



Cat[®] 313D2

Hydraulic Excavator

2017

Performance

- Powerful, efficient Cat[®] C4.4 ACERT[™] engine.
- Low pressure fuel system with an electrically controlled mechanical governor allows the engine to be more robust to low quality fuel.
- Highly efficient hydraulic pumps deliver superior power for best in class performance.
- ECO mode offers up to 15% lower fuel consumption with no loss in lifting and digging forces.
- Best in class ground clearance and low ground pressure allows for excellent performance in forestry and agricultural applications.

Versatile

- Multiple stick options available to meet all application needs. 2.5 m (8'2") heavy duty and 3.0 m (9'10") sticks are offered to Asia market and 2.5 m (8'2") heavy duty stick is offered to Latin America market.
- Multiple undercarriage options are available. 790 mm (2'7") triple grouser and 960 mm (3'2") single grouser are offered to Asia market and 600 mm (2'0") triple grouser is offered to Latin America market.
- Multiple work tools available to meet your application.
- Caterpillar designed upper structure and cab guards are available to allow maximum protection in the toughest applications.
- Heavy duty High Wide X-frame structure provides high ground clearance for forest application.

Safety

- Cab and upper machine structure are guard ready.
- Hydraulic activation lever safely locks out all hydraulic functions.
- Anti-skid plating and countersunk bolts reduce slipping in severe conditions during routine checks.
- Full length firewall separates the pump compartment from the engine.
- Ground level fuel cut off switch shuts down the engine in an emergency.

Reliability/Durability

- Heavy duty High Wide modified X-frame structure provides superior clearance, drawbar pull and durability.
- Robotically welded heavy duty boom is standard.
- Grease Lubricated Tracks (GLT) provides longer life.
- Three-piece track guiding guards protect the track rollers from the impact of large rocks and logs.

Ease of Operation

- Ergonomically designed cab with easy to operate controls.
- Multiple seat and armrest adjustment options enhance comfort.
- Excellent work site visibility from the cab enhances productivity and safety.
- Optimized low effort joystick controls reduces operator fatigue.
- Automatic climate control system maximizes comfort.

Serviceability

- Most service locations can be accessed at ground level.
- Remote mounted filters reduce the time taken to service the machine.
- Pressure taps and S-O-SSM ports help maximize uptime.
- Automatic climate control system maximizes comfort.

Technology

- Cat Connect technology solutions increase production and minimize operating costs.
- Optional Link Technologies wirelessly connects you to your job site providing essential business information (VisionLink[®], Product Link[™]).



Cat® 313D2 Hydraulic Excavator

Engine

Engine Model	C4.4 ACERT	
Engine Power – ISO 14396	74.5 kW	100 hp
Net Power – SAE J1349/ISO 9249	70.6 kW	94.7 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in ³
<ul style="list-style-type: none"> • Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator. • No engine derating required below 2300 m (7,545 ft) altitude. • Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA. 		

Weights

Operating Weight*	16 300 kg	35,900 lb
Operating Weight**	15 900 kg	35,100 lb
*HD Boom 4.65 m (15'3"), HD Stick 2.5 m (8'2")/R3.0 m (9'10"), Single Grouser Track Shoes 960 mm (3'2"), GD 0.65 m ³ (0.84 yd ³) Bucket.		
**HD Boom 4.65 m (15'3"), HD Stick 2.5 m (8'2"), Triple Grouser Track Shoes 600 mm (2'0"), GD 0.65 m ³ (0.84 yd ³) Bucket.		

Swing Mechanism

Swing Speed	12.2 rpm	
Swing Torque	30.9 kN·m	22,791 lbf·ft

Drive

Maximum Travel Speed	4.6 km/h	2.9 mph
Maximum Drawbar Pull	156 kN	34,980 lb

Hydraulic System

Main System – Maximum Flow (Total)	254 L/min	67 gal
Maximum Pressure – Equipment	30 500 kPa	4,430 psi
Maximum Pressure – Travel	35 000 kPa	5,080 psi
Maximum Pressure – Swing	23 000 kPa	3,340 psi
Pilot System – Maximum Flow	22 L/min	1,340 in ³ /min
Pilot System – Maximum Pressure	4120 kPa	600 psi
Boom Cylinder – Bore	110 mm	4 in
Boom Cylinder – Stroke	1015 mm	40 in
Stick Cylinder – Bore	120 mm	5 in
Stick Cylinder – Stroke	1197 mm	47 in
Bucket Cylinder – Bore	100 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in

Dimensions

Boom Option	HD Boom 4.65 m (15'3")	
Stick Option	HD2.5 m (8'2")	
Shipping Height*	3220 mm	10'7"
Shipping Length	7600 mm	24'11"
Tail Swing Radius	2090 mm	6'10"
Length to Center of Rollers	3130 mm	10'3"
Track Length	4020 mm	13'2"
Ground Clearance	650 mm	2'2"
Track Gauge	2080 mm	6'10"
Transport Width		
600 mm (2'0") Shoes	2680 mm	8'10"
790 mm (2'7") Shoes	2870 mm	9'5"
960 mm (3'2") Shoes	3040 mm	10'0"
Cab Height	3150 mm	10'4"
Counterweight Clearance**	1250 mm	4'1"
*Including shoe lug height.		
**Without shoe lug height.		

Working Ranges

Boom Option	HD Boom 4.65 m (15'3")	
Stick Option	HD2.5 m (8'2")	
Maximum Digging Depth	5190 mm	17'0"
Maximum Reach at Ground Level	8110 mm	26'7"
Maximum Cutting Height	8850 mm	29'0"
Maximum Loading Height	6450 mm	21'2"
Minimum Loading Height	2370 mm	7'9"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	4980 mm	16'4"
Maximum Vertical Wall Digging Depth	4590 mm	15'1"

NOTE: All dimensions and working ranges based on 0.65 m³ (0.84 yd³) capacity GD bucket.

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(Asia, LAXB)

