



Cat[®] 349D2

Hydraulic Excavator

Performance

- Powerful, efficient engine delivers superior durability and provides best in class performance.
- Highly efficient pump and main control valve deliver superior hydraulic power.
- Fuel conscious customers can run the machine in economy mode and achieve up to a 24% reduction in fuel consumption with no loss in digging or lifting forces, a 9% increase over the 349D.
- Machine reverts back to ECO mode upon machine start up to lower owning and operating costs.
- Robust two-stage fuel filtration system improves reliability.

Versatility

- Multiple front linkage configurations meet all application needs.
- Multiply auxiliary hydraulics support a large variety of work tools.
- Specially designed and matched Cat[®] buckets and GET maximize machine performance.
- Hydro-mechanical quick coupler options reduce tool change time.

Safety

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

Durability

- Modified X-frame structure provides long life and durability.
- Robotically welded and stress relieved booms and sticks with internal baffle plates improve durability.
- Greased and Lubricated Tracks (GLT) provide longer life.

Ease of Operation

- Ergonomically designed cab with easy to operate controls provides safe, comfortable work environment.
- Multiple seat and joystick adjustment options enhance comfort.
- Excellent work site visibility from the cab enhances productivity and safety.
- LCD monitor display with 28 language capability clearly displays critical information.
- Optimized low effort joystick controls reduce operator fatigue.
- Automatic climate control system with 10 vents maximizes comfort.

Serviceability

- Most service locations can be accessed at ground level.
- Extended service intervals lower owning and operating costs.
- Remote mounted filters reduce time needed to service machine.
- Pressure taps and S-O-SSM 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.
- GRADE technologies improve your grading productivity with increased accuracy and efficiency.



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Engine

Engine Model	Cat C13 ACERT™	
Engine Power (ISO 14396)	301 kW	403 hp
Net Power (SAE J1349/ISO 9249)	289 kW	387 hp
Bore	130 mm	5.11 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	762 in³

Weights

Operating Weight		
Standard Undercarriage	45 382 kg	100,100 lb
Long Undercarriage	47 919 kg	105,600 lb
Long Undercarriage (ROPS)*	48 185 kg	106,200 lb

*Features with ROPS (Roll Over Protective Structure) cab.

Track

	Standard	Long – Fixed
Number of Shoes (each side)	49	52
Number of Track Rollers (each side)	8	9
Number of Carrier Rollers (each side)	2	2

Swing Mechanism

Swing Speed	8.7 rpm	
Swing Torque	149 kN·m	109,896 lbf·ft

Drive

Maximum Travel Speed	4.5 km/h	2.7 mph
Maximum Drawbar Pull	338 kN	75,985 lbf

Hydraulic System

Main System – Maximum Flow (Total)	734 L/min	193 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	31 400 kPa	4,554 psi
Pilot System – Maximum Flow	43 L/min	11.3 gal/min
Pilot System – Maximum Flow	43 L/min	2,623 in³/min
Pilot System – Maximum Pressure	4110 kPa	596 psi
Boom Cylinder – Bore	160 mm	6.0 in
Boom Cylinder – Stroke	1575 mm	62.0 in
Stick Cylinder – Bore	190 mm	7.0 in
Stick Cylinder – Stroke	1778 mm	70.0 in
TB Bucket Cylinder – Bore	160 mm	6.0 in
TB Bucket Cylinder – Stroke	1356 mm	53.0 in
UB Bucket Cylinder – Bore	170 mm	6.0 in
UB Bucket Cylinder – Stroke	1396 mm	55.0 in

Service Refill Capacities

Fuel Tank Capacity	705 L	186 gal
Cooling System	35.5 L	9 gal
Engine Oil (with filter)	42 L	11 gal
Swing Drive (each)	10 L	2 gal
Final Drive (each)	15 L	3 gal
Hydraulic System (including tank)	570 L	150 gal
Hydraulic Tank	243 L	64 gal

Dimensions

Boom Option	Mass Boom 6.55 m (21'6")	
Stick Option	M3.0UB (9'10")	
Shipping Height	3990 mm	13'1"
Shipping Length	11 550 mm	37'9"
Tail Swing Radius	3690 mm	12'1"
Length to Center of Idler and Sprocket		
Standard Undercarriage	4030 mm	13'3"
Long Fix Undercarriage	4360 mm	14'4"
Track Length – Standard Undercarriage	5070 mm	16'8"
Track Length – Long Fix Undercarriage	5360 mm	17'7"
Ground Clearance* – Standard Undercarriage	510 mm	1'8"
Ground Clearance* – Long Fix Undercarriage	510 mm	1'8"
Track Gauge – Standard Undercarriage	2740 mm	9'0"
Track Gauge – Long Fix Undercarriage	2740 mm	9'0"
Transport Width – Standard/Long Fix Undercarriage		
600 mm (24 in) Shoes	3430 mm	11'3"
750 mm (30 in) Shoes	3490 mm	11'5"
900 mm (35 in) Shoes	3640 mm	11'11"

Cab Height

Standard/Long Fix Undercarriage	3220 mm	10'6"
Counterweight Clearance**		
Standard/Long Fix Undercarriage	1280 mm	4'2"

*Including shoe lug height.

**Without shoe lug height.

Working Ranges

Boom Option	Mass Boom 6.55 m (21'6")	
Stick Option	M3.0UB (9'10")	
Maximum Digging Depth	7220 mm	23'8"
Maximum Reach at Ground Level	11 180 mm	36'8"
Maximum Cutting Height	10 420 mm	34'2"
Maximum Loading Height	6810 mm	22'4"
Minimum Loading Height	2660 mm	8'9"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	7070 mm	23'2"
Maximum Vertical Wall Digging Depth	5380 mm	17'8"

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