

MORE THAN  
40 YEARS  
GENERATING *ENERGY.*



[www.grupel.eu](http://www.grupel.eu)

**GRUPEL**  
energy everywhere



**GRUPEL**  
energy everywhere



# Company

PRESENT IN MORE  
THAN 40 COUNTRIES.



**Grupel S.A.**, is a company of the Omnisantos Group, with **40 years of experience** in the market, that is dedicated to manufacturing a wide range of gensets (in open chassi or soundproofed - canopi), equipped with the highest quality components and with power rates from **6kVA up to 3500kVA** destined to produce energy.

Grupel is synonymous with **flexibility**, as it is perfectly able to manufacture from the standard genset to special projects, that require a higher complexity in its engineering and conception.

Leader in the portuguese market, Grupel is also present in over 40 countries, spreading all over the 5 continents. As a result of this internationalization, Grupel Angola was created

with its own operation in that territory and, in Spain, we acquired Cymasa (recognized company in the market), where we are designated as Grupel engineering by Cymasa.

Grupel's headquarters are located in Aveiro – Portugal, with over 24.000m<sup>2</sup> prepared for the manufacture of gensets.

**80%** of the company's business volume is currently due to its international presence.

# Grupel Genset

A generator is a device that converts thermal energy into mechanical energy and then into electricity. In general, it consists of a motor and alternator coupled and mounted on a common base together with batteries, fuel tank, control panel and muffler.

## Alternator



The choice of the alternator depends on the purpose and working conditions of the power genset. The most used alternator by Grupel is the Stamford alternator, due to its recognized quality, innovation and reliability. With a wide power range, they are prepared for all configurations and variety of SAE adapters, which facilitate the docking with a wide number of engines.

## Engine



Grupel has been working towards building strong bonds with the manufacturer Perkins, a company with 80 years of experience in manufacturing engines. Each engine is designed to improve productivity and performance. Perkins engines are specially prepared for adverse weather and to meet the requirements and standards requested by our customers.

## Soundproof Cabin



- Manufactured in sheet steel, aluminum or stainless steel;
- Insulated with sound-absorbing and anti-fire material;
- Polyester epoxy paint;
- Efficient in the airflow to the engine cooling;
- Integrated control panel with easy access;
- Side doors;
- Anti-corrosion treatment.



## Automatic Transfer Switch

The Automatic Transfer Switch makes the switching between the main sources (usually the network) and the secondary source (usually the generator), if the main source fails. The Automatic Transfer Switch is automatically operated and is also used to interconnect power gensets operating in alternation. We recommend installing the Automatic Transfer Switch when the power genset operates in an emergency mode.

## Control Panel



The Control Panel is the unit responsible for monitoring and protecting Grupel gensets and it can be considered the genset "brain". It is placed on the chassis in open versions, or integrated into the canopy or container in soundproof versions. Versatility and reliability are the main features of our control panel, allowing all gensets to be converted into different types of use, by simply changing the panel. Grupel gensets are configured to be used both in manual and in automatic mode and/or in parallel with other units.

## Baseframe

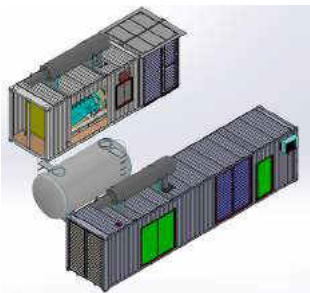


- Steel frame;
- Anti-vibration system;
- Painted with anti-corrosive treatment;
- Lifting System;
- Integrated tank.

# Special Projects

One of the features that most distinguishes **Grupel** is its capacity to adapt to every client's individual needs. The watchword in our range of **Special Projects** is always one: **Flexibility**. With a variety of extras, the custom made generators by **Grupel** can also be personalized, upgraded and altered according to each client's needs throughout the years.

## SP AUXILIARY SYSTEMS OF EMERGENCY



Installation in Jordan

// In Grupel, we have wide experience in the design, production and installation of emergency systems for critical infrastructures. In this type of facilities, the unavailability rate of network/ failure should be very low since the components supporting the emergency power are considered the most delicate part out of the whole installation.

Included in this type of systems:

- Auxiliary systems for (generation) power plants with turbines: simple cycle Thermal Power plants, combined cycle Thermal Power plants, hydroelectric plants and Thermal solar plants

- **BLACK START SYSTEMS.** Power generation systems and auxiliary subsystems for the turbines to start and in the absence of any external power source
- Emergency groups for auxiliary subsystems, liquid storage tanks, fire protection systems, recirculation pumps, cooling systems (Installations always adapted to the client's specifications)
- Emergency systems for hospitals, airports and data centers

## SP LOW ROTATIONS POWERPLANT



Installation in São Tomé

- Island mode
- Synchronized grid (network)
- Peak shaving mode
- Integration with other generation systems, main grid (network) or existing power plants

// Various modes of supplying

- Engineering and design (basic or detailed)
- Generator production
- Production of synchronized boards, distribution and electric protection
- Conception and turnkey construction of an entire power plant

// Adapted to the local electric networks

- Frequency versatility (50 or 60 Hz)
- Voltage versatility
- Low tension (400/480 V)
- Medium tension up to 15KV in direct generation from the alternator
- Medium to high tension up to 66KV, including elevator transformers

// Versatility with low or quick rotation engines (750rpm or 1500 rpm)

## SP GAS/BIOGAS CONGENERATION



Installation in Spain

- Innovation with the latest technology components
- Engines designed and developed for gaseous fuels (Gas/Biogas)
- Latest electronic engineering applied to peripheral and manoeuvres components

- Compact design adapted to the different implementation requirements

## SP GENSETS FOR MILITARY USE



Installation in Abu-Dhabi

// Robust and soundproofed generators with mobile trailer. They operate in extreme conditions always maintaining the systems reliability. These groups

are designed in regulatory compliance of NATO international standard (necessary for this type of product)



Experience in the development of complex engineering projects

# Grupel Ranges

## SR

**SMARTRANGE**  
7-30kVA



**SmartRange** comprises products with appropriate characteristics to emergency applications. These devices come into operation automatically when there is a power failure, thus ensuring a competent and efficient power delivery.

## IR

**INDUSTRIALRANGE**  
40-1250kVA



Our **IndustrialRange** of generator sets is directed at industries and it is designed to function as the main power source (or as an emergency source) where there is no other source of energy, or when there is one, it is very frail.

## HR

**HEAVYRANGE**  
600-3000kVA



The **HeavyRange** of our containerized diesel generators is characterized by the ability to provide low and/or medium power voltage on a continuous basis as well as act as a power source in case of emergency.

## GAMA STANDARD

## GR

**GASRANGE**



**GasRange:** The use of this fuel has transformed the production of electric power throughout the years, having transformed into the most low-cost and environmental safe power generation option.

## LT

**LIGHTINGTOWERS**



The **LightingTowers** range is characterized by its efficiency and simplicity that allows these products to be used on all types of weather and field conditions.

## RE

**RENTALRANGE**



The **RentalRange** comprises generator sets specially designed for the rental generators market and serves temporary power supply needs. Its main applications are in construction sites, roads, underground structures, parties and events in general, telecommunications, industries etc.

# Premium Products Selection

 Perkins® **STAMFORD®**

[50Hz / 60Hz]

Perkins		Stamford		PRP		STP	
				Cont. H - 125/40°C		Stand-by - 163/27°C	
Engine	Certification	50 Hz	60 Hz	50 Hz (KVA)	60 Hz (KW)	50 Hz (KVA)	60 Hz (KW)
403A-11G1	n/ certi	PI044E		8,5		9,2	
403D-11G	TIER 4		PI044E		8,4		9,1
403A-15G1	n/ certi	PI044F		12,3		13,5	
403A-15G2	n/ certi	PI004G		14,2	13,3	15,4	14,5
404A-22G1	n/ certi	PI144D		19,6		21,4	
404D-22G	TIER 4		PI044H		17,5		19,3
1103A-33G	n/ certi	PI144G	PI144F	30,0	27,5	32,6	30,2
1103A-33TG1	n/ certi	PI144J	PI144K	40,0	42,9	45,0	47,1
1103A-33TG2	n/ certi	UCI224E	UCI224D	59,7	52,0	63,0	57,0
1104A-44TG2	n/ certi	UCI224G	UCI224F	81,1	74,3	88,9	81,5
1104C-44TAG2	TIER 2	UCI274C	UCI274C	100,0	92,6	110,0	101,8
1006TAG	n/ certi	UCI274E	UCI274D	138,7	117,0	150,0	127,0
1106C-E66TAG3	TIER 2	UCI274F	UCI274E	148,8	134,8	165,0	150,2
1106C-E66TAG4	TIER 2	UCI274G	UCI274F	182,0	164,4	200,0	175,0
1106A-70TAG4	n/ certi	UCI274H		200,0		220,0	
1306C-E87TAG3	TIER 2		UCI274G		185,1		202,6
1306C-E87TAG4	TIER 2	UCDI274J	UCI274H	229,2	199,4	249,6	219,3
1306A-E87TAG6	TIER 2	UCDI274K		250,0		275,0	
1606A-E93TAG5	n/ certi	HCI444D		300,0		330,0	
2206A-E13TAG2	n/ certi	HCI444E	HCI444E	350,0	326,8	400,0	355,8
2206A-E13TAG3	n/ certi	HCI444F		400,0		450,0	
2506A-E15TAG1	n/ certi	HCI544C	HCI444F	464,3	400,0	507,8	440,0
2506A-E15TAG2	n/ certi	HCI544C		500,0		520,0	
2806A-E18TAG1A	n/ certi	HCI544E	HCI544D	610,0	514,2	665,0	555,2
2806A-E18TAG2	n/ certi	HCI544F		670,0		720,1	
2806C-E18TAG3	TIER 2		HCI544E		562,4		618,1
4006-23TAG2A	n/ certi	HCI634G	HCI544E	731,6	600,0	806,6	655,2
4006-23TAG3A	n/ certi	HCI634G	HCI544F	801,2	660,0	860,0	724,8
4008TAG1	n/ certi		HCI634G		703,8		774,2
4008TAG2	n/ certi		HCI634G		792,7		870,4
4008TAG1A	n/ certi	HCI634H		910,8		999,1	
4008TAG2A	n/ certi	HCI634J		1.023,5		1.110,0	
4012-46TWG2A	n/ certi	PI734A	HCI634J	1.244,9	1.004,4	1.350,0	1.106,5
4012-46TWG3A	n/ certi	PI734B		1.363,0		1.495,1	
4012-46TWG4A	n/ certi	PI734B	HCI634K	1.400,0	1.150,4	1.500,0	1.260,0
4012-46TAG2A	n/ certi	PI734C	PI734A	1.510,9	1.203,3	1.658,3	1.304,0
4012-46TAG3A	n/ certi	PI734D	PI734B	1.650,0	1.352,0	1.770,0	1.448,0
4016-61TRG1	n/ certi	PI734E		1.865,7		2.012,4	
4016-61TRG2	n/ certi	PI734F		2.020,8		2.250,0	
4016-61TRG3	n/ certi	PI734G		2.200,0		2.360,0	

## Available Alternators

**STAMFORD**



## Available Engines



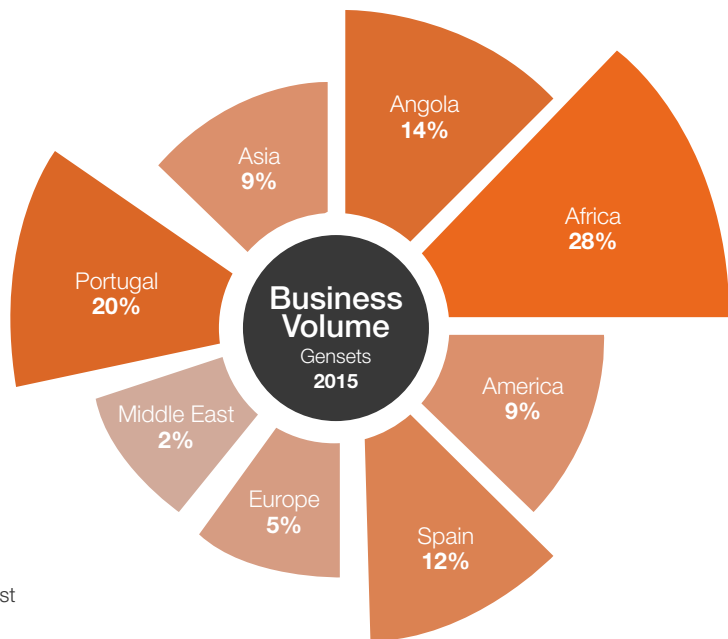
**YANMAR**

**IVECO**



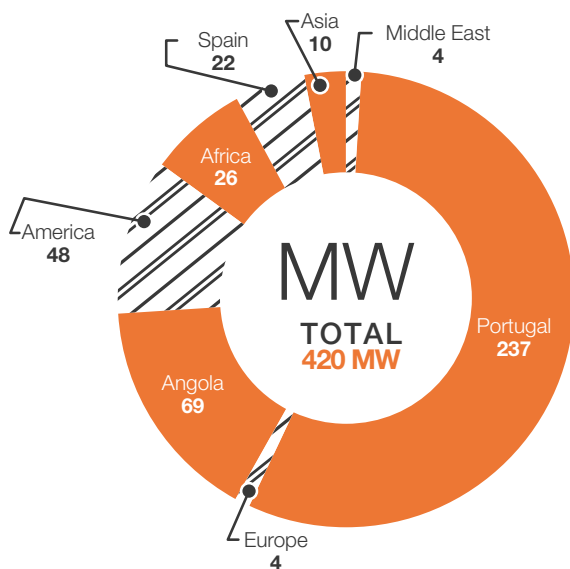
# Indicators

Numbers that speak for us.

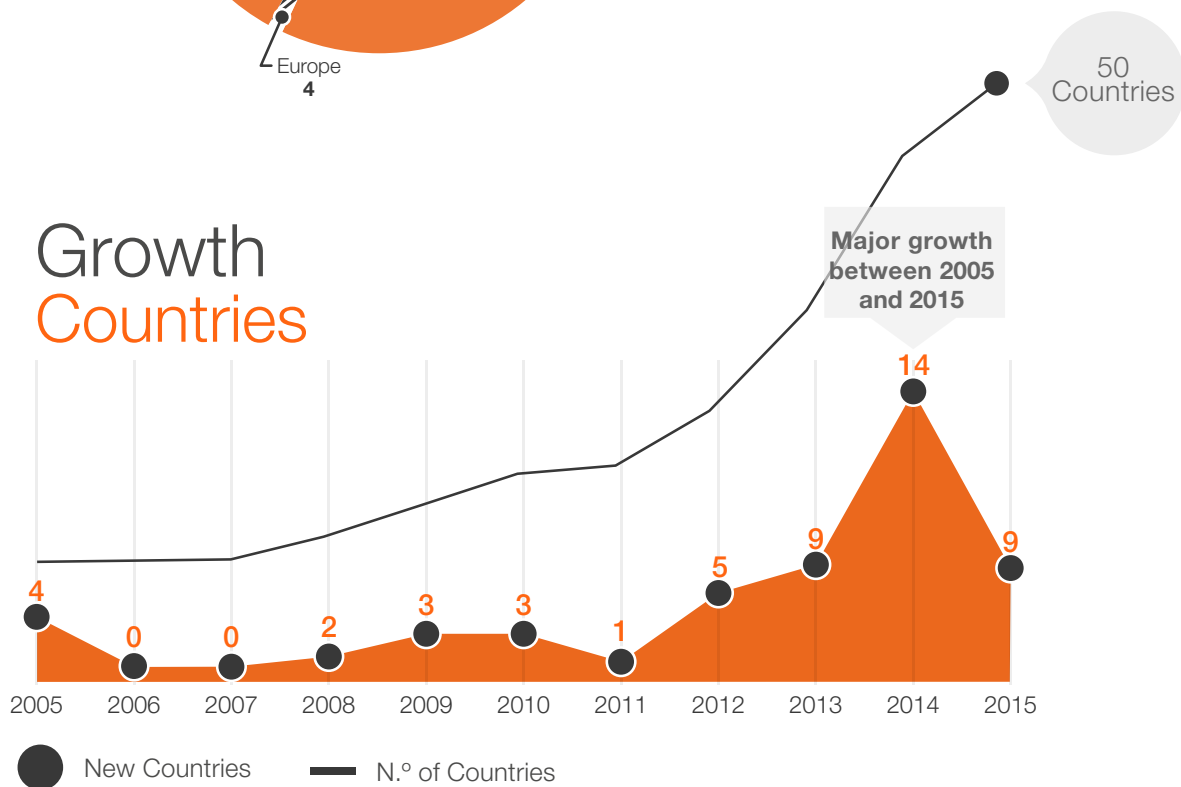


## Installed Power Rate

Gensets



## Growth Countries





Watch  
our  
video

**+ PRESENT IN OVER  
40 COUNTRIES**



### **Grupel, S.A.**

Parque Empresarial de Soza, Parcela-A, Lt-5  
3840-342 Soza – Vagos – Portugal  
T : ( +351 ) 234 790 070 · F : ( +351 ) 234 920 670  
geral@grupel.eu · www.grupel.eu

### **Grupel Engineering by Cymasa**

Pol. Ind. Pocomaco - Parcela D4  
Portal 3, Pl. 2ª, Of.6  
15190 – Mesoiro - A Coruña – ESPAÑA  
T: ( +34 ) 670 052 185  
salesdirector3@grupel.eu



- f** facebook.com/Grupel.Generators
- in** linkedin.com/company/grupel-sa
- t** twitter.com/grupel1976
- ig** instagram.com/grupel.generators
- yt** youtube.com/c/grupel

Cofinanciado por:



UNIÃO EUROPEIA  
Fundo Europeu  
de Desenvolvimento Regional