Gendrive

Series 4000
Diesel Engines
for Stationary Power Generation

The New Series 4000!
Cleaner.
More Economical.
More Powerful.

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Tognum Group Companies
Supplying your energy needs

MTU engines are the basis for reliable and economical power generation solutions. The enhanced performance Series 4000 offers impressively low fuel consumption, low emissions and long service intervals. The extensive choice of integrated accessories also helps you to reduce the engineering complexity.

With the comprehensive choice of power outputs, the Series 4000 engines offer the optimum solution for all applications.

The electronic engine management system is capable of performing a comprehensive range of control and monitoring functions, not only for the engine, but also for the installation. This will substantially reduce planning complexity and will make system control simpler and more cost effective.

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Your benefits:

- Minimal assembly and engineering work
- Comprehensive range of accessories (e.g., air filters, exhaust compensators, engine and generator mountings, etc.)
- Optimized interface configuration
- Bespoke system and installation planning
- Optimized operating characteristics
- Low vibration properties
- Automatic engine protection if ambient conditions change (ESCM - Engine Site Condition Management System)
- Outstanding load response characteristics
- High stability of speed and frequency
- Environmentally sound
  - Leaders in national and international emissions standards compliance
  - Low fuel and lubricant consumption
  - Low noise and vibration output
  - Finished in ecologically safe paints
- High system availability and reliability
  - Long service life
  - 24-hour support service
  - Global customer service network with ≥ 1,100 service centers
  - Electronic engine management system with self-diagnosis function and remote diagnosis capability
- Low life-cycle costs
  - Attractive price
  - Low fuel consumption
  - Low oil consumption
  - Ease of maintenance
  - Long TBO
  - REMAN parts

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Series 4000 technology: Superior in every detail.

ADEC (Advanced Diesel Engine Controller) engine management
Electronic engine management controller with enhanced processor performance for economical fuel consumption and compliance with current exhaust emissions requirements. Suitable for multipoint injection.
Compatible with a variety of fuel injection and injector types.
Tough, vibration-resistant design with wide operating temperature range.

Benefits:
> Optimum operating characteristics
> Outstanding load response characteristics
> Maintenance-free design

Common-rail injection system
Electronically controlled fuel injection system with high-pressure pump and unit injectors with pressure accumulators.

Benefits:
> Optimum control of injection timing, volume and pressure
> Low exhaust emissions
> Low fuel consumption across entire operating range
> No mechanical adjustments required
> Outstanding startup and load response characteristics
> Excellent reliability
> Exemplary engine smoothness
> No loss of power at high fuel temperatures
> Optimum cold starting characteristics

High-pressure pump
Common rail
Injector with high-pressure accumulator
Fuel filter

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**ADEC electronic engine management module**
- Engine monitoring and management
- Communication with auxiliary systems via CAN bus and appropriate interface module
- Self-monitoring and diagnostics
- Extensive input/output channels
- Programming and configuration using interaction device via MCS-5 CAN bus interface

**SAM Service Application Module**
- Display of warnings, alerts, operating information and fault codes
- Web server access and remote diagnostics
- External controller connection via CAN bus/SAE J1939 using bus card

**SAM+ Service Application Module**
- Fuel level display and monitoring of immediate-supply tank and main reservoir
- Fan/vent control
- Generator exciter boost control
- Monitoring of generator winding temperature
- Preheat control and circulation pump control
- Speed boost control
- Load uptake ready signal
- Fuel prefilter monitoring
- Selection of second controller data record

**LCD display (color)**
- Display of operating data and alerts
- 5 function keys for operator guidance
- Integrated backlighting

**Analogue instruments**
- Engine speed
- Oil pressure
- Coolant temperature
- Oil temperature

**SAM Service Application Module**
- Display of warnings, alerts, operating information and fault codes
- Web server access and remote diagnostics
- External controller connection via CAN bus/SAE J1939 using bus card
Electronic management, monitoring and control system with speed/ cylinder charge modulation (alternatively) and integrated safety and self-diagnosis functions. Automatic engine protection functions (SAM) in response to variations of ambient parameters. Easy to install and maintain. Additional engine protection functions (SAM) in response to variations of ambient parameters. Easy to install and maintain. Additional engine protection functions (SAM) in response to variations of ambient parameters. Easy to install and maintain. Addition...
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