Cat® 313D GC Series 2

Hydraulic Excavator

2017

Reliable performance combined with low owning and operating costs make the Cat® 313D GC Series 2 hydraulic excavator a great choice for utility contractors.

Performance

- Configured to operate at a maximum speed of 1,650 rpm with an engine power of 55 kW (74 hp) – all to burn up to 15% less fuel compared to the 313D2.
- The low-pressure fuel system with an electrically controlled governor allows the engine to be more robust with low-quality fuel.
- Efficient hydraulic pumps deliver optimal power to suit general construction applications.

Versatility

- Site prep and finishing work are quick and easy with a wide range of Cat work tools.
- Utility work is fast and flawless with a Cat bucket and compactor.
- A coupler lets you swap between attachments in seconds without leaving the cab.
- See the whole money-making attachment line for your machine at *www.cat.com/attachments*.

Safety

- A hydraulic activation lever safely locks out all hydraulic functions.
- Anti-skid plating and countersunk bolts reduce slipping in severe conditions and during routine checks.
- A full-length firewall separates the pump compartment from the engine.
- A ground-level engine shutoff switch shuts down the engine in an emergency.

Durability

- The modified X-frame structure provides a long service life.
- Robotically welded booms and sticks with internal baffle plates are standard.
- Greased track link between pins and bushings increases undercarriage life and reduces noise.

Ease of Operation

- The cab is ergonomically designed with easy-to-reach controls.
- Multiple seat and joystick adjustment options enhance comfort.
- Excellent work site visibility from the cab enhances productivity and safety.
- Low-effort joystick controls reduce operator fatigue.
- The automatic climate control system with 10 vents maximizes comfort.

Serviceability

- Most service locations can be accessed at ground level.
- The fuel filtration system has two filters, both located in the radiator compartment, rather than three filters as in the 312D, lowering O&O costs and simplifying service.
- Remote-mounted filters reduce the time to service the machine.
- Pressure taps and S·O·S℠ ports help maximize uptime.

Technology

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

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Engine

Engine Model	C4.4	
Net Power – ISO 14396	75 kW	100 hp
Net Power – SAE J1349/ISO 9249	68 kW	91 hp
Engine Power at 1,650 rpm	55 kW	74 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in³

- 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.
- Cat C4.4 engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA.

Weights

Operating Weight – Standard Undercarriage		
Operating Weight*	12 500 kg	27,558 lb
Operating Weight**	13 100 kg	28,880 lb

*4.65 m (15'3") Reach Boom, R2.5 (8'2") Stick, 500 mm (20") Triple Grouser Track Shoes, GD 0.53 m³ (0.69 yd³) Bucket (500 kg/1,100 lb)

**4.65 m (15'3") Reach Boom, R2.5 (8'2") Stick, 770 mm (30") Triple Grouser Track Shoes, GD 0.53 m³ (0.69 yd³) Bucket (500 kg/1,100 lb)

Swing Mechanism

Swing Speed	11.2 rpm	
Swing Torque	30.9 kN·m	22,791 lbf-ft

Hydraulic System

Main System – Maximum Flow (total)	232 L/min	61 gal
Swing System – Maximum Flow	116 L/min	31 gal
Maximum Pressure – Equipment	30 500 kPa	4,420 psi
Maximum Pressure – Travel	35 000 kPa	5,080 psi
Maximum Pressure – Swing	23 000 kPa	3,340 psi
Pilot System – Maximum Flow	21.9 L/min	1,340 in³/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

Drive

Maximum Travel Speed	5.1 km/h	3.2 mph
Maximum Drawbar Pull	114 kN	25,630 lb

Dimensions

Boom Option	**Reach Boom 4.65 m (15'3")**	
Stick Option	**R2.5 (8'2")**	
Shipping Height*	2830 mm	9'3"
Shipping Height with Guard Rail	2830 mm	9'3"
Shipping Length		
Standard Undercarriage***	7610 mm	25'0"
Standard Undercarriage with Blade***	7830 mm	25'8"
Tail Swing Radius	2140 mm	7'0"
Length to Center of Rollers		
Standard Undercarriage***	2780 mm	9'1"
Track Length – Standard Undercarriage***	3490 mm	11'5"
Ground Clearance	440 mm	1'5"
Track Gauge	1990 mm	6'6"
Transport Width		
500 mm (20") Shoes	2490 mm	8'2"
770 mm (30") Shoes	2760 mm	9'1"
Cab Height	2760 mm	9'1"
Cab Height with Top Guard	2900 mm	9'6"
Counterweight Clearance**	900 mm	2'11"

*Including shoe lug height.

**Without shoe lug height.

***Offering varies for different regions.

Working Ranges

Boom Option	**Reach Boom 4.65 m (15'3")**	
Stick Option	**R2.5 (8'2")**	
Maximum Digging Depth	5540 mm	18'2"
Maximum Reach at Ground Level	8180 mm	26'10"
Maximum Cutting Height	8490 mm	27'10"
Maximum Loading Height	6100 mm	20'0"
Minimum Loading Height	2010 mm	6'7"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5340 mm	17'6"
Maximum Vertical Wall Digging Depth	4610 mm	16'1"

NOTE: All dimensions and working ranges based on 0.53 m³ (0.69 yd³) capacity GD bucket with 1200 mm (3'11") tip radius.

IBAMA PROCONVE HOMOLOGADO

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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(Brazil)

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