



www.force-mtu.com



Force MTU Power Systems Pvt. Ltd.

A Joint Venture of Force Motors and Rolls-Royce

About Force

Force Motors is a fully vertically integrated automobile company that has played a pioneering role in the development of **LCV industry** in India having introduced iconic brands like the **Tempo, Matador, Minidor, Traveller, Trax**, etc.

Force Motors is the only company in the world that is producing engines for leading premium luxury car makers Mercedes and BMW.

Engines fitted on every Mercedes and BMW car made in India are produced at Force Motors.

About Rolls-Royce

Rolls-Royce Power Systems AG is a fully owned subsidiary of the **Rs.2,25,000 Crore Rolls-Royce plc group**.

Rolls-Royce plc with over **50,000 employees** in **50 countries** pioneers cutting edge technologies that deliver the cleanest, safest and most competitive solutions

Rolls-Royce is one of the most renowned and respected brands which has customers

- in more than **150 countries**,
- comprising over **400 airlines**,
- **160 armies, 70 navies**,
- **4,000 marine** and
- **5000 power and nuclear customers**



About Force MTU Power Systems Pvt Ltd

It is a Joint venture of Force Motors (51%) and Rolls-Royce Power Systems AG(49%) set up to manufacture in India and sell worldwide the renowned MTU Series 1600, 10 and 12 cylinder diesel engines for power generation, under floor rail and other applications.

This joint venture combines the strengths of the two partners viz., Rolls-Royce Power Systems' **cutting edge technology** in reciprocating off-highway engines and Force Motors' long standing experience in **top quality manufacturing** with access to the cost competitive Indian supplier network and **knowledge of the Indian market**.

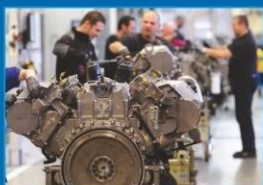


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Manufacturing Facility

The new state of the art set up at Chakan, Pune will be the only facility in the world manufacturing the MTU Series 1600 engines and power generation systems. It is a new exclusive manufacturing facility set up to the exacting standards of Rolls-Royce at Chakan near Pune.

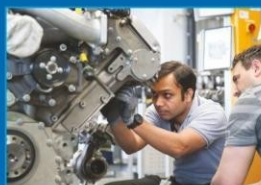
The engines and generating sets manufactured by Force MTU Power Systems shall be sold/serviced to customers in India, Nepal and Srilanka by Force MTU Power Systems and sold/serviced elsewhere in the world through the distribution network of Rolls-Royce Power Systems AG.



Engine Assembly Line



Manufacturing Execution System



Assembly & Quality Check



Engine Cold Test



Engine Hot Test



Genset Assembly for India & World



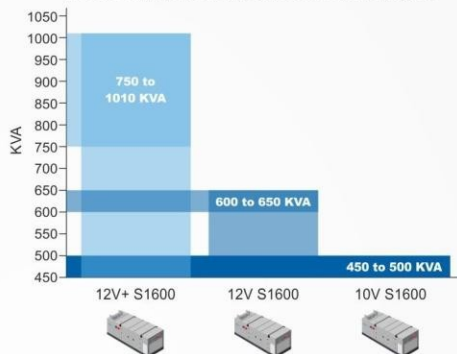


Force MTU Diesel Power System Range

The FMTU Series 1600 engine range with state of the art Common rail direct injection technology is a full authority electronics engine for best in class reliability essential for generating sets installed at sensitive locations requiring top quality prime and standby power requirements from 450kVA to 1010 kVA.



Diesel Generator Range for Series 1600 Engine



Best in Class Fuel Efficiency

The FMTU Series 1600 engines are known for their near linear fuel efficiency at loads varying from 25% to 100% making them the most cost effective in terms of operating costs.

It also has best in class block loading capability and hence there is no need for over sizing the generating sets for accommodating sudden momentary peak loads.



Lowest Maintenance Cost

The high technology, high performance engines with high ambient and altitude capabilities have longer maintenance intervals and no scheduled overhauls.

They are supported by a dependable after sales service network assisting with preventive maintenance measures and ensuring highest uptime.

Following special customized product support packages have been developed to cater to varying requirements.



Bronze : Ensure parts availability & piece stability

- Only for customers with self-service maintenance capabilities
- Predefined rate per operating hour for basic maintenance components
- Automatic delivery of preventive spare parts based on operating hours



Silver : Eliminate the risk of unexpected maintenance costs

Silver includes all benefits of Bronze level and more :

- Predefined rate per operating hour for maintenance and repairs
- Predefined prices for extended component maintenance and major overhauls
- Quarterly reliability reporting
- Proactive remote engine health monitoring, including maintenance planning and troubleshooting



Gold: Maximize operational uptime

Gold includes all benefits of silver and Bronze levels and more :

- Operational Uptime commitment to meet or exceed your availability targets
- Engine preservation management
- Monthly reporting including availability and repair times
- Annual performance meetings and trend analysis



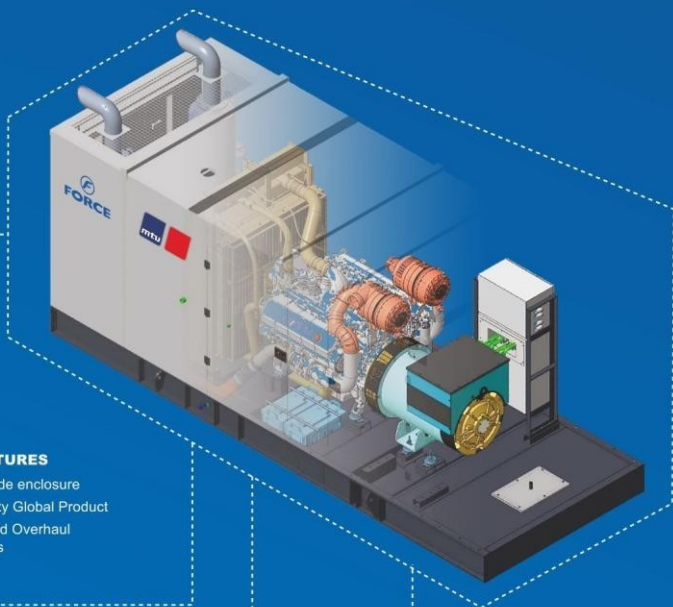
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Exclusive Benefits of the FMTU range

The FMTU Series 1600 engines are designed and developed keeping in mind the heavy demands it would be subject to in a wide variety of applications like power generation, construction, under floor rail etc.,

The engines made at Chakan will be a single quality global product which means every product made here will meet the Rolls-Royce global standards.

The integrated silencers ensure that the generating sets are compact in size ensuring no additional mountings or protection requirements at the site



UNIQUE FEATURES

- Silencer inside enclosure
- Single Quality Global Product
- No scheduled Overhaul requirements



STANDARD FEATURES

- Digital Voltage regulator
- +/- 0.25% Voltage regulation
- +/- 0.25% frequency regulation



HIGHLIGHTS

- Sustained 300% SC for 10 seconds
- Sub base fuel tank 9 Hours capacity
- Extra protection for rain entry through sheet metal joints
- Bottom sheet plate for protection
- Hot air out from top



HIGHLIGHTS

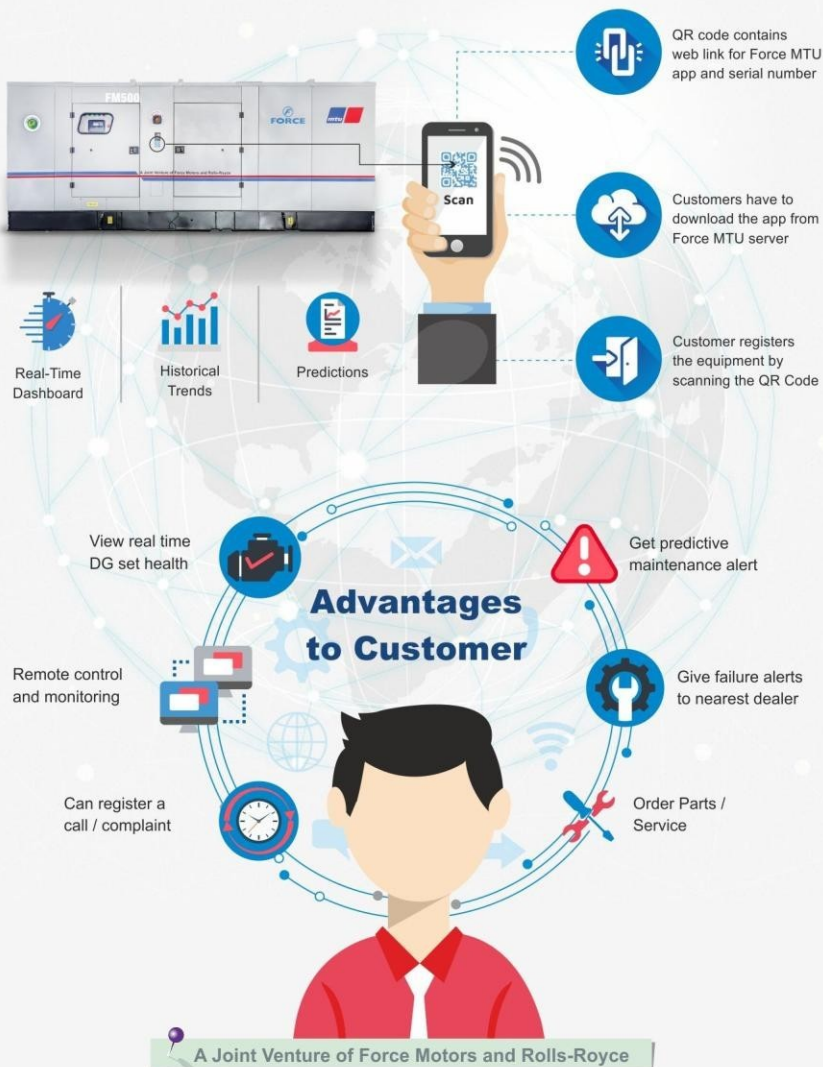
- 50 deg C Radiator
- Full authority electronic CRDI engine
- Major service points on 1 side of enclosure
- Class G3 governor
- Fuel cooler
- Fuel water separator
- Extended service interval
- Customized Warranty program

New Age Internet enabled Digital Support Solutions

The FMTU Series engines and generating sets have real time internet enabled remote monitoring and diagnostic capabilities.

The customers can download the app which will enable them to register their equipment by scanning a QR code and then they can view on a real time basis the operating parameters of their generating sets.

The app also provides preventive maintenance alerts as well as failure alerts to the nearest dealer.



Industries Served

Whether it's Commercial Building Manufacturing Plant, Stone Crushing, Mining, RMC Plant or Batching Plant, Force-MTU Diesel powered Genset offers prime power to the most rugged site condition seamlessly. Our diesel generator sets cover a complete power range, featuring an industry-leading average load factor, reliability and availability. Force MTU offers backup power solutions to maximize uptime and to increase your productivity.



Data Centers



Hospitals



Airports



Commercial Buildings



Infrastructure projects



Luxury Hotels



Manufacturing

Already present in India and across the globe

MTU Series 1600 engines and generating sets are already in service throughout the country providing round the clock, uninterrupted, high quality power to critically sensitive applications like international airports, data centers, manufacturing industries and premium real estate projects.

Airport / Infra	 DELHI INDIRA GANDHI INTERNATIONAL AIRPORT	 HYDERABAD RAJY GANDHI INTERNATIONAL AIRPORT	 Bengaluru INTERNATIONAL AIRPORT	 BUDDH INTERNATIONAL CIRCUIT
IT / Data Center		 TATA CONSULTANCY SERVICES	 SYNTEL "Consider IT Done"	 ascendas
Manufacturing		 SIEMENS Ingenuity for life	 Reliance Industries Limited	 Cargill
	 ITC Limited	 PACIFIC CEMENT ELEVATING STANDARD OF EXCELLENCE	 MARUTI SUZUKI	 JATA HIND Elevating India's Real Estate
Real Estate	 Shapoorji Pallonji	 NIRLON	 PHOENIX fovera	 Assetz empowered innovation

Made in India for the World

The new plant in India will be the only facility in the world manufacturing MTU series 1600 engines for applications like Gensets, under-floor Rail, etc for worldwide requirements of Rolls-Royce Power Systems.



Nation Wide Spread Sales and Service Network

Force MTU diesel generator sets provide reliable solutions for your power generation needs through our dependable sales and service network.

Featuring low fuel consumption, long service intervals and low emissions backed by more than 60 years of experience, our generator sets are designed to perform.



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