Quick Glow Spark (QGS) starting system ensures a reliable and efficient start, delivering the power and efficiency to get the job done while maintaining excellent fuel economy.

The 4D94LE diesel, 4-cylinder, in-line 2.77-liter engine employs 4-stroke, 4-cycle technology and direct injection to produce high performance with excellent reliability and durability. The engine block is designed with five main bearings and five rod bearings, micro-grooved to improve lubrication and reduce wear.

All main and rod bearings are micro-grooved to improve lubrication and reduce wear. The crankshaft and camshaft position sensors provide accurate and reliable starting in cold weather, while meeting all emissions standards. The powerful and efficient direct drive gear pump powers the hydraulic fluid reservoir integral to the truck frame, reducing heat buildup in the system.

The diesel fuel tank is integral to the truck frame, providing easy operator access and ease of use. The engine cover has gas-filled cylinder with an automatic locking device to assist in opening and to prevent the cover from unexpectedly closing. The engine cover latch is easy-access, easy-operation engine cover latch is designed to optimize operator protection, engine area for maintenance and service.

The engine cover has gas-filled cylinder with an automatic locking device to assist in opening and to prevent the cover from unexpectedly closing. The engine cover latch is easy-access, easy-operation engine cover latch is designed to optimize operator protection, engine area for maintenance and service.

An electronic throttle governor protects the engine from overspeed during high-temperature operation. If the engine temperature by automatically limiting engine speed during high-temperature operation. If the engine temperature by automatically limiting engine speed.

Electric fuel gauge, water temperature gauge, and hour meter allow for the transmission torque converter. Transmission oil is double-filtered by a 125-micron filter system, prolonging the life of the entire drive train.

The transmission is equipped with an optimized stall ratio for torque converter provides high torque without sacrificing travel speed. The column-mounted electrical shift lever gives the operator easy directional control without removing a hand from the steering, for powered industrial trucks.

The transmission oil cooler is integral with the radiator. Transmission oil is double-filtered by a 125-micron filter system, prolonging the life of the entire drive train.

The transmission design allows easy access to the reservoir for the transmission torque converter. Transmission oil is double-filtered by a 125-micron filter system, prolonging the life of the entire drive train.

An all-welded assembly with heavy-gauge steel and integral hydraulic and fuel tanks provide exceptional load control and operator protection. A heavy-duty, cast steel drive axle housing supports the load and chassis without placing a load on the free-floating axle shafts. A flange is mounted to the drive axle to reduce stress impact on steering linkages.

The transmission is equipped with an optimized stall ratio for torque converter provides high torque without sacrificing travel speed. The column-mounted electrical shift lever gives the operator easy directional control without removing a hand from the steering, for powered industrial trucks.

The transmission design allows easy access to the reservoir for the transmission torque converter. Transmission oil is double-filtered by a 125-micron filter system, prolonging the life of the entire drive train.

A unique Komfort Zone suspension compartment isolates vibrations, for greater operator comfort and productivity.

The FORKSTAND® front steering system features a solid floor pan with ribbed rubber pads for comfort maintaining correct side thrust clearance. The forklift design is equipped with dual hydraulic systems, one for steer and one for lift, for the operators easy operation and control.

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### TRUCK DATA

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turning radius, outside in (mm)</td>
<td>86.2 (2,190)</td>
</tr>
<tr>
<td>Ground clearance, under mast in. (mm)</td>
<td>5.5 (140)</td>
</tr>
<tr>
<td>Sound level, at operator ears dB</td>
<td>82</td>
</tr>
<tr>
<td>Transmission Powershift</td>
<td></td>
</tr>
<tr>
<td>Relief pressure, maximum psi (bar)</td>
<td>2,650 (181)</td>
</tr>
<tr>
<td>Rated output (SAE Gross) HP (kW) @ rpm</td>
<td>56 (41) @ 2,700</td>
</tr>
<tr>
<td>Parking brake, operation / control</td>
<td>Hand / Mechanical</td>
</tr>
<tr>
<td>Free lift height (2-stage std. mast) in. (mm)</td>
<td>5.5 (140)</td>
</tr>
<tr>
<td>Mast height, extended (2-stage std. mast)† in. (mm)</td>
<td>176 (4,470)</td>
</tr>
<tr>
<td>Number of wheels, front / rear x=driven</td>
<td>2x / 2</td>
</tr>
<tr>
<td>Service weight (includes 2-stage std. mast &amp; forks) lbs. (kg)</td>
<td>7,180 (3,255)</td>
</tr>
<tr>
<td>Load distance from center axle (2-stage) in. (mm)</td>
<td>17.9 (455)</td>
</tr>
<tr>
<td>Capacity @ 24 in. (600 mm) load center* lbs. (kg)</td>
<td>4,000 (1,810)</td>
</tr>
<tr>
<td>Tire type</td>
<td>Pneumatic</td>
</tr>
</tbody>
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### DIMENSIONS

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source (All)</td>
<td></td>
</tr>
<tr>
<td>Power Take-Off (PTO)</td>
<td></td>
</tr>
<tr>
<td>Number of wheels, front / rear x=driven</td>
<td>2x / 2</td>
</tr>
<tr>
<td>Service weight (includes 2-stage std. mast &amp; forks) lbs. (kg)</td>
<td>7,180 (3,255)</td>
</tr>
<tr>
<td>Load distance from center axle (2-stage) in. (mm)</td>
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<td>4,000 (1,810)</td>
</tr>
<tr>
<td>Tire type</td>
<td>Pneumatic</td>
</tr>
</tbody>
</table>

### SPECIAL FEATURES

- EZlift™ Hydraulic System with tandem pump provides fast and controllable lifting speed at low engine RPM
- EZview® FG(D)28/30, EZview® FG(D)32
- Water Proof Cabin
- Fire Extinguisher
- Full Suspension Seat
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<table>
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<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td><strong>Performance</strong></td>
<td></td>
</tr>
<tr>
<td>Ground Clearance, under mast in. (mm)</td>
<td>5.5 (140)</td>
</tr>
<tr>
<td>Relief Pressure, maximum psi (bar)</td>
<td>2,650 (181)</td>
</tr>
<tr>
<td>Maximum Torque (SAE Gross) lb. - ft. (Nm)</td>
<td>@ 1,600</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
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<tr>
<td>Height overhead guard in. (mm)</td>
<td>83.1 (2,110)</td>
</tr>
<tr>
<td>Load Distance from Center Axle (2-stage) in. (mm)</td>
<td>17.9 (455)</td>
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<tr>
<td>Capacity @ 24 in. (600 mm) load center* lbs. (kg)</td>
<td>4,000 (1,810)</td>
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<tr>
<td><strong>Tire Type</strong></td>
<td>Pneumatic</td>
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<tr>
<td><strong>Engine Manufacturer / Engine Model</strong></td>
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<tr>
<td>Nissan / K21</td>
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<tr>
<td>Nissan / K25</td>
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<tr>
<td>Yanmar / 4D94LE</td>
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<td>Nissan / K25</td>
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<tr>
<td>Yanmar / 4D94LE</td>
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</tr>
<tr>
<td>Maximum Drawbar Pull, loaded lbs. (kN)</td>
<td>3,960 (17.6)</td>
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<tr>
<td><strong>Truck Data</strong></td>
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<tr>
<td>Loaded Front lbs. (kg)</td>
<td>9,880 (4,480)</td>
</tr>
<tr>
<td><strong>Special Features</strong></td>
<td></td>
</tr>
<tr>
<td>New EZview mast with improved visibility window, combined with low profile dash display, offers the operator an unrestricted view to the fork tips and lifting speed at low engine RPM</td>
<td></td>
</tr>
<tr>
<td>Parking Brake with Double-Action Release</td>
<td></td>
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<tr>
<td>E-Park Actuator on Center of Steering</td>
<td></td>
</tr>
<tr>
<td>Transmission Torque Converter Oil Cooler</td>
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</tr>
<tr>
<td>System with Lap Belt</td>
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</tr>
<tr>
<td>Warning Lights &amp; Audible Travel Alarms</td>
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</tr>
<tr>
<td>3-STAGE FULL FREE VIEW (TFV)</td>
<td></td>
</tr>
<tr>
<td>2-STAGE FREE VIEW (FV)</td>
<td></td>
</tr>
<tr>
<td>Contoured, Easy-to-Grip, Hydraulic Forks</td>
<td></td>
</tr>
<tr>
<td>ITA Class II or Class III Forks</td>
<td></td>
</tr>
<tr>
<td>Large, Open Floor Space with Operator Entry/Exit to the Komfort Zone</td>
<td></td>
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<tr>
<td>Hour Meter</td>
<td></td>
</tr>
<tr>
<td>Self-adjusting brakes with thicker drums improve heat resistance in severe conditions</td>
<td></td>
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<tr>
<td>3-STAGE FULL FREE VIEW (TFV)</td>
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<tr>
<td>Long-Life Headlights (OHG Mounted)</td>
<td></td>
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<tr>
<td>New low profile dash display – Fuel</td>
<td>1.6 x 3.9 x 42</td>
</tr>
<tr>
<td>Fire Extinguisher</td>
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<tr>
<td><strong>TRUCK DATA</strong></td>
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<tr>
<td><strong>MAST DATA AND FEATURES</strong></td>
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</tr>
<tr>
<td><strong>Optional Equipment</strong></td>
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<tr>
<td>Optional Fuel tank</td>
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<tr>
<td>Optional Additional Light Kit</td>
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<td>Optional Front Loader</td>
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<td>Optional Generator</td>
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<tr>
<td>Optional Main Fly Height Gauge</td>
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<tr>
<td>Optional Hand Held Remote Control</td>
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<tr>
<td>Optional Fuel Tank Removable</td>
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<tr>
<td>Optional Battery Box</td>
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<tr>
<td>Optional Full System</td>
<td></td>
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<tr>
<td>Contact your authorized dealer for other options</td>
<td></td>
</tr>
<tr>
<td><strong>Turning radius, outside in.</strong> (mm)</td>
<td>86.2 (2,190) 86.2 (2,190) 86.2 (2,190) 88.2 (2,240) 88.2 (2,240) 88.2 (2,240) 90.9 (2,310) 90.9 (2,310) 93.3 (2,370) 93.3 (2,370) 95.3 (2,420) 95.3 (2,420) 97.6 (2,480) 97.6 (2,480)</td>
</tr>
<tr>
<td><strong>Ground clearance, under mast in.</strong> (mm)</td>
<td>5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140) 5.5 (140)</td>
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<tr>
<td><strong>Relief pressure, maximum psi (bar)</strong></td>
<td>2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181) 2,650 (181)</td>
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<tr>
<td><strong>Fuel tank capacity U.S. gallons (liters)</strong></td>
<td>15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58) 15.3 (58)</td>
</tr>
<tr>
<td><strong>Parking brake, operation / control</strong></td>
<td>Hand / Mechanical Hand / Mechanical Hand / Mechanical Hand / Mechanical Hand / Mechanical Hand / Mechanical Hand / Mechanical Hand / Mechanical Hand / Mechanical Hand / Mechanical Hand / Mechanical Hand / Mechanical</td>
</tr>
<tr>
<td><strong>Service brake, operation / control</strong></td>
<td>Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic Foot / Hydraulic</td>
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<tr>
<td><strong>Forks, thickness x width x length in. (mm)</strong></td>
<td></td>
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<tr>
<td><strong>Overall width, at drive tires (single) in. (mm)</strong></td>
<td>45.3 (1,150) 45.3 (1,150) 45.3 (1,150) 45.3 (1,150) 45.3 (1,150) 45.3 (1,150) 48.6 (1,235) 48.6 (1,235) 48.6 (1,235) 48.6 (1,235) 48.6 (1,235) 48.6 (1,235) 48.6 (1,235) 48.6 (1,235)</td>
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<tr>
<td><strong>Length, with standard forks in. (mm)</strong></td>
<td>141.5 (3,595) 141.5 (3,595) 141.5 (3,595) 144.5 (3,670) 144.5 (3,670) 144.5 (3,670) 146.5 (3,720) 146.5 (3,720) 148.8 (3,780) 148.8 (3,780) 150.6 (3,825) 150.6 (3,825) 152.2 (3,865) 152.2 (3,865)</td>
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<tr>
<td><strong>Tilting angle, 2-stage (FV) masts, forward / backward deg.</strong></td>
<td>6 / 12 6 / 12 6 / 12 6 / 12 6 / 12 6 / 12 6 / 12 6 / 12 6 / 12 6 / 12 6 / 12 6 / 12 6 / 12 6 / 12</td>
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**TRUCK DATA**

| **Operation Type** | Sit-Down Sit-Down Sit-Down Sit-Down Sit-Down Sit-Down Sit-Down Sit-Down Sit-Down Sit-Down Sit-Down Sit-Down Sit-Down Sit-Down |

**MAST DATA AND FEATURES**

**SPECIAL FEATURES**

- Komfort Zone™ dual floating structure uses drive-train cushion mounts and high-capacity king-pin needle bearings, and heavy-duty seals
- Self-adjusting brakes with thicker drums improve heat resistance in severe surrounding area
- Overhead Guard Mounted Headlights
- Switch Electronic Ignition, Anti-Restart Ignition
- 4-Way Valve and Internal Hosing
- Optional Fork Lengths
- EZview® FG(D)28/30

**STANDARD EQUIPMENT**

- Electronic Engine Protection System
- Parking Brake with Double-Action Release
- Engine Protection System
- Control Lever Knobs
- Overhead Guard Mounted Headlights
- Switch Electronic Ignition, Anti-Restart Ignition
- 4-Way Valve and Internal Hosing
- Optional Fork Lengths
- EZview® FG(D)28/30

Please consult your authorized dealer for information and availability.

NOTE: Specifications for 4-Stage Full Free View (QFV) Masts are not indicated.

**WEIGHTS AND DIMENSIONS**

<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th><strong>Rated Load Capacity (lbs.) (kg)</strong></th>
<th><strong>Height Overhead Guard (in.) (mm)</strong></th>
<th><strong>Tread, Rear (in.) (mm)</strong></th>
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</table>

**Rear lbs. (kg)** 1,300 (590) 1,300 (590) 1,410 (640) 1,590 (720) 1,590 (720) 1,620 (735) 1,810 (820) 1,770 (805) 1,910 (865) 1,890 (860) 2,110 (965) 2,050 (930) 2,200 (1,000) 2,270 (1,030)
The 4D94LE diesel, 4-cylinder, in-line 2.77-liter engine employs 4-stroke, 4-cycle technology and direct injection to produce high performance with excellent reliable durability and enhanced serviceability through reduced maintenance requirements, exceptional fuel economy, low emissions, and long service intervals. The 4D94LE engine block is designed with five main bearings. The aluminum alloy cylinder head has large intake and exhaust valves, polished ports, and optimized intake and exhaust cam profiles to improve lubrication and reduce wear. It has four valves per cylinder (two intake and two exhaust) with hydraulic tappets. The fuel injection timing is controlled by the Engine Control System (ECCS). Each cylinder has an individual multi-port fuel injection. A removable 33 lb. or 43 lb. fuel tank provides reliable braking action and reduced heat.

• The EZlift Hydraulic System is fully filtered and features a tandem pump that provides fast and reliable start in all climates. The EZlift Hydraulic System features a tandem pump that provides fast and reliable start in all climates.

• Engine Warning, Hydraulic Lock (Operator Presence), and ECCS Status Code indicator lights for Neutral/Return to Neutral, Low Oil, Transmission Oil CoolerLow Oil, Transmission Oil Cooler, Lubrication failure (Lube Oil Low), Overheating, and Engine Warning.

• Electric fuel gauge, water temperature gauge, LCD hour meter, and shroud for maximum air volume and noise reduction.

• Easy-access, easy-operation engine cover latch is recessed to prevent interference when entering and leaving the engine area for maintenance and service.

• Single-piece, all-steel engine cover and seat support provides reliable starting in cold weather, and hand grips provide easy entry and exit for the operator.

• Dual sidewall, angle-mounted bearings and a shaped rail flange prevent excessive wear and friction, while steering stops are machined into the steering cylinder cover and console.

• Inching pedals with ribbed rubber pads for comfort and safety. Inching control and auxiliary brake pedal combination allows the operator to control speed and operator protection.

• Single-piece 4-cylinder, 4-cycle, in-line 2.77-liter engine with integral oil cooler is specifically designed for industrial applications.
**ENGINE – DIESEL**

- All main and rod bearings are micro-grooved to protect the engine against damage due to high engine torque and sudden load changes during high-temperature operation. The engine is shut down if the engine temperature exceeds 200°F.
- The high-circulation cooling fan is designed for maximum cooling performance and to handle the extreme conditions for increased service life.
- Electric fuel gauge, water temperature gauge, and ECCS Status Code on the instrument panel.
- The high-capacity aluminum radiator is designed with an efficient thermal transfer fin and integral oil cooler to reduce heat buildup in the system.
- Standard instrument package and operator easy directional control without removing the key.
- The diesel fuel tank is integral to the truck frame. The gasoline fuel tank is integral to the truck frame.
- GREASE FITTINGS ON ALL LINKAGES ARE ACCESSIBLE WITHOUT REMOVING ANY STRUCTURAL PARTS.
- Easy-access, easy-operation engine cover latch is standard.
- A modulating control valve absorbs initial pressure change. This improves shifting capabilities and reduces shock during shifts.
- Transmission case is recyclable aluminum.
- A modulating control valve absorbs initial pressure change. This improves shifting capabilities and reduces shock during shifts.
- Transmission oil is double-filtered by a 125-micron filter element and a 35-micron cartridge on the front stage and a 35-micron cartridge on the rear stage.
- Inching control and auxiliary brake pedal for precise control.
- Easy-access, easy-operation engine cover latch is standard.
- Transmission oil is double-filtered by a 125-micron filter element and a 35-micron cartridge on the front stage and a 35-micron cartridge on the rear stage.
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