

NISSAN
FORKLIFT

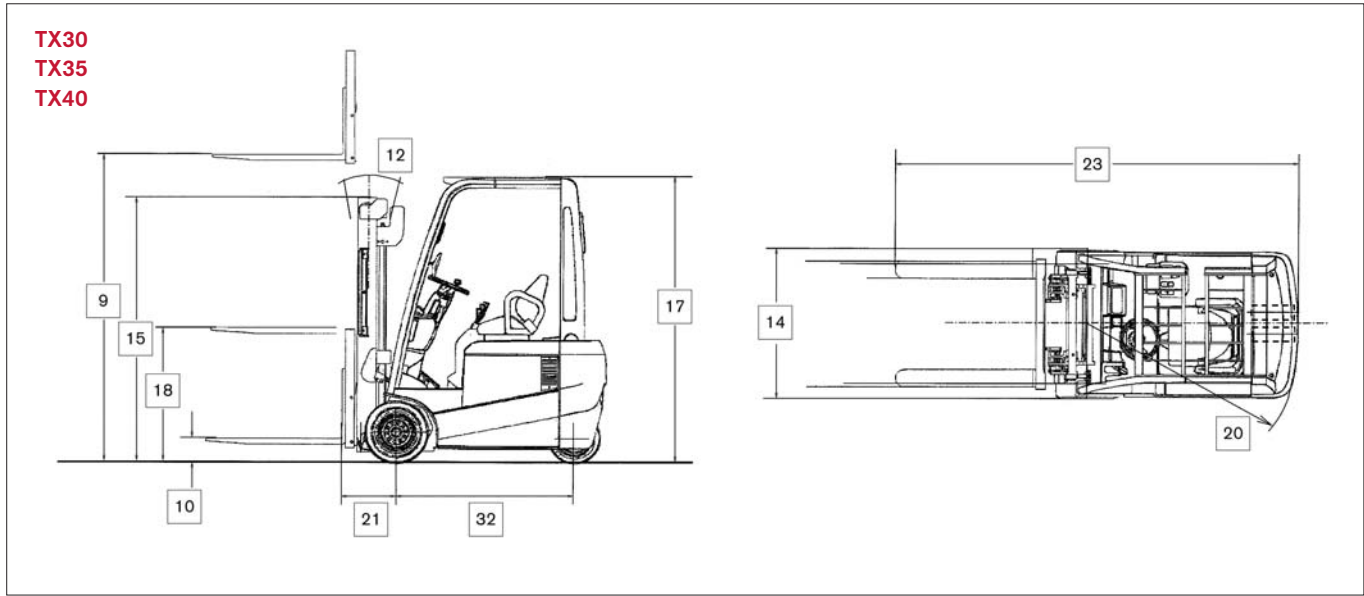
TX Platinum Series

Cushion Tire / 36 & 48 Volt Models / **3-Wheel AC-Powered Models**

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



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 | | |
|--------------------------------|-----------|---------------------|------------------------|-----------|-----------------------------|-----------------------------------|------|------|
| | | | | | | TX30 | TX35 | TX40 |
| TWO STAGE (Wide view) | 2W270 | 106 | 71.1 | 2.4 | 4/6 | 3000 | 3500 | 4000 |
| | 2W300 | 118 | 77.0 | 2.4 | 4/6 | 3000 | 3500 | 4000 |
| | 2W330 | 130 | 82.9 | 2.4 | 4/6 | 3000 | 3500 | 4000 |
| | 2W350 | 138 | 88.2 | 2.4 | 4/6 | 3000 | 3500 | 4000 |
| | 2W370 | 146 | 93.1 | 2.4 | 4/6 | 3000 | 3500 | 4000 |
| | 2W400 | 157 | 100.6 | 2.4 | 4/6 | 3000 | 3500 | 3900 |
| | 2W450 | 177 | 110.4 | 2.4 | 4/6 | 2900 | 3300 | 3700 |
| | 2W500 | 197 | 120.3 | 2.4 | 4/6 | 2800 | 3100 | 3600 |
| TWO STAGE (Full free) | 2F270 | 106 | 71.1 | 48.2 | 4/6 | 3000 | 3500 | 4000 |
| | 2F300 | 118 | 77.0 | 54.1 | 4/6 | 3000 | 3500 | 4000 |
| | 2F330 | 130 | 82.9 | 60.0 | 4/6 | 3000 | 3500 | 4000 |
| | 2F350 | 138 | 88.2 | 65.4 | 4/6 | 3000 | 3500 | 4000 |
| | 2F370 | 146 | 93.1 | 70.3 | 4/6 | 3000 | 3500 | 4000 |
| | 2F400 | 157 | 100.6 | 77.8 | 4/6 | 3000 | 3400 | 3900 |
| THREE STAGE (Full free) | 3F385 | 152 | 71.1 | 47.2 | 5/5 | 3000 | 3400 | 3800 |
| | 3F430 | 169 | 77.0 | 54.1 | 5/5 | 2900 | 3300 | 3700 |
| | 3F475 | 187 | 82.9 | 60.0 | 5/5 | 2800 | 3200 | 3600 |
| | 3F515 | 203 | 88.2 | 65.4 | 5/5 | 2700 | 3100 | 3500 |
| | 3F550 | 217 | 93.1 | 70.3 | 5/5 | 2600 | 2900 | 3400 |
| | 3F600 | 236 | 100.6 | 77.8 | 5/5 | 2300 | 2400 | 3300 |
| | 3F650 | 256 | 110.4 | 87.6 | 5/5 | 1900 | N/A | 3200 |
| | 3F700 | 276 | 120.3 | 97.4 | 5/5 | 1400 | N/A | 3000 |
| THREE STAGE Optiview | 3V360 | 142 | 71.1 | 49.6 | 5/5 | 2800 | 3000 | 3700 |
| | 3V405 | 159 | 77.0 | 55.5 | 5/5 | 2700 | 3000 | 3600 |
| | 3V450 | 177 | 82.9 | 61.4 | 5/5 | 2700 | 3000 | 3400 |
| | 3V490 | 193 | 88.2 | 66.7 | 5/5 | 2600 | 2900 | 3300 |
| | 3V525 | 207 | 93.1 | 75.6 | 5/5 | 2500 | 2800 | 3200 |
| | 3V575 | 226 | 100.6 | 79.1 | 5/5 | 2300 | 2400 | 3100 |
| | 3V633 | 249 | 110.4 | 89.0 | 5/5 | 1900 | N/A | 3000 |
| | 3V688 | 271 | 120.3 | 98.8 | 5/5 | 1400 | N/A | 2900 |

Free Lift: without backrest

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 | TX30 | TX35 | TX40 | 2 | |
| | | | Long model code | 1N1L15V | 1N1L18V | G1N1L20V | | |
| | 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 | Electric | | 36 / 48 Volt | 36 / 48 Volt | 36 / 48 Volt | 5 |
| 6 | Operator Orientation | | | Sit | Sit | Sit | 6 | |
| DIMENSIONS | 7 | Tire Type | Front & rear | Cushion | Cushion | Cushion | 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) | 118 (3000) | 118 (3000) | 118 (3000) | 9 |
| | | | Standard freelif | in (mm) | 2.4 (60) | 2.4 (60) | 2.4 (60) | 10 |
| | 11 | Forks | Thickness & width | in (mm) | 1.5 x 4 (40x100) | 1.5 x 4 (40x100) | 1.5 x 4 (40x100) | 11 |
| | | | Length (STD) | in (mm) | 42 (1070) | 42 (1070) | 42 (1070) | |
| | 12 | Tilt Angle | Standard mast - fwd/back | degree | 4 / 6 | 4 / 6 | 4 / 6 | 12 |
| | 13 | Overall Dimensions | Length (to face of forks) | in (mm) | 74.4 (1890) | 74.6 (1895) | 78.9 (2005) | 13 |
| | | | Width (standard tires) | in (mm) | 43.5 (1105) | 43.5 (1105) | 43.5 (1105) | 14 |
| | | | Mast lowered (OHL) | in (mm) | 77.0 (1955) | 77.0 (1955) | 77.0 (1955) | 15 |
| | | | Mast extended with LBR | in (mm) | 167.7 (4260) | 167.7 (4260) | 167.7 (4260) | 16 |
| | | | Height - top of OHG | in (mm) | 83.4 (2120) | 83.4 (2120) | 83.4 (2120) | 17 |
| | | | Height - top of standard LBR | in (mm) | 47 (1194) | 47 (1194) | 47 (1194) | 18 |
| | | | Width - standard carriage | in (mm) | 36.2 (920) | 36.2 (920) | 36.2 (920) | 19 |
| | 20 | Turning Radius | Minimum outside* | in (mm) | 60.0 (1525) | 60.0 (1525) | 64.4 (1635) | 20 |
| | 21 | Overhang | Front | in (mm) | 14.4 (365) | 14.6 (370) | 14.6 (370) | 21 |
| | | | Rear | in (mm) | 8.6 (219) | 8.6 (219) | 8.6 (219) | 22 |
| | 23 | Min Right Angle Stack | Add load length & clearance | in (mm) | 74.4 (1890) | 74.6 (1895) | 79.0 (2005) | 23 |
| | PERFORMANCE | 24 | Speeds Maximum | Travel - loaded/empty (36V) | mph (km/h) | 9 (14.5) / 9 (14.5) | 9 (14.5) / 9 (14.5) | 9 (14.5) / 9 (14.5) |
| Travel - loaded/empty (48V) | | | | mph (km/h) | 10 / 10 (16/16) | 10 / 10 (16/16) | 10 / 10 (16/16) | |
| 25 | | | Lift - loaded/empty (36V) | fpm (mm/sec) | 67 / 101 (340 / 515) | 61 / 101 (310 / 515) | 53 / 101 (270 / 515) | 25 |
| | | | Lift - loaded/empty (48V) | fpm (mm/sec) | 79 / 118 (400 / 600) | 73 / 118 (370 / 600) | 63 / 118 (320 / 600) | |
| | | | Lowering - loaded/empty (36V/48V) | fpm (mm/sec) | 98 / 107 (500 / 550) | 98 / 107 (500 / 550) | 98 / 107 (500 / 550) | |
| 26 | | Drawbar Pull Maximum | Full load - 3 min rating | lb (kg) | 2280 (1030) | 2280 (1030) | 2280 (1030) | 26 |
| 27 | Gradeability Maximum | Full load / empty - 5 min rating | tan (%) | 20.8 / 32.3 | 18.7 / 30.0 | 16.1 / 26.0 | 27 | |
| WEIGHT | 28 | Truck Weight | No load, no battery | lb (kg) | 5220 (2370) | 5640 (2560) | 5285 (2400) | 28 |
| | | | No load, min battery | lb (kg) | 6765 (3070) | 7185 (3260) | 7600 (3450) | 29 |
| | 30 | Weight Distribution | Full load front/rear - min battery | lb (kg) | 8685 / 1080 (3940 / 490) | 9585 / 1100 (4345 / 500) | 10575 / 1025 (4805 / 465) | 30 |
| No load front/rear - min battery | | | lb (kg) | 3430 / 3335 (1555 / 1515) | 3435 / 3750 (1560 / 1700) | 3785 / 3815 (1720 / 1730) | | |
| CHASSIS & WHEELS | 31 | Tire Size | Front | in | 18 x 7 x 12.1 | 18 x 7 x 12.1 | 18 x 7 x 12.1 | 31 |
| | | | Rear | in | 15 x 5 x 11.25 | 15 x 5 x 11.25 | 15 x 5 x 11.25 | |
| | 32 | Wheelbase | | in (mm) | 51.2 (1300) | 51.2 (1300) | 55.5 (1410) | 32 |
| | 33 | Tread - Center of Tire | Front / rear | in (mm) | 36.6 / 6.9 (930 / 176) | 36.6 / 6.9 (930 / 176) | 36.6 / 6.9 (930 / 176) | 33 |
| | | | Counterweight Height | in (mm) | 36.2 (920) | 36.2 (920) | 36.2 (920) | |
| | | | Step Height | in (mm) | 21.9 (556) | 21.9 (556) | 21.9 (556) | |
| | 34 | Ground Clearance | Under mast | in (mm) | 3.0 (75) | 3.0 (75) | 3.0 (75) | 34 |
| | | | Under frame (WB center) | in (mm) | 3.9 (100) | 3.9 (100) | 3.9 (100) | |
| | 35 | Service Brake | Type | | Hydraulic / Electric | Hydraulic / Electric | Hydraulic / Electric | 35 |
| | 36 | Parking Brake | Type | | Hand | Hand | Hand | 36 |
| DRIVE LINE | 37 | Steering | On-demand | | Hydraulic | Hydraulic | Hydraulic | 37 |
| | 38 | Traction Motor x2 | Rating (1 hour) - 36 Volt / 48 Volt | kW | 4.0 / 5.0 | 4.0 / 5.0 | 4.0 / 5.0 | 38 |
| | | | Control type | | MOS-FET Inverter | MOS-FET Inverter | MOS-FET Inverter | |
| 39 | Pump Motor | Rating (20%) - 36 Volt / 48 Volt | kW | 8.0 / 11.0 | 8.0 / 11.0 | 8.0 / 11.0 | 39 | |
| BATTERY | 40 | Recommended Size | L x W x H | in (mm) | 38.78 x 20.55 x 25.63 (985 x 522 x 651) | | 38.78 x 24.88 x 25.63 | 40 |
| | | | Battery Compartment Size | in (mm) | 39.17 x 20.86 x 25.78 (995 x 530 x 655) | | 39.17 x 25.19 x 25.78 | |
| | Capacity at 6 hour rate | | Lead acid - 36 Volt / 48 Volt | Type | 18-100-17 / 24-100-13 | | 18-100-21 / 24-100-15 | |
| | | | Minimum - 36 / 48 Volt | Ah | 680 / 510 | 680 / 510 | 750 / 600 | |
| | | | Maximum - 36 / 48 Volt | Ah | 800 / 600 | 800 / 600 | 1000 / 700 | |
| | 41 | Weight** | Minimum / Maximum | lb (kg) | 1545 / 2425 (700 / 1100) | 1545 / 2205 (700 / 1000) | 2315 / 2535 (1050 / 1150) | 41 |
| | 42 | Lead Length | Position A | in (mm) | 4.0 (100) | 4.0 (100) | 4.0 (100) | 42 |
| 43 | Connector | Type | | SB-350 Gray | SB-350 Gray | SB-350 Gray | 43 | |

*Turning radius calculated using standard dual cushion tires.

**Min/max battery weight based on cushion tire models only. Consult Factory for battery weight requirements for pneumatic tire models.

Technical Information

TX Platinum Series

Standard Equipment

1. 36/48-volt electrical system
2. Enclosed, AC-powered hydraulic pump motor and dual drive motors
3. On-demand, hydraulic load sensing power steering system
4. Nissan AC TECH controller works in conjunction with built-in test equipment and multi-function LCD display
5. On-board diagnostics and service history
6. Three standard performance modes: economy, normal, high
7. Nissan's Safety System includes seat-actuated power interrupt system
8. Secure access to personalized performance settings
9. Deck-mounted hydraulic control levers
10. Three-mode regenerative braking system
11. Enclosed, six-disc wet type brakes
12. Controlled rollback feature reduces truck descent while on inclines
13. Infinitely adjustable, small diameter tilt steering wheel
14. Full suspension cloth seat with operator restraint system and weight adjustment
15. Audible back-up warning alarm
16. Two front overhead guard mounted headlights, turn signals and mirrors
17. Rear combination turn signal, brake, and stop lights
18. Rear work light
19. Four-piece reinforced overhead guard
20. Dual cushion rear steer tires
21. Deck mounted emergency stop button

Optional Equipment

1. Adjustable armrest with fingertip hydraulic controls
2. Single lift/tilt control (available only with fingertip option)
3. Battery compartment rollers
4. Nissan exclusive three-stage Optiview mast
5. Integral side shifter
6. Solid pneumatic tires
7. Freezer package (-31°F / -35°C)
8. High position steering wheel (2.2" additional height)
9. Low overhead guard (78.3")
10. Strobe lights
11. Fire extinguisher
12. Standard or polished and tapered forks in a variety of lengths

Enhanced Operator Comfort and Productivity

The TX Series offers a variety of operator conveniences for enhanced comfort and increased productivity, including a full suspension cloth seat with weight and back-angle adjustment, hip restraint and retractable seat belt. A compact front cowl design offers generous leg and foot room along with a wide entry step. Its infinitely adjustable steering wheel column offers a wide range of up and down movement. Additional ergonomics are achieved through an optional higher steering column design.

TX Series' AC TECH offers Flex-logic acceleration control which enables the truck to respond according to the speed with which the pedal is depressed, allowing more accurate, precise control by the driver. The hydraulic, AC-powered steering system reduces operator effort, for easier, more maneuverable conditions, while a hydraulic load sensing valve diverts fluid for priority to the steering system.

Dual lift and tilt lever, deck-mounted hydraulic controls are standard. An adjustable armrest with fingertip control hydraulics can be ordered as an option, and is available with Nissan's exclusive single lift/tilt design, resulting in enhanced ergonomics, and further improving productivity.

The LCD dash display visibly communicates truck status and warnings for operator awareness including: travel speed (above 2 mph) and rear wheel angle indicator (less than 2 mph), battery capacity, hour meter (four-mode), time and day of week, brake warning, seat belt warning and selected power mode.

The TX Series' standard Safety System includes: Mast Lock (automatically locking mast lift and tilt when the operator leaves the seat), Turn Control (automatic restriction of travel speed and acceleration during turning), Lift Control (restricting lift speed at faster travel speeds) and Controlled Rollback (reducing quick truck movement down a gradient, when the accelerator pedal is released).

Features for Increased Efficiency

The TX Series' AC TECH controller provides lower battery consumption and optimum operating efficiencies through regenerative braking, automatic deceleration and on-demand power steering. Regenerative braking is achieved through switch-back/plugging; foot applied braking and neutral braking. An adjustable auto-power off feature will switch off the electrical system if the truck isn't being operated, further extending battery life.

A four-digit PIN code offers access to adjustable performance settings, allowing up to five unique operational profiles according to driver experience and load handling conditions. Or select from three preset performance modes (economy, normal, high) based on the application.

Battery and Electrical

Available with a 36 or 48 volt electrical system. The AC TECH motor controller features a MOS-FET power inverter for DC to three phase AC power conversion. Single contactor design reduces maintenance.

Brake System

Six-disc wet type brakes prolong brake life and offer constant braking efficiency. Brakes are fully enclosed within the drive unit, to prevent dust and dirt contamination. Six-disc type brake achieves higher braking performance over the life of the brakes. Three-mode regenerative braking system increases the number of working hours per battery charge. A hand-actuated parking brake, with lock release button is located on the cowl within easy reach.

Truck and Mast Design

Modern and compact wedge-shaped design makes the truck highly maneuverable in confined areas. Standard dual rear wheels provide additional stability, especially during high loading conditions, while the lift control feature restricts lift speeds during faster travel.

Nissan's flat face mast design features rolled steel channels, large cross sections, and thick inner rails for increased capacity retention. Side thrust rollers on the fork carriage are easily accessed for carriage adjustment. Optional Nissan exclusive Optiview, three-stage mast design offers 50% greater visibility for improved load handling.

Drive Unit

Dual front wheel drive provides excellent traction and braking power. Rugged dual AC drive motors offer more power and quicker response. The TX Series' individually controlled AC powered drive motors mean power is permitted to each motor depending upon turn angle input. For tighter turns, the inner wheel counter-rotates allowing the truck to turn on the spot.

Hydraulics

Powerful AC hydraulic pump motor for lift and tilt operation is also used for the on demand power steering system.

Reduced Maintenance

The TX Platinum Series features a 100% AC-powered system, including brushless, dual drive motors and a hydraulic pump motor (which also powers the steering system). On-demand steering achieved through priority hydraulic load sensing valve, eliminating use of separate steering motor. Design greatly reduces the number of serviceable parts including commutators, contactors, brushes and steer chains; eliminating expenses related to inspection and replacement of these items, for lower overall operating costs. Four-piece reinforced overhead guard design allows easy replacement should individual parts become damaged.

Enclosed six-disc wet brake system prevents friction and glazing, as well as eliminating dirt entry, to prevent premature wear and superfluous maintenance expenses. Frame-mounted mast design allows easier access to final drive, eliminating need to disassemble transmission and drive motors to gain access to the brakes.

The AC TECH controller includes a built-in-test-equipment module with self-diagnostics and allows coded service history, logged by hour meter reading. Troubleshooting through the instrument panel allows rapid access to service requirements. Rugged, gas spring de-tent keeps the hood up and out of the way during routine battery maintenance inspections. Removable two-piece floorboard provides access to drive and hydraulic pump motors. Hydraulic oil tank location makes daily level checks and periodic refills fast and simple.



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