



# Cat<sup>®</sup> 336D2 XE/ D2 L XE

## *Hydraulic Excavator*

### Performance

- Hydraulic hybrid technology achieves outstanding fuel economy without impacting productivity.
- During swing braking, an accumulator stores kinetic energy in the form of hydraulic pressure. The Cat<sup>®</sup> Hydraulic Hybrid Swing then reuses the energy during swing acceleration.
- The Cat Adaptive Control System (ACS) valve optimizes performance by intelligently managing hydraulic flows, operators will have the power and precision they need and expect.
- No special training is required to be productive since no noticeable differences even to the most experienced operator.

### Fuel Efficiency

- Powerful, efficient Cat C9 ACERT<sup>™</sup> engine that meets U.S. EPA Tier 3/EU Stage IIIA/Japan 2006 (Tier 3) equivalent emission standards and China Nonroad Stage III emission standards.
- Fuel conscious customers can realize up to a 25% reduction in fuel consumption with no loss in productivity. Three primary contributors are the main control valve (ACS), the Swing Energy Recovery Valve (SERV), and highly efficient Electronic Standardized Programmable pump (ESP).
- High fuel efficiency was achieved with more than 300 patents for the technologies in this machine.
- The high horsepower and economy mode help manage fuel consumption.
- The fuel system is capable of running on up to B20 biodiesel fuel for increased fuel savings and flexibility.

### Versatility

- Multiple front linkage configurations meet all application needs.
- Multiple auxiliary hydraulics support a large variety of work tools.
- Specially designed and matched Cat buckets and Ground Engaging Tools (GET) maximize machine performance.
- Auxiliary tool control system maximizes performance of hammers, shears, compactors, multi-processors, and other Cat work tools.

### Safety

- The accumulator high-pressure oil is discharged after key-off to minimize risk during servicing.
- 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

- Booms and sticks are stress-relieved for added 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.
- Without using electric components, Cat standard hydraulic components are proven to be more reliable and durable.

### Serviceability

- Routine maintenance items like grease points, fluid taps, and filters are easy to reach.
- Extended service intervals lower owning and operating costs.
- Remote mounted filters reduce the time taken to service the machine.
- Pressure taps and S-O-S<sup>SM</sup> ports help maximize uptime.
- Hydraulic hybrid with standard hydraulic components is far less complicated, technicians require very little specialized training and no need for high-voltage services.

### Comfort

- Ergonomically designed cab with easy to operate controls provides a 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 42 language capability clearly displays critical information.
- Optimized low effort joystick controls reduce operator fatigue.
- Automatic climate control system maximizes comfort.

### Technology

- Cat Connect technology solutions increase production and minimize operating costs.
- LINK technologies wirelessly connect operators to the job site, providing essential business information.



# Cat® 336D2 XE/D2 L XE Hydraulic Excavator

## Engine

Engine Model	Cat C9 ACERT	
Engine Power (ISO 14396)	209 kW	281 hp
Net Power (SAE J1349/ISO 9249)	208 kW	279 hp
Bore	112 mm	4.41 in
Stroke	149 mm	5.87 in
Displacement	8.8 L	2.3 gal

- The Cat C9 ACERT engine meets U.S. EPA Tier 3/EU Stage IIIA/Japan 2006 (Tier 3) equivalent emission standards and China Nonroad Stage III emission standards.

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.

- The field-proven C9 ACERT engine can work efficiently at altitudes up to 2300 m (7,546 ft).

## Machine Weights

Standard Undercarriage	34 600 kg-	76,300 lb-
	36 300 kg	80,000 lb
Long Undercarriage	35 400 kg-	78,000 lb-
	37 200 kg	82,000 lb

- Standard/Long undercarriage minimum, R3.2 (10'6") reach stick, 600 mm (24 in) shoes, 5.35 mt (5.9 t) counterweight.

- Standard/Long undercarriage maximum, M2.55 m (8'4") mass stick, 800 mm (32 in) shoes, 5.35 mt (5.9 t) counterweight.

## Swing Mechanism

Swing Speed	8.3 rpm	
Swing Torque	109 kN·m	80,144 lbf·ft

## Drive

Gradeability	30°/70%	
Maximum Travel Speed	4.6 km/h	2.9 mph
Maximum Drawbar Pull	300 kN	67,398 lbf

## Hydraulic System

Main System – Maximum Flow (total)	562 L/min	148 gal/min
Swing System – Maximum Flow	265 L/min	70 gal/min
Maximum Pressure – Equipment/Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	28 000 kPa	4,061 psi
Pilot System – Maximum Flow	32 L/min	8 gal/min
Pilot System – Maximum Pressure	4100 kPa	595 psi
Boom Cylinder – Bore	150 mm	5.9 in
Boom Cylinder – Stroke	1440 mm	56.7 in
Stick Cylinder – Bore	170 mm	6.7 in
Stick Cylinder – Stroke	1738 mm	68.4 in
Bucket Cylinder – Bore	150 mm	5.9 in
Bucket Cylinder – Stroke	1151 mm	45.3 in

## Service Refill Capacities

Fuel Tank Capacity	620 L	164 gal
Cooling System	40 L	11 gal
Engine Oil	41 L	11 gal
Swing Drive	19 L	5 gal
Final Drive (each)	8 L	2 gal
Hydraulic System Oil Capacity (including tank)	410 L	108 gal
Hydraulic Tank Oil	175 L	46 gal

## Dimensions

Boom Option	Reach Boom 6.5 m (21'4")			
Stick Option	R2.8DB (9'2")			
Undercarriage	Standard		Long	
Shipping Height*	3640 mm	11'11"	3640 mm	11'11"
Shipping Length	11 230 mm	36'10"	11 230 mm	36'10"
Tail Swing Radius	3490 mm	11'5"	3490 mm	11'5"
Length to Center of Rollers	3610 mm	11'10"	4040 mm	13'3"
Track Length	4590 mm	15'1"	5020 mm	16'6"
Ground Clearance*	480 mm	1'7"	480 mm	1'7"
Ground Clearance**	450 mm	1'6"	450 mm	1'6"
Track Gauge	2590 mm	8'6"	2590 mm	8'6"
Transport Width				
600 mm (24 in) Shoes	3190 mm	10'6"	3190 mm	10'6"
700 mm (28 in) Shoes	3290 mm	10'10"	3290 mm	10'10"
800 mm (32 in) Shoes	3390 mm	11'1"	3390 mm	11'1"
Cab Height	3140 mm	10'4"	3140 mm	10'4"
Counterweight Clearance**	1220 mm	4'0"	1220 mm	4'0"

\*Including shoe lug height.

\*\*Without shoe lug height.

## Working Ranges

Boom Option	Reach Boom 6.5 m (21'4")	
Stick Option	R2.8DB (9'2")	
Maximum Digging Depth	7110 mm	23'4"
Maximum Reach at Ground Level	10 750 mm	35'3"
Maximum Cutting Height	10 320 mm	33'10"
Maximum Loading Height	7080 mm	23'3"
Minimum Loading Height	2980 mm	9'9"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6950 mm	22'10"
Maximum Vertical Wall Digging Depth	5400 mm	17'9"

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