

**Jupiter co Pvt. Ltd.® شركة المشتري**

**The Boon of Technical نعمة التقنية**

توفير الحلول للاحتياجات  
الخاصة بالطاقة الكهربائية  
Solution provider  
for your power needs



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## Jupiter in Power Industry

We are the pioneer in electricity power production industry light & heavy duty generators, equipments & control panels import export supply & services, Since 1988. And we would like to introduce ourself we are the No:1 professional technical experienced service support & solution provider and supplier in around middle east.

We have well experienced qualified engineers technicians with well equipped workshop and able to provide fast & reliable service facility with guaranteed work perfection. Head Office in Tamilnadu-South India: Our Branches in Bahrain-Salmabad, Saudi-Dammam, Qatar-Doha, UAE-Dubai, Singapore-Jurong and China-Shanghai.



## Our Mission

Our mission is to make the Jupiter No:1 in electricity power production industry needs supplier and solution provider in around middle east arab gulf countries



## Our Vision

Our vision is to become the Jupiter No:1 in gulf preferred power industry generators & parts supplier cum service support provider





## Selling Used/New Generators

We source, import export, selling industrial & commercial all brand & types from low to high KVA-KW capacity generators

We are complete sales, service and technical support center for all of your generators and spare parts needs.

We have in stock 5KVA to 5000KVA used & new quality generators

Also we source and supply generators to meet your project or load requirement on technical specifications and budget.

- Ⓢ Diesel Generator
- Ⓢ Natural Gas Generator
- Ⓢ Gasoline Generator
- Ⓢ Steam Power Generator
- Ⓢ Fuel Cell Power Generator
- Ⓢ Wind Power Generator
- Ⓢ Solar Power Generator



## Buying A2Z Generators

Jupiter is one of the gulf no:1 bulk & retail leading generators buyer and we are buying all kinds of used, new, damaged, faulty, scraped rejected, old model generators and control panels.

## Exchange Generators

We provide you a good facility for exchange your old generators and other heavy Machineries into new generator with suitable rates. we will give warranty & guarantee on exchanged items including parts back.



## Rental & Hiring Generators

Jupiter hiring division has the service and transport infrastructure required to ensure reliable on time delivery of rented equipment to any location in Bahrain, Saudi & Qatar.

We will match the generator to the job site, not the job site to the generator.

We offer generator from 5kVA to 5000kVA for rental throughout the middle east countries. Our generator rental fleet is made up from premium manufacturers such as VALVO, CAT, CUMMINS, MITSUBISHI, FG Wilson, DOOSAN

As part of our generator rental services, we are pleased to offer a range of super silent generators suitable for projects in close proximity to residential areas or for sound critical events. These generators are ideal for many situations including:

- ⚡ Temporary Power Solutions
- ⚡ Plant Maintenance or Replacement
- ⚡ Outside Broadcasts and Event

## ⚡ DG Repairs & Maintenance

- Emergency Repairs
- Planned Repairs
- General Overhaul
- Genset Recondition

Emergency & Breakdown Repairs  
 Planned Repairs & Maintenance  
 Rewinding, Insulation, Rotor Balancing  
 General Overhauling  
 Periodical Preventive AMC Maintenance  
 Load Testing & Sharing, Synchronizing  
 Wireless Monitoring & Automation  
 Erection, Commission & Upgrades

## ⚡ Generator Load Bank

Mobile and trailer mounted load bank system for generators, power plant commissioning & load testing. We can also provide Load banks that are completely weatherproof, vertically fan cooled and incorporate stainless steel immersion proof resistors.

Our Load Bank devices are designed to provide electrical load for testing power sources such as generators, UPS & Forklift batteries. Load Banks are also used to reduce "wet stacking" problems in diesel engines of backup generating systems.

## ⚡ Erection & Commission

Generators erection & commissioning requires experience to prevent potentially dangerous issues. so Jupiter offer experience expertise for following tasks.

- Electrification & Phase Load Sharing
- EB to DG ATS Timing Configurations
- Synchronizing Generator Load Sharing

Generators should always be installed, serviced and repaired by the experienced certified professional technicians who have a thorough knowledge and they should always comply with standard operating procedures while doing so.

## ⚡ Spare Parts & Accessories

OEM & Equivalent replacement parts for all brand, makes & models of generators even 30 years older generator that are no longer manufactured and we supply parts as below

Also we able to offer a backup unit from our rental fleet in instances where the customer's generator removed for repairs maintenance

- Branded & Non Branded DG Parts
- Engines, Block, Electronic Controls
- AVR's, ATSS, MTSs, Engine Governor
- Alternator, Starter, Turbo Chargers
- Sound Proof Canopy, Radiators
- Generator Synchronizing Control,
- Piston, Sleeve, Fuel Injector,
- Oil/Water/Air/Diesel Filter
- RPM/Fuel/Temp/Amp/Volt Meter
- EFI/Engine Governor/ Controller





## Purpose of Rotor Balance

Dynamic balancing extends your equipment's life by eliminating vibrations that which destroys mechanical components of generators.

Our staff brings extensive balancing experience to your plant for virtually every type, shape, and size of rotor, from nuclear turbines to paper mill rolls, and expander turbines, compressors to conventional fans.

## Purpose of Genset Overhaul

Generator overhauls increase the performance and life of equipment, So we execute efficient service in carrying out overhauling for various kind generators & engines including OEM spare parts with warranty and guarantee.

Our field service specialist are the best in power industry with decades of time tested and proven capabilities and we undertake A2Z overhauls.



## Purpose of Load Test

We test your generators performance efficiency by our load bank with over a range of loads constantly for 2 to 4 hours.

The generator will let to know if it is ready to take the strain or if any components have deteriorated and need replacement.

Jupiter offers loadtest & load test certification as a separate service other than repairs task.



## Purpose of Genset Rewinding

Jupiter is a specialist in re-winding all kind of generator stator, rotor and transformer, which are widely appreciated by our clients as we are engaged in offering timely and efficient services.

We have facility with well equipped winding and testing machinery workshop and winding cum testing machines capacity 10KVA to 4000KVA.

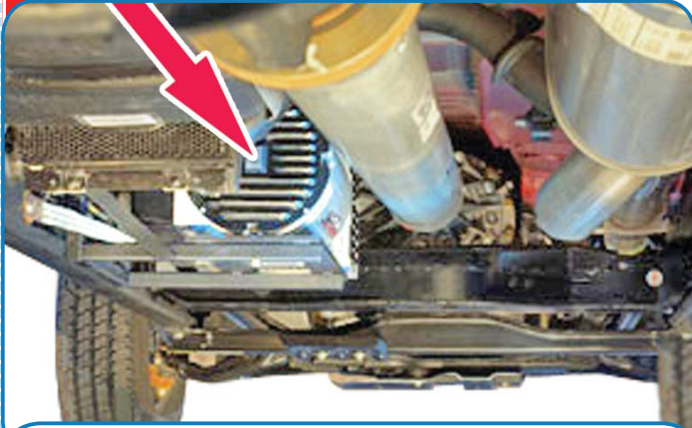






## Jupiter made Trcuk Generator

### GMC 30KVA Generator



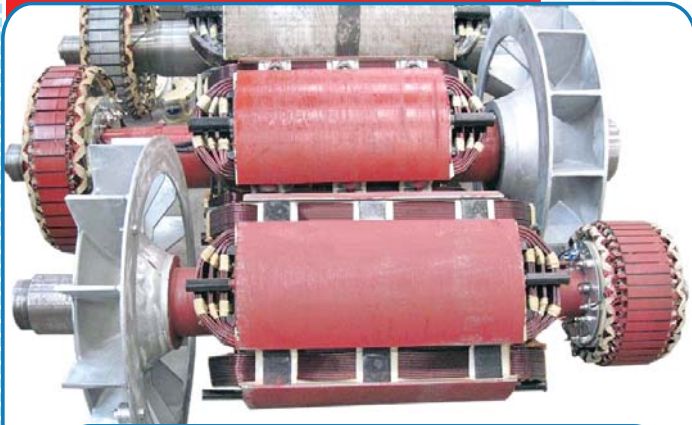
We Design, Manufacture, Supply Erection Alternator under your light & heavy vehicles & trucks

### Under Truck Generator



We Convert Your Vehicles & Trucks in to Mobile Generator Capacity from 3 KVA upto 160 KVA

### Re-Insulated Rotor



All Generator Rotar & Stator Re-Insulation Boost Up, Surge Test, Core Repair & Demagnetize

### Generator Rotor Winding



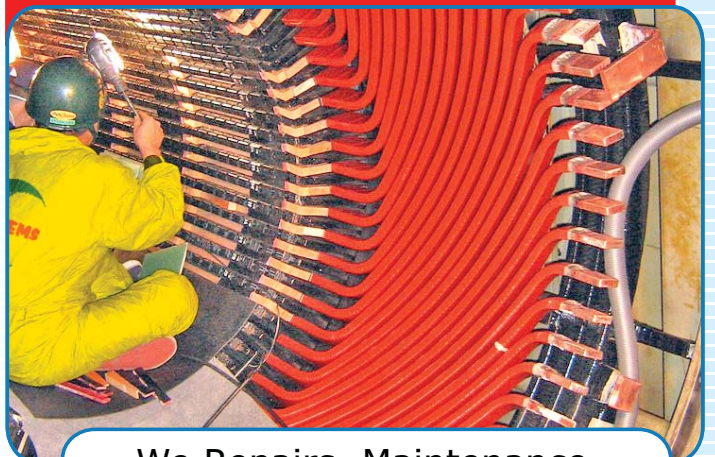
We winding all kinds of AC/DC Motors, Alternators, Vibrators 50/60/100/200/ Phase Convert

### Turbine Stator Insulation



We do Insulation for all kinds of L/H generator stator rotor, AC/DC motors & vibrators

### Turbine Stator Maintenance

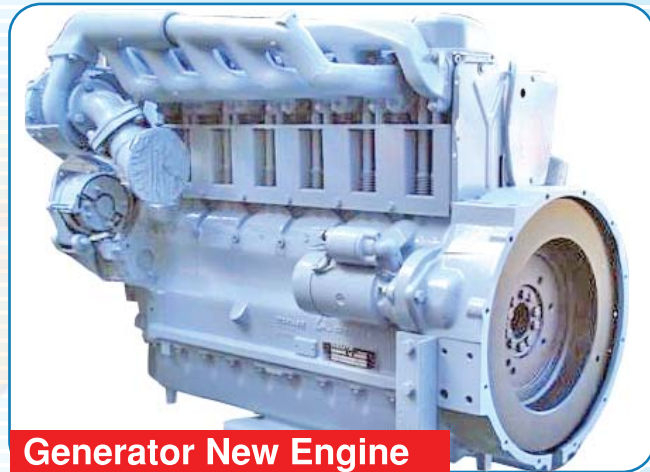


We Repairs, Maintenance Upgrades, Recondition all kinds of light & heavy alternators





**Genset Sound Proof Canopy**



**Generator New Engine**



**Genset Sound Proof Canopy with Trolley**



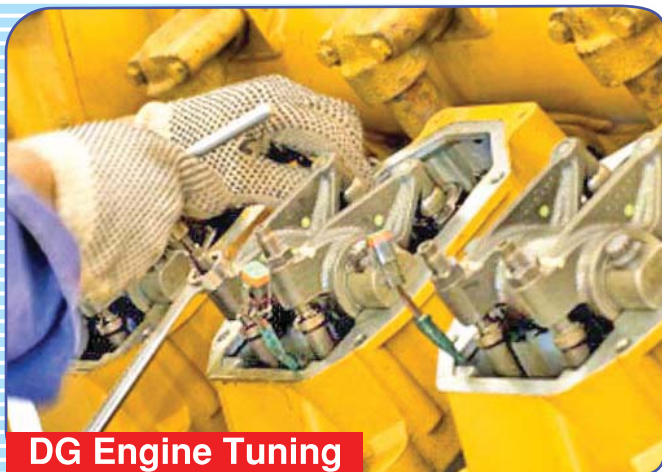
**New Generators**



**Generator Maintenance**



**Generator Dismantles**



**DG Engine Tuning**



**Generator Erection**





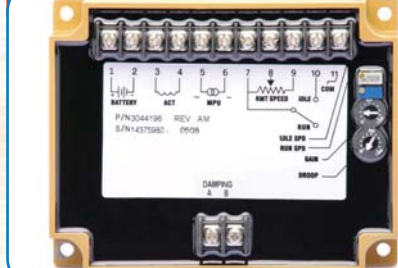
## Gensets Parts

### ATS/MTS Control



Supply & Install all kinds of programmable ATS controller

### Engine Governor



Supply all kinds of Engine Governor & controller

### Battery Charger



We Manufacture & Supply all kinds of Battery Charger

### Oil Press Gauge



Supply & Install all kinds of Engine A/D Oil Press meters

### Water Temp Gauge



Supply all kinds of Engine Water A/D Temp meters

### DG ATS Controller



Supply & Install all kinds of SYNCHRO & ATS controller

### Genset Controller



Supply & Install all kinds generator & engine governor

### Genset Controller



We manufacture, supply all kinds of Simple DG Control

### DC/AC/DC Charger



We Manufacture & Supply DC/DC, DC/AC Battery charger



## Genset Testing Devices

### DG Set Load Test



We do Genset Load Testing, Certification & Valuation

### Genset/AC DB Load Bank



Industrial & Heavyduty Generators DB & EB Panel Load Testing & Certification

### Battery Test Load Bank



IT/TV/Telecom UPS & Invertor Battery Load Testing, Condition Monitoring & Certification



# Parts & Controls

## DG ATS & MTS



We Import, Make, Supply  
ATS, MTS, RTS Automatic  
Power Distributor Panel

## ATS-MTS-DTS



DG-EB ATS, MTS, RTS, STS  
Supply, Erection &  
Commissioning

## ATS-MTS-DGC



We Made Custom Design  
Motorized ATS, MTS, RTS  
EB to DG / DB Panels

## A2Z Generator AVR's



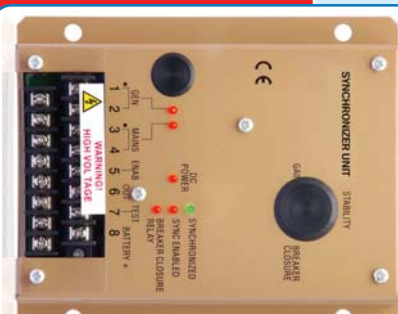
We have in stock all brand  
& all kinds of AVR's from  
2 KVA upto 2400 KVA

## Turbo Charger



Supply all types Turbo  
Charger, Parts, Accessories,  
Repairs, Maintenance

## DG Synchroniser



Supply & Install all kinds of  
Generator Synchronising  
Controls & Devices

## W/O/E/R Sensors



Supply Analog & Digital  
Sensor for Oil Pressure,  
Water temp & Level

## Rectifier Assembly



We Design, Manufacture,  
Supply & Install all kinds  
of Rectifier Assembly

## Engine RPM Sensor



Supply & Install all kinds of  
Analog & Digital Sensors,  
Proximity, Photo Diodes

## Genset New Stator



We Supply & Winding all  
kinds AC / DC Generator  
Alternators, Motors, Coils

## New Alternator



We Supply & Erection All  
Brand & All Kinds of New  
and Used Alternators

## New Exciter Rotor



Supply & Make Generator  
Alternator Exciter Rotor,  
Rewind & Demagnetise



## Marine Generators

Our experience, our product line, and our commitment in marine power run deep. our generator set will meet your auxiliary power needs up to 14.5 ekw, and the latest emission control standards — all with the peace of mind you need out there. And whether your application is a pleasure craft, or a commercial or ocean-going vessel, this compact unit will have a big impact on your voyage — and your bottom line.



### Reliable

- Excellent power quality is suitable for sophisticated equipment
- 100% block loading capability starts big loads
- Indirect injection system with glow plug enhances coldweather starting

### Economical

Fuel economy and minimized service needs unite to deliver low operating and maintenance costs.

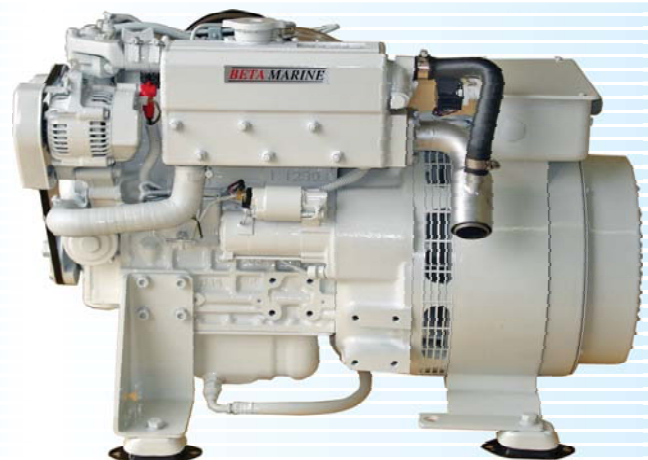
- Single-side servicing
- 500-hour oil and filter change interval
- ELC for extended cooling system maintenance intervals

### Safe

Automatic safety shutdowns include low engine oil pressure, high fresh water temperature, overspeed, and high exhaust temperature .

### Flexible

Available as an open or closed set with heat exchanger or keel cooling





## Generator & Engine Control Systems

Generators are equipped with a programmable microprocessor and control units measuring and indicating all parameters and alarm messages as a standard. Control systems enable the operators to switch on and off the generator and to monitor its various parameters. Programmable parameters provide flexible control over changing conditions.

Control panels are made of A1 quality steel plate and painted with electrostatic powder paint against corrosion. In addition to the standard (Manual), Automatic, Synchronization control panels, Jupiter manufactures custom-built control panels in accordance with the specifications and operating conditions of its customers.

## Custom Design Generator Control System Manufacture & Supply

Jupiter custom designs and builds low-and medium-voltage power control systems to meet the stringent performance and reliability requirements of data centers, airports, hospitals, communications, energy, defense, and other mission critical facilities.

Russelectric systems can control on-site emergency generator operation, synchronizing, and distribution. Switchgear can provide open-transition transfer or utility paralleling for closed-transition transfer.

Systems can be designed to manage sophisticated control schemes such as:

- Emergency Power
- Soft Loading
- Load Curtailment
- Peak Shaving
- Utility Paralleling
- Cogeneration
- Prime Power

Every Jupiter power control system is custom-designed and manufactured to specific customer requirements and stringent performance, safety, and quality standards. All components are of the absolute highest quality. Jupiter industrial-quality PLC controls ensure flawless system operation - even in the event of a control failure. Controls are designed to allow fast, easy upgrades such as the addition of accessories or advanced monitoring and control capabilities.

Manual Analog Control Panel



Generator LED Control Panel



Semi Automatic Digital Controller



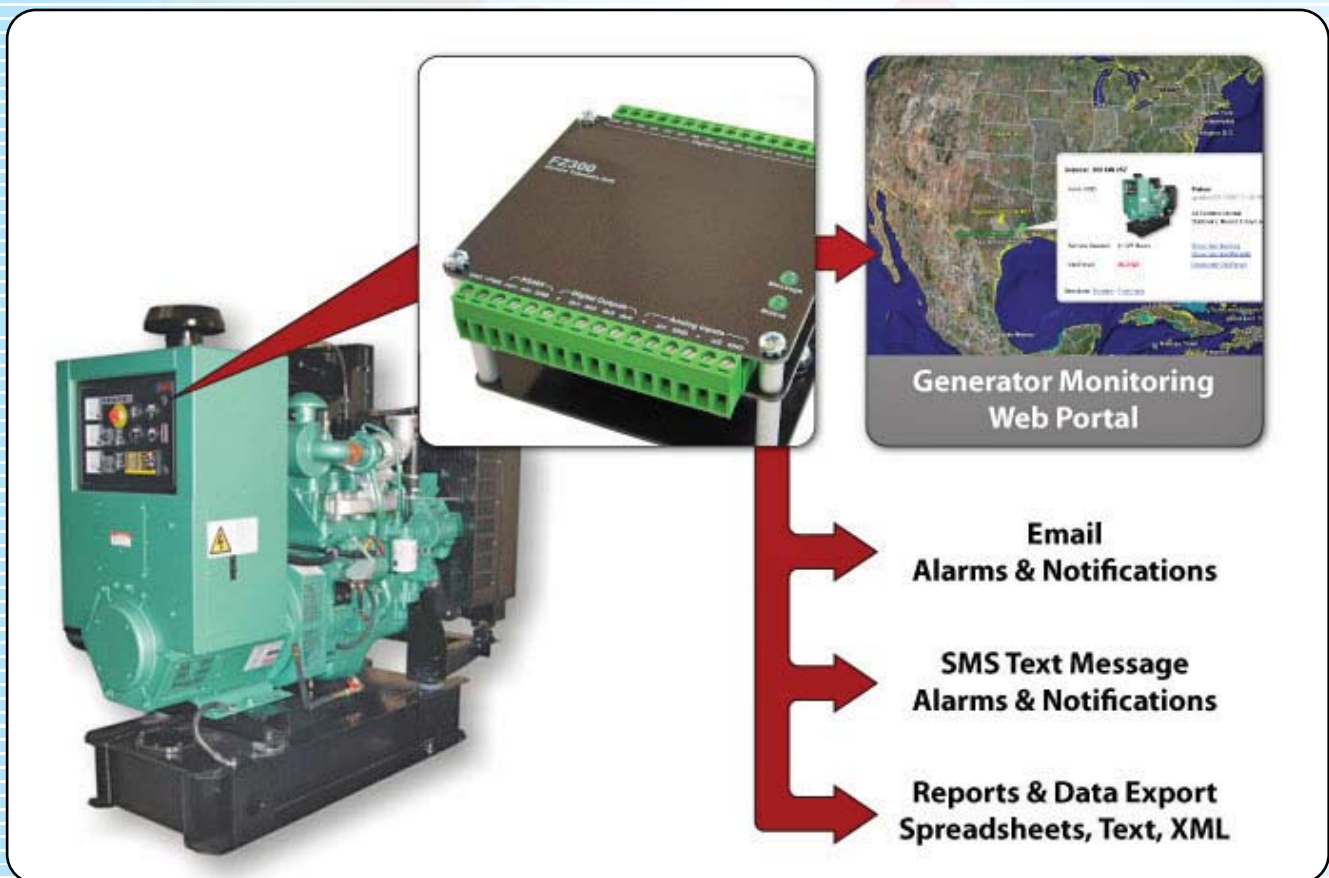
## Full automatic control system convert to semi automatic & manual

Due to technological advances, there are many benefits to upgrading to a more supportable, versatile control system. The most important of these include increased reliability, and substantially lower maintenance/repair costs for your standby power system. Control panels over 10 years old are increasingly difficult to support, and any work involving these incurs much higher costs as a result. New panels also offer greater versatility, allowing you to add extra capacity to your install and make the most of your existing hardware.

## Remote Generator Monitoring Systems

Jupiters remote generator monitoring software package that connects to any generator set equipped with PowerManager control system. Users can monitor multiple systems from a single PC. It allows the user to check site status or a servicing technician to remotely diagnose either a single genset or a Modular Power System (MPS) via direct serial connection, phone line or Ethernet connection.

Connected PCs display continuously updated information from the generator or system controller about each generators operating condition. Input values and operational parameters can be easily viewed using point-and-click menus and status screens. Valuable information such as generator usage data, alarm history and predictive maintenance reminders are easily accessible.



## Remote Generator Monitoring Installation & Servicing

This Unit (RTU) monitors your standby generator and picks up available alarm and status signals from the generator control or genset annunciator panel. If an alarm or status change occurs the wireless monitoring unit transmits the signal to the monitoring website where the condition is recorded and then distributed to as many email addresses, cell phones via text message, or pagers as you like.

Ideal for both standby generator and mobile generator management, the generator monitoring solution enables remote generator management to make sure your emergency power system is in top form and ready to go at a moment's notice. Remote generator monitoring ensures critical equipment is ready while extending life and reducing maintenance costs.

When the status of your standby generator changes, notifications and alarms are instantly sent via SMS to cell phones, pagers, PDA's and by e-mail.





## Mechanical & Electrical Rotary Frequency Converters

Rotary frequency converters convert incoming AC Power into rotary mechanical power (spinning motor), which transmits its rotary power to a generator, which converts its mechanical power into Electric AC output power. Rotary power is often described in terms of Horsepower, while Electrical power is described in Kilowatts (kW) or Kilovolt-Amperes (KVA). The conversion of frequency (hertz – Hz), voltage, and/or phase (3 phase, 1 phase) are inherent in this process.

### Typical Characteristics OF Rotary Frequency Converters

More attuned to larger applications 10 KVA plus

Much better at starting motor loads

Rugged floor mount construction

Generally, fixed output frequency

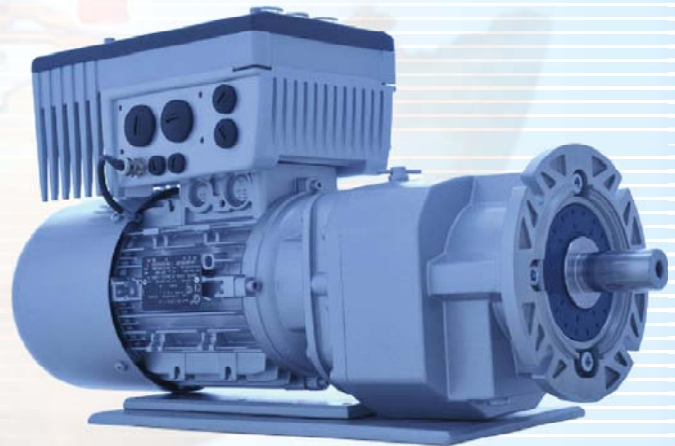
Costs do not increase linearly with power;

e.g., 3x power = 1.5x cost

Harmonic distortion and noise on input power is not passed to the output

Can source heavy overload currents 2-4X for short periods of time

Full load efficiency up to 90+% on large units



### Benefits of Rotary Frequency Converters

When potential clients are faced with buying a frequency converter, ours or those of our competitors, they often find the cost to be a major impediment. Do they really need the frequency converter? Well, the answer lies in what type of load is being served.

Applications involving motor loads often need a frequency converter because the rotational characteristics, specifically revolutions per minute (RPM), are a direct function of the input frequency of the electricity. A 60 Hz. Motor will spin at some multiple of 60, e.g., 1800 RPM. Concurrently, a 50 Hz. Motor will spin at a multiple of 50, e.g. 1500 RPM.

Thus, when dealing with a motor load, especially in a multi-motor machine, it may be quite necessary to use a frequency converter to ensure that the motors spin in accordance to the original rotational design.



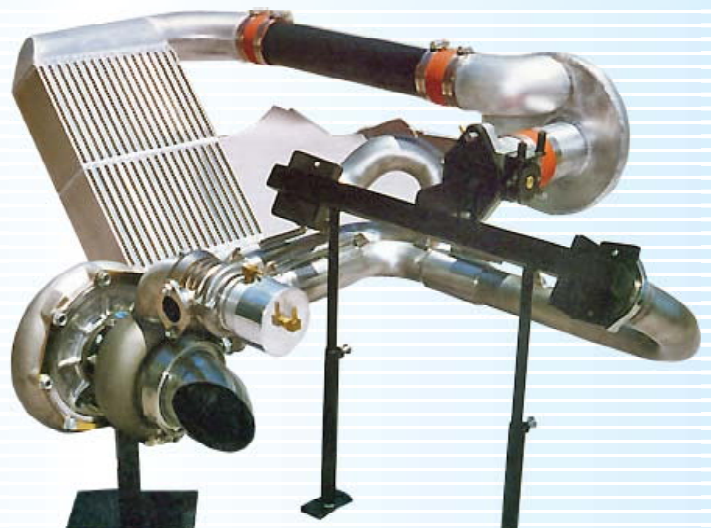
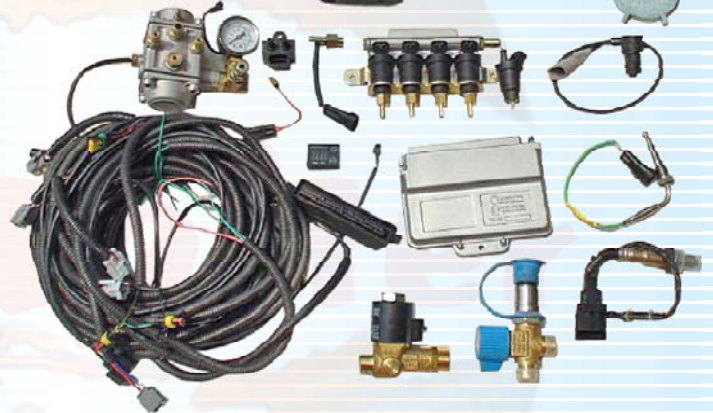
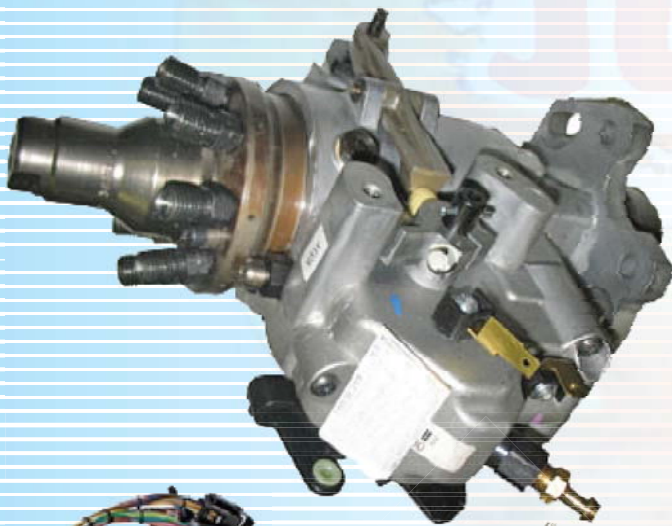
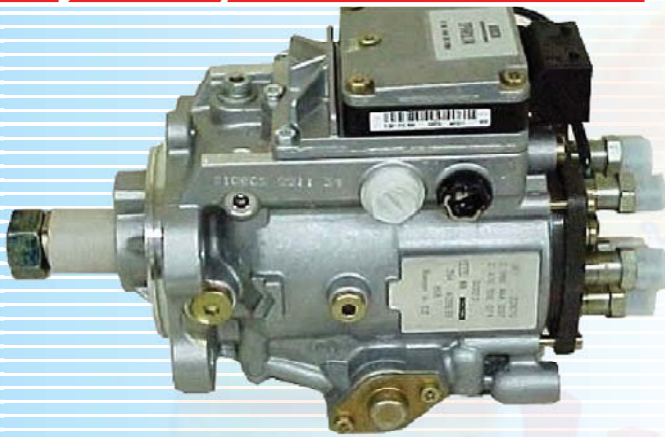




**Electronic Fuel Injection system  
convert to Mechanical fuel  
injection system**



**Custom Design Engine  
Inter Cooler System**





## Marine Generator Services

As a full service Marine generator repair facility, we offer 24/7 365 day a year emergency response. Our Field Service Technicians are factory trained and are familiar with mostly all major brands of power generation units.

Our field service trucks are stocked with parts and diesel fuel. This allows us to perform a wide variety of repairs and fueling at your facility.

we carry a variety of marine generator parts and components. We can also order parts for a variety of other manufacturers as well. Specific parts such as battery chargers, electronic governors and electronic engine controllers are available for immediate shipment.







H.O: INDIA

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