

NISSAN
FORKLIFT

1F Series

Pneumatic Tire / Engine-powered Models **1.5–3.5 ton**



The Reliability to Keep You Going

In the new 1F Series, Nissan brought together the experience of more than 50 years of building superior forklifts and its vast automotive technologies and know-how. The result is superior reliability, productivity and environmental friendliness, matched with lower costs throughout the life of the truck.

To meet its three key objectives—meeting environmental, operator and owner needs—new Nissan super-low-emission engines, drivetrains and other technologies have been used. The offspring of a proud lineage, the 1F Series gives you the reliability to keep on going.





Key Objectives:

For the Environment

Low Emission and Low Noise

For Operators

Safety, Comfort and Ease of Operation

For Owners

Reduced Total Lifecycle Cost

Objective 1: For the **Environment**

Low Emission and Low Noise

The 1F Series brings together improved environmental protection and a more comfortable working environment. Nissan's industry-leading engine technologies have been applied to provide both high performance and super-low emission levels. The Series features the completely new Nissan QD32 diesel engine, advanced ECCS gasoline and LPG engines in a low-noise design.

Improved Working Environment

Ultra-low Noise Levels



The 1F Series is designed to provide significantly lower noise levels, which helps reduce operator fatigue and allows the operator to better hear the surrounding environment.

Soft Landing System*



Even if the operator continuously holds the control lever down, the soft landing function will help ensure that the forks smoothly decelerate just before reaching the ground. The system also prevents clatter as the fork descends.

*Available only for the 2W mast





Diesel Engine



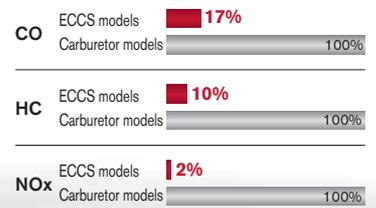
The new QD32 diesel engine meets the EU Stage IIIA, and is in compliance with US EPA Tier III regulations. It's based on engines proven through use over millions of miles in Nissan Commercial Vehicles. In addition, the Quick Glow System provides greatly improved starting in cold weather.



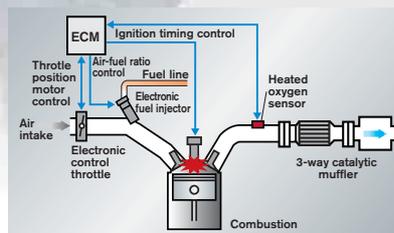
Gasoline and LPG Engines



The ECCS engines represent a further evolution of world-leading clean emission performance, with greatly reduced CO, HC and NOx emissions compared to carburetor models.



ECCS and 3-way Catalytic Muffler



This design includes an automotive-type closed-loop feedback system. Once combustion occurs, a sensor measures oxygen concentration in the exhaust gases before they enter the 3-way catalyst, then sends a signal to the ECM. Based on this signal, the ECM makes the proper air/fuel ratio adjustments, resulting in extremely low emission levels.

*ECCS: Electronic Concentrated Control System
*ECM: Engine Control Module

Objective 2: For Operators

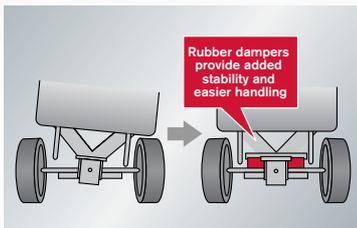
Safety, Comfort and Ease of Operation

Safety and Comfort

The Nissan-exclusive Swaying Control System helps provide greater control and stability when turning the forklift. It's part of a full range of safety equipment and features that help make for safer operations. The low-noise, low-vibration design provides a much more comfortable operating environment —and reduced operator fatigue means the operator can concentrate on the job at hand.

Superior Stability

Swaying Control System



The Nissan-exclusive Swaying Control System*, which provides confident driving control when turning the forklift, is standard equipment.

* The Swaying Control System does not completely eliminate the possibility of the forklift tipping over.

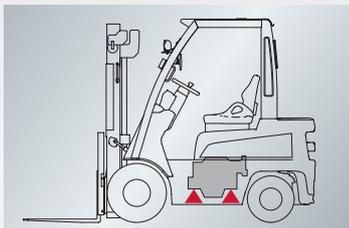
Low Center of Gravity Design



Designed for a low center of gravity, the 1F Series provides excellent stability during operation. For difficult working conditions, this can be further enhanced with the use of double tires.

Low-noise, Low-vibration Design for More Comfortable Operations

Powertrain Float Reduces Vibrations



An automobile-style floating powertrain and rigid frame and chassis reduce the transmission of vibrations to the operator, making longer, more comfortable hours of operation possible.

Speed Selector (Option)



Select maximum speed settings based on operator skill level, or the truck operation characteristics of your operations. Gasoline/LPG ECCS models only.





Safety Features

Three seat-actuated safety features have been provided as standard equipment.

* Please note that there is a three-second delay after the operator leaves the seat before these features are activated.

Mast Lock System



The Mast Lock System, standard on all models, automatically locks all lifting and tilting functions when the operator leaves the seat.

Parking Brake Warning Buzzer



An automobile-style parking brake adds to convenience and safety, with a warning buzzer sounding when the operator leaves the seat without setting the parking brake.

Automatic Transmission Power Cut-off System



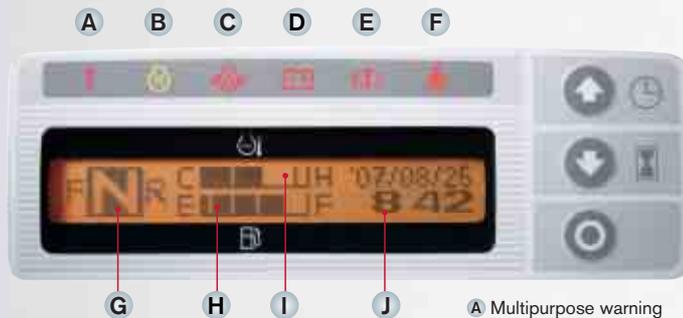
When the operator leaves the seat or is not seated properly and the shift lever is not in the neutral position, transmission is automatically shifted to neutral, cutting off power from the engine.

Objective 2: For Operators

Safety, Comfort and Ease of Operation

Smart, Easy-operating Controls

The 1F Series is designed to provide a simply better and more productive place to work. The new Multifunctional LCD Meter, spacious operator compartment, standard full suspension seat, smart control layout and responsive handling, all combine to provide operators with a surprisingly comfortable way to get through every workday.



1 Multifunctional LCD Meter

The large, easy-to-see Multifunctional LCD Meter lets the operator check on all aspects of operational status at a glance. The many functions such as the Self-diagnosis System, PIN Access and Service Reminder System ease truck operation and maintenance.

- A Multipurpose warning
- B Glow plug indicator (diesel)
Check engine warning (gasoline/LPG)
- C Oil pressure warning
- D Charge warning
- E Brake warning
- F Seatbelt warning
- G Directional indicator
- H Fuel gauge
- I Water temperature gauge
- J Multifunction display (hour meter, clock/calendar, speedometer, service reminder, warning indicators, error codes)

Speedometer



The Multifunctional LCD Meter includes an easy-to-read speedometer; travel speed is displayed whenever the forklift is moving at 4 kph or higher.





② Small-diameter Steering Wheel with Tilt Adjustment



The easy-handling steering wheel with tilt adjustment helps to provide the ideal operating position.

③ Simple, Small-stroke F/R Lever



The forward-reverse lever swings through a smaller arc than previous models, meaning less effort and less total time spent on this basic, often-performed function.

④ Automobile-style Light/Turn-signal Lever



The 1F Series features the thoughtful use of an automobile-style light and turn-signal lever, with simple actions that let the operator focus on the job.

⑤ Single Control Lever (Option)



Nissan's original Single Control Lever allows for simultaneous lifting and tilting operations, for greater productivity (double control levers are also available).

⑥ Super Wide-view Mast with Outer Chain



Outer chains and an extra-wide opening between the inner masts give the operator superior forward visibility, enhancing the efficiency of operations.

⑦ Restraint Seat with Suspension



This special seat, standard on all models, helps provide a secure, comfortable control center for the operator, with ample suspension and hip-support grips.

⑧ Wide-open Foot Space and Automobile-style Pedal Layout



A comfortable pedal angle, automobile-style pedals and a wide area free from obstructions below the seat provide more ergonomic operation.

⑨ Easy Entry and Exit



A low floor height makes it easier to step into and out of the forklift, made even more secure with a non-skid steel step.

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Objective 3: For Owners

Reduced Total Lifecycle Cost

High Productivity and Low Fuel Consumption

The purchase price is not the true cost of the forklift: throughout the lifetime of the truck it will require fuel, maintenance and labor costs. In the 1F Series, Nissan very carefully considered the total lifecycle cost of a forklift—and answered this with effective solutions for reduced cost and superior productivity.

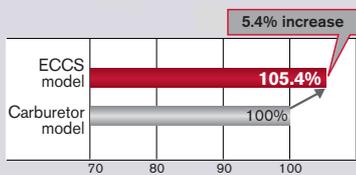
These begin with improved ECCS gasoline/LPG engines and the new Nissan QD32 diesel engine, which provide higher performance and reduced fuel consumption. They continue with a superior turning radius and smart, easy-operating controls and a range of available options to give operators better, more efficient control and provide higher productivity.

Minimum turning radius
2,230 millimeters*

*2.5 ton model

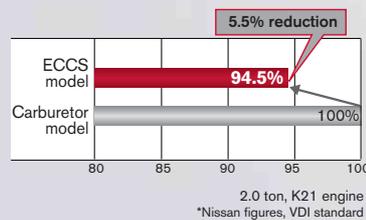
ECCS engine provides both high productivity and low fuel consumption

High Productivity



Based on the number of cycles per hour, the ECCS engine in the 1F Series gets more work done, boosting productivity.

Low Fuel Consumption



The ECCS engine model provides a 5.5% reduction in fuel consumption compared to the carburetor engine model.

Power/Eco Selector



Standard on the ECCS engine model, a quick press of the switch to ECO mode provides low noise, a 17% reduction in fuel consumption* and reduction of tire wear compared to POWER mode.

*Nissan figures

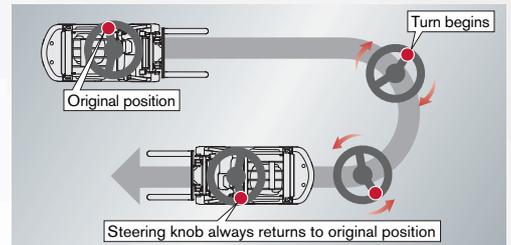


1,600 millimeters*

Steering Synchronizer (Option)



A sensor checks the steering and tire angle so the steering knob always returns to original position. This function helps ensure the accurate and consistent coordination of steering wheel and tires, for precise steering.



Tilt Leveling System (Option)



A simple press of a button on the mast control lever brings the forks automatically to the horizontal position—a great aid for new operators.



- 1 Lift and Lower
- 2 Tilt
- 3 Lever for Attachment
- 4 F/R Lever
- 5 Horn Switch
- 6 Emergency Stop

FINGERTIP Control Lever (Option)

The optional fingertip control system uses electro-hydraulic levers for control of travel direction, horn, tilt and lift operations with just a slight touch of the finger, providing greater ergonomics and productivity. Both single and double levers are available.

(Available on 2.0 and 2.5 ton models with 2W and 3F masts.)



Objective 3: For Owners

Reduced Total Lifecycle Cost

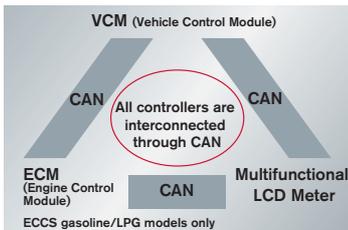
Making Maintenance Easy and Cost Effective

Maintenance is one of the major costs throughout the lifecycle of a forklift. A forklift with the reliability to operate with the lowest amount of downtime also helps to reduce cost over time.

The Self-diagnosis System and easy access for maintenance assure that the time required for maintenance and service is kept to a minimum. Renowned for its top-class reliability, Nissan has further enhanced this with new Nissan engines and drivetrains.

Easy Truck Management

VCM and CAN



The Vehicle Control Module (VCM) makes use of information provided by a number of sensors around the forklift, transmitted through the Controller Area Network (CAN), to provide a range of information and control functions. Durability of the VCM has also been increased through the use of waterproof connectors and enclosures meeting the IP65 standard for dust- and water-tightness.



Personal Identification No. (PIN) Access



This 4-digit PIN access system helps avoid unauthorized truck usage. It is also possible to record the actual operating performance of each operator.

Self-diagnosis System



The onboard diagnostic menu with integrated self-check and dialogue-type functions provides easy troubleshooting while reducing maintenance downtime.

Service Reminder System



When the Service Reminder System is activated by the dealer, a reminder indication is shown in the LCD at startup whenever a specified operating hour or day and date has been reached, reminding of the need for regular service.





Easy Maintenance

Wide-opening Engine Compartment



Access to the engine has never been easier, with a wide-opening hood that provides superior access for maintenance and inspection.

Easily-detached Floor and Side Panels



One-touch removal of the floorboard and side panels allows for quick service operations and reduced downtime—and no tools are required.

Strict Testing for Superior Quality



Nissan uses the same development process and testing system as for its automobile development, for superior quality and enhanced reliability.



Options and Attachments to Meet Varied Customer Needs

These are just a selection of the many options and attachments available for the 1F Series. For more information, please contact your local Authorized Nissan Dealer.



Smooth-run System

Two different types of accumulators absorb the shocks transmitted from the road surface making both load handling and travel smoother. This offers extra benefits when working with delicate loads on rough surfaces.



Rain Guard (Resin Type)

While offering good upward visibility, this durable rain-guard protects the operator in inclement weather.



LPG Swing-down Bracket

This ergonomically designed swing-down bracket greatly assists in the lifting and lowering of tanks. A new and improved design also provides better rearward visibility (available on all LPG-powered models).



Overhead Exhaust Muffler

This design directs exhaust fumes away from the operator area and minimizes ground debris from entering the engine compartment.



AirBoss® Tires*

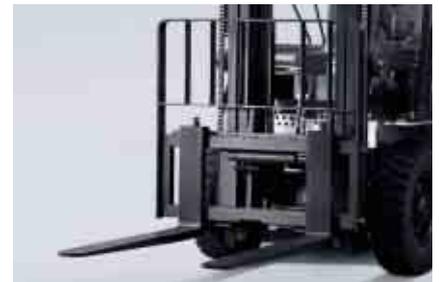
These hard-wearing, non-burst solid tires feature a three-layer construction and computer-calculated holes to provide a softer ride and better steering stability.

*AirBoss is a registered trade name of AirBoss of Australia.



Double Tires

Double tires are available for greater stability when lifting loads high.



Side Shift

This hook-on type side shifter provides right and left fork movement for accurate stacking.



Fork Positioner

A hook-type fork positioner, for accurate positioning of the forks with the load.



Hinged Fork

Securely holds and carries long loads such as lumber or steel pipes.



Rotating Fork

Full 360° rotation, for faster work and easier load discharge.

Other Available Attachments: Roll Clamp, Bale Clamp, Input Bucket (pointed/flat), Load Stabilizer (standard/short) Fork Clamp, etc.

Model	1F1A(M)15U/WU P1F1A15JU/DU P1F1A15U/WU F1F1A(M)15U	1F1A18U/WU P1F1A18JU/DU P1F1A18U/WU F1F1A18U	P1F2A20JU/DU P1F2A20U/WU U1F2A20JU/DU U1F2A(M)20U/WU Y1F2A(M)20U	P1F2A25JU/DU P1F2A25U/WU U1F2A25JU/DU U1F2A(M)25U/WU Y1F2A(M)25U	UG1F2A30JU/DU UG1F2A30U/WU YG1F2A(M)30U	UG1F2A35JU/DU UG1F2A35U/WU YG1F2A(M)35U
Engine Type	K15, K21, S4Q2	K15, K21, S4Q2	K21, K25, QD32	K21, K25, QD32	K25, QD32	K25, QD32
Load Capacity t	1.5	1.75	2.0	2.5	3.0	3.5
Load Center mm	500	500	500	500	500	500
Max. Fork Height (standard mast) mm	3000	3000	3000	3000	3000	3000
Overall Width mm	1065	1065	1150	1150	1250	1280
Overall Length (length to fork face) mm	2265	2300	2490	2555	2715	2780
Overall Height (overhead guard height) mm	2115	2115	2115	2115	2150	2155
Turning Radius (outside) mm	1950	1990	2145	2230	2330	2420

Engine

Model	Nissan K15	Nissan K21	Nissan K25	MHI S4Q2	Nissan QD32
Displacement cc	1486	2065	2488	2505	3153
Rated Output	ECCS kW/rpm	—	41/2700	36/2500	38/2000
	Carburetor kW/rpm	26/2450	34/2200		
Rated Torque	ECCS N-m/rpm	—	151/2000	149/2000	186/1800
	Carburetor N-m/rpm	109/2000	158/1600		

Option Availability

Standard Options

Item	Gasoline/LPG				Diesel
	ECCS Gasoline	ECCS Dual	Carburetor Gasoline	Carburetor Dual	
Truck management	VCM				
Powertrain	Power train floating				
	ECCS				
	Carburetor type				
	Speed Selector				
	Power / Eco Selector				
	Radiator screen				
	3-way catalytic muffler				
	Diesel Particulate Filter (DPF)				
LPG system * (Dual fuel)	Overhead exhaust muffler				
	Complete system				
	Swing-back bracket				
	Swing-open bracket				
Instruments	Swing-down bracket				
	Multifunctional LCD Meter				
Warning buzzer	Back-up buzzer				
	Parking brake warnig buzzer				
Light	Head lights (without guard)				
	Rear combination lamps				
	Rear working light				
	Rotating light (yellow)				
	J-lug tires (Textile)				
Tires	Solid tires				
	AirBoss tires **				
	Double tires				
Body	Rain guard (Vinyl type)				
	Rain guard (Resin type)				
	Canvas cabin		****	****	
	Rearview mirrors (both sides)				
	Windshield				
Seat	Restraint seat with suspension				
	Without seat				
Mast	2W mast				
	2F mast				
	3F mast				
	Without mast				
	Tilt cylinder cover				
	Tilt cylinder boot				
Steering system	Tilt Leveling System				
	Small-diameter steering wheel with tilt adjustment				
Hydraulic control system	Steering Synchronizer				
	2 spool valve				
	3 spool valve				
	4 spool valve				
	Single control lever				
	Double control lever				
	FINGERTIP control (single type) ***				
	FINGERTIP control (double type) ***				
	3 spool piping to carriage				
	4 spool piping to carriage				
Smooth-run System					



1F1 1.5 ton



1F2 2.5 ton



1F2 3.0 ton

* Swing-back type is standard ** AirBoss tire is registered by AirBoss of Australia
 *** Not available on 1.5 and 1.8 ton dual fuel models **** Available on 2.0 to 2.5 ton models with 2W and 3F masts

Nissan Full Lineup That Exceeds All Expectations



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