SETTING NEW STANDARDS

Mitsubishi

GRENDIA



A next generation, higher performance machine.

Thanks to the application of new technologies, the Mitsubishi Grendia is not only easier to operate but friendly to the environment as well.

The new Mitsubishi Grendia's engine is very fuelefficient and has ultra low emissions, which either
complies with or exceeds the latest international environmental
standards. In addition to its newly designed engine, Mitsubishi
Forklift Trucks has increased rider comfort and enhanced
safety. For instance, all Grendia forklift trucks incorporate
an Integrated Presence System (IPS), which enhances safety
and helps reduce accidents. LCD graphic displays and
digital monitoring systems also make the Grendia safer and
more efficient.

It's the forklift of tomorrow that's available today.



Electronically controlled gasoline engine Capacity rating 1500kg @ 500mm load center

MOVING AHEAD

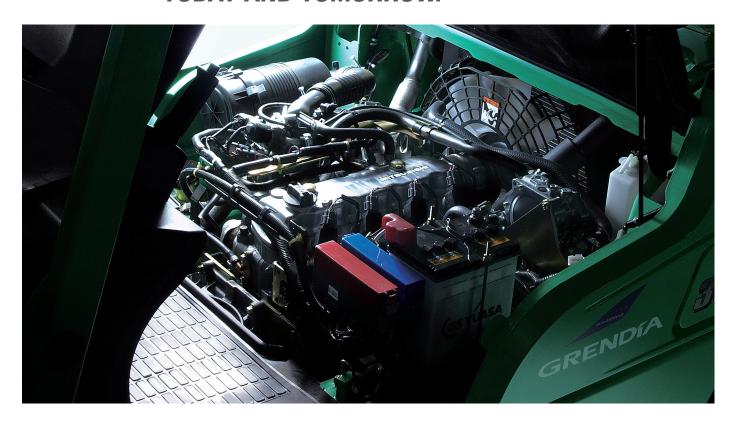
FD25N





GRENDIA'S ECO-POWER

MEETS THE ENVIRONMENTAL REQUIREMENTS OF TODAY AND TOMORROW.



NEW 2007 EMISSION STANDARDS COMPLIANT*: NEW ELECTRONICALLY CONTROLLED GASOLINE ENGINE

Mitsubishi Grendia's advanced gasoline engine, which helped pioneer the standard use of electronically controlled fuel injection and three-way catalytic converters in forklift trucks, has evolved even further. The new Grendia has achieved remarkable environmental controls and complies with all 2007 Emission Standards while still maintaining high performance and reliability levels.

* 2007 Emissions Standard for Specific Special Vehicles (including off-road vehicles) Compliant with Emissions Standard for Specific Special Vehicles Ministry of the Environment

Ministry of Economy, Trade and Industry Ministry of Land, Infrastructure and Transport





TWO-LEVEL HIGH/LOW SPEED LIMITER

The Grendia's automatic speed limiter can be set to two levels – outdoors (HIGH) and indoors (LOW).



Drivers can alternate between the two speed limits at the flick of a switch, helping them to choose the most appropriate fuel efficiency for the location.

• Standard for Electronically Controlled Gasoline Engine Trucks

POWER/SOFT MODE SWITCH

Depending on the task, two power levels can be selected: POWER mode, which maximizes power output and SOFT mode for fuel efficiency and low noise levels. Selecting SOFT mode cuts CO₂



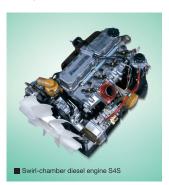
emissions by approximately 13% compared to the POWER mode.

 Standard for Electronically Controlled Gasoline Engine Trucks

2007 EMISSION STANDARDS COMPLIANT*: HIGH RELIABILITY DIESEL ENGINE

The well-known performance levels of the highly acclaimed Mitsubishi Diesel Engine have been maintained but now come with eco-friendly refinements. The upgraded engines have now achieved low emission levels in compliance with the 2007 Emission Standards without compromising horsepower or reliability.

 2007 Emissions Standard for Specific Special Vehicles (including off-road vehicles) Compliant with Emissions Standard for Specific Special Vehicles Ministry of the Environment Ministry of Economy, Trade and Industry Ministry of Land, Infrastructure and Transport





LOW-NOISE DESIGN FOR MAXIMUM COMFORT WITH MINIMAL OPERATOR FATIGUE

With features such as low-noise engine, enhanced soundproofing of the engine compartment and floor level noise dampening, Mitsubishi Forklift Trucks has achieved a quiet working environment both for the operator and the surrounding working environment.

• ISO-equivalent noise level (When diesel engine is in SOFT mode at high idle speed)



OPTIONAL ECO-FRIENDLY VEHICLES WITH CLEAN EXHAUST EMISSIONS

Besides the gasoline-powered and diesel-powered models, the Grendia is also available in other clean exhaust, energy-efficient models. These include LPG-powered or diesel trucks fitted with DPF (Diesel Particulate Filter) that helps eliminate possible black smoke.

Vehicle fitted with DPF helps eliminate black smoke.



The ceramic DPF filter recovery unit is fitted inside the right-side step of the machine.



DPF exhaust monitor. Displays filter levels and necessary recovery time.

■ LPG powered version



"SAFETY FIRST"

- YET ANOTHER GRENDIA HALLMARK



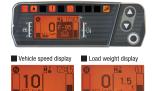
INTEGRATED PRESENCE SYSTEM - "IPS"



Grendia is fitted with Mitsubishi's IPS, an integrated active safety system designed to improve vehicle safety by actively detecting problems before they become accidents. It not only ensures safety during vehicle operation but also prevents errors when the operator is not seated, protecting both the operator and the workplace from potential accidents.

NEW INTEGRATED DIGITAL MONITORS

In the cab, digital displays are used to provide easier monitoring of systems and controls. The digital panel illuminates when the ignition is switched on allowing speed, load weight and system monitors to be checked at a glance.



MAST AND TRAVEL INTERLOCK

Mitsubishi Grendia forklift trucks are equipped with mast and travel interlock protection device that is linked to the operator's seat. If the operator is not seated, the mast and (for torque-converter models) the movement of the vehicle itself, is automatically locked in order to prevent injury or damage to property.

• Note that brakes are not applied in travel interlocking, so trucks can still move on slopes due to gravity.

LIFT LOCK

The fork on the Mitsubishi Grendia is automatically locked when the ignition is switched off, so it remains in position even if the lift lever is accidentally bumped or moved.

NEUTRAL SAFETY

A Neutral Safety device, which prevents the engine from starting unless the forward/backward lever is positioned at neutral, is now built in on all vehicles, including all torqueconverter-fitted vehicles and all direct drive vehicles.



INNOVATIVE AND RELIABLE SAFETY FEATURES HELP PROTECT OPERATORS AND WORKPLACE

HIGH-MOUNTED REAR COMBINATION LAMP

All Mitsubishi Grendias are installed with rear combination lamps above the head guard that clearly signals braking or stopping to vehicles or persons behind the forklift truck.



· Positions will differ for forklifts requiring vehicle inspections in Japan.

WIDE FORWARD VISIBILITY CLEAR REAR VISIBILITY

Unlike some forklift trucks, Mitsubishi Grendias have wide unobstructed visibility that extends from the tip of the fork to the top of the mast. Greater rear visibility is made possible by the Grendia's compact tail design.



OPTIONAL

HORIZONTAL DEPLOYMENT OF THE FORK AT THE FLICK OF A SWITCH – ALS*

Mast Vertical-Setting Mechanism

The mast can be automatically set vertically simply by pushing the tilt lever forward while pressing the switch, facilitating horizontal fork deployment.

* Automatic Levelling System







POWERFUL, SMOOTH AND COMPACT. EXCELLENT PERFORMANCE FOR SPEEDY WORK.

POWERFUL LIFTING CAPACITY

Mitsubishi Grendias are constructed with a low center of gravity frame that optimizes vehicle balance and stability during lifting. That means a greater load capacity with much greater stability. The high-torque, high-power engine maintains a stable lift speed regardless of the load, helping operators to increase productivity.





EXCELLENT LIFTING ABILITY

Lift speed: 640mm/s (when loaded)

660mm/s (when not loaded) • FGE25ZN

No capacity deration up to a height of 4 meters (2-stage mast).

SOFT LANDINGS

Another exclusive feature found on the Mitsubishi Grendia is soft landing system that activates when the fork nears the ground, automatically protecting loads from hard drops or shocks.

Only for two-stage masts.

SMOOTH RUNNING

The high power engine and the high performance transmission are perfectly matched to produce an extremely smooth start/acceleration as well as excellent traction even on uphill slopes. Excellent braking and stopping control is provided by a robust and reliable duoservo system.

■ SMOOTH ACCELERATION

10mm acceleration 3.1 seconds (unloaded)
• ED25N



POWERFUL UPHILL ABILITY

12-foot uphill velocity 5.0km/h (unloaded)
• FD25N



Tight turns are easy with the Grendia thanks to a fully hydraulic power steering fitted with steering synchronizer/mechanism for 100% stationary steering. Its maneuverability allows for easy U-turns and navigation in small workspaces.

■ EXCELLENT STEERING ABILITY



GRENDIAS ARE EASY TO MANEUVER EVEN IN CRAMPED WAREHOUSES AND DELIVERY BAYS

Right angle stacking aisle width 3650mm • FD15N



EASY OPERATION. DRIVER COMFORT.









- 2 Electric shift lever can be moved back and forth at the touch of a finger. (for torque-converter models only)
- 3 Acrylic roof (optional) for comfortable operation in outdoor conditions. Easily installed and uninstalled.
- 4 Tiltable steering column.
- 5 Fully hydraulic power steering. Fitted with steering synchronizer, a mechanism that automatically matches the rear wheel angle to the steering angle.
- 6 Inching pedal allows delicate movements.
- 7 Switches for optional functions positioned on the right side of the dashboard.
- 8 Combination switch integrating indicators and headlight switches.
- 9 Power-train full floating structure for excellent vibration reduction. The entire power-train is supported by vibration absorbent rubber mounts.













OPTIONAL "FINGERTIP CONTROL MODEL" - FOR EVEN SMOOTHER OPERATION

Grendias can be equipped with a fingertip controller to enable operations such as lifting and tilting at the touch of a finger.

- 1 Mast emergency stop button 3 Lift control lever 5 3V control lever

- 2 4V/5V switch
- 4 Tilt control lever
- 2 5 optional items
- 5 standard for certain regions

