313D2 L
Hydraulic Excavator
2017

Engine

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Cat® C4.4</th>
</tr>
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<td>Engine Power (ISO 14396)</td>
<td>74.5 kW 100 hp</td>
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<tr>
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<td>68.2 kW 91 hp</td>
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Weights

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313D2 L Features

Engine and Hydraulics
The powerful C4.4 engine meets U.S. EPA Tier 3, EU Stage IIIA, Japan 2006 (Tier 3) equivalent and China Nonroad Stage III emission standards and is combined with a highly efficient hydraulics system providing excellent machine performance with low fuel consumption.

Structures
Caterpillar design and manufacturing techniques assure outstanding durability and service life.

Operator Station
The spacious cab features excellent visibility and easy-to-access switches. The monitor features a full-color graphical display which is user intuitive and highly visual with built-in pre-start machine checks. Overall, the new cab provides a comfortable working environment for efficient day-long operation.

Service and Maintenance
This machine has been designed so that routine service and maintenance can be completed quickly and easily to help reduce ownership costs. Convenient access points with extended intervals and advanced filtration keeps down-time to a minimum.

Complete Customer Support
Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment.

Cat 313D2 L Total Solutions
Caterpillar and its extensive dealer network offer a wide variety of solutions designed to meet the unique needs of your business.

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Achieve high productivity and lower operating costs with the Cat 313D2 L Hydraulic Excavator. Unmatched versatility, improved controllability, easy operation and a comfortable, redesigned operator station help make the 313D2 L an industry-leading performer.
Operator Station
Enhanced comfort, operation and visibility.

Operator Station
The ergonomically designed operator station is spacious, quiet and comfortable, assuring high productivity during a long work day. All switches are located on the right-hand console for convenient access.

Monitor
The monitor is a full-color Liquid Crystal Display (LCD) that can be adjusted to minimize sun glare. It has the capability of displaying information in Chinese and twenty-seven other languages.

Joystick Control
Low-effort pilot-operated joystick controls are designed to match the operator’s natural wrist and arm position for maximum comfort and minimum fatigue.

Seat
The suspension seat provides a variety of adjustments to accommodate a wide range of operators. All seats include a reclining back, upper and lower seat slide adjustments, and height and tilt adjustments, to meet operator needs for comfort and productivity.

Console
The right and left joystick console can be adjusted to meet individual preferences, improving operator comfort and productivity during the course of a day.

Cab Exterior
The cab shell features thick steel tubing along the bottom perimeter of the cab, improving resistance to fatigue and vibration.

Cab Structure and Mounts
The cab shell is attached to the frame with viscous rubber cab mounts, which dampen vibrations and sound levels while enhancing operator comfort. Thick steel tubing along the bottom perimeter of the cab, improves resistance to fatigue and vibration.

Windows
To maximize visibility, all glass is affixed directly to the cab, eliminating window frames. The upper front windshield opens, closes and stores on the roof above the operator with a one-touch action release system.

Wipers
Pillar-mounted wipers increase the operator’s viewing area and offer continuous and intermittent modes.
The Cat C4.4 engine meets Tier 3, Stage IIIA, Japan 2006 (Tier 3) equivalent and China Nonroad Stage III emission standards. This engine incorporates a time-proven mechanical governor and a low pressure fuel injection system which are major contributors to the improvement of fuel system robustness, high fuel efficiency and ease of troubleshooting. High filtration performance from the primary filter incorporating a water separator and a secondary filter also help to improve fuel filtration system reliability.

**Automatic Engine Control and Fuel Delivery**

With a net power of 68 kW (91 hp) the 313D2 L has been designed with fuel economy in mind.

**Biodiesel-Ready Fuel System**

The machine’s Tier 3 engine can now run on biodiesel up to B20 that meets ASTM 6751 standards – all to give you more potential fuel-saving flexibility.

**Economy Mode**

Available as standard, economy mode allows you to balance the demands of performance and fuel economy while maintaining the breakout forces and lift capacity enjoyed at standard power.
Hydraulics
Low effort and precise control for highly efficient performance.

Outstanding Performance
The 313D2 L hydraulic system is designed for high efficiency and performance. This compact design utilizes short tubes and lines, reducing friction and pressure drops, resulting in a more efficient use of power.
• Hydraulic snubbers at the rod end of the boom cylinders and both ends of the stick cylinder cushion shock, reduce sound and increase cylinder life.
• Flow is reduced to a minimum when controls are in the neutral position to reduce fuel consumption and extend component life.
• Electronic under speed control electronically adjusts pump output to not exceed engine power, preventing the need to reserve engine power to avoid engine stalls.
• Hydraulic cross-sensing system uses two hydraulic pumps up to 100 percent of engine power under all operating conditions, improving productivity with faster implement speeds and quicker, stronger pivot turns.

Boom and Stick Regeneration Circuit
The boom and stick regeneration circuit saves energy during boom-down and stick-in operation, increasing efficiency and lowering operating costs.

Easy Operation
Work mode and power mode switches have been eliminated making full power available at all times. Operators do not need to learn different modes, an automatic boom and swing priority function automatically selects the best mode based on joystick movement.
Undercarriage and Structures
Strong, stable and easy to maneuver.

Caterpillar uses advanced engineering and software to analyze all structures, creating a durable, reliable machine for the robust applications. More than 70 percent of the structural welds are robotic and achieve three times the penetration over manual welds. These structural components and undercarriage are the backbone of the machine’s durability.

Carbody Design
X-shaped, box-section carbody provides excellent resistance to torsional bending. Robot-welded track roller frames are press-formed, pentagonal units that deliver exceptional strength and service life.

Grease Lubricated Track
Grease lubricated track seals protect the track link and deliver long track link pin and bushing inner wear.

Travel Motors
Travel motors with automatic speed selection let the 313D2 L automatically change up and down from high and low speeds in a smooth, controlled manner.

Front Linkage
Reliable and durable meeting all your versatility needs.

Robust applications require robust machine designs. In order to meet your job site needs we use advanced engineering and software to analyze all structures, creating a durable, reliable machine.

Stick
The 2.5 m (8’2”) HD sticks incorporate new forging and welding processes for increased durability, digging force, and lifting capacity.

Reach Boom
A 4.65 m (15’3”) one-piece, reach boom features parts made from a new forging pattern. A light attached to the left side offers improved visibility in dark and low-light conditions.
Work Tools
Dig, hammer, rip, and cut with confidence.

An extensive range of Cat Work Tools for the 313D2 L includes buckets, rippers, couplers and hammers. Each is designed to optimize the versatility and performance of your machine.

Buckets
Next Generation Cat buckets feature four standard bucket categories. Each category is based on intended bucket durability when used in recommended application and material. Each bucket durability is available as pin-on, or can be used with a quick coupler.

General Duty Buckets (GD)
For digging in low impact, lower abrasion materials such as dirt, loam, and mixed compositions of dirt and fine gravel. Example: Digging conditions in which General Duty tip life exceeds 800 hours.

Typically larger General Duty Buckets are the most popular sizes, and are used by site developers to mass excavate in low abrasion applications.
- Lighter structures decrease load time and increase the weight that can be lifted.
- Standard size adapters and tips.
- Sidebars are pre-drilled for optional sidecutters.

Severe Duty Buckets (SD)
For higher abrasion conditions such as well shot granite and caliche. Example: Digging conditions where tip life ranges from 200 to 400 hours with Penetration Plus tips.
- Bottom wear plates are about 50 percent thicker than Heavy Duty Buckets.
- Side wear plates are about 40 percent larger than Heavy Duty Buckets for added protection against abrasive and gouging wear.
- Heavy Duty and Severe Duty Buckets use same size adapters.
- Adapters are sized to accommodate higher abrasion conditions.
- Tips are up-sized (over the General Duty bucket) for enhanced performance and durability.
- Sidebars are pre-drilled for optional sidecutters and sidebar protectors.
Cat Pin Grabber Couplers
The Cat Pin Grabber Coupler is easy to activate, easy to engage, easy to disengage. Operating procedures are simple and easy to learn. It's the easiest way to improve productivity on every job site.
One excavator can share buckets and a variety of attachments with similar size excavators. Managing your assets just got easier.

Hydraulic Kits
Caterpillar offers field-installed hydraulic kits that are uniquely designed to integrate Cat Work Tools with Cat excavators. Hoses and tubes are pre-made, pre-shaped, and pre-painted to make installation quick and easy.

Comprehensive Product Support
All Cat Work Tools are backed up by a world-wide network of well-stocked spare-parts depots and highly experienced after-sales service and support personnel.
Serviceability
Simplified service and maintenance features save you time and money.

Ground Level Service
The design and layout of the 313D2 L was made with the service technician in mind. Many service locations are easily accessible from ground level allowing service and maintenance to get completed quickly and efficiently.

Pump Compartment
A service door on the right side of the upper structure allows ground-level access to the hydraulic pumps, hydraulic filters, and engine oil filter.

Radiator Compartment
The left service door allows easy access to the engine radiator, hydraulic oil cooler, water separator, primary and secondary fuel filter, and AC condenser. A reserve tank and drain cock are attached to the radiator for simplified ground level maintenance.

The air filter features a double-element construction for superior cleaning efficiency. When the air cleaner plugs, a warning is displayed on the monitor screen inside the cab. Maintenance free batteries are standard along with a battery disconnect switch.

Hydraulic Filter
The hydraulic return filter is an in-tank design with a service life of 2,000 hours. A sensor indicates through the in-cab monitor when the filter is plugged and needs to be replaced.

Greasing Points
A concentrated remote greasing block on the boom allows the greasing of hard-to-reach locations on the boom and stick.

Fan Guard
Engine radiator fan is 180 degree enclosed by fine wire mesh, which provides maximum protection when carrying out routine service and maintenance.

Anti-Skid Plate
Anti-skid plating covers the entire upper structure along with the tool box to prevent slipping during maintenance.

Diagnostics and Monitoring
The 313D2 L is equipped with Scheduled Oil Sampling (S-O-S℠) ports for the hydraulic system, engine oil, and coolant. Standard hydraulic test ports situated throughout the hydraulic system enable quick and easy fault finding in the event of a problem.

Extended Service Interval
313D2 L service and maintenance intervals have been extended to reduce machine service time and increase machine availability.
Complete Customer Support
Cat dealer services offer a wide range of personalized solutions.

Product Support
Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. You can also save money with our line of remanufactured components.

Machine Selection
Your Cat dealers can provide specific recommendations with detailed comparisons of the Cat machines you are considering before you buy. This ensures you get the right sized machine and appropriate work tools to meet all of your application needs.

Maintenance Services
Repair option programs guarantee the cost of repairs up front. Condition Monitoring Services and Diagnostic programs such as Scheduled Oil Sampling, Coolant Sampling and Technical Analysis help you avoid unscheduled repairs.

Customer Support Agreements
Cat dealers offer a variety of product support agreements which can be tailored to meet your specific needs. These plans can cover the entire machine – including attachments – to help protect your investment.

Replacement
Repair, rebuild, or replace? Your Cat dealers can help you evaluate the costs involved so you can make the right choice.
### Engine Specifications

<table>
<thead>
<tr>
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<th>Value</th>
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<tbody>
<tr>
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<td>Cat C4.4</td>
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<tr>
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<td>Net Power – SAE J1349/ISO 9249</td>
<td>68.2 kW 91 hp</td>
</tr>
<tr>
<td>Bore</td>
<td>105 mm 4.13 in</td>
</tr>
<tr>
<td>Stroke</td>
<td>127 mm 5 in</td>
</tr>
<tr>
<td>Displacement</td>
<td>4.4 L 268.5 in³</td>
</tr>
<tr>
<td>Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.</td>
<td></td>
</tr>
<tr>
<td>No engine derating required below 2300 m (7,546 ft) altitude.</td>
<td></td>
</tr>
<tr>
<td>The 313D2 L meets emission standards of Tier 3, Stage IIIA, Japan 2006 (Tier 3) equivalent and China Nonroad Stage III.</td>
<td></td>
</tr>
<tr>
<td>The 313D2 L meets the Stage I of sound regulation.</td>
<td></td>
</tr>
</tbody>
</table>

### Swing Mechanism

<table>
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<tr>
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</tr>
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<tbody>
<tr>
<td>Swing Speed</td>
<td>12.2 rpm</td>
</tr>
<tr>
<td>Swing Torque</td>
<td>30.9 kN·m 22,825 lbf-ft</td>
</tr>
</tbody>
</table>

### Drive Specifications

<table>
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<tr>
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</tr>
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<tbody>
<tr>
<td>Maximum Travel Speed</td>
<td>5.6 km/h 3.5 mph</td>
</tr>
<tr>
<td>Maximum Drawbar Pull</td>
<td>114 kN 25,628 lbf</td>
</tr>
</tbody>
</table>

### Weights

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<tr>
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</tr>
<tr>
<td>- HD Boom 4.65 m (15'3&quot;)</td>
<td></td>
</tr>
<tr>
<td>- HD 2.5 m (8’2&quot;) Stick, 500 mm (20&quot;)</td>
<td></td>
</tr>
<tr>
<td>- Triple Grousers track shoes, SD 0.65 m³ (0.85 yd³) bucket</td>
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### Hydraulic System

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<tbody>
<tr>
<td>Main System – Maximum Flow (Total)</td>
<td>254 L/min 67 gal/min</td>
</tr>
<tr>
<td>Swing System – Maximum Flow</td>
<td>127 L/min 34 gal/min</td>
</tr>
<tr>
<td>Maximum Pressure – Equipment</td>
<td>30 500 kPa 4,424 psi</td>
</tr>
<tr>
<td>Maximum Pressure – Travel</td>
<td>35 000 kPa 5,076 psi</td>
</tr>
<tr>
<td>Maximum Pressure – Swing</td>
<td>23 000 kPa 3,336 psi</td>
</tr>
<tr>
<td>Pilot System – Maximum Flow</td>
<td>21.9 L/min 5.79 gal/min</td>
</tr>
<tr>
<td>Pilot System – Maximum Pressure</td>
<td>4120 kPa 598 psi</td>
</tr>
<tr>
<td>Boom Cylinder – Bore</td>
<td>110 mm 4.33 in</td>
</tr>
<tr>
<td>Boom Cylinder – Stroke</td>
<td>1015 mm 40 in</td>
</tr>
<tr>
<td>Stick Cylinder – Bore</td>
<td>120 mm 4.72 in</td>
</tr>
<tr>
<td>Stick Cylinder – Stroke</td>
<td>1197 mm 47.1 in</td>
</tr>
<tr>
<td>Bucket Cylinder – Bore</td>
<td>100 mm 3.93 in</td>
</tr>
<tr>
<td>Bucket Cylinder – Stroke</td>
<td>939 mm 37 in</td>
</tr>
</tbody>
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### Service Refill Capacities

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</tr>
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<tbody>
<tr>
<td>Fuel Tank Capacity</td>
<td>250 L 66.05 gal</td>
</tr>
<tr>
<td>Cooling System</td>
<td>18 L 4.76 gal</td>
</tr>
<tr>
<td>Engine Oil (with filter)</td>
<td>16 L 4.23 gal</td>
</tr>
<tr>
<td>Swing Drive</td>
<td>3 L 0.8 gal</td>
</tr>
<tr>
<td>Final Drive (each)</td>
<td>3 L 0.8 gal</td>
</tr>
<tr>
<td>Hydraulic System (including tank)</td>
<td>86 L 22.7 gal</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>72 L 19.0 gal</td>
</tr>
</tbody>
</table>
## Dimensions

All dimensions are approximate.

### Boom Options

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<th>Stick Options</th>
<th>HD Boom 4.65 m (15'3&quot;)</th>
</tr>
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<tbody>
<tr>
<td>1 Shipping Height*</td>
<td>2830 mm 9'3&quot;</td>
</tr>
<tr>
<td>Shipping Height with Guard Rail</td>
<td>2830 mm 9'3&quot;</td>
</tr>
<tr>
<td>2 Shipping Length – Long Undercarriage</td>
<td>7610 mm 24'11&quot;</td>
</tr>
<tr>
<td>3 Tail Swing Radius</td>
<td>2140 mm 7'0&quot;</td>
</tr>
<tr>
<td>4 Length to Center of Rollers – Long Undercarriage</td>
<td>3040 mm 9'11&quot;</td>
</tr>
<tr>
<td>5 Track Length – Long Undercarriage</td>
<td>3750 mm 12'3&quot;</td>
</tr>
<tr>
<td>6 Ground Clearance</td>
<td>430 mm 1'4&quot;</td>
</tr>
<tr>
<td>7 Track Gauge</td>
<td>1990 mm 6'6&quot;</td>
</tr>
<tr>
<td>8 Transport Width – 500 mm (20&quot;) Shoes</td>
<td>2490 mm 8'2&quot;</td>
</tr>
<tr>
<td>9 Cab Height</td>
<td>2760 mm 9'1&quot;</td>
</tr>
<tr>
<td>10 Counterweight Clearance**</td>
<td>900 mm 3'0&quot;</td>
</tr>
</tbody>
</table>

*Including shoe lug height.

**Without shoe lug height.
### Working Ranges
All dimensions are approximate.

<table>
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<tr>
<th>Stick Options</th>
<th>HD Boom 4.65 m (15'3&quot;)</th>
<th>2.5HD (8'2&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Maximum Digging Depth</td>
<td>5580 mm</td>
<td>18'4&quot;</td>
</tr>
<tr>
<td>2 Maximum Reach at Ground Level</td>
<td>8220 mm</td>
<td>26'11&quot;</td>
</tr>
<tr>
<td>3 Maximum Cutting Height</td>
<td>8520 mm</td>
<td>27'11&quot;</td>
</tr>
<tr>
<td>4 Maximum Loading Height</td>
<td>6060 mm</td>
<td>19'11&quot;</td>
</tr>
<tr>
<td>5 Minimum Loading Height</td>
<td>1970 mm</td>
<td>6'5&quot;</td>
</tr>
<tr>
<td>6 Maximum Depth Cut for 2440 mm (8 ft) Level Bottom</td>
<td>5380 mm</td>
<td>17'7&quot;</td>
</tr>
<tr>
<td>7 Maximum Vertical Wall Digging Depth</td>
<td>5050 mm</td>
<td>16'7&quot;</td>
</tr>
</tbody>
</table>

Note: The measurement is applicable on the machine equipped with the SD 0.65 m³ (0.85 yd³) bucket.
## Operating Weight and Ground Pressure

<table>
<thead>
<tr>
<th>Long Undercarriage without Blade</th>
<th>500 mm (20&quot;) Triple Grouser Shoes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD Boom – 4.65 m (15’3&quot;)</td>
<td></td>
</tr>
<tr>
<td>2.5HD (8’2&quot;)</td>
<td>13 500 kg 29,762 lb</td>
</tr>
<tr>
<td></td>
<td>40.1 kPa 5.82 psi</td>
</tr>
</tbody>
</table>

Weights are rounded up to nearest 100 kg (220 lb) including SD 0.65 m³ (0.85 yd³) bucket (620 kg/1,367 lb).

## Major Component Weights

| Base Machine (with boom cylinder, without counterweight, front linkage and track) | 4490 kg 9,898.76 lb |
| Undercarriage – Long Undercarriage                                           | 2580 kg 5,690 lb   |
| Counterweight – Standard Counterweight                                        | 2450 kg 5,401.33 lb|
| Boom (includes lines, pins and stick cylinder) – Reach Boom (4.65 m/15’3") HD | 1220 kg 2,689.64 lb|
| Stick (includes lines, pins and bucket cylinder) – HD 2.5 (8’2")             | 640 kg 1,410.96 lb |
| Track Shoe (STD/per two tracks) – 500 mm (20") triple grouser                | 1570 kg 3,461.26 lb|
| Buckets (reference only) – SD 0.65 m³ (0.85 yd³) (includes sidecutter and tip) | 620 kg 1,366.87 lb |

All weights are rounded up to nearest 10 kg and lb except for buckets. Kg and lb were rounded up separately so some of the kg and lb do not match.
Base machine includes 75 kg (165 lb) operator weight, 90% fuel weight, and undercarriage with center guard.
Bucket and Stick Forces

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<th>Stick Options</th>
<th>313D2 L HD Boom 4.65 m (15’3&quot;)</th>
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<tbody>
<tr>
<td><strong>General Duty</strong></td>
<td></td>
</tr>
<tr>
<td>Bucket Digging Force</td>
<td>0.65 m³ 0.85 yd³</td>
</tr>
<tr>
<td>(ISO)</td>
<td>95 kN 21,356.85 lbf</td>
</tr>
<tr>
<td>Stick Digging Force</td>
<td></td>
</tr>
<tr>
<td>(ISO)</td>
<td>65 kN 14,612.59 lbf</td>
</tr>
<tr>
<td>Bucket Digging Force</td>
<td></td>
</tr>
<tr>
<td>(SAE)</td>
<td>82 kN 18,434.33 lbf</td>
</tr>
<tr>
<td>Stick Digging Force</td>
<td></td>
</tr>
<tr>
<td>(SAE)</td>
<td>63 kN 14,162.96 lbf</td>
</tr>
<tr>
<td><strong>Severe Duty</strong></td>
<td></td>
</tr>
<tr>
<td>Bucket Digging Force</td>
<td>0.65 m³ 0.85 yd³</td>
</tr>
<tr>
<td>(ISO)</td>
<td>95 kN 21,356.84 lbf</td>
</tr>
<tr>
<td>Stick Digging Force</td>
<td></td>
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<tr>
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<td></td>
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<tr>
<td>(SAE)</td>
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</tr>
</tbody>
</table>

Bucket Specifications and Compatibility

<table>
<thead>
<tr>
<th>Without Quick Coupler</th>
<th>Width</th>
<th>Capacity</th>
<th>Weight</th>
<th>Fill</th>
<th>HD Reach Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Duty (GD)</td>
<td>1050</td>
<td>0.65</td>
<td>476</td>
<td>100%</td>
<td>2.5 HD (8’2&quot;)</td>
</tr>
<tr>
<td></td>
<td>42</td>
<td>0.84</td>
<td>1,049</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Severe Duty (SD)</td>
<td>1050</td>
<td>0.65</td>
<td>542</td>
<td>90%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>42</td>
<td>0.84</td>
<td>1,195</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Maximum load pin-on (payload + bucket) kg 1760 lb 3,879

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with long tips.

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar’s recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

Maximum Material Density:

- 2100 kg/m³ (3,540 lb/yd³)
- 1800 kg/m³ (3,000 lb/yd³)
### Reach Boom Lift Capacities – Counterweight: 2.45 mt (5,401.33 lb) – without Bucket

<table>
<thead>
<tr>
<th>Reach Length (m)</th>
<th>1500 mm/60 in</th>
<th>3000 mm/120 in</th>
<th>4500 mm/180 in</th>
<th>6000 mm/240 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 m (8'2&quot;)</td>
<td>*3300 kg (7,300 lb)</td>
<td>*3300 kg (7,300 lb)</td>
<td>*3450 kg (7,600 lb)</td>
<td>*2400 kg (5,350 lb)</td>
</tr>
<tr>
<td>4.65 m (15'3&quot;)</td>
<td>*3500 kg (7,600 lb)</td>
<td>*3500 kg (7,600 lb)</td>
<td>*3450 kg (7,600 lb)</td>
<td>*2200 kg (4,900 lb)</td>
</tr>
<tr>
<td>500 mm (20&quot;) triple grouser</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.
313D2 L Standard Equipment

Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

**ENGINE**
- Diesel engine – Cat C4.4 with mechanical governor
  - 2300 m (7,546 ft) altitude capability
  - 50 amp alternator, air intake heater
  - China Nonroad Stage III emission package biodiesel capable up to B20
  - 10 micron fuel filter
  - 4 micron fuel pre-filter
  - One touch low idle with AEC
  - Remote engine oil filter
  - Radial seal air filter, double element
  - Two speed travel
  - Water separator in fuel line with indicator
  - Waved fin radiator with side by side type oil cooler
  - Fix type A/C condenser
  - 46° C (109.4° F) High ambient cooling
  - Air precleaner

**CAB**
- Bolt-on FOGS capability
- Openable front windshield with assist device
- Pillar mounted upper windshield wiper and washer
- Front windshield glass split by 70/30
- Cab sliding upper door window
- Rear window, emergency exit
- Removable lower windshield with in cab storage bracket
- Metal hatch
- Interior lighting
- Standard joystick
- Laminated front upper windshield
- Seat high back, mechanical suspension with head rest
- Seat belt, retractable
- Floor mat
- Bi-level air conditioner (auto) with defroster
- Windshield washer
- Coat hook
- Ashtray and lighter
- Beverage holder
- Literature holder
- Radio mounting
- Mounting for two stereo speakers
- Antenna flexible type
- Storage compartment suitable for lunch box
- Monitor
  - Language display
  - Full graphic and full color display
  - Warning information
  - Filter/liquid change information
  - Machine condition
  - Error code and tool mode setting information
  - Full time clock on monitor
- Positive filtered ventilation
- Seat integrated control joystick
- Adjustable armrest
- Adjustable console
- Neutral lever (lock out) for all controls
- Travel control pedals with removable hand levers
- Capability of installing two additional pedals

**ELECTRICAL**
- Circuit breaker
- Cat battery

**COUNTERWEIGHT**
- Counterweight without lifting eye (2450 kg/5,401.33 lb)

**FRONT LINKAGE**
- HD Boom, 4.65 m (15’3”)
- HD Stick, 2.5 m (8’2”)
- Bucket linkage

**TECHNOLOGY**
- Product Link™

**HYDRAULIC**
- Hydraulic main pump
- High performance hydraulic return filter
- Regeneration control for boom and stick
- Boom lowering device for back up
- Boom drift reducing valve
- Stick drift reducing valve
- Reverse swing damping valve
- Automatic swing parking brake
- Auxiliary hydraulic valve
- Capability of stackable valves for main valve
- Capability of auxiliary circuit

**SECURITY**
- Cat one key security system
- Signaling/warning horn
- Mirrors, rearview (frame – right, cab – left)
- Secondary engine shutoff switch
- Door locks
- Cap locks on fuel and hydraulic tanks
- Lockable external tool/storage box

**LIGHTS**
- Halogen boom light (left side)
- Exterior lights integrated into storage box

**UNDERCARRIAGE**
- Grease lubricated track (GLT2)
- Idler section track guiding guard
- Towing eye on base frame
- Standard idler tension spring
- Guard, standard bottom
- 500 mm (20”) triple grouser shoes
Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

**ENGINE**
- Cold weather batteries, –25° C (–13° F)
- Air precleaner

**HYDRAULIC**
- Combined circuit
- Combined circuit with medium pressure
- Center-Lock™ quick coupler lines and control
- Joystick with modulation SW
- Boom and Stick high pressure, medium pressure and quick couple line options
- Control pattern quick-changer, four way

**CAB**
- Seat with seat heater, high back, air suspension with head rest
- Pull-down sunscreen
- 12V-10A power supply with two cigar lighter type sockets

**LIGHTS**
- Cab lights
- Halogen boom light (right side)

**SECURITY**
- Travel alarm
- Cab mirror

**GUARDS**
- FOGS (bolt on)
- Guard, heavy duty bottom
- Swivel guard