

# 324

## HYDRAULIC EXCAVATOR



## SOLVING YOUR TOUGHEST CHALLENGES

Engine Power

ISO 14396

112 kW (150 hp)

ISO 14396 (DIN)

152 hp (metric)

Operating Weight

22 700 kg (50,100 lb)





# TECHNICAL SPECIFICATIONS

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

ENGINE		
Engine Model	Cat® C7.1	
Net Power – ISO 9249	108 kW	145 hp
Net Power – ISO 9249 (DIN)	147 hp (metric)	
Engine Power – ISO 14396	112 kW	150 hp
Engine Power – ISO 14396 (DIN)	152 hp (metric)	
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.1 L	433 in³
Biodiesel Capability	Up to B20 <sup>(1)</sup>	
<ul style="list-style-type: none"><li>• The 324 meets UN ECE R96 Stage II emission standards, equivalent to U.S. EPA Tier 2 and EU Stage II.</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 1,700 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	416 L/min	106 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	61 kN·m	45,260 lbf·ft
MACHINE WEIGHTS		
Operating Weight	22 700 kg	50,100 lb
4.45 m (14'7") Long undercarriage, Heavy Duty (HD) Reach boom, HD R2.5 (8'2") stick, 1.3 m³ (1.7 yd³) Severe Duty (SD) bucket, 600 mm (24") triple grouser shoes and 4550 kg (10,030 lb) counterweight.		

SERVICE REFILL CAPACITIES		
Fuel Tank	370 L	97.7 gal
Cooling System	28 L	7.4 gal
Engine Oil (with filter)	18 L	4.8 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	HD Reach 5.7 m (18'8")	
Stick	HD Reach 2.5 m (8'2")	
Bucket	SD 1.3 m³ (1.70 yd³)	
Undercarriage	Long 4.45 m (14'7")	
Shipping Height – Top of Cab	3360 mm	11.0 ft
Handrail Height	3020 mm	9.9 ft
Machine Length (with boom, stick, bucket installed)	9520 mm	31.2 ft
Tail Swing Radius	2830 mm	9.3 ft
Counterweight Clearance (without shoe lug height)	1020 mm	3.3 ft
Ground Clearance (without shoe lug height)	440 mm	1.4 ft
Track Length	4450 mm	14.6 ft
Track Length – Length to Center of Rollers	3650 mm	11.9 ft
Track Gauge – Undercarriage	2380 mm	7.8 ft
Transport Width – 600 mm (24") shoes	2980 mm	9.8 ft
WORKING RANGES AND FORCES		
Boom	HD Reach 5.7 m (18'8")	
Stick	HD Reach 2.5 m (8'2")	
Bucket	SD 1.3 m³ (1.70 yd³)	
Undercarriage	Long 4.45 m (14'7")	
Maximum Digging Depth	6310 mm	20.7 ft
Maximum Reach at Ground Level	9470 mm	31.1 ft
Maximum Cutting Height	9330 mm	30.6 ft
Maximum Loading Height	6280 mm	20.6 ft
Minimum Loading Height	2590 mm	8.5 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6120 mm	20.1 ft
Maximum Vertical Wall Digging Depth	5620 mm	18.4 ft
Bucket Digging Force (ISO)	139 kN	31,250 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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