



*Ready to Perform
To Your Applications*



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PRESENTED BY:



GRENDIA LX

Diesel Counterbalanced Trucks

10.0 – 16.0 ton

Note: 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 Mitsubishi forklift truck dealers. Mitsubishi Forklift Trucks follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

TECHNOLOGY WITH THE POWER TO DELIVER

Mitsubishi FD100N1-160AN1 Series Forklift Trucks



Model: FD150AN1

* Picture above is for illustration purpose only.
Please contact your local dealers for more information.

Available in 5 different models with capacities ranging from 10 to 16 tons, Mitsubishi heavy duty diesel counterbalance forklift trucks are built to deliver robust, energy efficient and powerful performance to satisfy your application needs.

FD100N1-160AN1 series forklift trucks provides high level drivers' comfort, smooth lifting and an excellent all round visibility. It is a dynamic truck that combines both revolutionary cutting edge technology with excellent engineering back up, and modernized outlook to optimize your productivity.

OPTIMAL FEATURES FOR YOUR OPERATORS' COMFORT

INTEGRATED PRESENCE SYSTEM – "IPS"

Grendia LX 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.



MORE COMFORT FOR MORE EFFICIENCY:

The **FD100N1-FD160AN1** series is built for added operator comfort. Standard design features such as rubber mounted major components, a fully-insulated steel engine hood, helical transmission gears and fully-enclosed wheel wells all work together to create a smooth driving experience.



COMFORTABLE RIDE:

The full-suspension standard vinyl seat provides day-long comfort to operators of various heights.

- Forward and backward adjustment up to **165mm**
- Suspension adjustment offers seat support for the operator
- Lower back lumbar adjustment
- Fold down pin allows for easy access to the engine compartment during daily checks and maintenance
- An optional premium cloth seat is also available for operators working long shifts or on rough surfaces

PREMIUM DISPLAY PANEL:

The LED and LCD display panel provides important indicator lights and information to the operator. These indicators help keep the operator informed about the current status of the forklift, whether it's as simple as the amount of fuel in the truck or something more complex such as an issue with oil pressure or fluid temperatures.



FLEXIBLE CAB OPTIONS TO MEET YOUR NEEDS:

For harsh or demanding outdoor applications, optional cab packages can be added to your forklift for further protection.

Features	Option 1:	Option 2:	Option 3:
Front windshield	●	●	●
Roof	●	●	●
Back windshield		●	●
Heater		○	●
Steel doors			●
Air Conditioner			○

● = standard ○ = optional

EXPECT PERFORMANCE

POWERFUL LOW-EMISSIONS ENGINE FOR MAXIMUM PRODUCTIVITY

The FD100N1-160AN1 series delivers the power and performance that tough applications demand.

Enhanced Performance — For More Value:

Mitsubishi Forklift Trucks developed this forklift series to deliver everything you need to tackle tough jobs every day – and at an exceptional value. From a durable design to a fuel-efficient and high-performance engine, these forklifts are ready to work when you are.



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BENEFITS TO YOUR BUSINESS:

1. Excellent Fuel Efficiency:

The high-performance Perkins™ 1204E 4.4L, in-line, four-cylinder engine was engineered for low fuel consumption. This engine is able to provide the productivity you'd expect using a fraction of the fuel, and ultimately, a fraction of the operating cost.

2. High Performance:

When you need power, you need it now. This truck's engine features powerfully synchronized dual turbochargers that provide low-speed torque – allowing for controlled, powerful acceleration for maximum productivity.

3. Durable Frame:

Tough applications require durable equipment. These forklifts consist of steel frames for added strength and durability:

- More steel in the frame for added resilience
- Rugged design helps minimize stress points in the frame



Key applications:

- Lumber
- Concrete and stone
- Fabricated metals
- Industrial machinery
- Building materials
- Steel and pipe

4. Engine Protection:

Controlled by the Engine Control Module, the Engine Protection System keeps the truck running at desirable levels while helping to reduce the risk of damage to the forklift, saving you money. If vital fluids become critically low, or fluid temperatures are too high, RPM levels are automatically lowered and the operator is notified by a light on the dash display.



5. Maintenance Made Simple:

Simplified maintenance means less downtime and more time on the job. Whether it's scheduled maintenance or a daily inspection, this forklift series makes it easier to get back to work.

- Easy-to-remove floor panel and steel side covers; no tools required
- Greater uptime and lower planned maintenance costs
- Easy access to all major components
- Less time consuming daily inspections
- Extended 500-hour service intervals



6. Fuel Saver Mode (optional):

By using an in-dash toggle switch, this option allows the operator to easily switch from "power" to "soft" mode – decreasing the acceleration curve of the forklift. Without impacting top travel speed, "soft" mode provides up to 14% greater fuel efficiency during operation. Because of the softer acceleration, this option can also help reduce the chance of premature tire wear.



SPECIFICATIONS

Characteristics				DIESEL ENGINE TRUCK					
1	Type of Truck								
2	Model			FD100N1	FD120N1	FD135N1	FD150AN1	FD160AN1	
3	Loading Capacity		kg	10000	12000	13500	15000	16000	
4	Load Center		mm	600					
Performance									
5	Maximum Fork Height		mm	A	3000	3000	3000	3000	
6	Free Fork Height		mm	B	72	79	88	88	
7	Speeds	Lifting	Loaded	mm/s	410	410	340	340	320
			Unloaded	mm/s	440	440	370	370	340
		Lowering	Loaded	mm/s	450	450	450	450	410
			Unloaded	mm/s	470	470	480	480	440
8	Tilt	Mast	Forward	deg	15	15	15	15	15
			Backward	deg	12	12	12	12	12
9	Speeds	Traveling	Loaded	km/h	26.5	25	25.5	25	24.5
			Unloaded	km/h	31	31	32	32	31.5
10	Maximum Drawbar Pull	Stationary on slope	Loaded	kN	107	121	110	110	109
			Drawbar Pull at 1.6km/h	Loaded	kN	100	100	92	92
11	Maximum Gradeability	Stationary on slope	Loaded	%	42.1	42.2	38.9	36.2	33.4
			Gradeability at 1.6km/h	Loaded	%	42.1	39.3	31.8	29.6
12	Turning Radius		mm	C	4000	4060	4160	4550	4815
13	Practical Intersecting Aisle Width		mm		3510	3545	3645	3825	3940
Dimensions									
14	Overall Length to Fork Face		mm	D	4310	4390	4535	4840	5055
15	Width	with Standard Tires	mm	E	2515	2515	2605	2605	2635
		with Lowered Mast	mm	F	3087	3087	3332	3330	3530
16	Height	with Extended Mast (with backrest)	mm	G	4486	4486	4927	4927	4927
		to top of Overhead Guard	mm	H	3015	3020	3060	3060	3060
			mm						
17	Forks (Thickness x Width x Length)		mm		72x180x1220	79x180x1220	88x180x1220	88x180x1220	92x180x1220
18	Forks Spread (Out-to-Out Minimum / Maximum)		mm		475-2010	475-2010	475-2010	475-2260	475-2260
19	Front Overhang (Centre of Front Axle to Fork Face)		mm	K	770	780	800	805	820
20	Wheelbase		mm	L	2800	2800	2800	3100	3300
21	Tread Width	Front, Standard Tires	mm	M	1900	1900	1905	1905	1905
		Rear, Tires	mm	N	1965	1965	1925	1925	1890
22	Ground Clearance	at Lowest point mast	mm		260	260	305	300	300
		at Center of Wheelbase	mm		310	310	355	355	355
23	Tire Size	Front	mm		10.00-20-14PR	10.00-20-16PR	12.00-20-18PR	12.00-20-18PR	12.00-20-20PR
		Rear	mm		10.00-20-14PR	10.00-20-16PR	12.00-20-18PR	12.00-20-18PR	12.00-20-20PR
Weight									
24	Machine Weight		kg		14610	15860	17480	18050	18940
Brake									
25	Service Brake Type				Air Hydraulic Composite				
26	Parking Brake Type				Mechanical				
Power Train									
27	Engine	Model			Perkins 1204E				
		Max. Rated Power/rpm to DIN70020	kW/rpm		129/2200				
		Max. Rated Torque/rpm to DIN70020	Nm/rpm		750/1400				
		Displacement	cc		4400				
		Fuel Tank Capacity	L		180	180	180	220	246
28	Transmission	Type			Powershift				
		Forward			3 speed				
		Backward			3 speed				
29	Relief of Pressure	For Attachments	Mpa		20.6				

