M320
Wheel Excavator

Technical Specifications

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

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M320 Wheel Excavator Specifications

Engine

Engine Model	Cat® C4.4	
Net Power		
ISO 9249	128 kW	171 hp
ISO 9249 (DIN)	174 hp (metric)	
Engine Power		
ISO 14396	129 kW	174 hp
ISO 14396 (DIN)	176 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in³
Number of Cylinders	4	
Biodiesel Capability	Up to B20[1]	

- Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 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 engine is equipped with fan, air cleaner, Clean Emission Module (CEM) exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.
- Rated speed 2,000 rpm.

(1)Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:

- ✓ 100% biodiesel FAME (fatty acid methyl ester)*
- ✓ 100% renewable diesel, HVO (hydrotreated 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.

**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.*

Drive

Forward/Reverse		
1st Gear	10 km/h	6.2 mph
2nd Gear	35 km/h	21.7 mph
Creeper Speed		
1st Gear	5.5 km/h	3.4 mph
2nd Gear	15 km/h	9.3 mph
Drawbar Pull	104 kN	23,400 lbf
Maximum Gradeability at (20 800 kg/45,856 lb)	54 %	

Service Refill Capacities

Fuel Tank Capacity	338 L	89.3 gal
Cooling System	29 L	7.7 gal
Engine Oil	15 L	4.0 gal
Swing Drive	5.5 L	1.5 gal
Final Drive (each)	2.5 L	0.7 gal
Hydraulic System (including tank)	270 L	71.3 gal
Hydraulic Tank	151 L	39.9 gal
Rear Axle Housing (differential)	14 L	3.7 gal
Front Steering Axle (differential)	10.5 L	2.8 gal
Powershift Transmission	2.5 L	0.7 gal

Swing Mechanism

Swing Speed	11 rpm	
Maximum Swing Torque	62 kN·m	45,700 lbf·ft

Undercarriage

Wheel Base	2800 mm	110.2 in
Ground Clearance	360 mm	14.2 in
Maximum Steering Angle	35°	
Oscillation Axle Angle	±8.5°	
Minimum Turning Radius		
Outside of Tire	6750 mm	22.1 ft
End of One-Piece Boom	9285 mm	30.5 ft

Operating Weights[1]

Minimum	20 000 kg	44,100 lb
Maximum	21 500 kg	47,400 lb
Typical Configurations:		
One-Piece Boom[2]		
Rear Outrigger/Front Blade	20 500 kg	45,200 lb
Rear Blade/Front Outrigger	20 550 kg	45,300 lb

[1]Operating weight includes full fuel tank, operator, General Duty (GD) bucket and dual pneumatic tires. Weight varies depending on configuration.

[2]Typical configurations include 2.92 m (9'7") stick and 4000 kg (8,800 lb) counterweight.

Major Component Weights

Booms (including stick cylinder, pins and standard hydraulic lines):		
5.7 m (18'7") One-Piece (1PC) Boom	1650 kg	3,600 lb
Sticks (including cylinder, bucket linkage, pins and standard hydraulic lines):		
2.7 m (8'10") stick	1030 kg	2,300 lb
2.92 m (9'7") stick	1060 kg	2,300 lb
Counterweight:		
4000 kg (8,800 lb) counterweight	4000 kg	8,800 lb
Undercarriage Options (including axles, standard tires and steps):		
Rear Outrigger/Front Blade (parallel)	5870 kg	12,900 lb
Rear Blade (parallel)/Front Outrigger	5900 kg	13,000 lb
Bucket:		
Pin-On Bucket 1.19 m^3 (1.56 yd^3)	815 kg	1,800 lb
CW Bucket GD 1.19 m^3 (1.56 yd^3)	820 kg	1,800 lb
Quick Coupler:		
Pin Grabber Quick Coupler	380 kg	800 lb
CW-40 Dedicated Quick Coupler	250 kg	600 lb

Hydraulic System

Maximum Pressure – Implement Circuit		
Normal	35 000 kPa	5,080 psi
Heavy Lift	37 000 kPa	5,370 psi
Travel Circuit	35 000 kPa	5,080 psi
Maximum Pressure – Auxiliary (AUX) Circuit		
High Pressure	35 000 kPa	5,080 psi
Medium Pressure	14 000 kPa	2,030 psi
Swing Mechanism	25 000 kPa	3,630 psi
Maximum Flow		
Implements	429 L/min	113 gal/min
Travel Circuit	234 L/min	62 gal/min
Maximum Flow – Auxiliary Circuit		
High Pressure Flow (Basic)	215 L/min	57 gal/min
High Pressure Flow (Advanced)	429 L/min	113 gal/min
Medium Pressure Flow	50 L/min	13 gal/min
Swing Mechanism	212 L/min	56 gal/min
Boom Cylinder (1PC) – Bore	120 mm	5 in
Boom Cylinder (1PC) – Stroke	1260 mm	50 in
Stick Cylinder – Bore	135 mm	5 in
Stick Cylinder – Stroke	1504 mm	59 in
Bucket Cylinder – Bore	115 mm	5 in
Bucket Cylinder – Stroke	1104 mm	43 in

Tires

Standard	10.00-20 (Dual Pneumatic)

Dozer Blade

Blade Type	Parallel	
Width	2540 mm	100 in
Blade Roll-Over Height	570 mm	22.4 in
Blade Total Height	610 mm	24 in
Maximum Lowering Depth from Ground	130 mm	5.1 in
Maximum Raising Height Above Ground	495 mm	19.5 in

Vibration Levels

Maximum Hand/Arm (ISO 5349-2001)	<2.5 m/s^2	<8.2 ft/s^2
Maximum Whole Body (ISO/TR 25398:2006)	<0.5 m/s^2	<1.6 ft/s^2
Seat Transmissibility Factor (ISO 7096:2020-spectral class EM6)	<0.7	

Standards

Brakes	ISO 3450:2011
Cab/Operator Protective Guards (OPG) (optional)	ISO 10262:1998 Level II SAE J1356-2022
Cab/Sound Levels	Meets appropriate standards as listed below
Cab/Rollover Protective Structure (ROPS)	ISO 12117-2:2008

Sound Performance

External Sound ISO 6395:2008	101 dB(A)
Internal Sound ISO 6396:2008	73 dB(A)

- External Sound – The labeled spectator sound power level represents the Guaranteed Value per 2000/14/EC amended by 2005/88/EC, when properly equipped, and is measured according to the test procedures and conditions specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

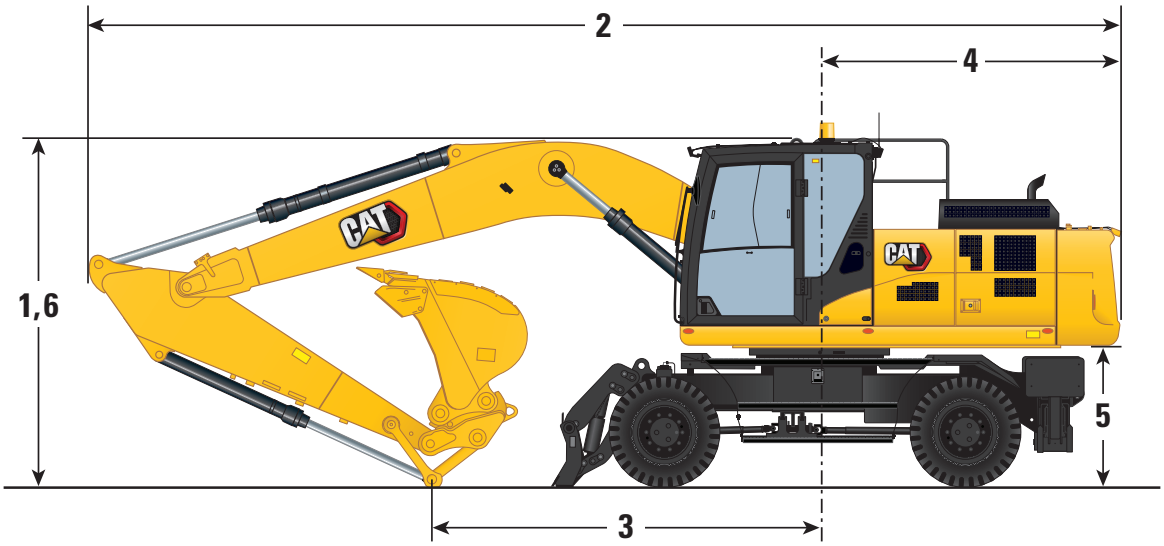
Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1 kg (2.2 lb) of refrigerant which has a CO_2 equivalent 1.216 metric tonnes (1.340 tons).

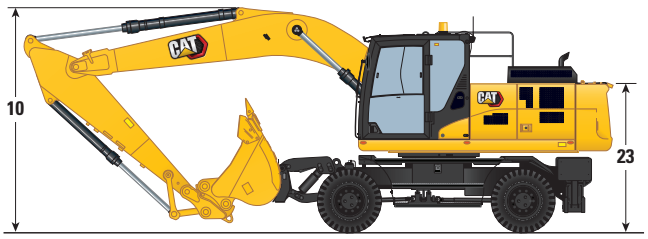
M320 Wheel Excavator Specifications

Dimensions

All Dimensions are approximate. Values are with 10.00-20 Dual Pneumatic Tires.



Boom Option	One-Piece Boom 5.7 m (18'7")	
Stick Options	**2.7 m (8'10")**	**2.92 m (9'7")**
1 Shipping Height with OPG (highest point between Boom and Cab)	3355 mm (11'0")	
2 Shipping Length	9600 mm (31'6")	
3 Support Point	2860 mm (9'5")	
4 Tail Swing Radius	2817 mm (9'3")	
5 Counterweight Clearance	1316 mm (4'4")	
6 Cab Height		
No OPG	3215 mm (10'7")	
With OPG	3355 mm (11'0")	
7 Overall Machine Width		
Width with outriggers on ground	3820 mm (12'6")	
Width with outriggers up	2540 mm (8'4")	
Width with blade	2540 mm (8'4")	
Width with outriggers fully down	3650 mm (12'0")	
23 Enclosure Height (Doors)	2396 mm (7'10")	
8 Upperframe Width	2540 mm (8'4")	
10 Height in Roading Position	3970 mm (13'0")	3965 mm (13'0")



Undercarriage Dimensions

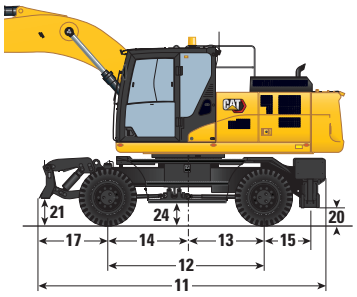
All Dimensions are approximate. Values are with 10.00-20 Dual Pneumatic Tires.

Undercarriage	Rear Outrigger/Front Blade	Rear Blade/Front Outrigger
11 Overall Undercarriage Length (Blade parallel)	5160 mm (16'11")	
12 Wheel base	2800 mm (9'2")	
13 Swing to rear axle	1350 mm (4'5")	
14 Swing to front axle	1450 mm (4'9")	
15 Rear axle to rear outrigger (mid)	830 mm (2'9")	—
16 Front axle to front outrigger (mid)	—	875 mm (2'10")
17 Rear axle to parallel blade (end)	—	1244 mm (4'1")
Front axle to front parallel blade (end)	1199 mm (3'11")	—
18 Maximum outrigger depth	120 mm (0'5")	
19 Blade width	2540 mm (8'4")	
Maximum blade depth	130 mm (0'5")	
Ground Clearance		
24 Lowest Step clearance	465 mm (1'6")	
20 Outrigger clearance	325 mm (1'1")	
21 Blade clearance (parallel)	495 mm (1'7")	
22 Axle clearance	360 mm (1'2")	

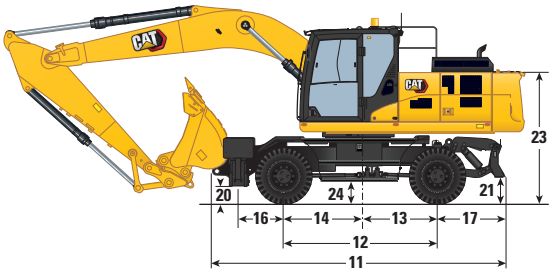
Rear Blade

Rear Outriggers Down

Rear Outrigger/Front Blade



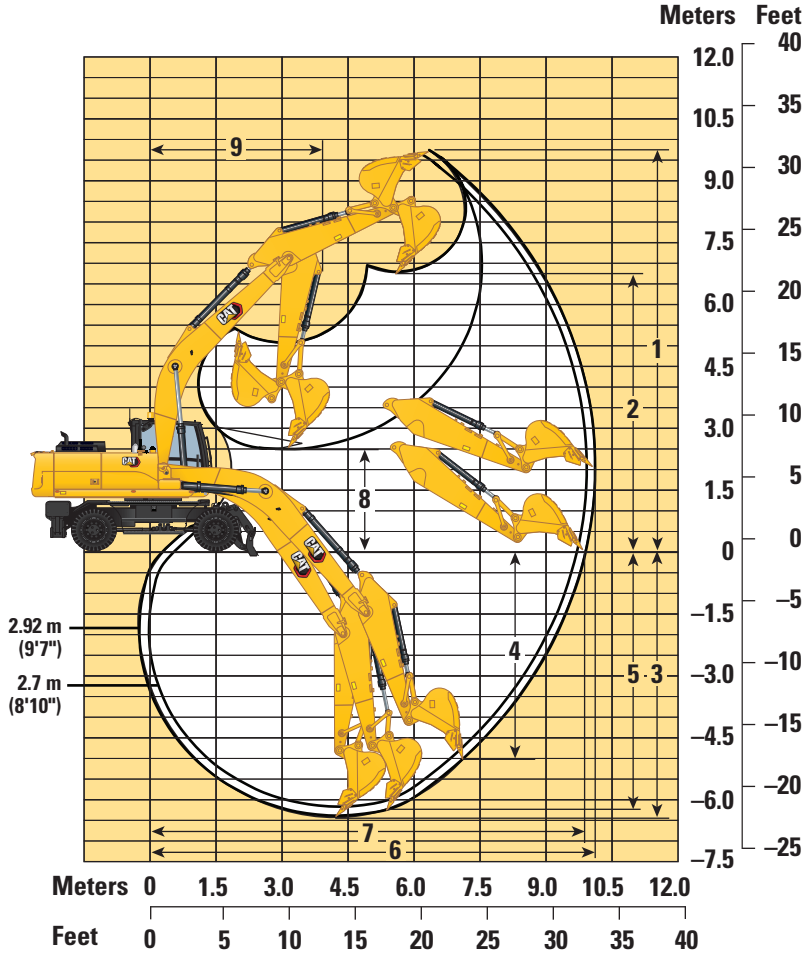
Rear Blade/Front Outrigger



M320 Wheel Excavator Specifications

Working Ranges

All Dimensions are approximate. Values are with 10.00-20 Dual Pneumatic Tires.



Boom Option	One-Piece Boom 5.7 m (18'7")	
Stick Options	**2.7 m (8'10")**	**2.92 m (9'7")**
1 Maximum Digging Height	9640 mm (31'8")	9740 mm (31'11")
2 Maximum Dump Height	6680 mm (21'11")	6780 mm (22'3")
3 Maximum Digging Depth	6210 mm (20'4")	6430 mm (21'1")
4 Maximum Vertical Wall Digging Depth	5204 mm (17'1")	5413 mm (17'9")
5 Maximum Depth Cut for 2500 mm (8'2") Level Bottom	6020 mm (19'9")	6249 mm (20'6")
6 Maximum Reach	9889 mm (32'5")	10 094 mm (33'1")
7 Maximum Reach at Ground Line	9670 mm (31'9")	9880 mm (32'5")
8 Minimum Loading Height	2334 mm (7'8")	2633 mm (8'8")
9 Minimum Front Swing Radius	3767 mm (12'4")	3748 mm (12'4")
Bucket Forces (ISO)	120 kN (26,977 lbf)	120 kN (26,977 lbf)
Stick Forces (ISO)	107 kN (24,055 lbf)	102 kN (22,931 lbf)
Bucket Type	GD	GD
Bucket Capacity	1.19 m^3 (1.56 yd^3)	1.19 m^3 (1.56 yd^3)
Bucket Tip Radius (Pin-On)	1569 mm (5'2")	1569 mm (5'2")

Lift Capacities – One-Piece Boom, 2.7 m Stick

Height and radius in meters, lift capacities in tons, work tool: none, bucket cylinder and bucket linkage installed, counterweight: 4000 kg, standard undercarriage, heavy lift function ON.

 Load at maximum reach (sticknose/bucket pin)
 Load over front
 Load over rear
 Load over side
 Load point height

	Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						m
7.5 m	Front blade – rear stabilizer – raised							*5.10	*5.10	3.75				*4.20	*4.20	3.55	6.20
	Front blade – rear stabilizer – lowered							*5.10	*5.10	*5.10				*4.20	*4.20	*4.20	
	Front stabilizer – rear blade – raised							*5.10	*5.10	3.75				*4.20	*4.20	3.55	
	Front stabilizer – rear blade – lowered							*5.10	*5.10	*5.10				*4.20	*4.20	*4.20	
6 m	Front blade – rear stabilizer – raised							*5.45	5.20	3.75				*3.90	3.75	2.65	7.28
	Front blade – rear stabilizer – lowered							*5.45	*5.45	*5.45				*3.90	*3.90	*3.90	
	Front stabilizer – rear blade – raised							*5.45	5.35	3.75				*3.90	3.85	2.65	
	Front stabilizer – rear blade – lowered							*5.45	*5.45	*5.45				*3.90	*3.90	*3.90	
4.5 m	Front blade – rear stabilizer – raised				*7.20	*7.20	5.55	5.55	5.00	3.60	3.90	3.50	2.50	3.55	3.20	2.25	7.94
	Front blade – rear stabilizer – lowered				*7.20	*7.20	*7.20	*6.05	*6.05	5.50	*5.60	*5.60	3.85	*3.85	*3.85	3.50	
	Front stabilizer – rear blade – raised				*7.20	*7.20	5.55	5.40	5.20	3.60	3.75	3.65	2.50	3.45	3.30	2.25	
	Front stabilizer – rear blade – lowered				*7.20	*7.20	*7.20	*6.05	*6.05	5.40	*5.60	*5.60	3.80	*3.85	*3.85	3.45	
3 m	Front blade – rear stabilizer – raised				8.20	7.30	5.00	5.30	4.75	3.35	3.80	3.40	2.40	3.25	2.90	2.05	8.26
	Front blade – rear stabilizer – lowered				*9.20	*9.20	8.10	*6.95	*6.95	5.25	*5.95	*5.95	3.75	*4.00	*4.00	3.20	
	Front stabilizer – rear blade – raised				7.95	7.55	5.00	5.15	4.95	3.35	3.65	3.55	2.40	3.15	3.05	2.05	
	Front stabilizer – rear blade – lowered				*9.20	*9.20	7.90	*6.95	*6.95	5.15	*5.95	*5.95	3.65	*4.00	*4.00	3.15	
1.5 m	Front blade – rear stabilizer – raised				7.70	6.85	4.60	5.05	4.55	3.15	3.70	3.30	2.30	3.15	2.85	1.95	8.30
	Front blade – rear stabilizer – lowered				*10.80	*10.80	7.60	*7.80	*7.80	5.00	*6.35	6.10	3.65	*4.25	*4.25	3.10	
	Front stabilizer – rear blade – raised				7.45	7.10	4.60	4.90	4.70	3.15	3.55	3.40	2.30	3.05	2.95	1.95	
	Front stabilizer – rear blade – lowered				*10.80	*10.80	7.40	*7.80	*7.80	4.90	*6.35	6.30	3.55	*4.25	*4.25	3.05	
0 m	Front blade – rear stabilizer – raised	*5.60	*5.60	*5.60	7.50	6.60	4.40	4.90	4.40	3.00	3.60	3.20	2.20	3.25	2.90	2.00	8.06
	Front blade – rear stabilizer – lowered	*5.60	*5.60	*5.60	*11.50	*11.50	7.40	*8.35	*8.35	4.85	*6.60	6.00	3.55	*4.80	*4.80	3.20	
	Front stabilizer – rear blade – raised	*5.60	*5.60	*5.60	7.25	6.85	4.40	4.75	4.55	3.00	3.50	3.35	2.20	3.15	3.05	2.00	
	Front stabilizer – rear blade – lowered	*5.60	*5.60	*5.60	*11.50	*11.50	7.20	*8.35	*8.35	4.75	6.55	6.20	3.50	*4.80	*4.80	3.15	
–1.5 m	Front blade – rear stabilizer – raised	*10.80	*10.80	8.05	7.45	6.60	4.40	4.90	4.35	2.95	3.60	3.20	2.20	3.60	3.20	2.20	7.51
	Front blade – rear stabilizer – lowered	*10.80	*10.80	*10.80	*11.30	*11.30	7.35	*8.35	*8.35	4.80	*5.95	*5.95	3.55	*5.80	*5.80	3.55	
	Front stabilizer – rear blade – raised	*10.80	*10.80	8.05	7.20	6.85	4.40	4.70	4.50	2.95	3.50	3.35	2.25	3.50	3.35	2.20	
	Front stabilizer – rear blade – lowered	*10.80	*10.80	*10.80	*11.30	*11.30	7.20	*8.35	*8.35	4.70	*5.95	*5.95	3.50	*5.80	*5.80	3.50	
–3 m	Front blade – rear stabilizer – raised	*14.25	13.35	8.25	7.55	6.70	4.45	4.95	4.40	3.05				4.40	3.95	2.70	6.57
	Front blade – rear stabilizer – lowered	*14.25	*14.25	*14.25	*10.20	*10.20	7.50	*7.50	*7.50	4.90				*6.55	*6.55	4.35	
	Front stabilizer – rear blade – raised	*14.25	13.80	8.25	7.35	6.95	4.50	4.80	4.60	3.05				4.25	4.10	2.70	
	Front stabilizer – rear blade – lowered	*14.25	*14.25	*14.25	*10.20	*10.20	7.30	*7.50	*7.50	4.80				*6.55	*6.55	4.25	

*Limited by hydraulic rather than tipping load.

Oscillating axle needs to be locked. Weight of all lifting accessories must be subtracted from the lifting capacities. All lift capacities calculated and rated per ISO 10567:2007. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Heavy Lift Function ON. Lifting capacities are based on the machine standing on a firm uniform supporting surface. The load point is the center line of the bucket pivot mounting pin on the stick.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M320 Wheel Excavator Specifications

Lift Capacities – One-Piece Boom, 8'10" Stick

Height and radius in meters, lift capacities in lb, work tool: none, bucket cylinder and bucket linkage installed, counterweight: 8,800 lb, standard undercarriage, heavy lift function ON.

 Load at maximum reach (sticknose/bucket pin)  Load over front  Load over rear  Load over side  Load point height

	Undercarriage configuration	10 ft			15 ft			20 ft			25 ft						ft
25 ft	Front blade – rear stabilizer – raised													*9,300	*9,300	8,100	19.95
	Front blade – rear stabilizer – lowered													*9,300	*9,300	*9,300	
	Front stabilizer – rear blade – raised													*9,300	*9,300	8,100	
	Front stabilizer – rear blade – lowered													*9,300	*9,300	*9,300	
20 ft	Front blade – rear stabilizer – raised							*12,000	11,200	8,100				*8,600	8,300	6,000	23.72
	Front blade – rear stabilizer – lowered							*12,000	*12,000	*12,000				*8,600	*8,600	*8,600	
	Front stabilizer – rear blade – raised							*12,000	11,500	8,100				*8,600	8,600	6,000	
	Front stabilizer – rear blade – lowered							*12,000	*12,000	*12,000				*8,600	*8,600	*8,600	
15 ft	Front blade – rear stabilizer – raised				*15,500	*15,500	12,000	12,000	10,800	7,700	8,400	7,500	5,400	7,800	7,100	5,000	25.95
	Front blade – rear stabilizer – lowered				*15,500	*15,500	*15,500	*13,200	*13,200	11,800	*12,200	*12,200	8,300	*8,500	*8,500	7,700	
	Front stabilizer – rear blade – raised				*15,500	*15,500	12,000	11,600	11,200	7,700	8,100	7,800	5,400	7,600	7,300	5,000	
	Front stabilizer – rear blade – lowered				*15,500	*15,500	*15,500	*13,200	*13,200	11,600	*12,200	*12,200	8,100	*8,500	*8,500	7,600	
10 ft	Front blade – rear stabilizer – raised				17,700	15,700	10,800	11,400	10,300	7,200	8,200	7,300	5,200	7,200	6,400	4,500	27.10
	Front blade – rear stabilizer – lowered				*19,800	*19,800	17,500	*15,100	*15,100	11,300	*13,000	*13,000	8,100	*8,800	*8,800	7,100	
	Front stabilizer – rear blade – raised				17,100	16,300	10,900	11,100	10,600	7,300	7,900	7,600	5,200	6,900	6,700	4,500	
	Front stabilizer – rear blade – lowered				*19,800	*19,800	17,000	*15,100	*15,100	11,100	*13,000	*13,000	7,900	*8,800	*8,800	7,000	
5 ft	Front blade – rear stabilizer – raised				16,600	14,700	9,900	10,900	9,800	6,800	7,900	7,100	4,900	7,000	6,200	4,300	27.23
	Front blade – rear stabilizer – lowered				*23,300	*23,300	16,400	*16,900	*16,900	10,800	*13,800	13,100	7,800	*9,400	*9,400	6,900	
	Front stabilizer – rear blade – raised				16,100	15,300	10,000	10,600	10,100	6,800	7,700	7,400	4,900	6,700	6,500	4,300	
	Front stabilizer – rear blade – lowered				*23,300	*23,300	16,000	*16,900	*16,900	10,600	*13,800	13,500	7,700	*9,400	*9,400	6,800	
0 ft	Front blade – rear stabilizer – raised	*12,900	*12,900	*12,900	16,100	14,300	9,500	10,600	9,500	6,500	7,800	6,900	4,800	7,200	6,400	4,400	26.44
	Front blade – rear stabilizer – lowered	*12,900	*12,900	*12,900	*24,900	*24,900	15,900	*18,100	*18,100	10,500	*14,300	12,900	7,700	*10,600	*10,600	7,100	
	Front stabilizer – rear blade – raised	*12,900	*12,900	*12,900	15,600	14,800	9,500	10,300	9,800	6,500	7,500	7,200	4,800	6,900	6,700	4,400	
	Front stabilizer – rear blade – lowered	*12,900	*12,900	*12,900	*24,900	*24,900	15,500	*18,100	*18,100	10,300	14,100	13,400	7,500	*10,600	*10,600	7,000	
–5 ft	Front blade – rear stabilizer – raised	*24,500	*24,500	17,300	16,000	14,200	9,500	10,500	9,400	6,400				7,900	7,100	4,900	24.61
	Front blade – rear stabilizer – lowered	*24,500	*24,500	*24,500	*24,500	*24,500	15,900	*18,000	*18,000	10,400				*12,800	*12,800	7,800	
	Front stabilizer – rear blade – raised	*24,500	*24,500	17,300	15,500	14,700	9,500	10,200	9,700	6,400				7,700	7,400	4,900	
	Front stabilizer – rear blade – lowered	*24,500	*24,500	*24,500	*24,500	*24,500	15,400	*18,000	*18,000	10,200				*12,800	*12,800	7,700	
–10 ft	Front blade – rear stabilizer – raised	*30,900	28,600	17,700	16,300	14,400	9,700	10,700	9,500	6,600				9,800	8,700	6,000	21.42
	Front blade – rear stabilizer – lowered	*30,900	*30,900	*30,900	*22,000	*22,000	16,100	*16,100	*16,100	10,600				*14,400	*14,400	9,600	
	Front stabilizer – rear blade – raised	*30,900	29,600	17,700	15,800	14,900	9,700	10,300	9,900	6,600				9,500	9,100	6,000	
	Front stabilizer – rear blade – lowered	*30,900	*30,900	*30,900	*22,000	*22,000	15,700	*16,100	*16,100	10,300				*14,400	*14,400	9,500	

*Limited by hydraulic rather than tipping load.

Oscillating axle needs to be locked. Weight of all lifting accessories must be subtracted from the lifting capacities. All lift capacities calculated and rated per ISO 10567:2007. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Heavy Lift Function ON. Lifting capacities are based on the machine standing on a firm uniform supporting surface. The load point is the center line of the bucket pivot mounting pin on the stick.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Lift Capacities – One-Piece Boom, 2.92 m Stick

Height and radius in meters, lift capacities in tons, work tool: none, bucket cylinder and bucket linkage installed, counterweight: 4000 kg, standard undercarriage, heavy lift function ON.

 Load at maximum reach (sticknose/bucket pin)
 Load over front
 Load over rear
 Load over side
 Load point height

	Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						m
7.5 m	Front blade – rear stabilizer – raised							*5.15	*5.15	3.80				*3.80	*3.80	3.30	6.47
	Front blade – rear stabilizer – lowered							*5.15	*5.15	*5.15				*3.80	*3.80	*3.80	
	Front stabilizer – rear blade – raised							*5.15	*5.15	3.80				*3.80	*3.80	3.30	
	Front stabilizer – rear blade – lowered							*5.15	*5.15	*5.15				*3.80	*3.80	*3.80	
6 m	Front blade – rear stabilizer – raised							*5.20	*5.20	3.75	*3.65	3.55	2.55	*3.55	3.55	2.55	7.52
	Front blade – rear stabilizer – lowered							*5.20	*5.20	*5.20	*3.65	*3.65	*3.65	*3.55	*3.55	*3.55	
	Front stabilizer – rear blade – raised							*5.20	*5.20	3.75	*3.65	*3.65	2.55	*3.55	*3.55	2.55	
	Front stabilizer – rear blade – lowered							*5.20	*5.20	*5.20	*3.65	*3.65	*3.65	*3.55	*3.55	*3.55	
4.5 m	Front blade – rear stabilizer – raised							5.60	5.05	3.60	3.90	3.50	2.50	3.40	3.05	2.15	8.15
	Front blade – rear stabilizer – lowered							*5.85	*5.85	5.50	*5.40	*5.40	3.85	*3.50	*3.50	3.35	
	Front stabilizer – rear blade – raised							5.40	5.20	3.60	3.80	3.65	2.50	3.30	3.15	2.15	
	Front stabilizer – rear blade – lowered							*5.85	*5.85	5.40	*5.40	*5.40	3.80	*3.50	*3.50	3.30	
3 m	Front blade – rear stabilizer – raised				8.25	7.35	5.05	5.30	4.80	3.35	3.80	3.40	2.40	3.10	2.80	1.95	8.47
	Front blade – rear stabilizer – lowered				*8.85	*8.85	8.15	*6.75	*6.75	5.25	*5.80	*5.80	3.75	*3.60	*3.60	3.10	
	Front stabilizer – rear blade – raised				8.00	7.60	5.05	5.15	4.95	3.35	3.65	3.55	2.40	3.00	2.90	1.95	
	Front stabilizer – rear blade – lowered				*8.85	*8.85	7.95	*6.75	*6.75	5.15	*5.80	*5.80	3.65	*3.60	*3.60	3.00	
1.5 m	Front blade – rear stabilizer – raised				7.75	6.85	4.60	5.05	4.55	3.15	3.65	3.30	2.30	3.05	2.70	1.90	8.51
	Front blade – rear stabilizer – lowered				*10.60	*10.60	7.65	*7.65	*7.65	5.00	*6.25	6.05	3.60	*3.85	*3.85	3.00	
	Front stabilizer – rear blade – raised				7.50	7.10	4.60	4.90	4.70	3.15	3.55	3.40	2.30	2.95	2.85	1.90	
	Front stabilizer – rear blade – lowered				*10.60	*10.60	7.45	*7.65	*7.65	4.90	*6.25	*6.25	3.55	*3.85	*3.85	2.95	
0 m	Front blade – rear stabilizer – raised	*5.95	*5.95	*5.95	7.50	6.60	4.40	4.90	4.40	3.00	3.60	3.20	2.20	3.10	2.80	1.90	8.27
	Front blade – rear stabilizer – lowered	*5.95	*5.95	*5.95	*11.40	*11.40	7.40	*8.25	*8.25	4.85	*6.55	5.95	3.55	*4.35	*4.35	3.10	
	Front stabilizer – rear blade – raised	*5.95	*5.95	*5.95	7.25	6.85	4.40	4.75	4.55	3.00	3.45	3.35	2.20	3.00	2.90	1.90	
	Front stabilizer – rear blade – lowered	*5.95	*5.95	*5.95	*11.40	*11.40	7.20	*8.25	*8.25	4.75	6.50	6.20	3.45	*4.35	*4.35	3.00	
–1.5 m	Front blade – rear stabilizer – raised	*10.40	*10.40	7.95	7.40	6.55	4.35	4.85	4.30	2.95	3.55	3.20	2.20	3.40	3.05	2.10	7.74
	Front blade – rear stabilizer – lowered	*10.40	*10.40	*10.40	*11.35	*11.35	7.35	*8.35	*8.35	4.80	*6.45	5.95	3.50	*5.20	*5.20	3.35	
	Front stabilizer – rear blade – raised	*10.40	*10.40	8.00	7.20	6.80	4.35	4.70	4.50	2.95	3.45	3.30	2.20	3.30	3.20	2.10	
	Front stabilizer – rear blade – lowered	*10.40	*10.40	*10.40	*11.35	*11.35	7.15	*8.35	*8.35	4.70	*6.45	6.15	3.45	*5.20	*5.20	3.30	
–3 m	Front blade – rear stabilizer – raised	*14.75	13.25	8.15	7.50	6.65	4.40	4.90	4.35	3.00				4.10	3.70	2.55	6.83
	Front blade – rear stabilizer – lowered	*14.75	*14.75	*14.75	*10.40	*10.40	7.40	*7.65	*7.65	4.85				*6.35	*6.35	4.05	
	Front stabilizer – rear blade – raised	*14.75	13.70	8.15	7.25	6.90	4.45	4.75	4.55	3.00				4.00	3.85	2.55	
	Front stabilizer – rear blade – lowered	*14.75	*14.75	14.60	*10.40	*10.40	7.25	*7.65	*7.65	4.75				*6.35	*6.35	4.00	

*Limited by hydraulic rather than tipping load.

Oscillating axle needs to be locked. Weight of all lifting accessories must be subtracted from the lifting capacities. All lift capacities calculated and rated per ISO 10567:2007. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Heavy Lift Function ON. Lifting capacities are based on the machine standing on a firm uniform supporting surface. The load point is the center line of the bucket pivot mounting pin on the stick.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M320 Wheel Excavator Specifications

Lift Capacities – One-Piece Boom, 9'7" Stick

Height and radius in meters, lift capacities in lb, work tool: none, bucket cylinder and bucket linkage installed, counterweight: 8,800 lb, standard undercarriage, heavy lift function ON.

 Load at maximum reach (sticknose/bucket pin)
 Load over front
 Load over rear
 Load over side
 Load point height

	Undercarriage configuration	10 ft			15 ft			20 ft			25 ft						ft
25 ft	Front blade – rear stabilizer – raised							*10,700	*10,700	8,100				*8,400	*8,400	7,500	20.87
	Front blade – rear stabilizer – lowered							*10,700	*10,700	*10,700				*8,400	*8,400	*8,400	
	Front stabilizer – rear blade – raised							*10,700	*10,700	8,100				*8,400	*8,400	7,500	
	Front stabilizer – rear blade – lowered							*10,700	*10,700	*10,700				*8,400	*8,400	*8,400	
20 ft	Front blade – rear stabilizer – raised							*11,400	11,200	8,100				*7,800	*7,800	5,700	24.48
	Front blade – rear stabilizer – lowered							*11,400	*11,400	*11,400				*7,800	*7,800	*7,800	
	Front stabilizer – rear blade – raised							*11,400	*11,400	8,100				*7,800	*7,800	5,700	
	Front stabilizer – rear blade – lowered							*11,400	*11,400	*11,400				*7,800	*7,800	*7,800	
15 ft	Front blade – rear stabilizer – raised							12,000	10,800	7,800	8,400	7,600	5,400	7,500	6,700	4,800	26.67
	Front blade – rear stabilizer – lowered							*12,700	*12,700	11,900	*11,800	*11,800	8,300	*7,700	*7,700	7,400	
	Front stabilizer – rear blade – raised							11,700	11,200	7,800	8,100	7,800	5,400	7,300	7,000	4,800	
	Front stabilizer – rear blade – lowered							*12,700	*12,700	11,700	*11,800	*11,800	8,100	*7,700	*7,700	7,300	
10 ft	Front blade – rear stabilizer – raised				17,800	15,900	10,900	11,500	10,300	7,300	8,200	7,300	5,100	6,900	6,200	4,300	27.76
	Front blade – rear stabilizer – lowered				*19,000	*19,000	17,600	*14,700	*14,700	11,300	*12,600	*12,600	8,000	*8,000	*8,000	6,800	
	Front stabilizer – rear blade – raised				17,300	16,400	11,000	11,100	10,700	7,300	7,900	7,600	5,200	6,700	6,400	4,300	
	Front stabilizer – rear blade – lowered				*19,000	*19,000	17,200	*14,700	*14,700	11,100	*12,600	*12,600	7,900	*8,000	*8,000	6,700	
5 ft	Front blade – rear stabilizer – raised				16,700	14,800	10,000	10,900	9,800	6,800	7,900	7,100	4,900	6,700	6,000	4,100	27.92
	Front blade – rear stabilizer – lowered				*22,800	*22,800	16,500	*16,600	*16,600	10,800	*13,600	13,100	7,800	*8,500	*8,500	6,600	
	Front stabilizer – rear blade – raised				16,200	15,300	10,000	10,600	10,100	6,800	7,600	7,300	4,900	6,500	6,200	4,100	
	Front stabilizer – rear blade – lowered				*22,800	*22,800	16,100	*16,600	*16,600	10,600	*13,600	13,500	7,700	*8,500	*8,500	6,500	
0 ft	Front blade – rear stabilizer – raised	*13,600	*13,600	*13,600	16,100	14,200	9,500	10,600	9,400	6,500	7,700	6,900	4,700	6,900	6,100	4,200	27.13
	Front blade – rear stabilizer – lowered	*13,600	*13,600	*13,600	*24,700	*24,700	15,900	*17,900	*17,900	10,400	*14,200	12,800	7,600	*9,600	*9,600	6,800	
	Front stabilizer – rear blade – raised	*13,600	*13,600	*13,600	15,600	14,800	9,500	10,200	9,800	6,500	7,500	7,200	4,800	6,600	6,400	4,200	
	Front stabilizer – rear blade – lowered	*13,600	*13,600	*13,600	*24,700	*24,700	15,500	*17,900	*17,900	10,200	14,000	13,300	7,500	*9,600	*9,600	6,700	
–5 ft	Front blade – rear stabilizer – raised	*23,600	*23,600	17,100	16,000	14,100	9,400	10,400	9,300	6,300	7,700	6,900	4,700	7,600	6,800	4,600	25.36
	Front blade – rear stabilizer – lowered	*23,600	*23,600	*23,600	*24,600	*24,600	15,800	*18,100	*18,100	10,300	*13,800	12,800	7,600	*11,500	*11,500	7,500	
	Front stabilizer – rear blade – raised	*23,600	*23,600	17,100	15,500	14,600	9,400	10,100	9,700	6,300	7,400	7,100	4,700	7,300	7,000	4,600	
	Front stabilizer – rear blade – lowered	*23,600	*23,600	*23,600	*24,600	*24,600	15,400	*18,100	*18,100	10,100	*13,800	13,300	7,400	*11,500	*11,500	7,300	
–10 ft	Front blade – rear stabilizer – raised	*31,900	28,300	17,500	16,200	14,300	9,500	10,600	9,400	6,400				9,200	8,200	5,600	22.28
	Front blade – rear stabilizer – lowered	*31,900	*31,900	*31,900	*22,500	*22,500	16,000	*16,500	*16,500	10,400				*14,000	*14,000	9,000	
	Front stabilizer – rear blade – raised	31,800	29,300	17,600	15,600	14,800	9,600	10,200	9,800	6,500				8,900	8,500	5,700	
	Front stabilizer – rear blade – lowered	*31,900	*31,900	31,300	*22,500	*22,500	15,600	*16,500	*16,500	10,200				*14,000	*14,000	8,900	

*Limited by hydraulic rather than tipping load.

Oscillating axle needs to be locked. Weight of all lifting accessories must be subtracted from the lifting capacities. All lift capacities calculated and rated per ISO 10567:2007. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Heavy Lift Function ON. Lifting capacities are based on the machine standing on a firm uniform supporting surface. The load point is the center line of the bucket pivot mounting pin on the stick.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

	Linkage	Width mm	Width in	Capacity m^3	Capacity yd^3	Weight kg	Weight lb	Fill %	Front parallel dozer (blade) and rear stabilizer raised	Front parallel dozer (blade) and rear stabilizer lowered	Front stabilizer and rear parallel dozer (blade) raised	Front stabilizer and rear parallel dozer (blade) lowered	Front parallel dozer (blade) and rear stabilizer raised	Front parallel dozer (blade) and rear stabilizer lowered	Front stabilizer and rear parallel dozer (blade) raised	Front stabilizer and rear parallel dozer (blade) lowered
									4000 kg (8,800 lb)							
									One-Piece Boom							
Pin-On (No Quick Coupler)									R2.7 m (8'10")				R2.9 m (9'7")			
609-3513 Digging – General Duty	B	1200	48	1.19	1.56	815	1,795	100	◇	●	◇	●	◇	⦿	◇	⦿
628-1574 Digging – General Duty	B	1250	49	1.20	1.57	879.3	1,938.5	100	◇	⦿	◇	●	X	⦿	X	⦿
641-8268 Digging – General Duty	B	1150	45	1.10	1.44	867.1	1,912	100	◇	●	◇	●	◇	⦿	◇	●
635-7529 Digging – General Duty	B	1150	45	1.10	1.44	842.3	1,857	100	◇	●	◇	●	◇	●	◇	●
550-9517 Digging – General Duty	B	1250	50	1.00	1.31	816	1,800	100	◇	●	◇	●	◇	●	◇	●
635-6407 Digging – General Duty	B	1200	47	1.00	1.31	789.3	1,740	100	○	●	○	●	◇	●	◇	●
550-9464 Digging – General Duty	B	600	24	0.46	0.60	552	1,216	100	●	●	●	●	●	●	●	●
Maximum load with pin-on (payload + bucket)								kg	1953	3207	1956	3326	1845	3061	1848	3164
								lb	4,306	7,070	4,312	7,333	4,068	6,748	4,074	6,975

									4000 kg (8,800 lb)							
									One-Piece Boom							
CW (No Quick Coupler)									R2.7 m (8'10")				R2.9 m (9'7")			
550-9631 Digging – General Duty	B	1200	48	1.19	1.56	823	1,814	100	◇	●	◇	●	◇	⦿	◇	⦿
Maximum load with pin-on (payload + bucket)								kg	1953	3207	1956	3326	1845	3061	1848	3164
								lb	4,306	7,070	4,312	7,333	4,068	6,748	4,074	6,975

									4000 kg (8,800 lb)							
									One-Piece Boom							
With Cat Pin Grabber Coupler									R2.7 m (8'10")				R2.9 m (9'7")			
609-3513 Digging – General Duty	B	1200	48	1.19	1.56	815	1,795	100	X	⊖	X	⦿	X	⊖	X	⊖
628-1574 Digging – General Duty	B	1250	49	1.20	1.57	879.3	1,938.5	100	X	⊖	X	⊖	X	⊖	X	⊖
641-8268 Digging – General Duty	B	1150	45	1.10	1.44	867.1	1,912	100	X	⦿	X	⦿	X	⊖	X	⊖
635-7529 Digging – General Duty	B	1150	45	1.10	1.44	842.3	1,857	100	X	⦿	X	⦿	X	⊖	X	⦿
550-9517 Digging – General Duty	B	1250	50	1.00	1.31	816	1,800	100	X	⦿	X	●	X	⦿	X	⦿
635-6407 Digging – General Duty	B	1200	47	1.00	1.31	789.3	1,740	100	X	⦿	X	●	X	⦿	X	⦿
550-9464 Digging – General Duty	B	600	24	0.46	0.60	552	1,216	100	●	●	●	●	⦿	●	⦿	●
Maximum load with coupler (payload + bucket)								kg	1528	2782	1531	2901	1420	2636	1423	2739
								lb	3,368	6,132	3,374	6,395	3,129	5,810	3,136	6,037

									4000 kg (8,800 lb)							
									One-Piece Boom							
With CW-40 Coupler									R2.7 m (8'10")				R2.9 m (9'7")			
550-9631 Digging – General Duty	B	1200	48	1.19	1.56	823	1,814	100	X	⦿	X	⦿	X	⊖	X	⦿
Maximum load with coupler (payload + bucket)								kg	1703	2957	1706	3076	1595	2811	1598	2914
								lb	3,754	6,519	3,761	6,781	3,516	6,197	3,523	6,424

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ⦿ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- ○ 1200 kg/m^3 (2,000 lb/yd^3)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)
- X Not Recommended

The above loads are in compliance with hydraulic excavator standard EN474-5:2006+A3:2013, 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.

Capacity based on ISO 7451:2007.

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.

Attachments Offering Guide – Africa, Middle-East, Eurasia

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

✓ Match

PIN-ON ATTACHMENTS

Undercarriage		Front Blade; Rear Outriggers		Front Outriggers; Rear Blade	
Counterweight		**4000 kg (8,800 lb)**		**4000 kg (8,800 lb)**	
Boom Type		**1 PC**		**1 PC**	
Stick Length		**2.7 m (8'10")**	**2.92 m (9'7")**	**2.7 m (8'10")**	**2.92 m (9'7")**
Hydraulic Hammers	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓	✓	✓
	MP318 Demolition Jaw	✓	✓	✓	✓
	MP318 Pulverizer Jaw	✓	✓	✓	✓
	MP318 Shear Jaw	✓	✓	✓	✓
	MP318 Tank Shear Jaw	✓	✓	✓	✓
	MP318 Universal Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G317 GC	✓	✓	✓	✓
	G318	✓	✓	✓	✓
	G318 WH-800	✓	✓	✓	✓
	G318 WH-1100	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓	✓	✓	✓
Pulverizers	P218 Secondary Pulverizer	✓	✓	✓	✓
	P318 Primary Pulverizer	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC15	✓	✓	✓	✓
	RC20	✓	✓	✓	✓

(continued on next page)

Attachments Offering Guide – Africa, Middle-East, Eurasia *(continued)*

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

☐ No Match	● 1800 kg/m³ (3,000 lb/yd³)	○ 1200 kg/m³ (2,000 lb/yd³)	◇ 600 kg/m³ (1,000 lb/yd³)

PIN-ON ATTACHMENTS *(continued)*

Undercarriage		**Front Blade; Rear Outriggers**		**Front Outriggers; Rear Blade**	
Counterweight		**4000 kg (8,800 lb)**		**4000 kg (8,800 lb)**	
Boom Type		**1 PC**		**1 PC**	
Stick Length		**2.7 m (8'10")**	**2.92 m (9'7")**	**2.7 m (8'10")**	**2.92 m (9'7")**
Orange Peel Grapples	GSH420-500	●	●	●	●
	GSH420-600	●	●	●	●
	GSH420-750	●	●	●	●
	GSH425-750	●	●	●	○
	GSH425-950	○	○	○	○
	GSH425-1150	○			
	GSH520-500	●	●	●	●
	GSH520-600	●	●	●	●
	GSH520-750	●	●	●	●
	GSH525-750	○	○	○	○
	GSH525-950	○			
	GSV420-400	●	●	●	●
	GSV420-500	●	●	●	●
	GSV420-600	●	●	●	●
	GSV420-750	●	●	●	●
	GSV420-1250	◇	◇	◇	◇
	GSV425-600	●	●	●	●
	GSV425-750	●	●	●	●
	GSV425-950	○	○	○	○
	GSV425-1150	○		○	
	GSV425-1550	◇	◇	◇	◇
	GSV520 GC-400	●	●	●	●
	GSV520 GC-500	●	●	●	●
	GSV520 GC-600	●	●	●	●
	GSV520 GC-750	●	●	●	●
	GSV520 GC-1250	◇	◇	◇	◇
	GSV520-400	●	●	●	●
	GSV520-500	●	●	●	●
	GSV520-600	●	●	●	●
	GSV520-750	●	●	●	●
	GSV520-1250	◇	◇	◇	◇
	GSV525-600	●	●	●	●
	GSV525-750	○	○	○	○
	GSV525-950	○		○	
	GSV525-1550	◇	◇	◇	
Clamshell Grapples	CTV15-1000	●	○	○	○
	CTV15-1200	○	○	○	○

(continued on next page)

Attachments Offering Guide – Africa, Middle-East, Eurasia *(continued)*

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

✓ Match * Working range front only No Match

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		Front Blade; Rear Outriggers		Front Outriggers; Rear Blade	
Counterweight		**4000 kg (8,800 lb)**		**4000 kg (8,800 lb)**	
Boom Type		**1 PC**		**1 PC**	
Stick Length		**2.7 m (8'10")**	**2.92 m (9'7")**	**2.7 m (8'10")**	**2.92 m (9'7")**
Hydraulic Hammers	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓	✓	✓
	MP318 Demolition Jaw	✓	✓	✓	✓
	MP318 Pulverizer Jaw	✓	✓*	✓	✓*
	MP318 Shear Jaw	✓	✓	✓	✓
	MP318 Tank Shear Jaw	✓	✓*	✓	✓*
	MP318 Universal Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G317 GC	✓	✓	✓	✓
	G318	✓	✓	✓	✓
	G318 WH-800	✓	✓	✓	✓
	G318 WH-1100	✓	✓*	✓*	✓*
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓*		✓*	
Pulverizers	P218 Secondary Pulverizer	✓	✓	✓	✓*
	P318 Primary Pulverizer	✓	✓*	✓	✓*
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC15	✓	✓	✓	✓
	RC20	✓	✓	✓	✓

(continued on next page)

Attachments Offering Guide – Africa, Middle-East, Eurasia *(continued)*

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

✓ Match

* Working range front only

CW-40s DEDICATED COUPLER ATTACHMENTS

Undercarriage		**Front Blade; Rear Outriggers**		**Front Outriggers; Rear Blade**	
Counterweight		**4000 kg (8,800 lb)**		**4000 kg (8,800 lb)**	
Boom Type		**1 PC**		**1 PC**	
Stick Length		**2.7 m (8'10")**	**2.92 m (9'7")**	**2.7 m (8'10")**	**2.92 m (9'7")**
Hydraulic Hammers	H115 S	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓	✓	✓
	MP318 Demolition Jaw	✓	✓	✓	✓
	MP318 Pulverizer Jaw	✓	✓	✓	✓
	MP318 Shear Jaw	✓	✓	✓	✓
	MP318 Tank Shear Jaw	✓	✓	✓	✓
	MP318 Universal Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G317 GC	✓	✓	✓	✓
	G318	✓	✓	✓	✓
	G318 WH-800	✓	✓	✓	✓
	G318 WH-1100	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓	✓	✓	✓*
Pulverizers	P218 Secondary Pulverizer	✓	✓	✓	✓
	P318 Primary Pulverizer	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC15	✓	✓	✓	✓
	RC20	✓	✓	✓	✓

(continued on next page)

M320 Wheel Excavator Specifications

Attachments Offering Guide – Africa, Middle-East, Eurasia *(continued)*

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

✓ Match

* Working range front only

CW-40 DEDICATED COUPLER ATTACHMENTS

Undercarriage		**Front Blade; Rear Outriggers**		**Front Outriggers; Rear Blade**	
Counterweight		**4000 kg (8,800 lb)**		**4000 kg (8,800 lb)**	
Boom Type		**1 PC**		**1 PC**	
Stick Length		**2.7 m (8'10")**	**2.92 m (9'7")**	**2.7 m (8'10")**	**2.92 m (9'7")**
Hydraulic Hammers	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓	✓	✓
	MP318 Demolition Jaw	✓	✓	✓	✓
	MP318 Pulverizer Jaw	✓	✓	✓	✓
	MP318 Shear Jaw	✓	✓	✓	✓
	MP318 Tank Shear Jaw	✓	✓	✓	✓
	MP318 Universal Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G317 GC	✓	✓	✓	✓
	G317 GC Fixed CAN	✓	✓	✓	✓
	G318	✓	✓	✓	✓
	G318 Fixed CAN	✓	✓	✓	✓
	G318 WH-800	✓	✓	✓	✓
	G318 WH-1100	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓	✓	✓	✓*
Pulverizers	P218 Secondary Pulverizer	✓	✓	✓	✓
	P318 Primary Pulverizer	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC15	✓	✓	✓	✓
	RC20	✓	✓	✓	✓

Attachments Offering Guide – South America

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

✓ Match | No Match | ● 1800 kg/m³ (3,000 lb/yd³) | ○ 1200 kg/m³ (2,000 lb/yd³)

PIN-ON ATTACHMENTS

Undercarriage		Front Blade; Rear Outriggers		Front Outriggers; Rear Blade	
Counterweight		**4000 kg (8,800 lb)**		**4000 kg (8,800 lb)**	
Boom Type		**1 PC**		**1 PC**	
Stick Length		**2.7 m (8'10")**	**2.92 m (9'7")**	**2.7 m (8'10")**	**2.92 m (9'7")**
Hydraulic Hammers	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC Side Mount	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓	✓	✓
	MP318 Demolition Jaw	✓	✓	✓	✓
	MP318 Pulverizer Jaw	✓	✓	✓	✓
	MP318 Shear Jaw	✓	✓	✓	✓
	MP318 Tank Shear Jaw	✓	✓	✓	✓
	MP318 Universal Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G318	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓	✓	✓	✓
Pulverizers	P218 Secondary Pulverizer	✓	✓	✓	✓
	P318 Primary Pulverizer	✓	✓	✓	✓
Mulchers	HM4015	✓	✓	✓	✓
	HM4815	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC15	✓	✓	✓	✓
	RC20	✓	✓	✓	✓
Orange Peel Grapples	GSH420-500	●	●	●	●
	GSH420-600	●	●	●	●
	GSH420-750	●	●	●	●
	GSH425-750	●	●	●	○
	GSH425-950	○	○	○	○
	GSH425-1150	○			
	GSH520-500	●	●	●	●
	GSH520-600	●	●	●	●
	GSH520-750	●	●	●	●
	GSH525-750	○	○	○	○
	GSH525-950	○			

(continued on next page)

Attachments Offering Guide – South America *(continued)*

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

✓ Match | * Working range front only | No Match

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		Front Blade; Rear Outriggers		Front Outriggers; Rear Blade	
Counterweight		**4000 kg (8,800 lb)**		**4000 kg (8,800 lb)**	
Boom Type		**1 PC**		**1 PC**	
Stick Length		**2.7 m (8'10")**	**2.92 m (9'7")**	**2.7 m (8'10")**	**2.92 m (9'7")**
Hydraulic Hammers	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC Side Mount	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓	✓	✓
	MP318 Demolition Jaw	✓	✓	✓	✓
	MP318 Pulverizer Jaw	✓	✓*	✓	✓*
	MP318 Shear Jaw	✓	✓	✓	✓
	MP318 Tank Shear Jaw	✓	✓*	✓	✓*
	MP318 Universal Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G318	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓*		✓*	
Pulverizers	P218 Secondary Pulverizer	✓	✓	✓	✓*
	P318 Primary Pulverizer	✓	✓*	✓	✓*
Mulchers	HM4015	✓	✓	✓	✓
	HM4815	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC15	✓	✓	✓	✓
	RC20	✓	✓	✓	✓

(continued on next page)

Attachments Offering Guide – Southeast Asia

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

✓ Match

PIN-ON ATTACHMENTS

Undercarriage		Front Blade; Rear Outriggers		Front Outriggers; Rear Blade	
Counterweight		**4000 kg (8,800 lb)**		**4000 kg (8,800 lb)**	
Boom Type		**1 PC**		**1 PC**	
Stick Length		**2.7 m (8'10")**	**2.92 m (9'7")**	**2.7 m (8'10")**	**2.92 m (9'7")**
Hydraulic Hammers	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC15	✓	✓	✓	✓
	RC20	✓	✓	✓	✓

M320 Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
BOOM, STICKS AND LINKAGES		
5.7 m (18'7") One-Piece boom	✓	
2.7 m (8'10") stick		✓
2.92 m (9'7") stick		✓
Bucket linkage, B1-family with lifting eye		✓
Bucket linkage, B1-family without lifting eye		✓
TECHNOLOGY		
VisionLink™	✓	
ELECTRICAL SYSTEM		
LED lights on boom and cab	✓	
Roading and indicator lights, front and rear	✓	
Electronic joystick pattern changer	✓	
One-slider joysticks	✓	
Maintenance free batteries	✓	
Centralized electrical disconnect switch	✓	
Electrical refueling pump		✓
ENGINE		
Cat C4.4 double turbo diesel engine	✓	
Power mode selector	✓	
One-touch low idle with automatic engine speed control	✓	
Automatic engine speed control and idle shutdown	✓	
Work up to 3000 m (9,842 ft) above sea level without engine power de-rating	✓	
52°C (125°F) high-ambient cooling capacity	✓	
Cold starting capability for –18°C (0°F)	✓	
Cold starting capability for –25°C (–13°F)		✓
Sealed double element air filter with integrated pre-cleaner	✓	
Electric fuel priming pump	✓	
Two-stage fuel filtration system with water separator and indicator	✓	
Variable speed fan	✓	
Radiator screens		✓

	Standard	Optional
HYDRAULIC SYSTEM		
Boom and stick drift reduction valves	✓	
Boom and stick regeneration circuits	✓	
Overload warning	✓	
Electronic main control valve	✓	
Auto hydraulic oil warm up	✓	
Element type main hydraulic filter	✓	
Tandem type electronic main pump	✓	
Tool control (two pump, one/two way high-pressure flow)		✓
Basic tool control (one pump, one way high-pressure flow)		✓
Hammer lines		✓
Hammer return filter circuit		✓
Quick coupler circuit for Cat Pin Grabber and CW-type coupler		✓
Automatic swing brake	✓	
Adjustable hydraulic aggressiveness	✓	
Medium pressure auxiliary circuit (one/two way medium-pressure flow)		✓
Boom/stick lowering check valves		✓
SmartBoom™		✓
Auto heavy lift	✓	

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
SAFETY AND SECURITY		
Rearview camera	✓	
Rear and right-side-view cameras with LED lights		✓
Travel alarm		✓
Signal/warning horn	✓	
Rotating beacon on cab		✓
Auto hammer stop	✓	
Right-hand mirror	✓	
Right-side additional handrail and hand hold		✓
Lockable disconnect switch	✓	
Neutral lever (lock out) for all controls	✓	
Operator Protective Guards (OPG)		✓
Ground-level accessible secondary engine shutoff switch in cab	✓	
Anti-skid plate and countersunk bolts on service platform	✓	
SERVICE AND MAINTENANCE		
Scheduled Oil Sampling (S·O·S[SM]) ports	✓	
Engine oil remote drain		✓

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
All wheel drive	✓	
Automatic brake/axle lock	✓	
Creeper speed	✓	
Electronic swing and travel lock	✓	
Heavy-duty axles, advanced disc brake system and travel motor, adjustable braking force	✓	
Oscillating front axle, lockable, with remote greasing point	✓	
Tires, 10.00-20 16 PR, dual pneumatic tires	✓	
Steps with left-hand toolbox in undercarriage		✓
Steps with toolbox and steel fenders in undercarriage (left and right)		✓
Steps with toolbox in undercarriage (left and right) without fender		✓
Two-piece drive shaft	✓	
Two speed hydrostatic transmission	✓	
Rear blade (Parallel)/front outrigger undercarriage		✓
Rear outrigger/front blade (Parallel) undercarriage		✓
Counterweight 4000 kg (8,800 lb)	✓	
Transmission shaft guard		✓

M320 Cab Options

Cab Options

	Comfort
Sound-suppressed ROPS cab	●
Mechanical suspension seat	●
High-resolution 203 mm (8") LCD touchscreen monitor	○
High-resolution 254 mm (10") LCD touchscreen monitor	○
Manually adjustable mirrors	●
Automatic bi-level air conditioner	●
Jog dial and shortcut keys for monitor control	●
Keyless push-to-start engine control	●
51 mm (2") seat belt	●
Bluetooth® integrated radio with USB ports and speakers	○
Digital Audio Broadcasting (DAB) radio with USB Mircophone AUX	○
Two 12V DC outlets	●
Cup and bottle holders	●
Openable two-piece front window (Upper front laminated, lower front tempered)	●
Openable steel hatch	●
Radial wiper with washer	●
LED dome lights	●
Rear window emergency exit	●
Washable floor mat	●
Beacon ready	●
OPG ready	●
LED cab lights	●
Rainvisor	○
Sunsceen	●

● Standard

○ Optional

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

GUARDS

- Operator Protective Guards
  (not compatible with rain protector)

M320 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

- Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:
  - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrotreated 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.

**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.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1 kg (2.2 lb) of refrigerant which has a CO_2 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 6395:2008 (external) – 101 dB(A)

ISO 6396:2008 (inside cab) – 73 dB(A)

- External Sound – The labeled spectator sound power level represents the Guaranteed Value per 2000/14/EC amended by 2005/88/EC, when properly equipped, and is measured according to the test procedures and conditions specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

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 help balance power and efficiency
  - Eco mode helps minimize fuel consumption for light applications
  - One-touch low idle with automatic engine speed control
  - Extended service intervals help decrease maintenance costs

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

AEXQ4226-00 (09-2025)
Build Number: 05D
(Afr-ME, Eurasia,
S Am, SE Asia)

CAT®