HIMOINSA is a global corporation that designs, manufactures and distributes power generation equipment worldwide. The company adds incomparable application and engineering know-how, excellent design and service capabilities, delivering value beyond the equipment it produces. The product range that the brand offers includes diesel and gas generator sets, control panels and paralleling systems for standby emergency power, prime power, peak power and distributed power. It also develops hybrid power gensets for the telecom sector and power. It also develops hybrid power, peak power and distributed equipment it produces.

An added value of the company is the conception of the project to the time of commissioning, sharing the knowledge throughout the whole process and guaranteeing that the operating staff is trained to manage the plant safely. HIMOINSA has supplied power systems to major international projects across the globe, providing energy solutions to the construction, telecommunications, residential, telecom, rental, commercial, mining, healthcare and industrial sectors. Plug and Play product that allows a fast and easy configuration to increase or reduce the power generated depending on the needs of the client. Thus, the service offered is complete, from the conception of the project to the time of commissioning, sharing the knowledge throughout the whole process and guaranteeing that the operating staff is trained to manage the plant safely.

HIMOINSA has supplied power systems to major international projects across the globe, providing energy solutions to the construction, telecommunications, residential, telecom, rental, commercial, mining, healthcare and industrial sectors. All the parts are perfectly integrated and the final product is always tested before shipping, minimizing the potential problems during commissioning.

HIMOINSA’s main strength is being a vertical manufacturer is the international quality standards requirements. ISO 9001:2008 HIMOINSA complies with the latest technology in painting, soundproofing and metal treatment methods. Despite the overall impressive capability the system can adapt to short series production of custom product with extreme flexibility. Sheet metal treatment is fully controlled and automated: • Laser cut, Water Jet cut and needle punching • Paneling and bending manual or robot assisted • Pipe curving 100% electric • Welding process manual and robotized (MIG/MAG, TIG, etc.) • Painting booths with polyester powder paint and liquid paint.

TECHNOLOGY HIMOINSA produces its generator sets with the latest technology in painting, soundproofing and metal treatment methods. Despite the overall impressive capability the system can adapt to short series production of custom product with extreme flexibility. Sheet metal treatment is fully controlled and automated:

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WORLDWIDE NETWORK

For the production process, HIMOINSA manufactures its own alternators, engines, canopies, silencers and control panels and it also has total control of the design of the gensets, assembling and metal treatment process of all the parts. The high quality of the final product is achieved through the implementation of exhaustive inspections in the different phases of the production process.


VERTICAL MANUFACTURER PRODUCTION PROCESS

MATERIALS

The gensets’ loadframe is bounded and has a containment function for engine liquids. All canopies are manufactured with steel type DD and DC under European rules EN 1011 and 10130. Stainless Steel AISI 316 is also available. The thickness of the sheet steel is of 3mm for non-structural elements and of 3 to 8mm for baseframes and structural elements. Materials are fireproof and self-extinguishing. Noise and thermal insulation is ensured by 144kg/m² high-density 50mm thick volcanic rock wool, which is non-corrosive to metals. This material is non-hygroscopic and stable to expansion and contraction. It is rated MD on the Fire Reaction Classification according to UL94-277 and is withstand up to 750°C.

FINISH

Prior to the painting process, the steel sheets are treated with an anti-corrosive, double-bonded by a synthetic water cleaning, steel grain refining and zinc phosphate impregnation surface preparation treatment to improve the corrosion resistance. The next step is passing through the drying tunnel, after which the metal enters in the painting booth to be coated with polyester electrostatic powder. The last step is polymerizing in a curing oven at 200°C.

CONTROL PANELS AND ATS

HIMOINSA designs and manufactures advanced controllers systems for the gensets. The CEx and MEx can communicate with the latest Steira SA engine emission compliance and manage complex safety algorithms. They provide a highly productive experience with a user-friendly interface. HIMOINSA controllers comes two independent modules connected via CANBUS: the PPL, which includes the programming, information processing and electrical cabling to the different parts of the genset, and the visualization display, that allows the access to the system to check the status and perform any needed change. In addition, the CANBUS allows the creation of a communication network where the user can add different devices to improve the capacity of the controller: telesignals, 8-programming relay outputs or modules for different types of communication like MODBUS, LAN, GSM/GPRS, 3G or profibus among others.

Tools

- 3D design and finite element analysis softwares.

- Certified follow-up of the product with SAP. 

- Intelligent warehouses.

Bending Center

- Two independent stations assisted by anthropomorphic robots.

- 8.6 m length capability.

- 3000 tons bending power.

- 1 to 12 mm thickness.

- Dual Arm technology.

Piping Manufacturing

- Fitting and exhaust systems.

- Pipe cut up to Ø 255 mm.

- Coating up to Ø 100 x 2 mm.

- Calendering of 1500 x 4 mm.

Painting Tunnel.

- Coating process with powder recovery efficiency of 99%.

- System with a powder recovery efficiency of 99%.

Process of all the parts. The high quality of it also has total control of the design of the canopies, paneling and metal treatment process of all the parts. The high quality of the final product is achieved through the implementation of exhaustive inspections in the different phases of the production process.

ISO 9001:2008 HIMOINSA complies with the international quality standards requirements. Painting Tunnel. It counts with an auto-cleaning system, with a powder recovery efficiency of 99% and a fast color change process in 7 minutes.

Laser Cutting

- Laser cutting centers.

- Cutting capacity of up to 23 mm thickness and 8m length.

Soundproofing

- Volcanic Rock Wool, class M0 with 145Kg/M3 density.

- Cut by Water Jet technology with 300 bar cutting pressure.

- 2 x 3000 x 1200 mm handling capability.

Painting

- Automatic paint application with polyester powder.

WORLDWIDE NETWORK

HIMOINSA has 9 production plants located in China, India, Spain, France, Brazil the United States and Argentina. These highly productive facilities are robotized and count with the latest manufacturing techniques. HIMOINSA also has 11 subsidiaries around the world located in Germany, United Kingdom, Portugal, Poland, Singapore, Panama, Dominican Republic, Argentina, Angola, the United Arab Emirates and South Africa. Due to the strong international presence of the company, HIMOINSA operates throughout the five continents and has a global distribution network. Due to the strong international presence of the company, HIMOINSA operates throughout the five continents and has a global distribution network. The company has a wide range of specialized product training courses at its regional training centers, which ensure the professionalism of its distribution network, providing service and support anywhere in the world.

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HEAVY RANGE (670-3,000 kVA)
Available in a variety of configurations: open skid, soundproofed canopies and container versions of 20’ and 40’ HC that can be equipped with different synchronization systems.

HIMOINSA also offers a full range of water resistant gensets, including power managers, synchronizers, power switchgears and protection devices. The company’s medium voltage equipment is designed with performance and reliability in mind. They can be equipped with medium voltage output or transformers to be compatible with the needs of the site.

INDUSTRIAL RANGE (4-800 kVA)
In the low to mid-size power range, HIMOINSA offers a wide choice of prime movers and configurations. The industrial range is designed to be durable in every condition. It can be employed, yet not limited, in continuous power supply, peak shaving or standby for industrial, commercial and residential sectors.

RENTAL RANGE (20 -1,300 kVA)
A new generation of rental generator sets is available with Stage 3A engines. The rental gensets are ready to withstand hard rains, wet snow, freezing cold, ice and snow as well as extreme heat conditions. This weather protection on all rental products is achieved together with an astonishing acoustic performance, the best in the market for this segment. The rental canopies are carefully designed also to optimize load capacity for transportation, both for wheeled and platform, and in 20’ or 40’ ISO containers. In addition, HIMOINSA offers CSC container approval, so that they can be transported also by sea freight.

SILENT PLUS
 Quieter generator sets, with even more running time for the rental sector and designed to work in locations with greater acoustic restrictions, specially in urban areas. Silent plus generator sets, in addition to complying with the Stage 3A emission regulations, guarantee a noise level of around 60 dBA only. Mainly focussed on the events sector, the silent plus range guarantees low levels of sound emissions thanks to a more optimized design of the air intakes and outputs, the addition of a dual core exhaust system, and top-quality insulating materials. The running time is 24/35 h which means more than four working days without refueling, thanks to high-capacity tanks and engines with electronic injection control.

GAS GENERATOR SETS
With a wide range of power outputs, from 10 kV to 2,500 kV powered by Natural Gas, LPG and biogas, HIMOINSA gas generator sets are aimed at the international market. They feature low noise level, low vibrations, reduced emissions and lower maintenance and operation costs than the diesel generator sets.

HIMOINSA incorporates a complete gas train into its equipment, with manual shut-off valve, gas filter, pressure regulator, double solenoid valve, low pressure switch and inlet/outlet manometers. The gas train has all the security certifications needed in any country. This plug and play equipment guarantees a higher safety and helps to reduce installation costs and to simplify the installation room design. In addition, the use of proven technology for continuous power ensures the reliability and durability of the genset.

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The company’s medium voltage equipment is designed with performance and reliability in mind. They can be equipped with medium voltage output or transformers to be compatible with the needs of the site. The silent plus range guarantees low levels of sound emissions thanks to a more optimized design of the air intakes and outputs, the addition of a dual core exhaust system, and top-quality insulating materials. The running time is 24/35 h which means more than four working days without refueling, thanks to high-capacity tanks and engines with electronic injection control.

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**GENERATOR SETS** PREPARED TO WORK IN EXTREME WEATHER CONDITIONS ARE AVAILABLE.

**+50ºC**

HIMOINSA GENSETS ARE IP23 RATED AND UNDERGO WATER TESTING UNDER EU RULE IEC60529.

**ALL THE CANOPIES INCLUDE AN INTERNAL LINING OF ROCK WOOL THAT CATEGORIZES THEM AS ONE OF THE MOST SOUNDPROOFED GENSETS IN THE MARKET.**

**SECTORS AND APPLICATIONS**

**DATA CENTER**

**HOSPITALS**

**RESIDENTIAL**

**SUPERMARKETS**

During peak demand periods, society need reliable, efficient and silent power. These sectors need emergency supply that guarantees continuous power when there is an outage. HIMOINSA gensets can cover the power load after 10 seconds of failure.

**EVENTS**

**RENTAL**

**CONSTRUCTION**

Gensets changing location and constant exposure to extreme weather conditions means they have to be easy to transport and protected from high temperatures and from water and moisture. HIMOINSA canopies have an anti-corrosion polyester powder finish and an internal lining of volcanic rock wool with excellent acoustic and thermal properties.

**MINING**

HIMOINSA is ready to meet the mining sector’s power needs, with robust and durable, corrosion-proof generators that are equipped with high-quality engines and alternators that are customizable to be resistant to heavy duty working environments.

**AGRICULTURE**

Most farms are in remote locations, cut off from urban areas, where even a connection to the electricity grid is not always guaranteed. Wind and adverse weather conditions can cause power outages. Powerful storms can wreak havoc on farms. HIMOINSA offers continuity, safety and quality for your farm.

**OIL & GAS**

Major oil and gas reserves shape the industrial landscape and have oil pipelines, many of which are off-shore and therefore cut off from the conventional grid. HIMOINSA generators offer superior load capacity, rapid response and greater fuel density. They are powered by engines from the best manufacturers and are supported by exhaustive prototype testing.

**SERVICE**

Extensive technical support through HIMOINSA global network of distributors and authorized technical service centers.

**SPARE PARTS**

Access to information on the HIMOINSA Spare Parts. Guaranteeing a 24-hour service for the purchase of spare parts online.

**GROWTH EXCELLENCE LEADERSHIP AWARD.**

Frost&Sullivan awarded HIMOINSA for its customer-focused growth strategy.
FACTORIES:
SPAIN • FRANCE • INDIA • CHINA • USA • BRAZIL • ARGENTINA

SUBSIDIARIES:
PORTUGAL | POLAND | GERMANY | UK
SINGAPORE | UAE | PANAMA | DOMINICAN REPUBLIC
ARGENTINA | ANGOLA | SOUTH AFRICA

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