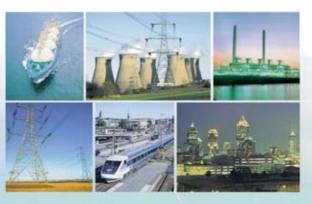




# **Total Solution** for Electrical Industry

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## We build a better future!

Dear Sirs,

It is our great pleasure to present this brochure for our esteemed customers and friends over the world to be able to understand our business lines and products in brief.

Equipped with full line-up of electrical equipment from low voltage to ultrahigh voltage in a single plant, we can offer the advanced and comprehensive solutions for our customers and also help them ensure the reliability in power generation and transmission with our quality products and services.

With our ultimate goal "to serve our customers with the most efficient and attractive solutions, and also satisfy their various requirements", we are challenging for the better future with continuous investment in R&D for new technology and products, and operating world-wide overseas offices so that our customers always can contact us and send us any inquiry in the field of electrical industry.

We sincerely hope that this brochure would help you understand our business activities.

Should you need further information or have any inquiry for our products and services, please feel free to contact us directly or our overseas office close to your company.

Looking forward to having a valuable business opportunity to serve you in near future,



## **Major Product**

#### Transformer

- Power & Distribution Transformer - Cast Resin Transformer - Special Purpose Transformer - Shunt Reactor

#### **High Voltage Circuit Breaker**

- Gas Circuit Breaker
- Disconneting Switch

- Medium Voltage Switchgear - Low Voltage Switchgear & Motor Control Center - SF<sub>6</sub> Gas Insulated Metal-clad Switchgear - Distribution Board - Intelligent Measuring Protection

- Air Circuit Breaker

#### Generator

- Synchronous Generator
- Induction Generator
- Diesel Engine Generator Set
- Locomotive Traction Generator

#### Instrumentation & Control System

- Product
- MAX 1000+PLUS Distributed Control System
- HiMAX 2000 Distributed Control System
- APACS+Distributed Control System
- Fox SCADA System
- HiPMS SCADA System

- Automatic Boiler Control System

- Optimal Process Control System
  Pipeline Modeling System(Gas, Oil, Water)
- Energy Management System
- Modeling & Advanced Control Application





# **P**ower Plant

### **Hyundai Transformer**

- High quality transformer up to 800kV, 800MVA. And utilizes up-to-date, state-of-art manufacturing/ testing facilities, and also a stringent quality control system for every step of the manufacturing.
- Meets various customer requirements in compliance with applicable industrial codes & standards.
- Optimized design for high performance and reliability for customers.
- ISO 9001 quality certified to ensure best customer quality.



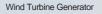
### Hyundai Control System Integration

- Open system interconnection with other computers.
- Easy to install, configure, operate and maintain.
- Maximized the operator's familiarity by applying Window 2000 server(Windows-NT).
- Provides a complete spectrum of functions ; web monitoring, touch screen, multi-media, real-time database management and data back-up etc.





HiMAX-2000 DCS . Redundant Servers . Dual Network . Redundant Control Processor . Redundant I/O & Power Supply



100

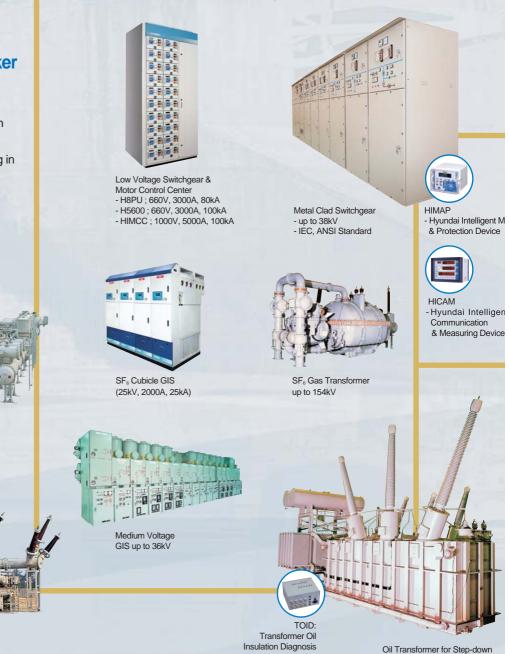
GIS for 800kV

# Reliable P Mutual P

# Secondary Substation

## Hyundai Switchgear

- Offer the best solutions in the field of electric power distribution, protection, measuring, control and communication.
- Successfully maintains the competitive edge in quality, price and delivery through continuous research and development.



## **Primary Substation**

## Hyundai High Voltage Circuit Breaker

- Require less space than the conventional open-air substations.
- Provide maximum safety for operating personnel with earthed enclosure and all live parts contained.
- Design comprised of standardized modules, resulting in high quality production, simple assembly and easy installation.



GIS for 245~362kV

GIS for 72.5~170kV

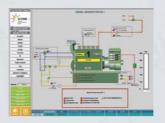
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## • Has been widely acknowledged not only by major classification societies

**Hyundai Marine Purpose Equipment** 

of LRS of UK., ABS of U.S.A, DNV of Norway, GL of Germany, BV of France, NK of Japan, KR of Korea, but also by the leading ship owners around the world.



ACONIS-2000 - Advanced CONtrol & Integration System





Non-segregated Phase Bus Duct up to 34.5kV, 5000A

## Hyundai Medium Low Voltage Circuit Breaker

• Wide range of breaking capacity and frame for customers' various requirements.

Compact design and high performance

Magnetic Contactor











Earth Leakage Circuit Breaker

HiAN Type

- 70~85kA

- 630~3200A

Cast Resin Transformer - up to 36kV, 10MVA

Air Circuit Breaker



HAT Type - 630~5000A - 30~100kA

HiTH / HiMC

HiMC 130

#### Molded Case Circuit Breaker





HV Induction Motor (HRQ7 Type) - Totally-enclosed Air to Air Cooled Machine - 1300~10000HP/4pole, 6.6kV, 60Hz



HV Induction Motor (HRA7 Type) - Open Drip proof Machine - 1730~25000HP/4pole, 6.6kV, 60Hz



**Diesel Generator** 

### **Power Electronics**

- Precise torque regulation using sensorless vector control and DTC(Direct Torque Control)
- Quick response with built-in DSP(Digital Signal Processor) and high speed micro-computer
- Fully encolsed to provide environmental durability with a compact design.



UPS : Uninterruptible Power Supply



#### Hyundai Motor & Generator

- Meet customers' diverse technical requirements with the state-of-art manufacturing and testing facilities.
- Comply with international standards such as IEC, IEEE, CAS, NEMA and API etc.



H<sup>+c</sup> Series Motor - 220~1000HP - 2300~7200V, 60Hz



Compressor Drive Motor - up to 2000HP - 2pole, ODP, WP I & II - 2300~14000V, 60Hz



Three-phase AC Generator - 90~2000kVA - 4pole, Open Drip Proof.



Synchronous Alternator - 100~50000kV - 2~14V - 4pole over IP23/IP4

hiRUN Inverter









N500





Inverter Shield<sup>™</sup> Motor - 1~250HP

Crown Triton™ Series Motor 1~250HP - Premium Efficiency



Crown Signature™ Series Motor 1~250HP - EPACT Efficiency



Explosion-Proof(Class 1 Div.1) Motor 1~250HP - Hazardous Locations - Premium Efficiency



High Voltage Inverter



N50

N100<sup>plus</sup> N300