GRENDÍA EX (4.0 - 5.5 TONS)





MITSUBISHI GRENDÍA EX

SERIES FORKLIFT TRUCKS



FG40N

Gasoline engine Capacity rating 4000kg @ 500mm load center



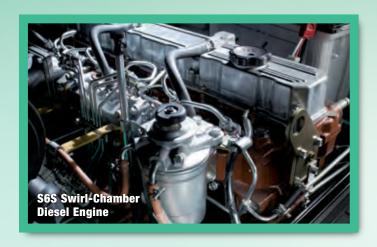
MADE FOR THE MOST DEMANDING APPLICATIONS

EGU-PUMER



POWER DOESN'T MEAN DIRTY

Under the hood of the N-Generation forklift truck is a simple, yet remarkable engine. Mitsubishi Forklift Trucks has developed and refined this robust and reliable power plant while achieving some of the lowest engine emissions in the world. And they've done all this without compromising engine life span, power or ease of maintenance.



HIGHLY RELIABLE DIESEL ENGINE THAT PASSED 2008 EMISSION

GAS STANDARD*

NOx (Nitrogen Oxide) emission

Reduced to less than 57%

*Compared with 2003 Japan Emissions Standard

PM (Particle Material) emission

HC (Hydro Carbon) emission

Reduced to less than 154%

*Compared with 2003 Japan Emissions Standard

The Mitsubishi S6S high performance engine, NOx, PM, HC emission can be controlled to comply with new environmental standards without adding common rail technology and other options. While low on emissions,

S6S engines are designed to be trouble free with only simple maintenance. The result: a powerful, clean operating engine with a long life span.

* 2008 Japan Emissions Standard for Specific Special Vehicles (including off-road)

2007 EMISSION GAS STANDARD COMPLIANT* GASOLINE ENGINE WITH THREE-WAY CATALYTIC MUFFLER

The N-Generation series also has an advanced electronic control system that allows optimum management of its engine, which means lower fuel consumption. To remove environmentally toxic combustion gases a three-way catalytic muffler (standard) has

been installed to create higher power yet with lower emissions.

* 2007 Japan Emissions Standard for Specific Special Vehicles (including off-road vehicles)



ONE-TOUCH SWITCH TO ECOLOGY MODE*

"Power/Soft Mode Switch" enables the N-Generation forklift trucks to change between power or ecology priority depending on conditions. Selecting the ecology mode means that CO₂ emissions are decreased by about 13%, a significant reduction of this environmentally toxic greenhouse gas.

* This is an option on diesel engine truck

POWER / SOFT Mode switch

Ecology Mode: CO₂ emission reduced by about 13%





SOLID FRAME & LOW CENTER OF GRAVITY DESIGN

The latest stress analysis techniques, together with proven Mitsubishi Forklift Trucks manufacturing technologies, have created a long-lasting frame and body with a low centre of gravity. This translates into better performance and enhanced stability when doing heavy work or carrying heavy loads.

EXCELLENT BODY BALANCE AND REAR VIEW

Designed not only to look good, N-Generation series forklift truck's new sharp form V-shaped counterweight provides exceptional stability and balance while allowing for an easier rear view, as well. The more a driver can see means better workplace safety and fewer accidents.



EFFECTIVE COOLING SYSTEM

All N-Generation forklift trucks are fitted with a large, heavy-duty radiator core. The radiator's low noise cooling fan along with optimum placement of the muffler make for a highly effective cooling system. Effective cooling translates into longer engine life and less downtime due to overheating.

STURDY MAST WITH BETTER **VISIBILITY ALL AROUND**

Mitsubishi Forklift Trucks' newly designed hardened steel mast rail is extremely strong and resists twisting and bending under loads that would cripple some forklifts. The mast also incorporates trouble free ball-type bushings. These bearings give the mast a longer life span and a longer service interval. Besides the optimum positioning of the mast itself, the main mast's cylinder and chain have been placed out of the way for even better driver vision. Better vision means better safety.

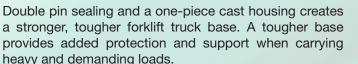


STEEL NOT PLASTIC

All N-Generation forklift trucks incorporate a wide, open step made from steel, not fibreglass, into its cab design. A steel step increases durability, prevents slipping and won't crack under pressure like plastics can.



TOUGH BASE AREA TO SUPPORT HEAVY LOADS





EASY OPERATION ORIVER CONFORT

MITSUBISHI FORKLIFT TRUCKS OFFER THE BEST OF BOTH WORLDS: COMFORT & SAFETY.

FD/FG40N-55N series cockpits are designed with operator safety in mind and incorporate the maneuverability, comfort and safety that professional have come to expect from Mitsubishi Forklift Trucks.

To improve operator comfort while reducing strain and fatigue, the forklift truck is fully equipped with advanced features that make operating a N-Generations series forklift truck less tiring and more productive than ever.

PRODUCTIVITY AND COMFORT FEATURES



100% Full Hydraulic Power Steering

Equipped with cornering and steering knob to help prevent accidental steering slippage.



Combination Switch

Turn signal and headlight switches are combined as in passenger car.



Electric Shift Lever

Forward / neutral / reverse shift operation is easy with the touch of a finger.



Suspension Seat with Hip Support Function

Sliding and reclining mechanism to improve comfort and reduce fatigue.



Foot Operated Inching Pedal

Wide foot space and better foot pedal position for precise control.



New Transmission

Forward 2-speed / Reverse 1-speed automatic transmission.

POWER LINE FULL- FLOATING DESIGN

The entire power train, from engine to transmission is secured to the frame by rubber mounts. These specially designed mounts absorb vibration, and make for quieter, smoother forklift truck operation.

AUTOMATICALLY "SAFE" ONCE YOU LEAVE THE SEAT

To avoid the risk of accidents, Mitsubishi Forklift Trucks' unique vehicle Integrated Presence System "IPS2" has been incorporated into all FD/FG40N-55N series models. The system automatically disengages and locks forklift operation when operator leaves the seat. Such a system helps to ensure safety and prevent accidents to operators, colleagues and customers alike at the workplace.





INTEGRATED MONITOR

Digital display allows excellent vision, from travel speed, gross load and other operating conditions. The monitor easily shows engine and forklift truck operations at a glance.





PARKING BRAKE AT THE SEAT-CONNECTED INTERLOCK

Another safety improvement to the N-Generation series of forklift trucks is the integral interlock system. Once an operator leaves the seat, not only the mast and travel functions are locked, but the parking brake is engaged as well.

* Truck speed less than 1km/hr

SAFETY SYSTEMS TO AVOID OPERATION ERROR

The fork on the forklift truck is automatically locked when the ignition is switched off, so it remains in position even if the lift lever is accidentally bumped or moved. A Neutral Safety lock is also installed to prevent the machine from sudden travel if the engine is accidentally started while in gear.

OPERATOR LEFT THE SEAT MAST LOCK TRAVEL RRAKE **IGNITION IS SWITCHED OFF**



Prevents sudden



HIGH-MOUNTED REAR COMBINATION LAMP

This rear combination lamp that provides clear brake, reverse and turn signals to vehicles or persons behind the forklift truck.

SOFT LANDING

This unique feature automatically slows down the forks when approaching the ground, protecting valuable goods from hard drops or shocks.

* Only for two-stage simplex masts.



MANGE

MITSUBISHI FORKLIFT TRUCKS ASSURES OWNERS OF EASY MAINTENANCE AND A LOW RUNNING COST

Longer service intervals mean that a vehicle can be used more often, saving valuable time and money. Operators and owners will find the N-Generation series of forklift trucks easy to maintain and manage.

WELL-PLACED MAINTENANCE POINTS

The N-Generation series forklift trucks have an engine cover that opens fully along with easy-to-remove side panels. The maintenance points are easy to access and they are strategically placed to allow quick inspection or maintenance.

EASY MAINTENANCE AROUND RADIATOR

An easy to open half-split cover makes radiator inspection and maintenance a snap.

IMPROVED BRAKE DESIGN

A newly designed, easy-maintenance braking system that does not require hub and drum removal is installed as standard equipment. The work, time and cost required for service are substantially reduced when compared to previous models.

SIGNIFICANT EXTENSION IN SERVICE INTERVAL

Service intervals for the changing of engine oil has been more than doubled from 200 hours to 500 hours.





Conventional vehicle

200 hours
500 hours

FD/FG40N-55N series

* Depends on diesel fuel sulphur content.

MITSUBISHI FORKLIFT TRUCKS ARE HIGHLY CUSTOMIZABLE TO SUIT JUST ABOUT ANY APPLICATION AND WORKPLACE ENVIRONMENT

The FD/FG40N-55N series forklift trucks' unsurpassed performance is ideal for many industries where quality, dependability and heavy duty tasking is involved. Mitsubishi Forklift Trucks offers a line-up of attachments and options to suit just about any need.



FORKLIFT TRUCK FOR THE PAPER INDUSTRY

Capable of handling paper rolls effectively. Capable of handling small- diameter paper roll with a movable short arm. Improved contact pads provides better grips on rolls. Capable of handling two rolls of paper with different diameters (Special Request Option).

- Attachment installed: Roll Clamp
- Mast installed: Heavy Duty Mast
- Recommended option: Hydraulic Oil Cooler



FORKLIFT TRUCK FOR THE RECYCLED PAPER INDUSTRY

Excellent insert clamp-arm to grip paper bales safely and securely. Wide view between clamp cylinders.

- · Attachment installed: Bale Clamp
- Recommended option: Hydraulic Oil Cooler / Semi-under Net Kit



FORKLIFT TRUCK FOR THE TIMBER INDUSTRY

This forklift truck has a hinged fork and back rest to scoop and carry logs and sawn timber.

- Standard: Panoramic Hinged Fork (fixed type back rest)
- Recommended option: Air Intake Pre-Cleaner / Front Windshield
 / Dust Proof Net for Radiator



FORKLIFT TRUCK FOR THE QUARRY INDUSTRY

This forklift truck has a hinged fork and fixed back rest that can move and carry stone without damage. It provides excellent handling and grip, even in bad road conditions.

- Standard: Panoramic Hinged Fork (fixed back rest)
- Recommended option: Air Intake Pre-Cleaner / Front Windshield
 / Dust Proof Net for Radiator



FORKLIFT TRUCK FOR THE MARINE / PORT INDUSTRY

This forklift truck is designed to work in confined spaces such as inside vessels or containers. The three-stage full free mast has a wide front view, and it can be used for high shelves loading — making full use of cargo space.

- Standard: Wide view Three-stage Full Free Mast
- Recommended options: Diesel Particulate Filter / Front Windshield

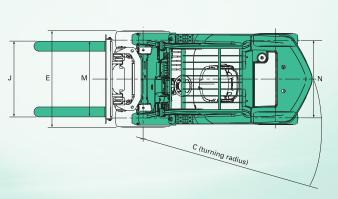


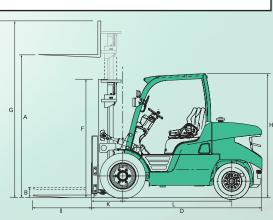


SPECIFICATIONS

	ARACTERISTICS										
	Type of Truck									<u>NGINE TRU</u>	
	Model						40N		-D45N		
	Loading Capacity					3500	4000	4000	4500	45	
_	Load Center			mm		600	500	600	500	6	
	RFORMANCE Maximum Fork Height			mm	Α				2250		
	Free Fork Height						3350 150				
۱	Tree Fork freight	Lifting Loaded			В		550				
٦	Speeds	29	Unloaded	mm/s mm/s			610				
1	Speeds	Lowering	Loaded	mm/s							
		, and the second	Unloaded	mm/s							
Q	Tilt	Mast	Forward	deg							
٥	1110		Backward	deg							
9	Speeds	Travelling	Loaded		km/h 21.5						
	•		Unloaded	km/h				22.0			
0	Maximum Drawbar Pull	stationary on slope	Loaded	N		37	500	36500			
1	Drawbar Pull	at 1.6km/h	Loaded	N o/		44.0		7000	07.4	-	
1	Maximum Gradeability	stationary on slope	Loaded	%		44.9	42.5	39.4	37.4	35	
,	Gradeability Turning Radius	at 1.6km/h	Loaded	%	-	31.1	29.1 80	28.0	26.4 2730	25	
2	Practical Intersecting Aisle Width	Single	with 1220mm forks	mm	C		320 320		2730 2395		
	Practical Intersecting Alsie Width Practical Aisle for Right Angle Sta		with 1220mm forks	mm mm			370		4530		
_	MENSIONS	oning	VVILIT 1220HIIII 101KS	111111		40	.,,,		7000		
									04.00		
5	Overall Length to fork Face	<u> </u>		mm	D		000		3130		
۱	NA /: - 4 -	with Standard Tires		mm	Е	14	15				
ь	Width	with Normal Duals (Optional)		mm							
_		with Special Duals (Optional)		mm	-			200			
٦	Height	with Lowered Mast		mm	F		2	320	4570		
'	Heigilt	with Extended Mast (with backrest) to top of Overhead Guard		mm	G H				4570		
ρ	To top of Overnead Guard B Forks (Thickness x Width x Length)			mm mm	п			E0-1	150x1220		
	Forks (Inickness x Width x Length) Forks Spread (Out-to-Out Minimum		mm	J			SUX	IJUXIZZU			
20	Front Overhang (Center of Front Ax	le to Fork Face)	mm	K			577				
	Wheelbase	ac to FUIN FUCE!	mm	L	19	50			2000		
		Front, standard tires		mm	М	10		1		2000	
22	Tread Width	Front, Normal duals (Optional)		mm							
		Front, special duals (Opt	mm								
		Rear tires		mm	N						
23	Ground Clearance	at Lowest point outer mast		mm							
		at Center of Wheelbase	mm								
	Tire Size	Size Front, standard			8.25-1	5-14PR					
24		Size Front, Normal dual (Optional)							7.50-16-12PR		
		Size Front, special dual (Optional)									
		Rear tires							7.00-12-12PR		
NE	IGHT										
	NA 1: 10/11/	Powershift (standard) Tires		kg			20		6330		
25	Machine Weight	Powershift (optional dual) Tires		kg			150		6420		
		Powershift (special dual	Tires	kg		61	20		6490		
R	AKE										
26	Service Brake Type										
	Parking Brake Type										
	WERTRAIN										
		Model								S6S	
		Max: Rated Power / rpm to DIN 70020		LAM /							
				kW / rpm					5.	7.5 / 2300	
8	Engine	Max. Rated Torque / rpm to DIN 70020 Displacement		Nm / rpm					2	60 / 1700	
				iviii / rpin						60 / 1700	
				СС						4996	
		Fuel Tank Capacity				3	37				
29	Transmission	Туре									
	Number of Speed	Forward									
		Backward									
_	Relief of Pressure	For Attachments		Mpa							

	GASOLINE ENGINE TRUCK											
FD50CN FD50N FD55N				340N	FG4!		FG50		FG50N	FG55N		
5000 500	5000	5500 00	3500 600	4000 500	4000 600	4500 500	4500 600	5000 500	5000	00		
111				- 333	300		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	330	60			335 15				33	60		
	470)U		į	570	J		49	160 490			
530					600				520			
		50 50										
		6										
21.0	21.0						22.0					
			22.5							21.5		
37000 26500 26000			38500 28000				37500 27500 27000					
33.9	32.3	30.1	45.8	43.3	40.2	38.1	36.2	34.6	33.0	30.7		
23.8	22.6	20.8	32.0	30.1	28.9	27.2	25.9	24.5	23.3	21.5		
2760	2890	2940	2	2580	273		276	0	2890 2470	2940		
2415 4560	2470 4710	2495 4760	2320 4370		239	2395 4530		2415 4560		2495 4760		
4300	4710	4700	4	1070	400	0	1 430	10	4710	4700		
3170	3310 3360			3000		0	317		3310	3360		
1460		17		1415	1460							
		17 19										
2	2400			2320					2400			
	45		50		4570				4590			
	2250 60x150x1220				50x150x1220					60x150x1220		
	300-1190			0					602			
582	82 602 2150			850	577	20	58 000	582				
		11	75									
		13 14										
		11										
		15	50									
300-15-18PR		22		15-14PR			300-15-	.10DR				
N/A			7.50-16-12PR					N/A				
8.25-15			5-12PR							7.00.40.4400		
		7.00-12-14PR				7.00-12-12PR				7.00-12-14PR		
6850	7300	7640	5	5860	627	0	678	30	7240	7570		
6930	7390	7720		980	635	50	687	70	7320	7660		
7000	7460	7790	b	6060	643	3U	694	łU	7400	7730		
		Hydr	aulic									
		Hydr	aulic									
						CI	/AE					
	GK45 (GAS) 63.9 / 2450											
						(LPG) 72	2.1 / 2450					
							65 / 1600 88 / 1600					
							152					
105		ATM /TODOU	87 105 E CONVERTER)									
		ATMI (TURUU		11.7								
		1										
		19	.1									







Like any product bearing the "MITSUBISHI" name our materials handling equipment benefits from the tremendous heritage, huge resources and cutting-edge technology of one of the world's largest corporations – Mitsubishi Heavy Industries Group.

Engineering spacecraft, jet planes, power plants and more, MHI specialises in those technologies where performance, dependability and superiority decide your success or failure...

So when we promise you quality, reliability and value for money, you know it's a guarantee we have the power to deliver.

That's why every model in our award-winning and comprehensive range of lift trucks and warehouse equipment is built to a high specification – to ensure it keeps working for you. Day after day. Year after year. Whatever the job. Whatever the conditions.

YOU'LL NEVER WORK ALONE

As your local authorised dealer, we are here to keep your trucks working – through our extensive experience, our technical excellence and our commitment to customer care.

We are your local experts, backed by efficient channels to the entire organisation of Mitsubishi Forklift Trucks.

No matter where you are, we are close by – with the capability to meet your needs.

Discover how Mitsubishi Forklift Trucks give you more from your local authorised dealer or when you visit our website www.mitforklift.com.sg

Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your distributor of Mitsubishi forklift trucks. We follow a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

© 2020 by MLAP. All Rights Reserved. All registered trademarks are the property of their respective owners. Printed in Singapore.

FMIT0146-01 (06/2020)











