

SETTING NEW STANDARDS

Mitsubishi

GRENDÍA





FGE15N

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



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

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 CO.



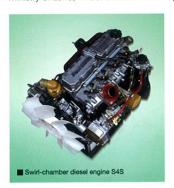
emissions by approximately 13% compared to the POWER mode.

• 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





Specifications

CHARACTERISTICS Type of Truck DIESEL ENGINE TRUCK Model FD15N FD18N FD20N FD25N Loading Capacity kg 1500 1750 2000 2500 Load Center mm 500 500 PERFORMANCE Maximum Fork Height mm A 3000 3000 Free Fork Height mm B 115 120 140 Loaded mm/s 630 630		FD35N 3500	
Model FD15N FD18N FD2CN FD2N FD25N Loading Capacity kg 1500 1750 2000 2500 Load Center mm 500 500 500 PERFORMANCE Maximum Fork Height mm A 3000 3000 500	3000	3500	
Loading Capacity kg 1500 1750 2000 2500 Load Center mm 500 500 PERFORMANCE Maximum Fork Height mm A 3000 3000 Free Fork Height mm B 115 120 140 Loaded mm/s 630 630	3000	2000000000	
Load Center mm 500 500 PERFORMANCE Maximum Fork Height mm A 3000 3000 Free Fork Height mm B 115 120 140 Loaded mm/s 630 630		200000000	
PERFORMANCE Maximum Fork Height mm A 3000 3000 Free Fork Height mm B 115 120 140 Loaded mm/s 630 630			
Maximum Fork Height mm A 3000 3000 Free Fork Height mm B 115 120 140 Loaded mm/s 630 630	30		
Free Fork Height mm B 115 120 140 Loaded mm/s 630 630		000	
Loaded mm/s 630 630	1	45	
	500	420	
Lifting Unloaded mm/s 690 650 660	530	450	
Speeds Loaded mm/s 520 520 500	530	420	
Lowering Unloaded mm/s 500 500	500	400	
Forward deg 6 6		6	
Tilt Mast Backward deg 12 12		12	
Loaded km/h 19 19		19	
Traveling (Powershift)		19.5	
Speeds Loaded km/h 19 19			
Traveling (Manual) Unloaded km/h 19.5 19.5	1	9.5	
Powershift Loaded kgf 1260 1250 1210 1830 1810	1770	1680	
Maximum Drawbar Pull	1460	1380	
Powershift Loaded % 33 29 25 36 31	25	21	
Maximum Gradeability Manual Loaded % 30 27 23 29 24	20	17	
Turning Radius mm C 1950 1980 2020 2200 2230	2380	2440	
Practical Intersecting Aisle Width mm 2065 2080 2105 2195 2215	2325	2365	
Practical Aisle for Right Angle Stacking mm 3650 3680 3735 3955 3985	4170	4230	
DIMENSIONS			
Overall Length mm D 3180 3220 3275 3405 3480	3805	3865	
with Standard Tires	1275	1290	
Width with Optional Duals mm 1330 - 1480		490	
with Lowered Mast mm F 1990 1990	2015	2130	
		055	
Height with Extended Mast (with Backrest) mm G 4055 4055 4055 105	2093		
Forks (Thickness x Width x Length) mm 1 35x100x920 40x122x920		50x125x1070	
		244~1000	
		244~1000	
		1700 1060	
		1140	
Tread Width Front, optional duals mm 1025 — 1140 Rear tyres mm N 900 900 980		980	
Titolar yies	135	150	
Ground Clearance at Lowest point mast mm 110 110 115 at Center of Wheelbase mm 150 150 160	190	200	
Size Front, standard 6.50–10–10–PR 6.50–10/5.00 7.00–12–12PR		28x9-15-12PR 250-15-16PF	
Tyre Size	AND		
Size Rear		6.50-10-12PF	
Size Rear S.00-6-6-FR S.00-6/3.00 S.		15.5	
	4350	4740	
	4390	4780	
Empty	4390	4770	
	4390	4810	
	4430	4010	
BRAKE That are the second of t	The property of the second	tud	
Service Brake Hyd. Hyd.	_	Hyd.	
Parking Brake Hand Hand	H	land	
POWERTRAIN			
Model \$4Q2 \$4Q2 \$4\$		54S	
Kw/rpm 30 / 2500 30 / 2500 38.1 / 2250	38.1	/ 2250	
Max. Rated Power / rpm to DIN 70020		10050	
ps/rpm 40.8/2500 40.8/2500 51.8/2250	51.8	/ 2250	
I POUDA	185	/ 1700	
Engine Nm/rpm 131/1800 131/1800 185/1700	10000	1000000 - 1 - 000	
Nm/rpm	1	/ 1700	
Nm/rpm 131/1800 131/1800 185/1700	18.9		
Max. Rated Torque / rpm to DIN 70020 Nm/rpm 131 / 1800 131 / 1800 185 / 1700		331	
Max. Rated Torque / rpm to DIN 70020 Nm/rpm 131 / 1800 131 / 1800 131 / 1800 Displacement cc 2505 2505 3331	3	331	
Max. Rated Torque / rpm to DIN 70020 Nm/rpm 131 / 1800 131 / 1800 185 / 1700 Displacement cc 2505 2505 3331 Fuel Tank Capacity / 46 46 66	3	66	
Max. Rated Torque / rpm to DIN 70020 Nm/rpm 131 / 1800 131 / 1800 185 / 1700	9 Powersh	66 ift / Manual	
Max. Rated Torque / rpm to DIN 70020 Nm/rpm 131 / 1800 131 / 1800 131 / 1800 185 / 1700 Displacement cc 2505 2505 3331 Fuel Tank Capacity / 46 46 66 Type Powershift / Manual Powershift / Manual Powershift / Manual	Powersh AT:1	66	