



320

Hydraulic Excavator

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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オフロード法2014年
基準適合

320 Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C4.4	
Net Power		
ISO 9249	128.5 kW	172 hp
ISO 9249 (DIN)	175 hp (metric)	
Engine Power		
ISO 14396	129.4 kW	174 hp
ISO 14396 (DIN)	176 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³
Biodiesel capability	Up to B20 ⁽¹⁾	

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842.5 ft).
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Engine speed at 2,200 rpm.

⁽¹⁾Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:

- ✓ 20% biodiesel FAME (fatty acid methyl ester)*
- ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.

Swing Mechanism

Swing Speed	11.25 rpm	
Maximum Swing Torque	82 kN·m	60,300 lb·ft

Weights

Operating Weight	20 600 kg	45,400 lb
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- Standard undercarriage, Reach boom, R2.9 (9'6") stick, GD 0.80 m³ (1.05 yd³) bucket, 600 mm (24 in) triple grouser shoes, 3.7 mt (8,200 lb) counterweight.

Maximum Operating Weight	23 900 kg	52,700 lb
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- Long undercarriage, Super Long Reach boom, Super Long Reach stick, GD 0.53 m³ (0.69 yd³) bucket, 790 mm (31 in) triple grouser shoes, 4.7 mt (10,400 lb) counterweight.

Track

Standard Track Shoes	600 mm	24 in
Optional Track Shoes	700 mm	28 in
Optional Track Shoes	790 mm	31 in
Number of Shoes (each side) – Standard Undercarriage	45	
Number of Shoes (each side) – Long Undercarriage	49	
Number of Track Rollers (each side)	8	
Number of Carrier Rollers (each side)	2	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull	205 kN	45,996 lbf

Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (214.5 × 2 pumps)	113 gal/min (56.5 × 2 pumps)
Swing System – Maximum Flow	No swing pump	
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	27 500 kPa	3,998 psi
Boom Cylinder – Bore	120 mm	5 in
Boom Cylinder – Stroke	1260 mm	50 in
Stick Cylinder – Bore	140 mm	6 in
Stick Cylinder – Stroke	1504 mm	59 in
Bucket Cylinder – Bore	120 mm	5 in
Bucket Cylinder – Stroke	1104 mm	43 in

Service Refill Capacities

Fuel Tank Capacity	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	15 L	4.0 gal
Swing Drive (each)	12 L	3.2 gal
Final Drive (each)	4 L	1.1 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal
Diesel Exhaust Fluid (DEF) Tank	39 L	10.3 gal

Standards

Brakes	ISO 10265:2008
Cab/ROPS	ISO 12117-2:2008
Cab/FOGS (optional)	ISO 10262:1998 Level II

320 Hydraulic Excavator Specifications

Operating Weights and Ground Pressures

	600 mm (24") Triple Grouser Shoes				700 mm (28") Triple Grouser Shoes				790 mm (31") Triple Grouser Shoes			
	Weight		Ground Pressure		Weight		Ground Pressure		Weight		Ground Pressure	
	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi
Base Machine Configurations												
Base Frame with Track Rollers and Carrier Rollers												
3.7 mt (8,200 lb) Counterweight + Standard Undercarriage Base Machine												
Reach Boom + R2.9 (9'6") Stick + 0.80 m ³ (1.05 yd ³) GD Bucket	20 600	45,400	47.4	6.9	20 800	45,900	41.1	6.0	21 100	46,500	36.9	5.3
4.2 mt (9,300 lb) Counterweight + Long Undercarriage Base Machine												
Reach Boom + R2.9 (9'6") Stick + 1.19 m ³ (1.56 yd ³) HD Bucket	21 800	48,100	45.3	6.6	22 200	49,000	39.6	5.7	22 500	49,600	35.5	5.2
4.7 mt (10,400 lb) Counterweight + Long Undercarriage Base Machine												
SLR Boom + SLR Stick + 0.53 m ³ (0.69 yd ³) GD Bucket	23 300	51,400	48.5	7.0	23 600	52,000	42.1	6.1	23 900	52,700	37.8	5.5

All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

320 Hydraulic Excavator Specifications

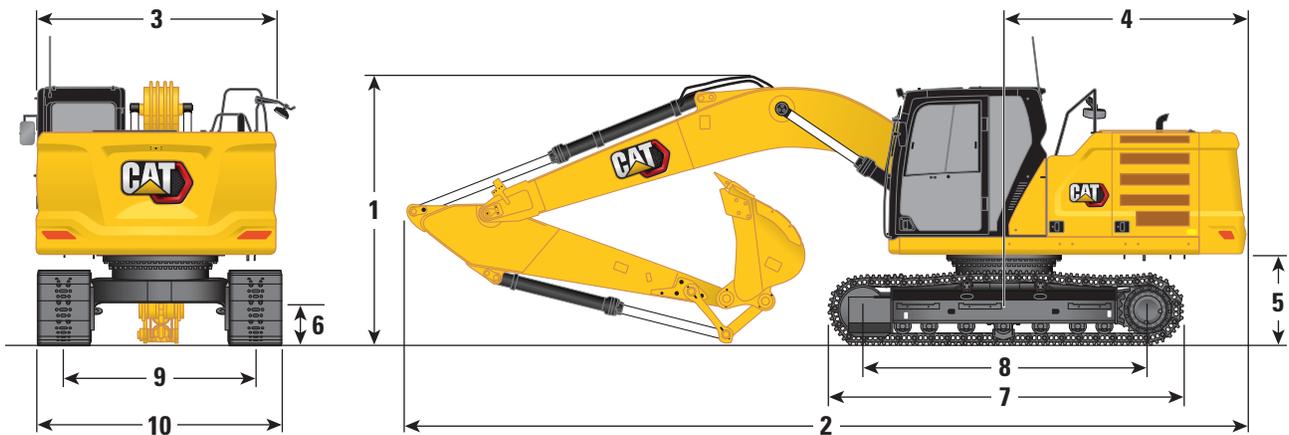
Major Component Weights

	kg	lb
Base machine (with 3.7 mt [8,200 lb] counterweight, standard swing frame, base frame with standard track rollers and standard carrier rollers for standard undercarriage – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator)	14 000	30,900
Base machine (with 4.2 mt [9,300 lb] counterweight, semi-HD swing frame, base frame with HD track rollers and standard carrier rollers for long undercarriage – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator)	14 800	32,600
Base machine (with 4.7 mt [10,400 lb] counterweight, semi-HD swing frame, base frame with HD track rollers and standard carrier rollers for long undercarriage – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator)	15 300	33,700
Track Shoes:		
600 mm (24 in) Width, 10 mm (0.39 in) Thick Triple Grouser Track Shoes for Standard Undercarriage	2580	5,700
700 mm (28 in) Width, 10 mm (0.39 in) Thick Triple Grouser Track Shoes for Standard Undercarriage	2790	6,100
790 mm (31 in) Width, 10 mm (0.39 in) Thick Triple Grouser Track Shoes for Standard Undercarriage with Step Extension	3080	6,800
790 mm (31 in) Width, 10 mm (0.39 in) Thick Triple Grouser Track Shoes for Long Undercarriage with Step Extension	3370	7,400
Two Boom Cylinders	340	700
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	700
Counterweights:		
3.7 mt (8,200 lb) Counterweight	3700	8,200
4.2 mt (9,300 lb) Counterweight	4200	9,300
4.7 mt (10,400 lb) Counterweight	4700	10,400
Swing Frames:		
Standard Swing Frame	1880	4,100
Semi-HD Swing Frame	1910	4,200
Undercarriages:		
Base Frame with Standard Track Rollers and Standard Carrier Rollers for Standard Undercarriage	4020	8,900
Base Frame with HD Track Rollers and Standard Carrier Rollers for Standard Undercarriage	4030	8,900
Base Frame with HD Track Rollers and Standard Carrier Rollers for Long Undercarriage	4390	9,700
Booms (including lines, pins, stick cylinder):		
Reach Boom 5.7 m (18'8")	1710	3,800
HD Reach Boom 5.7 m (18'8")	2010	4,400
Super Long Reach Boom 8.85 m (29'0")	2170	4,800
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R2.9B1 (9'6")	990	2,200
HD Reach Stick R2.9B1 (9'6")	1160	2,600
Super Long Reach Stick 6.28A (20'7")	1340	3,000
Buckets (without linkage):		
0.90 m ³ (1.18 yd ³) HD	840	1,900
0.80 m ³ (1.05 yd ³) HD	800	1,800
0.57 m ³ (0.75 yd ³) DC	390	900
0.90 m ³ (1.18 yd ³) GD	720	1,590
0.80 m ³ (1.05 yd ³) GD	660	1,500
0.53 m ³ (0.69 yd ³) GD	400	900
Quick Coupler:		
Pin Grabber QC	390	900

320 Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate and may vary depending on bucket selection.

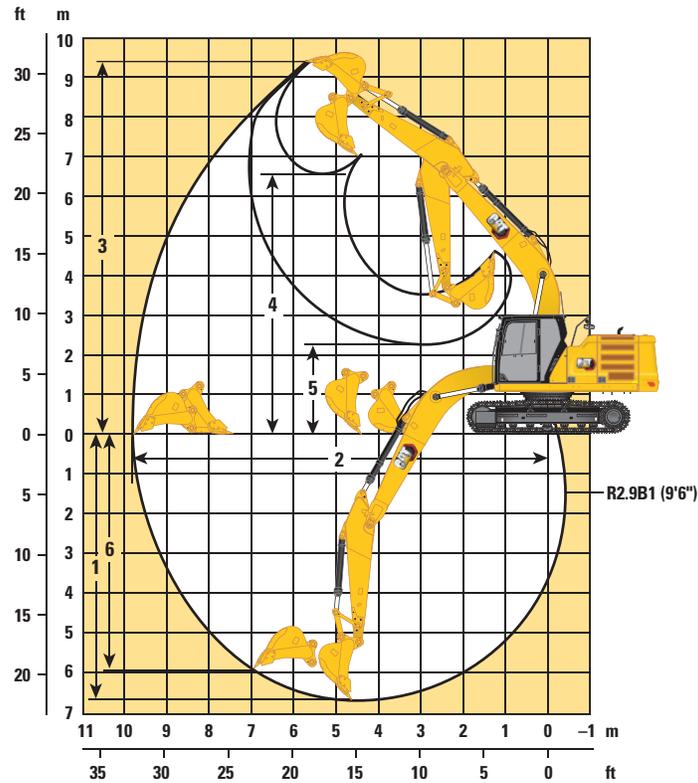


Boom Options	Reach and HD Reach Boom 5.7 m (18'8")		SLR Boom 8.85 m (29'0")		
Stick Options	Reach and HD Reach Stick 2.9B1 (9'6")		6.28A (20'7")	SLR Stick 6.28A (20'7")	
1 Machine Height:					
Top of Cab Height	2960 mm	9'9"	2960 mm	9'9"	
Top of FOGS Height	3100 mm	10'2"	3100 mm	10'2"	
Handrail Height	2950 mm	9'8"	2950 mm	9'8"	
With Boom/Stick/Bucket Installed	3050 mm	10'0"	3190 mm	10'6"	
With Boom/Stick Installed	2910 mm	9'7"	3070 mm	10'1"	
With Boom Installed	2480 mm	8'2"	2650 mm	8'8"	
2 Machine Length:					
With Boom/Stick/Bucket Installed	9520 mm	31'3"	12 750 mm	41'9"	
With Boom/Stick Installed	9500 mm	31'2"	12 760 mm	41'9"	
With Boom Installed	8450 mm	27'9"	8920 mm	29'3"	
3 Upperframe Width	2780 mm	9'1"	2780 mm	9'1"	
4 Tail Swing Radius	2830 mm	9'3"	2830 mm	9'3"	
5 Counterweight Clearance	1050 mm	3'5"	1050 mm	3'5"	
6 Ground Clearance	470 mm	1'7"	470 mm	1'7"	
7 Track Length	4070 mm	13'4"	4450 mm	14'7"	
8 Length to Center of Rollers	3270 mm	10'9"	3650 mm	12'0"	
9 Track Gauge	2200 mm	7'3"	2380 mm	7'9"	
10 Undercarriage Width:					
600 mm (24 in) Shoes	2800 mm	9'2"	2980 mm	9'9"	
700 mm (28 in) Shoes	3080 mm	10'1"	3080 mm	10'1"	
790 mm (31 in) Shoes	3170 mm	10'5"	3170 mm	10'5"	
Bucket Type	GD		DC		GD
Bucket Capacity	0.80 m ³	1.05 yd ³	0.57 m ³	0.75 yd ³	0.53 m ³ 0.69 yd ³
Bucket Tip Radius	1470 mm	4'10"	1073 mm	3'6"	1224 mm 4'0"

320 Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate and may vary depending on bucket selection.



Boom Option

Reach and HD Reach Boom
5.7 m (18'8")

Stick Option

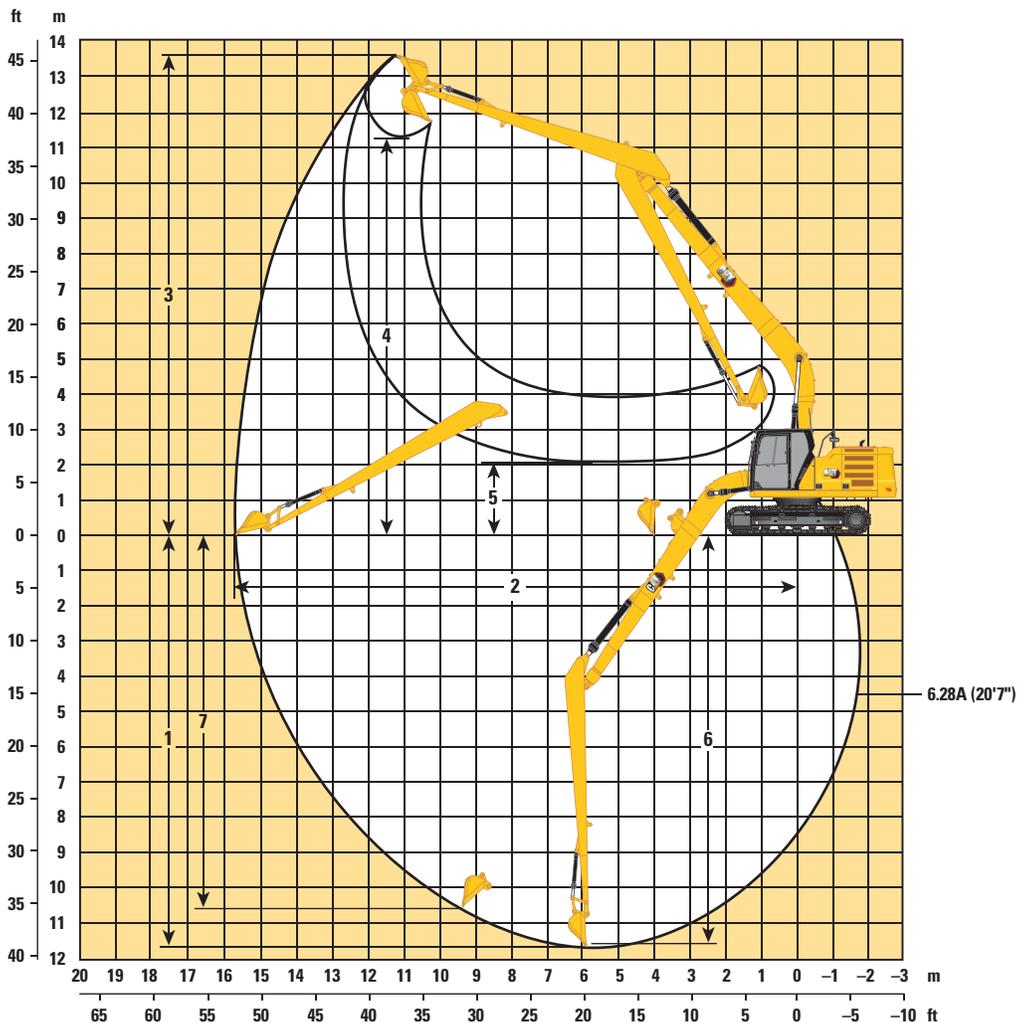
Reach and HD Reach Stick
2.9B1 (9'6")

1 Maximum Digging Depth	6620 mm	21'9"
2 Maximum Reach at Ground Line	9760 mm	32'0"
3 Maximum Cutting Height	9430 mm	30'11"
4 Maximum Loading Height	6590 mm	21'7"
5 Minimum Loading Height	2270 mm	7'5"
6 Maximum Vertical Wall Digging Depth	5960 mm	19'7"
Bucket Digging Force (ISO)	148 kN	33,245 lbf
Stick Digging Force (ISO)	108 kN	24,286 lbf
Bucket Type	GD	
Bucket Capacity	0.80 m ³	1.05 yd ³
Bucket Tip Radius	1470 mm	4'10"

320 Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate and may vary depending on bucket selection.



Boom Option

SLR Boom
8.85 m (29'0")

Stick Option

SLR Stick

6.28A (20'7")

6.28A (20'7")

	6.28A (20'7")	SLR Stick	6.28A (20'7")	
1 Maximum Digging Depth	11 540 mm	37'10"	11 690 mm	38'4"
2 Maximum Reach at Ground Line	15 570 mm	51'1"	15 730 mm	51'7"
3 Maximum Cutting Height	13 540 mm	44'5"	13 610 mm	44'8"
4 Maximum Loading Height	11 440 mm	37'6"	11 290 mm	37'0"
5 Minimum Loading Height	2240 mm	7'4"	2080 mm	6'10"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	11 440 mm	37'6"	11 590 mm	38'0"
7 Maximum Vertical Wall Digging Depth	11 020 mm	36'2"	10 560 mm	34'8"
Bucket Digging Force (ISO)	62 kN	13,841 lbf	60 kN	13,549 lbf
Stick Digging Force (ISO)	49 kN	10,950 lbf	49 kN	10,950 lbf
Bucket Type	DC		GD	
Bucket Capacity	0.57 m ³	0.75 yd ³	0.53 m ³	0.69 yd ³
Bucket Tip Radius	1070 mm	3'6"	1230 mm	4'0"

320 Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill %	3.7 mt (8,200 lb) Counterweight	4.2 mt (9,300 lb) Counterweight	4.7 mt (10,400 lb) Counterweight
		mm	in	m ³	yd ³	kg	lb		Reach Boom	HD Reach Boom	SLR Boom
									R2.9 (9'6")	HD R2.9 (9'6")	6.28A (20'7")
Pin-On (No Quick Coupler)											
General Duty – Excavation	B	950	37	0.80	1.04	688	1,517	100	●	●	
	B	1050	41	0.90	1.17	721	1,590	100	●	⊙	
	B	1150	45	1.00	1.31	753	1,660	100	⊙	⊖	
Heavy Duty – Excavation	B	950	37	0.80	1.04	798	1,760	100	●	⊙	
	B	1050	41	0.90	1.17	837	1,846	100	⊙	⊖	
Tamping	B	2200	86	0.72	0.94	868	1,913	100	●	●	
	B	2200	86	0.90	1.18	891	1,965	100	⊙	⊖	
General Duty	312, A	900	36	0.53	0.69	403	888	100			◇
Ditch Cleaning Long Reach	312, A	1200	48	0.57	0.74	386	851	100			◇
Maximum load with pin-on (payload + bucket)								kg	2505	2335	800
								lb	5,523	5,148	1,764
With Cat Pin Grabber Coupler											
General Duty – Excavation	B	950	37	0.80	1.04	688	1,517	100	⊙	⊖	
	B	1050	41	0.90	1.17	721	1,590	100	⊖	○	
	B	1150	45	1.00	1.31	753	1,660	100	○	○	
Heavy Duty – Excavation	B	950	37	0.80	1.04	798	1,760	100	⊖	○	
	B	1050	41	0.90	1.17	837	1,846	100	○	○	
Tamping	B	2200	86	0.72	0.94	868	1,913	100	⊖	⊖	
	B	2200	86	0.90	1.18	891	1,965	100	○	○	
Maximum load with coupler (payload + bucket)								kg	2098	1928	
								lb	4,625	4,250	

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

320 Hydraulic Excavator Specifications

Attachments Offering Guide

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match
 * Working range front only
 † Allowed usage on machine less than 50%
 No Match

PIN-ON ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)	3.7 mt (8,200 lb)
Boom Type		Reach	HD Reach
Stick Length		R2.9 (9'6")	HD R2.9 (9'6")
Hydraulic Hammers	H115 S	✓	✓
	H120 GC Side Mount	✓	✓
	H120 S	✓	✓
	H130 S	✓†	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)	3.7 mt (8,200 lb)
Boom Type		Reach	HD Reach
Stick Length		R2.9 (9'6")	HD R2.9 (9'6")
Hydraulic Hammers	H115 S	✓	✓
	H120 GC Side Mount	✓†	✓
	H120 S	✓†	✓
	H130 S	✓†*	

320 Standard and Optional Equipment

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
ENGINE			UNDERCARRIAGE AND STRUCTURES		
Cat® C4.4 twin turbo diesel engine	✓		600 mm (24 in) triple grouser track shoes	✓	
Three selectable power modes: Power, Smart, Eco	✓		700 mm (28 in) triple grouser track shoes		✓
Auto engine speed control	✓		790 mm (31 in) triple grouser track shoes		✓
Auto engine idle shutdown	✓		Tie-down points on base frame (ISO 15818:2017 compliant)	✓	
4500 m (14,764 ft) altitude capability with derate from 3000 m (9,842.5 ft)	✓		Center track guiding guards	✓	
46° C (115° F) high-ambient cooling capacity	✓		Segmented track guiding guards		✓
52° C (125° F) high-ambient cooling capacity		✓	Bottom guards	✓	
Starting capability for -32° C (-25° F) with jump start receptacle	✓		HD bottom guards		✓
Double element air filter with integrated pre-cleaner	✓		Swivel guard		✓
Electric fuel priming pump	✓		Travel motor guards	✓	
Reversible electric cooling fans	✓		HD travel motor guards		✓
HYDRAULIC SYSTEM			Grease lubricated track links	✓	
Boom and stick regeneration circuits	✓		3.7 mt (8,200 lb) counterweight	✓	
Electronic main control valve	✓		4.2 mt (9,300 lb) counterweight		✓
Auto warm up	✓		4.7 mt (10,400 lb) counterweight for Super Long Reach		✓
Auto two-speed travel	✓		Shovel crane package		✓
Boom and stick drift reduction valve	✓		BOOM, STICKS AND LINKAGES		
Element type main hydraulic filter	✓		5.7 m (18'8") Reach boom	✓	
Slider joysticks	✓		5.7 m (18'8") HD Reach boom		✓
Tandem type electronic main pump	✓		8.85 m (29'0") Super Long Reach boom		✓
Hammer return filter circuit		✓	2.9 m (9'6") Reach stick	✓	
Combined flow/high pressure auxiliary circuit		✓	2.9 m (9'6") HD Reach stick		✓
Medium pressure auxiliary circuit		✓	6.28 m (20'7") Super Long Reach stick		✓
Quick coupler circuit for Cat Pin Grabber		✓	Bucket linkage, B1-family without lifting eye, Cat Grade	✓	
			Bucket linkage, B1-family with lifting hook for shovel crane		✓
			Bucket linkage, A-family without lifting eye, SLR		✓

(continued on next page)

Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
ELECTRICAL SYSTEM			SERVICE AND MAINTENANCE		
1,000 CCA maintenance-free batteries (×2)	✓		Scheduled Oil Sampling (S·O·S SM) ports	✓	
Centralized electrical disconnect switch	✓		QuickEvac TM maintenance ready		✓
Programmable time-delay LED working lights	✓		Grouped location for engine oil and fuel filters	✓	
LED chassis light, LH and RH boom lights for Reach and SLR, cab lights	✓		Ground-level second dipstick for engine oil	✓	
Premium surround lighting package		✓	Radiator screen		✓
CAT TECHNOLOGY			SAFETY AND SECURITY		
Cat Product Link TM	✓		Cat Detect – People Detection		✓
Remote Flash	✓		Rearview and right-side-view cameras	✓	
Remote Troubleshoot	✓		360° visibility		✓
Cat Grade connectivity		✓	Neutral lever (lock out) for all controls	✓	
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓		Anti-skid plate and countersunk bolts on service platform	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓		Ground-level accessible secondary engine shutoff switch in cab	✓	
Cat Grade with 2D and offset memory*	✓		Swing alarm		✓
Cat Grade with Advanced 2D		✓	Boom and stick lowering control valves (shovel crane only)		✓
Cat Grade with 3D single GNSS		✓	RH handrail and handhold (ISO 2867:2011 compliant)	✓	
Cat Grade with 3D dual GNSS		✓	Signaling/warning horn	✓	
Cat Assist:*	✓		Inspection lighting		✓
– Grade Assist			Cat Command remote control		✓
– Boom Assist					
– Bucket Assist					
– Swing Assist					
Cat Payload:*	✓				
– Static weigh					
– Semiauto calibration					
– Payload/cycle information					
– USB reporting capability					
2D E-Fence:*	✓				
– E-ceiling					
– E-floor					
– E-swing					
– E-wall					
– E-cab avoidance					
Auto hammer stop	✓				
Laser catcher		✓			
Work tool recognition	✓				
Work tool tracking**	✓				

*Optional on machines equipped with a Super Long Reach boom and stick.

**Requires PL161 attachment locator on work tool and Bluetooth® receiver on machine.

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Radial lower wiper for 70/30 with washer
- LH/RH electrical pedal for tool control
- Rain protector plus cab light cover
- 75 mm (3") retractable seat belt
- Dual exit rear window
- Openable polycarbonate skylight hatch (for comfort cab)

SAFETY AND SECURITY

- Bluetooth® key fob

SERVICE AND MAINTENANCE

- Grease gun holder

ELECTRICAL

- Jump start wiring

GUARDS

- Swivel guard
- Side rubber bumper
- Falling object guard system (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front

Cab Options

	Comfort	Deluxe
ROPS	●	●
High-resolution 203 mm (8") LCD touchscreen monitor	●	X
High-resolution 254 mm (10") LCD touchscreen monitor	○	●
Auto bi-level air conditioner	●	●
Jog dial and shortcut keys for monitor control	●	●
Keyless push-to-start engine control	●	●
Height-adjustable console	X	●
Height-adjustable console, three steps with tool	●	X
Tilt-up left-side console	X	●
Fixed left-side console	●	X
Mechanical-suspension seat	●	X
Heated air-suspension seat	X	●
51 mm (2") seat belt	●	●
Monitor integrated Bluetooth radio with USB/Aux ports	●	●
12V DC outlets	●	●
Document storage	●	●
Overhead storage and rear storage with nets	X	●
Beverage holder	●	●
Cup holder	●	●
Openable two-piece front window	●	●
Rear window emergency exit	●	●
Radial wiper with washer	●	●
Openable polycarbonate skylight hatch	X	●
Openable steel hatch	●	X
LED dome light	●	●
Roof sunscreen	X	●
Roller front sunscreen	●	●
Roller rear sunscreen	○	○
Washable floor mat	●	●
Beacon ready	●	●
Cat Stick Steer	○	○
Auxiliary relay	X	○

● Standard

○ Optional

X Not available

320 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C4.4 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg (1.9 lb) of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes (1.340 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

ISO 6395 (external) – 99 dB(A)

ISO 6396 (inside cab) – 70 dB(A)

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Advanced hydraulic systems balance power and efficiency
 - Smart mode matches machine power to digging requirements automatically
 - Eco mode minimizes fuel consumption for light applications
 - Increase operating efficiency up to 45% with standard Cat technologies
 - Cut maintenance costs with extended service intervals
 - New hydraulic oil filter provides longer life with a 3,000-hour replacement interval

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	82.98%
Iron	5.36%
Nonferrous Metal	2.57%
Mixed Metal	1.57%
Mixed-Metal and Nonmetal	1.02%
Plastic	1.29%
Rubber	0.19%
Mixed Nonmetallic	0.22%
Fluid	3.18%
Other	1.62%
Uncategorized	0.00%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 97%

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

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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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Based on the Labor, Safety and Health Laws in Japan, employer of small construction equipment are required to provide specific training for all operators on machines with ship weight less than 3 metric ton. For machines greater than 3 metric ton, operator needs to obtain operator license certification from a Government approved registered training school.

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