

NISSAN
FORKLIFT

Platinum Series

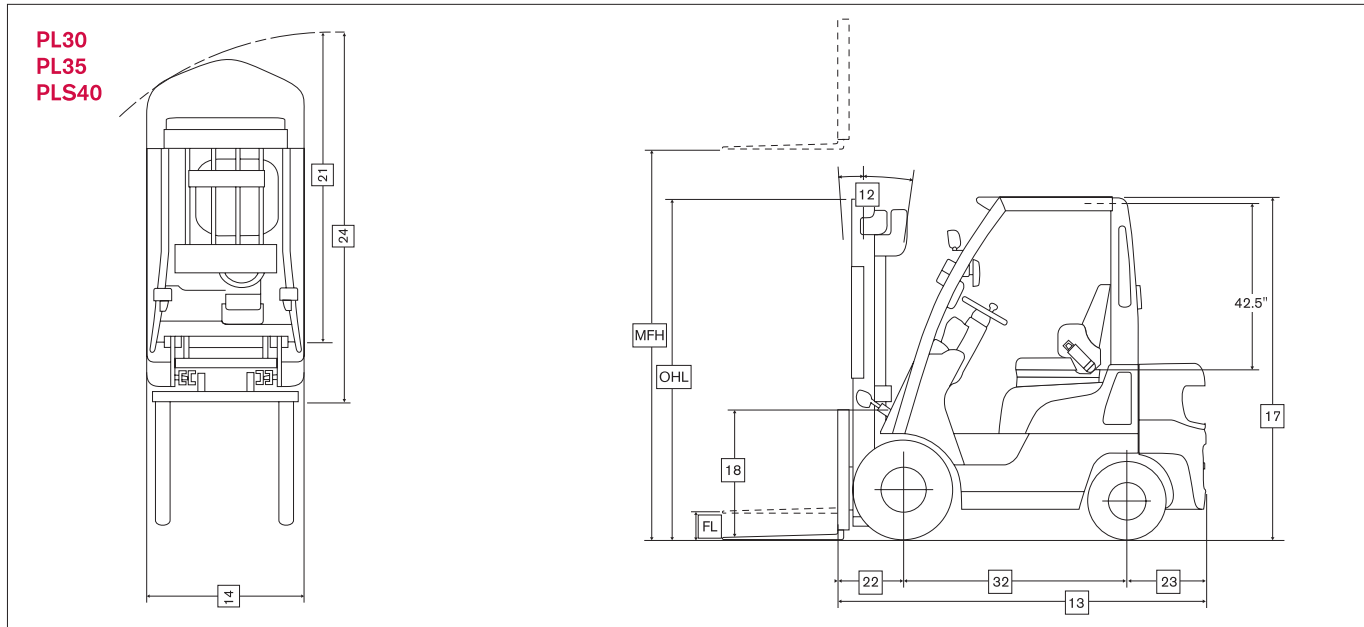
Pneumatic Tire / Engine Powered Models / LPG, Gasoline, Dual Fuel, Diesel

3,000 – 7,000 lb.
Capacities



Platinum pneumatic series

Dimensions



Mast Specifications & Rated Capacities

	Mast Name	Maximum Fork Height	Overall Height Lowered	Free Lift	Tilt Angle Forward/Backward	Rated Capacity at 24" Load Center		
						PL30	PL35	PLS40
TWO STAGE (Wide view 2W)	2W270	106	72.6	6.2	6/12	3000	3500	4000
	2W300	118	78.5	6.2	6/12	3000	3500	4000
	2W330	130	84.4	6.2	6/12	3000	3500	4000
	2W350	138	89.8	6.2	6/12	3000	3500	4000
	2W370	146	94.7	6.2	6/12	3000	3500	4000
	2W400	157	102.2	6.2	6/6	3000	3500	3850
	2W450	177	112.0	6.2	6/6	2900	3200	3450
	2W500	197	121.9	6.2	6/6	2650	3100	3200
TWO STAGE (Full free 2F)	2F300	118	78.5	53.6	6/10	3000	3500	4000
	2F330	130	84.4	59.5	6/10	3000	3500	4000
	2F350	138	89.8	64.8	6/10	3000	3500	4000
	2F370	146	94.7	69.8	6/10	3000	3400	3900
	2F400	157	102.2	77.2	6/6	2900	3300	3800
THREE STAGE (Full free 3F)	3F385	152	72.6	47.0	6/6	2900	3300	3850
	3F430	169	78.5	52.9	6/6	2800	3200	3550
	3F475	187	84.4	58.8	6/6	2700	3100	3450
	3F515	203	89.8	64.1	6/6	2600	2800	3150
	3F550	217	94.7	69.0	6/6	2350	2600	2700
	3F600	236	102.2	76.5	6/6	1300	1500	1800
	3F650	256	112.0	86.3	6/6	1200	1400	1700
	3F700	276	121.9	96.2	6/6	1100	1300	1600
THREE STAGE Optview (3V)	3V360	142	72.6	48.4	6/6	2900	3300	3700
	3V405	159	78.5	54.3	6/6	2800	3200	3550
	3V450	177	84.4	60.2	6/6	2700	3100	3450
	3V490	193	89.8	65.5	6/6	2600	2800	3150
	3V525	207	94.7	70.4	6/6	2350	2600	2700
	3V575	226	102.2	77.9	6/6	1300	1500	1800
	3V633	249	112	87.8	6/6	1200	1400	1700
	3V688	271	121.9	97.6	6/6	1100	1300	1600

3,000 / 3,500 / 4,000 lb. capacities

Main Truck Specifications

				Nissan	Nissan	Nissan		
CHARACTERISTICS	1	Manufacturer's Name		Nissan	Nissan	Nissan	1	
	2	Model	Model Designation	PL30	PL35	PLS40	2	
			Long Model Code	MPL01A15JV MPL01A15LV	MPL01A18JV MPL01A18LV	MPL01A20JV MPL01A20LV		
	3	Rated Load Capacity		lb (kg)	3000 (1500)	3500 (1750)	4000 (2000)	3
	4	Load Center	Distance	in (mm)	24 (500)	24 (500)	24 (500)	4
	5	Power Type			Gas - LPG	Gas - LPG	Gas - LPG	5
6	Operator Orientation			Sit	Sit	Sit	6	
DIMENSIONS	7	Tire Type	Front & rear		Pneumatic	Pneumatic	Pneumatic	7
	8	Wheels	Number (x=driven) front/rear		2 x / 2	2 x / 2	2 x / 2	8
	9	Mast	Maximum fork height	in (mm)	129.5 (3290)	129.5 (3290)	129.5 (3290)	9
			Standard freelif	in (mm)	5.5 (140)	5.5 (140)	5.5 (140)	10
	11	Forks	Thickness & width	in (mm)	1.5 x 4 (40x100)	1.5 x 4 (40x100)	1.5 x 4 (40x100)	11
			Length	in (mm)	42 (1070)	42 (1070)	42 (1070)	
	12	Tilt Angle	Standard mast - fwd/back	degree	6/12	6/12	6/12	12
	13	Overall Dimensions	Length (to face of forks)	in (mm)	89.0 (2260)	90.2 (2290)	91.3 (2320)	13
			Width (standard tires)	in (mm)	41.9 (1065)	41.9 (1065)	41.9 (1065)	14
			Mast lowered (OHL)	in (mm)	86 (2184)	86 (2184)	86 (2184)	15
			Mast extended with LBR	in (mm)	155.9 (3960)	155.9 (3960)	155.9 (3960)	16
			Height - top of OHG	in (mm)	83.3 (2115)	83.3 (2115)	83.3 (2115)	17
			Height - top of standard LBR	in (mm)	48 (1220)	48 (1220)	48 (1220)	18
			Width - standard carriage	in (mm)	36.2 (920)	36.2 (920)	36.2 (920)	19
	20	Grade Clearance	Ramp breakover angle	tan (%)	49	49	49	20
			Departure angle	tan (%)	39	37	35	
			Approach angle	tan (%)	37	37	37	
	21	Turning Radius	Minimum outside	in (mm)	76.2 (1935)	77.6 (1970)	79.1 (2010)	21
	22	Overhang	Front	in (mm)	15.7 (400)	15.7 (400)	15.7 (400)	22
			Rear	in (mm)	18.1 (460)	19.3 (490)	20.5 (520)	23
24	Min Right Angle Stack	Add load length & clearance	in (mm)	92.7 (2355)	93.4 (2372)	95 (2413)	24	
25	Speeds Maximum	Travel - forward or reverse	mph (kmh)	11.8 (19)	11.8 (19)	11.8 (19)	25	
		Lift - full/empty	fpm (mm/sec)	122/127.9 (620/650)	122/127.9 (620/650)	122/127.9 (620/650)	26	
		Lowering - full/empty	fpm (mm/sec)	98.4 (500)	98.4 (500)	98.4 (500)		
27	Drawbar Pull Max	LPG or Gasoline - full load	lb (kg)	3705 (1680)	3705 (1680)	3705 (1680)	27	
		LPG or Gasoline - empty	lb (kg)	2470 (1120)	2646 (1200)	2932 (1330)		
28	Gradeability Max (1.2 mph)	Gasoline - full/empty	tan (%)	38 / 28	45 / 24	41 / 21	28	
29	Truck Weight	Standard truck - no load	lb (kg)	5908 (2680)	6272 (2845)	6581 (2985)	29	
30	Weight Distribution	Front axle - empty	lb (kg)	2546 (1155)	2447 ((1110)	2315 (1050)	30	
		Rear axle - empty	lb (kg)	3362 (1525)	3825 (1735)	4266 (1935)		
		Front axle - with rated load	lb (kg)	7981 (3620)	8785 (3985)	9601 (4355)		
		Rear axle - with rated load	lb (kg)	1235 (560)	1345 (610)	1389 (630)		
31	Tire Size	Front	in	6.50-10-10PR	6.50-10-10PR	6.50-10 Solid	31	
		Rear	in	5.00-8-8-PR	5.00-8-8-PR	5.00-8 Solid		
32	Wheelbase		in (mm)	55.1(1400)	55.1(1400)	55.1(1400)	32	
33	Tread - Center of Tire	Front / rear	in (mm)	35/35.4 (890/900)	35/35.4 (890/900)	35/35.4 (890/900)	33	
		Front dual tires	in (mm)	43.1 (1095)	43.1 (1095)	43.1 (1095)		
	Headroom	SIP to bottom of OHG	in (mm)	42.5 (1080)	42.5 (1080)	42.5 (1080)		
	Counterweight Height		in (mm)	41.9 (1065)	41.9 (1065)	41.9 (1065)		
	Step Height		in (mm)	17.7 (450)	17.7 (450)	17.7 (450)		
34	Ground Clearance	Under mast	in (mm)	4.5 (115)	4.5 (115)	4.5 (115)	34	
		Under power unit	in (mm)	5.3 (135)	5.3 (135)	5.3 (135)		
		Under frame (WB center)	in (mm)	5.9 (150)	5.9 (150)	5.9 (150)		
35	Service Brake	Type		Drum and Shoe	Drum and Shoe	Drum and Shoe	35	
36	Parking Brake	Type		Hand	Hand	Hand	36	
37	Steering	Type		Full Hydraulic	Full Hydraulic	Full Hydraulic	37	
38	Engine	Manufacturer / Model		Nissan K21	Nissan K21	Nissan K21	38	
		Rated Output	SAE gross/JIS - LPG or Gas	hp/rpm (PS/rpm)	55/2700 (55.7/2700)	55/2700 (55.7/2700)	55/2700 (55.7/2700)	
		Rated Torque	SAE gross/JIS - LPG or Gas	ft-lb/rpm (kg-m/rpm)	119/1600 (16.4/1600)	119/1600 (16.4/1600)	119/1600 (16.4/1600)	
		Displacement		cu in (cm) ³	126 (2065)	126 (2065)	126 (2065)	
		39	Transmission	Type		Automatic	Automatic	Automatic
Number speeds - fwd/rev				1/1	1/1	1/1		

* Calculations not representative of maximum gradeability values.

Technical Information **pneumatic models**

With features designed to exceed expectations in the areas of performance, fuel efficiency, emissions regulations, operator comfort and low cost of ownership, the Platinum Series is the result of Nissan's relentless pursuit in achieving the perfect balance between the needs of the **Owner, Operator** and the **Environment**.

Electronic Fuel Injection Engine Technology

Available in LPG, Gasoline or Dual Fuel, Platinum Series models are powered by Nissan's own K21 (2.1 liter) and K25 (2.5 liter) industrial engines using electronic fuel injection. Its Electronic Concentrated Control System (ECCS) analyzes engine performance parameters and optimizes engine operation, resulting in enhanced productivity, resulting in lower fuel consumption. This system includes three main components: Engine Control Module (ECM), Vehicle Control Module (VCM) and Meter Panel.

The ECM responds to sensor input by controlling basic engine-related functions, such as proper air/fuel ratio, torque and speed, based on the requirements of the job. The VCM (also available on diesel models) monitors a number of sensors to alert the operator of changing conditions via a full range of warning indicators located on the truck's LCD meter panel display. All communication among these components occurs through a Controller Area Network (CAN) system.

Nissan's K-series engines use the same proven block design and bottom by-pass cooling system as its predecessor, the H-series engine. These enhanced engines are specifically designed and tested for industrial applications in order to deliver all the power and torque (in the low rpm range) to meet the needs of the application. An engine protection system controls the engine's speed and fuel delivery in the event of excessive heat generation as an added safeguard for your investment.

Low Emission Engines

Gasoline/LP-Gas/Dual Fuel

Nissan's global commitment to preserving and protecting the environment is evident in the Platinum Series' ECCS engines, providing exceptionally low emissions levels that are well below EPA Tier I requirements. Nissan is the first lift truck manufacturer to design an industrial engine to do so, setting us apart as the world leader in clean air engine technology. The K21 and K25's combination of ECCS and three-way catalytic system, which includes an automotive-type closed-loop design, provides enhanced fuel economy and the cleanest exhaust emissions in the industry.

Diesel

Diesel engines have never been cleaner than in the Platinum Series with black smoke nearly eliminated and fuel consumption improved. These engines meet all EPA Tier II specifications. (Not available on all models.)

Enhanced Work Environment

Several standard features are included in the Platinum Series to deliver a more comfortable and productive work environment for the operator and those in the surrounding area; including Nissan's cushioned stability control. This exclusive design incorporates a maintenance-free rubber dampener located between the rear axle and body to enhance lateral stability under normal driving conditions.

An optional ground speed control feature is available to maintain high or low maximum speed settings, while a controlled acceleration mode adjusts throttle sensitivity to enhance maneuverability in close quarters or when handling fragile loads. (These two features are available on ECCS models only.)

The Platinum's seat-actuated power interrupt system automatically locks lift and tilt operations when the operator leaves the seat. A return to neutral feature minimizes forklift movement if the operator

leaves the seat while still in gear. This system also includes an audible warning device if either the seat belt is not engaged while in travel mode, or when the parking brake has not been applied prior to the operator exiting the compartment.

Simple entry/exit is achieved due to a replaceable metal traction plate bolted to the truck's wide, low entry step. Combined with a handle welded to the overhead guard pillar, the operator has a sure, comfortable footing and grip for this often repeated task.

Nissan's own swing-down LP bracket design uses a gas spring assist resulting in nearly effortless swing-down motion in order to minimize back strain during tank replacement. This optional feature also incorporates an adjustable bracket to fit various tank sizes.

Ease of Maintenance

No tools are required to remove the one-piece diamond tread floor-board promoting fast, simple access to hydraulic components and grease fittings. Detachable side panels and a wide-open clamshell hood provide a roomy area for service technicians to perform their tasks. The five-piece reinforced overhead guard simplifies replacement of individual components if necessary, saving time and money. An opening in the dash panel allows for quick, easy brake fluid checks.

The Platinum's easi-view meter panel with multi-function LCD display simplifies diagnosis, keeping service time low. Its self-diagnostic display design provides excellent visibility and understanding of warning indicators including: seatbelt, brake, mast-lock, low oil pressure and neutral position indicator.

Operator Comfort and Control

A spacious operator compartment provides generous foot, leg and head room for a variety of driver sizes. A standard full suspension, fold down seat with soft touch arm pads and hip restraint provides maximum operator comfort and enhanced safety. Its low profile design offers ample head clearance, while front to back travel adjustment allows a comfortable, customized fit for nearly any operator height.

The Platinum's, tilt-adjustable steering wheel includes a memory lever, to help the operator quickly find his or her ideal driving position, while its compact design offers enhanced control and handling. Hydrostatic power steering minimizes steer effort and operator fatigue. Automotive-style light and turn signal levers simplify repetitive actions allowing the operator to focus on the job. Optional features designed to enhance load handling efficiency and boost operator productivity include Nissan's exclusive three-stage Optiview mast, providing 50% greater visibility. There's also an optional auto tilt leveling system to assist proper mast/fork positioning.

Enhanced operator comfort results from the Platinum Series' individual floating system. This system includes a full suspension seat, pedals mounted to the chassis frame, and rubber shock absorbers located throughout the vehicle to reduce vibration from the engine and transmission to the operator. For additional vibration reduction, Platinum Series' pneumatic trucks include an automotive-type powertrain mounting design, which incorporates four rubber engine supports.

The Platinum's new engine design offers extremely low noise levels at the operator's ear during idle and even at maximum travel speeds for added comfort.

Option Availability

Platinum Series Pneumatic Models

Standard S Option O

		Fuel Types			
		LP-Gas	Gasoline	Dual Fuel	Diesel
Vehicle Management	VCM - self diagnostic system	S	S	S	S
Powertrain	Electronic Concentrated Control System	S	S	S	-
	UL Safety rating	O	O	O	O
	Floating power train for reduced vibration	S	S	S	S
	Automatic return to neutral	S	S	S	S
	High/low speed & controlled accelerator selector	O	O	O	-
	Radiator screen	O	O	O	O
	Engine protection system	S	S	S	-
	Three-way catalytic converter	S	S	S	-
	Cushioned stability control	S	S	S	S
LP System	Swing-down LP bracket	O	-	O	-
	LP low fuel warning light	S	-	S	-
Brake	Parking brake with warning buzzer	S	S	S	S
Mast	Mast interlock system	S	S	S	S
	Optiview three-stage mast	O	O	O	O
Hydraulic System	Single lift/tilt control lever	S	S	S	S
	Separate lift & tilt control levers	O	O	O	O
	Auto tilt leveling system*	O	O	O	O
	Hydraulic load sensing valve system	S	S	S	S
Steering System	Tilt steering wheel with memory	S	S	S	S
	Hydrostatic power steering system	S	S	S	S
Operator Surroundings	Full suspension seat	S	S	S	S
	OHG-mounted headlights	S	S	S	S
	Rearview mirrors	O	O	O	O
	Rear combination drive light package	O	O	O	O
	Rear work light	O	O	O	O
	Strobe lights & rotating beacons	O	O	O	O
	Back-up warning buzzer	S	S	S	S

* Not available on 7000-lb. models using 2-stage masts.



3000-lb, 3500-lb, 4000-lb



4000-lb, 5000-lb, 5500-lb



6000-lb, 7000-lb

Nissan Forklift Corporation reserves the right to make product changes relating to colors, equipment, specifications or available options without notice. For more information, contact your Nissan Forklift representative.

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