

# 322

## HYDRAULIC EXCAVATOR



## SOLVING YOUR TOUGHEST CHALLENGES

Engine Power

ISO 14396

ISO 14396 (DIN)

Operating Weight

100 kW (134 hp)

136 hp (metric)

20 900 kg (46,200 lb)



# TECHNICAL SPECIFICATIONS

See [cat.com](http://cat.com) for complete specifications.

ENGINE		
Engine Model	Cat® C3.6	
Net Power – ISO 9249	96 kW	129 hp
Net Power – ISO 9249 (DIN)	131 hp (metric)	
Engine Power – ISO 14396	100 kW	134 hp
Engine Power – ISO 14396 (DIN)	136 hp (metric)	
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in³
Biodiesel Capability	Up to B20 <sup>(1)</sup>	
<ul style="list-style-type: none"><li>• Noncertified emission engine.</li><li>• Recommended for use up to 4000 m (13,120 ft) altitude with engine power derate above 3000 m (9,840 ft).</li><li>• Advertised power is tested per the specified standard in effect at the time of manufacture.</li><li>• Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.</li><li>• Engine speed at 2,000 rpm.</li></ul>		
<sup>(1)</sup> Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to: <ul style="list-style-type: none"><li>✓ 100% biodiesel FAME (fatty acid methyl ester)*</li><li>✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels</li></ul> Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details. *For use of blends higher than 20% biodiesel, consult your Cat dealer. **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.		
HYDRAULIC SYSTEM		
Main System – Maximum Flow – Implement	442 L/min	117 gal/min
Maximum Pressure – Equipment – Implement	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	25 000 kPa	3,625 psi
SWING MECHANISM		
Swing Speed	11.5 rpm	
Maximum Swing Torque	69 kN·m	50,560 lbf·ft
MACHINE WEIGHTS		
Operating Weight	20 700 kg	45,700 lb
4.25 m (13'11") Medium undercarriage, 5.7 m (18'8") Reach boom, Heavy Duty (HD) R2.5 (8'2") stick, 1.10 m³ (1.44 yd³) Severe Duty (SD) bucket, 600 mm (24") triple grouser track shoes and 4000 kg (8,820 lb) counterweight.		
Operating Weight	20 900 kg	46,200 lb
4.45 m (14'7") Long undercarriage, 5.7 m (18'8") Reach boom, HD R2.5 m (8'2") stick, 1.10 m³ (1.44 yd³) SD bucket, 600 mm (24") triple grouser track shoes and 4000 kg (8,820 lb) counterweight.		

SERVICE REFILL CAPACITIES		
Fuel Tank	370 L	97.7 gal
Cooling System	22 L	5.8 gal
Engine Oil (with filter)	11 L	2.9 gal
Swing Drive	6 L	1.6 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	218 L	57.6 gal
Hydraulic Tank	115 L	30.4 gal
DIMENSIONS		
Boom	Reach 5.7 m (18'8")	
Stick	HD Reach 2.5 m (8'2")	
Bucket	SD 1.1 m³ (1.44 yd³)	
Undercarriage	Medium 4.25 m (13'11")	
Shipping Height – Top of Cab	3360 mm	10.7 ft
Handrail Height	3030 mm	9.9 ft
Machine Length (with boom, stick, bucket installed)	9520 mm	31.4 ft
Tail Swing Radius	2830 mm	9.3 ft
Counterweight Clearance (without shoe lug height)	1030 mm	3.3 ft
Ground Clearance (without shoe lug height)	440 mm	1.4 ft
Track Length	4250 mm	13.4 ft
Track Length – Length to Center of Rollers	3450 mm	10.7 ft
Track Gauge – Undercarriage	2380 mm	7.2 ft
Transport Width – 600 mm (24") shoes	2980 mm	9.2 ft
WORKING RANGES AND FORCES		
Boom	Reach 5.7 m (18'8")	
Stick	HD Reach 2.5 m (8'2")	
Bucket	SD 1.1 m³ (1.44 yd³)	
Undercarriage	Medium 4.25 m (13'11")	
Maximum Digging Depth	6310 mm	20.7 ft
Maximum Reach at Ground Level	9470 mm	31.1ft
Maximum Cutting Height	9330 mm	30.6 ft
Maximum Loading Height	6280 mm	20.6 ft
Minimum Loading Height	2580 mm	8.5 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6120 mm	20 ft
Maximum Vertical Wall Digging Depth	5630 mm	18.5 ft
Bucket Digging Force (ISO)	128 kN	28,710 lbf
Stick Digging Force (ISO)	109 kN	24,500 lbf

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at [www.cat.com](http://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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