe operation, and easy maintenance.

Motors

Robust, high-performance motors designed for demanding industrial applications.
Our motors feature energy-efficient, totally enclosed designs that ensure smooth, quiet, and reliable operation with low maintenance needs.

We offer the following motor products:

Low-voltage motors

High-voltage motors

High-efficiency motors

Explosion-proof motors

Variable frequency speed control motors

Permanent magnet motors

Servo motors

Through optimized electromagnetic design, the adoption of a corona-resistant coil design, a "double dipping and baking" process, and the application of Vacuum Pressure Impregnation (VPI) equipment, the motor achieves Class F and Class H insulation, ensuring safety and reliability.

- Protection Level: IP65
- Features: Strong applicability, high versatility, and easy maintenance.
- Certifications & Compliances: The product is certified by CCC, CE, CSA, UL, and holds RoHS & REACH compliance. It also carries Safety Mark certification, China Energy Label certification, U.S. DOE (Department of Energy) high-efficiency certification, Japan's high-efficiency certification, and low-carbon certification.

Increased Safety Type Brushless Excitation Synchronous Motor

TB motor series combines aesthetic design with smooth, quiet operation (low vibration and noise) and a high protection rating. It is exempt from non-spark test and TE time requirements, ensuring enhanced safety, operational simplicity, and easy maintenance.

Three-Phase Asynchronous Motor

Three-phase asynchronous motors are suitable for a wide range of applications, from machine tools, fans, and pumps to compressors, agricultural and food-processing machinery, as well as various mechanical drive systems.

A totally enclosed, self-cooling, and energy-efficient design that combines high efficiency with low noise and high-torque performance.

High and Low Voltage Switchgear Assemblies

HENGDA IPC

Robust and intelligent power solutions for critical infrastructure.
For versatile deployment in commercial, industrial, and utility settings.

Intelligent High/Low-Voltage High-Frequency Switching DC Power Supply Cabinet

HDZD meets the GB/T 5777.4-2000 standard for DC power supply equipment in power systems. Designed for power plants and substations, it supplies DC power to control, signaling, communication, and protection systems, as well as emergency lighting and other auxiliary equipment.

- HDZD DC Power Cabinet features a modular design, allowing the number of panels to be flexibly configured based on battery capacity and circuit layout.
- Battery capacity is customizable up to 1000 Ah to meet user requirements.

Features

- HDZD utilizes a high-frequency switching rectifier, characterized by its compact size, light weight, excellent performance, and modular design.
- Cabinet features a combined, modular structure.
- Charging and float charging are handled by multiple parallel high-frequency rectifier modules in an N+1 redundant configuration with automatic current sharing.
- Offers comprehensive and highly intelligent monitoring via a large LCD touchscreen, with audible/visual alarms and support for both local and remote supervision.
- Provides automated battery management and maintenance, including monitoring of terminal voltage and charge/discharge current, automatic control of equalizing and float charging, and scheduled maintenance equalizing charges.
- Includes temperature compensation.
- Ensures uninterrupted power supply to the control bus from the battery bank in all scenarios—including grid separation or AC power loss—guaranteeing reliable control and operating power for protection relays, automation equipment, and high-voltage switchgear.

Outdoor Prefabricated Container-Type Substation

HDZB series Outdoor Prefabricated Container-Type Substation integrates high-voltage control, protection, power transformation, and distribution into a single, compact unit.

It offers significant benefits over traditional constructions, delivering greater flexibility, a smaller footprint, faster installation, lower cost, high reliability, and a visually pleasing design. These advantages make it suitable for a wide range of locations, from residential and commercial complexes to industrial, transportation, and temporary sites.

Features

- The layout of the high-voltage room, low-voltage room, and transformer room can be customized to suit site conditions and maintenance needs.
- It supports various power supply schemes, including terminal, ring main, and dual-source types, with connection options for both overhead lines and underground cables.
- The enclosure is available in multiple colors and materials to ensure the substation blends seamlessly with its surroundings.
- As a fully integrated solution with a compact footprint and flexible siting, it adapts readily to diverse environments, significantly saving land resources and reducing foundation costs.
- High-voltage and low-voltage switchgear can be selected per customer specifications to meet specific application requirements.

Service System

HENGDA IPC

Consulting Services

- New Builds: Strategic planning for automation, complete electrical systems, and integrated industrial design for small and medium-sized factories.
- Optimization & Upgrades: Holistic facility optimization consulting focused on energy efficiency, environmental compliance, business transformation, and performance enhancement.

Systematic Assessment

- Remote analysis of customer requirements.
- On-site investigation for technical upgrades.
- Feasibility study, design, and optimization planning.
- Integrated planning for systems and equipment (including main equipment, automation, electrical control, and instrumentation).

Assisted Fault Diagnostics

- Full-chain analysis of production metrics to pinpoint faults and recommend adjustments.
- Expert diagnostics and resolution for multi-brand equipment.

Innovative After-Sales Services

- Annual Inspections: Operational health assessments to preempt risks, define KPIs, and recommend maintenance improvements. Includes collaborative system-level diagnostics.
- Knowledge Sharing: Presentation of inspection reports, improvement recommendations, and relevant industry case studies.
- Training: Routine operation & maintenance training; advanced training for maintenance experts.

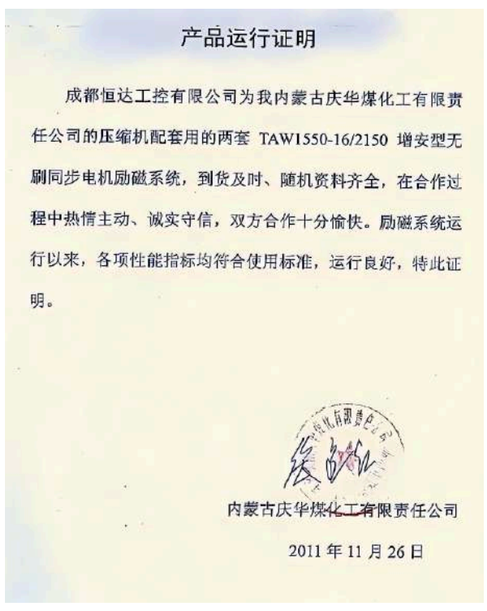
Collaboration and Development

- Joint participation in industry expos.
- Collaborative R&D and testing on new technologies and complex challenges.
- Organization of regular industry seminars and supply chain networking events.

Proven Satisfaction


成都恒达工控有限公司
CHENGDU HENGDA AUTOMATIZATION CONTROL Co., Ltd
设备运行回访单
客户名称：国家能源投资集团西龙池抽水蓄能有限责任公司
项目地址：内蒙古乌海市海南区西龙池工业园区
项目代理商：
客户技术负责联系人：王旭　职务：主任　电话：　验证（QQ）：
产品名称：微机励磁控制装置
□WLK-B1 有刷励磁，正方形面板，1个矩形真空插头　数量：
□WLK-B2 有刷励磁，长方形面板，1个矩形真空插头　数量：
□WLK-T2 有刷励磁，单通道，2个重格力盖板盘子的控制器，含触摸屏　数量：
☑WLK-BS2 有刷励磁，双通道，2*2个重格力盖板盘子的控制器，含触摸屏，无刷励磁励磁。　数量：3
励磁控制装置运行情况：
客户意见：
您对此次服务评价　☑非常满意　□很满意　□满意　□不满意
您主要的评价和建议：
客户技术负责人签字：王旭　日期：2019.8.21
客户（盖章）：　日期：
请签字盖章后，扫描发送到邮箱：445731140@qq.com
感谢您对我司ISO 9001质量认证体系工作的大力支持！

Follow-Up Report on 3 Sets of WLK-WS2 Excitation Cabinets at Wuhai International Energy Xilaifeng Site


产品运行证明

成都恒达工控有限公司为我内蒙古庆华煤化工有限责任公司的压缩机配套用的两套 TAW1550-16/2150 增安型无刷同步电机励磁系统，到货及时、随机资料齐全，在合作过程中热情主动、诚实守信，双方合作十分愉快。励磁系统运行以来，各项性能指标均符合使用标准，运行良好，特此证明。

内蒙古庆华煤化工有限责任公司

2011 年 11 月 26 日

Operation Certificate for Brushless Excitation Cabinets at China Inner Mongolia Qinghua Group Coal Chemical Company


成都恒达工控有限公司
CHENGDU HENGDA AUTOMATIZATION CONTROL Co., Ltd
产品运行回访单
客户名称：重庆和友油脂肥皂业有限公司
项目地址：重庆市九龙坡区铜罐驿镇
客户技术负责联系人：刘荣杰　职务：电气控制部部长　电话：13723077720 微信（QQ）：
产品名称：微机励磁控制装置
□WLK-B1 有刷励磁，正方形面板，1个矩形真空插头　数量：3
□WLK-B2 有刷励磁，长方形面板，1个矩形真空插头　数量：2
□WLK-T2 有刷励磁，单通道，2个重格力盖板盘子的控制器，含触摸屏　数量：
□WLK-BS2 有刷励磁，双通道，2*2个重格力盖板盘子的控制器，含触摸屏，无刷励磁励磁。　数量：
励磁控制装置运行情况：
屏幅控制等重新加调试经验后运行至今，一切正常。
客户意见：
您对此次服务评价　☑非常满意　□很满意　□满意　□不满意
您主要的评价和建议：
到货及时，随机资料齐全。
合作过程中热情主动，诚实守信，技术支持响应积极。
产品运行至今，性能指标符合使用特性，运行良好。
客户技术负责人签字：刘荣杰　日期：2019.8.26
客户（盖章）：　日期：2019.8.26
感谢您对我司ISO 9001质量认证体系工作的支持！

Operation Follow-Up Form for Excitation Products at Chongqing Heyou Alkali-Amine Industrial

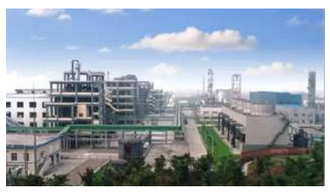
Partnership

HENGDA IPC

Industry-Leading Chinese Partners

Hubei Sanning Chemical Industry Co., Ltd.

Inner Mongolia Qinghua Group Qinghua Coal Chemical Co., Ltd.



Hebang Biotech

Taiyuan Iron & Steel (Group) Co., Ltd.

Anhui Conch Cement Co., Ltd.

Shenyang Blower Works Group Corporation

Harbin Electric Group Jiamusi Electric Co., Ltd.

Wolong Electric Large Drive Business Group

Premier Global Partners

Chilean Iron Ore Project, Chile

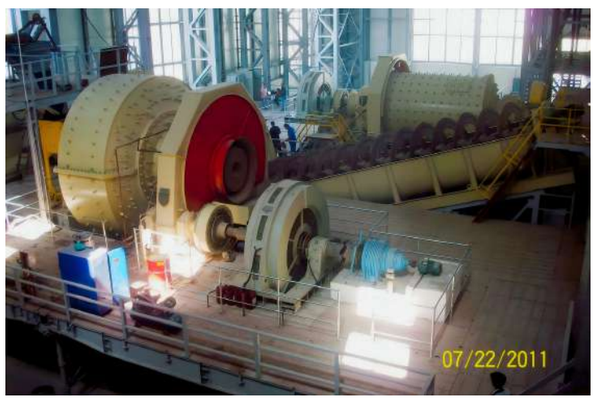
Ramu NiCo Management (MCC) Limited, Papua New Guinea

Full Gold Mining Co., Ltd., Kyrgyzstan

Indian Electrical Steel Project, India

Chita Gold Mine, Russia

Armenian Mining Company, Armenia



July 2011, Ball Mill Procurement Project for Armenian Mining Company, covering 4 synchronous motors and 4 WLK - S2 dual - channel excitation cabinets.

August 2012, Main Extraction Blower of Electrosteel Integrated Ltd. (India), including 2 synchronous motors and 2 WLK - S2 dual - channel excitation cabinets.

INNOVATION LEADS, PROSPERITY SHARES

HENGDA INDUSTRIAL CONTROL Co., Ltd.

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