

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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Engine		
Engine Model	Cat® C7.1	
Net Power		
ISO 9249	117 kW	157 hp
ISO 9249 (DIN)	159 hp (me	etric)
Engine Power		
ISO 14396	118 kW	158 hp
ISO 14396 (DIN)	160 hp (me	tric)
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³
Biodiesel capability	Up to B200	1)

- Meets Brazil MAR-1, 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 the engine is equipped with fan, air intake system, exhaust system and alternator.
- Engine speed at 1,800 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 (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.

*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.

Swing Mechanism		
Swing Speed	11.25 rpm	
Maximum Swing Torque	82 kN·m	60,300 lbf·ft
Weights		
Operating Weight	21 600 kg	47,600 lb

Reach boom 5.7 m (18'8"), R2.9 (9'6") stick, 1.19 m³ (1.56 yd³)
Heavy Duty (HD) bucket, 600 mm (24 in) triple grouser shoes,
and 4.2 mt (9,260 lb) counterweight.

Track		
Standard Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	700 mm	28 in
Number of Shoes (each side)	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 – Long Undercarriage	205 kN	45,996 lbf
Hydraulic System		

Hydraulic System		
Main System – Maximum Flow – Implement	429 L/min (215 × 2 pumps)	113 gal/min (57 × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Heavy Lift Mode/Auto Dig Boost	38 000 kPa	5,510 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	25 L	6.6 gal
Swing Drive	6 L	1.6 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

Standards	
Brakes	ISO 10265:2008
Cab/Rollover Protective Structure (ROPS)	ISO 12117-2:2008
Operator Protective Guards (OPG) (optional)	ISO 10262:1998 Level II

Sound Performance		
ISO 6395:2008 (external)	100 dB(A)	
ISO 6396:2008 (inside cab)	70 dB(A)	

• 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.

Operating Weights and Ground Pressures

	600 mm (24 in)	Triple Grouser	Shoes	700 mm	(28 in) Tripl	e Grouser S	Shoes
	Weight	Ground	Pressure	We	ight	Ground P	ressure
Base Machine Configurations							
Base Frame with Track Rollers and Carrier Rollers							
4.2 mt (9,260 lb) Counterweight + Long Undercarriage B	ase Machine						
Reach Boom + R2.9 (9'6") Stick + 1.19 m³ (1.56 yd³) HD Bucket	21 600 kg 47,60	0 lb 44.9 kPa	6.5 psi	22 000 kg	48,500 lb	39.2 kPa	5.7 psi
HD Reach Boom + HD R2.9 (9'6") Stick + 1.19 m ³ (1.56 yd ³) HD Bucket	21 800 kg 48,10	0 lb 45.3 kPa	6.6 psi	22 200 kg	49,000 lb	39.6 kPa	5.7 psi

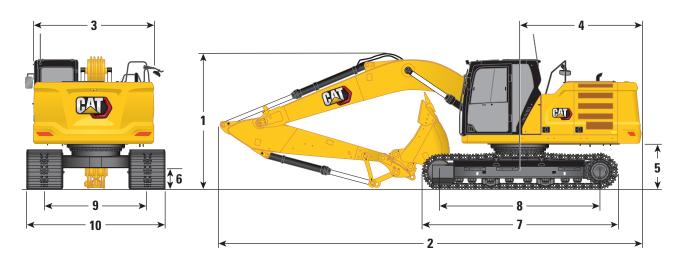
All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

Major Component Weights

	kg	lb
Base Machine (with 4.2 mt [9,260 lb] counterweight, semi-HD swing frame, standard 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)	14 540	32,050
Track Shoes:		
600 mm (24 in) Width, 10 mm (0.39 in) Thick Triple Grouser Track Shoes	2690	5,930
700 mm (28 in) Width, 10 mm (0.39 in) Thick Triple Grouser Track Shoes	3050	6,720
Two Boom Cylinders	340	750
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	680
Counterweight:		
4.2 mt (9,260 lb) Counterweight	4200	9,260
Swing Frame:		
Semi-HD Swing Frame	1910	4,210
Undercarriage:		
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers	4390	9,680
Booms (including lines, pins, stick cylinder):		
Reach Boom 5.7 m (18'8")	1710	3,770
HD Reach Boom 5.7 m (18'8")	2010	4,400
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R2.9B1 (9'6")	1080	2,400
HD Reach Stick R2.9B1 (9'6")	1110	2,400
Bucket (without linkage):		
1.19 m³ (1.56 yd³) HD	940	2,080
Quick Couplers (QC):		
Universal QC	230	500
Pin Grabber QC	390	860

Dimensions

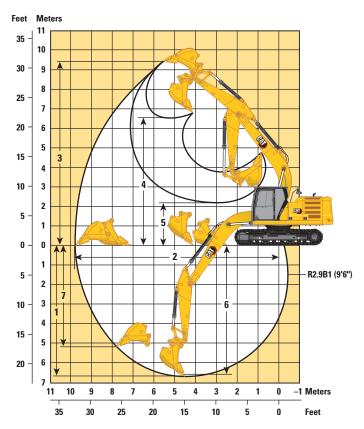
All dimensions are approximate and may vary depending on bucket selection.



Boom Options	Reach/HD R 5.7 m (
Stick Options	Reach/HD R R2.9B1	
1 Machine Height:		
Top of Cab Height	2960 mm	9'9"
Top of GNSS Antenna Height (if installed)	3000 mm	9'10"
Top of OPG Height	3100 mm	10'2"
Handrail Height	2950 mm	9'8"
With Boom/Stick/Bucket Installed	3160 mm	10'4"
With Boom/Stick Installed	2910 mm	9'7"
With Boom Installed	2480 mm	8'2"
2 Machine Length:		
With Boom/Stick/Bucket Installed	9530 mm	31'3"
With Boom/Stick Installed	9500 mm	31'2"
With Boom Installed	8450 mm	27'9"
3 Upperframe Width	2780 mm	9'1"
4 Tail Swing Radius	2830 mm	9'3"
5 Counterweight Clearance	1050 mm	3'5"
6 Ground Clearance	470 mm	1'7"
7 Track Length	4450 mm	14'7"
8 Length to Center of Rollers	3650 mm	12'0"
9 Track Gauge	2380 mm	7'9"
10 Undercarriage Width:		
600 mm (24 in) Shoes	2980 mm	9'9"
700 mm (28 in) Shoes	3080 mm	10'1"
Bucket Type	HD	
Bucket Capacity	1.19 m³	1.56 yd³
Bucket Tip Radius	1570 mm	5'2"

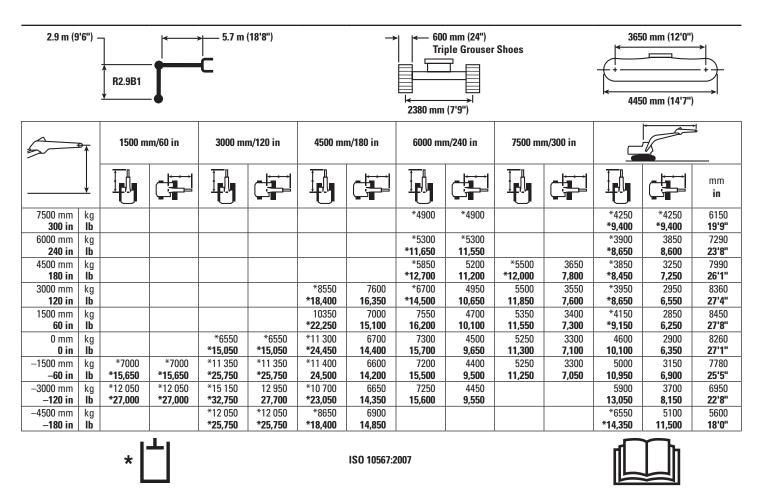
Working Ranges

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



Boom Option	•	Reach/HD Reach Boom 5.7 m (18'8")	
Stick Option	·	Reach Stick 1 (9'6")	
1 Maximum Digging Depth	6720 mm	22'1"	
2 Maximum Reach at Ground Line	9860 mm	32'4"	
3 Maximum Cutting Height	9370 mm	30'9"	
4 Maximum Loading Height	6490 mm	21'3"	
5 Minimum Loading Height	2170 mm	7'1"	
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm	21'6"	
7 Maximum Vertical Wall Digging Depth	5190 mm	17'0"	
Bucket Digging Force (ISO)	150 kN	33,811 lbf	
Stick Digging Force (ISO)	106 kN	23,911 lbf	
Bucket Digging Force (ISO) – Auto Dig Boost	163 kN	36,709 lbf	
Stick Digging Force (ISO) – Auto Dig Boost	115 kN	25,960 lbf	
Bucket Type	H	ID	
Bucket Capacity	1.19 m³	1.56 yd ³	
Bucket Tip Radius	1570 mm	5'2"	

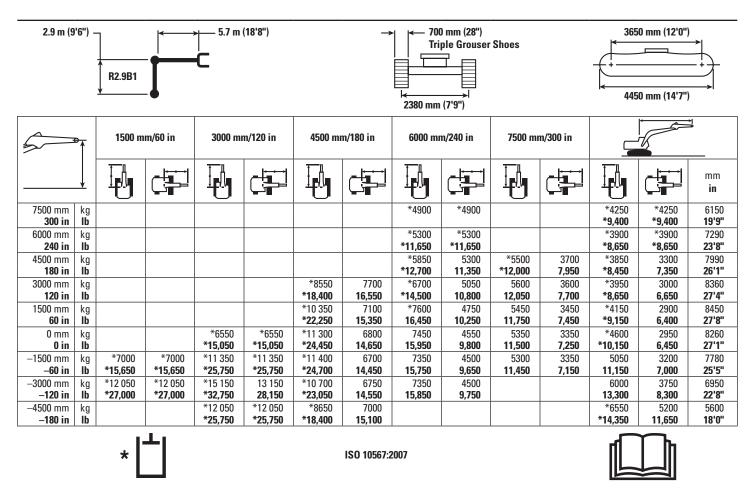
Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,260 lb) – without Bucket



^{*}Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

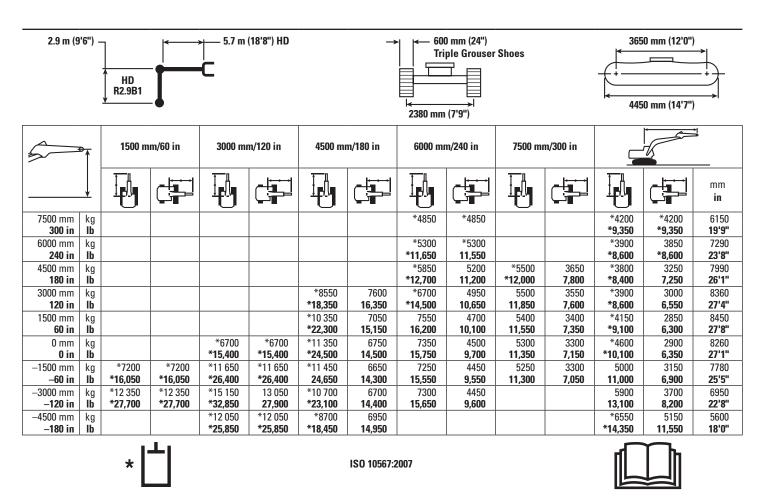
Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,260 lb) – without Bucket



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Lift capacity stays with ±5% for all available track shoes.

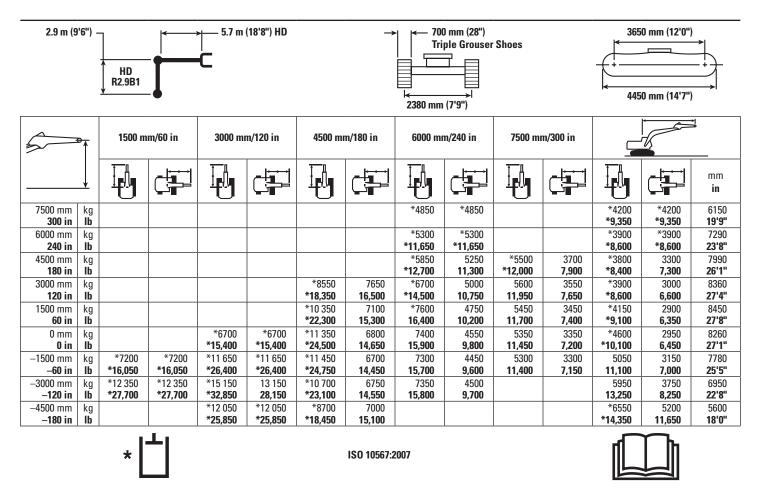
HD Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,260 lb) – without Bucket



^{*}Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

HD Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,260 lb) – without Bucket



^{*}Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Bucket Specifications and Compatibility

										(9,260 lb) erweight
		Wi	dth	Capa	acity	Wei	ight	Fill	Reach Boom	HD Reach Boom
	Linkage	mm	in	m³	yd³	kg	lb	%	R2.9 (9'6")	HD R2.9 (9'6")
Pin-On (No Quick Coupler)										
Utility Duty	В	600	24	0.39	0.51	503	1,108	100	•	•
	В	900	36	0.65	0.84	613	1,351	100	•	•
	В	1200	48	0.95	1.24	733	1,615	100	•	•
General Duty	В	600	24	0.46	0.60	550	1,212	100	•	•
	В	750	30	0.64	0.84	621	1,368	100	•	•
	В	1000	39	0.93	1.22	717	1,580	100	•	•
	В	1050	42	1.00	1.31	737	1,624	100	•	•
	В	1050	42	1.00	1.31	737	1,624	100	•	•
	В	1200	48	1.19	1.56	807	1,778	100	•	•
	В	1400	55	1.43	1.87	874	1,926	100	Х	Θ
	В	1500	60	1.58	2.06	914	2,014	100	Х	0
Heavy Duty	В	600	24	0.46	0.61	635	1,400	100	•	•
	В	750	30	0.64	0.84	737	1,625	100	•	•
	В	900	36	0.81	1.06	818	1,804	100	•	•
	В	1050	42	1.00	1.31	872	1,923	100	•	•
	В	1200	48	1.19	1.56	929	2,048	100	•	Θ
	В	1350	54	1.38	1.81	1036	2,284	100	Х	0
	В	1500	60	1.58	2.06	1094	2,412	100	Х	0
Cleanup	В	1800	72	1.60	2.09	979	2,157	100	0	0
	В	2000	78	1.76	2.31	1045	2,303	100	0	0
	В	2000	78	1.76	2.31	1045	2,303	100	0	0
Ditch Cleaning Tilt	В	1800	72	1.40	1.83	1105	2,437	100	0	0
				lavimum las	d with nin	on (payload	ı buckatl	kg	3010	2925
			IV	iaxiiiiuiii 106	iu willi pill-	uii (payidad	+ DUCKEL)	lb	6,636	6,449

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.

Bucket weight with General Duty tips.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- 1800 kg/m³ (3,000 lb/yd³)
- → 1500 kg/m³ (2,500 lb/yd³)
- O 1200 kg/m³ (2,000 lb/yd³)
- ♦ 900 kg/m³ (1,500 lb/yd³)
- X Not Recommended

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.

(continued on next page)

Bucket Specifications and Compatibility (continued)

										(9,260 lb) erweight
		Wi	dth	Cap	acity	We	ight	Fill	Reach Boom	HD Reach Boom
	Linkage	mm	in	m³	yd³	kg	lb	%	R2.9 (9'6")	HD R2.9 (9'6")
With Cat Pin Grabber Coupler	r								_	
Utility Duty	В	600	24	0.39	0.51	503	1,108	100	•	•
	В	900	36	0.65	0.84	613	1,351	100	•	•
	В	1200	48	0.95	1.24	733	1,615	100	•	•
General Duty	В	600	24	0.46	0.60	550	1,212	100	•	•
	В	750	30	0.64	0.84	621	1,368	100	•	•
	В	1000	39	0.93	1.22	717	1,580	100	•	•
	В	1050	42	1.00	1.31	737	1,624	100	•	•
	В	1050	42	1.00	1.31	737	1,624	100	•	•
	В	1200	48	1.19	1.56	807	1,778	100	Θ	0
	В	1400	55	1.43	1.87	874	1,926	100	0	0
	В	1500	60	1.58	2.06	914	2,014	100	\Diamond	♦
Heavy Duty	В	600	24	0.46	0.61	635	1,400	100	•	•
	В	750	30	0.64	0.84	737	1,625	100	•	•
	В	900	36	0.81	1.06	818	1,804	100	•	•
	В	1050	42	1.00	1.31	872	1,923	100	•	Θ
	В	1200	48	1.19	1.56	929	2,048	100	Θ	0
	В	1350	54	1.38	1.81	1036	2,284	100	0	\Q
	В	1500	60	1.58	2.06	1094	2,412	100	\Diamond	♦
Clean Up	В	1800	72	1.60	2.09	979	2,157	100	\Diamond	♦
	В	2000	78	1.76	2.31	1045	2,303	100		Х
	В	2000	78	1.76	2.31	1045	2,303	100	\Diamond	Х
Ditch Cleaning Tilt	В	1800	72	1.40	1.83	1105	2,437	100	0	♦
			N.4.	ximum load	l with sour	lor (novloce	L i bucks+l	kg	2636	2503
			IVId	ואווווווווווווווואו	i willi coup	iei (payidad	+ DUCKEL)	lb	5,811	5,518

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.

Bucket weight with General Duty tips.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- 1800 kg/m³ (3,000 lb/yd³)
- → 1500 kg/m³ (2,500 lb/yd³)
- O 1200 kg/m3 (2,000 lb/yd3)
- ♦ 900 kg/m³ (1,500 lb/yd³)
- X Not Recommended

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

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%

Counterweight		4.2 mt	(9,260 lb)
Boom Type		Reach	HD Reach
Stick Length		R2.9 (9'6")	HD R2.9 (9'6")
Hydraulic Hammers	H115 GC	✓	✓
	H115 GC S	✓	✓
	H115 S	✓	✓
	H120 GC	✓	✓
	H120 GC S	✓	✓
	H120 S	✓	✓
	H130 GC	✓	✓
	H130 GC S		✓
	H130 S	√ †	✓
Demolition and Sorting Grapples	G318	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓	✓
Pulverizers	P218 Secondary Pulverizer	✓	✓
Mulchers	HM4015	✓	✓
	HM4815	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓

Counterweight		4.2 mt (9,260 lb)			
Boom Type		Reach	HD Reach		
Stick Length		R2.9 (9'6")	HD R2.9 (9'6")		
Hydraulic Hammers	H115 GC	✓	✓		
	H115 GC S	✓	✓		
	H115 S	✓	✓		
	H120 GC	√ †	✓		
	H120 GC S	√ †	✓		
	H120 S	√ †	✓		
	H130 GC	√ †*	√ *		
	H130 GC S	√ †	√ *		
	H130 S	√ †	✓		
Demolition and Sorting Grapples	G318	✓	✓		
Mobile Scrap and Demolition Shears	S3025 Flat Top	√ *			
Pulverizers	P218 Secondary Pulverizer	✓	√ *		
Mulchers	HM4015	✓	✓		
	HM4815	✓	✓		
Compactors (Vibratory Plate)	CVP110	✓	✓		
Rotary Cutters	RC20	✓	✓		

(continued on next page)

Attachments	Offering	Guide	(continued)
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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%

TRS18 (PIN-ON TOP/S70 BOTTOM) ATTACHMENTS

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

Counterweight 4.2 mt (9,260 lb)

Boom Type		Reach	HD Reach
Stick Length		R2.9 (9'6")	HD R2.9 (9'6")
Hydraulic Hammers	H115 GC	✓	✓
	H115 GC S	✓	✓
	H115 S	✓	✓
	H120 GC S	à	✓
	H120 S	√ †	✓
Compactors (Vibratory Plate)	CVP75	✓	✓
	CVP110	✓	✓

NOTE: Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

BOOM-MOUNT ATTACHMENTS			
Counterweight		4.2 mt	(9,260 lb)
Boom Type		Reach	HD Reach
Mobile Scrap and Demolition Shears	S3035 Flat Top	✓	✓

320 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 (18'8") Reach boom		✓
5.7 m (18'8") HD Reach boom		✓
2.9 m (9'6") Reach stick		✓
2.9 m (9'6") HD Reach stick		✓
Bucket linkage, B1-family with lifting eye	✓	
CAB		
ROPS	✓	
OPG		✓
High-resolution 203 mm (8") LCD touchscreen monitor	✓	
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	✓	
Tilt-up left-side console	✓	
Heated air-suspension seat	✓	
51 mm (2") seat belt	✓	
Monitor integrated Bluetooth® radio with USB/Auxiliary ports	✓	
12V DC outlets	✓	
Document storage	✓	
Overhead storage and rear storage with nets	✓	
Beverage holder	✓	
Cup holder	✓	
Openable two-piece front window	✓	
Rear window emergency exit	✓	
Radial wiper with washer	✓	
Openable polycarbonate skylight hatch	✓	
LED dome light	✓	
Floor welcome light	✓	
Roof sunscreen	✓	
Roller front sunscreen	✓	
Roller rear sunscreen		√
Washable floor mat	✓	
Beacon ready	✓	
Cat Stick Steer		✓
Auxiliary relay		✓

	Standard	Optiona
CAT TECHNOLOGY		
Cat Equipment Management:		
– VisionLink®	√ 1	
- VisionLink Productivity		✓2
-Remote Flash	✓	
- Remote Troubleshoot	✓	
-Work tool recognition and tracking (PL161)	✓	
-Operator Coaching		√3
Cat Grade:		
-Cat Grade with 2D	✓	
-Cat Grade with 2D with Attachment Ready Option (ARO)		✓
-Laser catcher		✓
-Cat Grade with 3D (single or dual GNSS)		✓
- Compatible with 3D grade systems from Trimble, Topcon, and Leica	✓	
-Cat Grade 3D Ready		✓
-Cat Grade Connectivity		√ 2
Cat Assist:		
-Grade Assist	✓	
-Boom Assist	✓	
- Bucket Assist	✓	
-Swing Assist	✓	
-Lift Assist	✓	
Cat Payload:		
-On-the-go weighing	✓	
- Semiautomatic calibration	✓	
-Payload/cycle information	✓	
- VisionLink Productivity back office reporting		✓2
Cat Advanced Payload:		
-Daily totals		✓
- Custom lists		✓
-Smart weight target		✓
-E-ticket Integration		✓2
Other:		
Cat Tiltrotator (TRS) integration		✓

¹Provides core telematics data to manage health, maintenance insights, and condition monitoring. Other plans available for more comprehensive data reporting. Consult your Cat dealer for details.

(continued on next page)

²VisionLink subscription required. Consult your Cat dealer for details.

³VisionLink subscription required for back office reporting. Consult your Cat dealer for details.

320 Standard and Optional Equipment

Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
ELECTRICAL SYSTEM			SAFETY AND SECURITY		
1,000 CCA maintenance-free	✓		Cat Command (remote control)		✓
batteries (×2)			2D E-Fence:	✓	
Centralized electrical disconnect switch	<u> </u>		– E-ceiling – E-floor		
Programmable time-delay LED working lights	✓		- E-swing		
LED chassis light, left-hand and right-	√		– E-wall		
hand boom lights, cab lights			– E-cab avoidance		
Premium surround lighting package		✓	Auto hammer stop	√	
ENGINE			Rearview and right-hand- sideview cameras	✓	
Cat® C7.1 single turbo diesel engine	✓		Neutral lever (lock out) for all controls	√	
Three selectable power modes	✓		Anti-skid plate and countersunk bolts	√	
Auto engine speed control	✓		on service platform	•	
Auto engine idle shutdown	✓		Ground-level accessible secondary engine	✓	
Work up to 3000 m (9,840 ft) above sea	✓		shutoff switch in cab		
level without engine power de-rating			Lockable disconnect switch	✓	
52° C (125° F) high-ambient cooling	\checkmark		Swing alarm		✓
capacity			Right-hand handrail and handhold	✓	
Starting capability for –18° C (0° F) with jump start receptacle	✓		Travel alarm	✓	
Double element air filter	✓		Inspection lighting		✓
with integrated pre-cleaner			SERVICE AND MAINTENANCE		
Electric fuel priming pump	✓		Scheduled Oil Sampling (S·O·S SM) ports	✓	
Electric cooling fans	✓		QuickEvac™ maintenance ready		✓
with auto-reverse function			Grouped location for engine oil	✓	
HYDRAULIC SYSTEM			and fuel filters		
Boom and stick regeneration circuits	✓		Ground-level second dipstick for engine oil	✓	
Boom and stick lowering check valves	✓		Radiator screen		✓
Electronic main control valve	✓		Integrated vehicle health	✓	
Auto Dig Boost	✓		management system UNDERCARRIAGE AND STRUCTURES		
Auto heavy lift	✓		600 mm (24") triple grouser track shoes	√	
Auto warm up	✓		700 mm (28") triple grouser track shoes	•	√
Auto two-speed travel	✓		Tie-down points on base frame	./	•
Boom and stick drift reduction valve	✓			∨ ✓	
Element type main hydraulic filter	✓		Segmented track guiding guards Full-length track guiding guards	V	
Slider joysticks	✓			√	V
Tandem type electronic main pump	✓		Bottom guards		./
Hammer return filter circuit		✓	HD bottom guards	√	•
Hydraulic efficiency monitoring		✓	Swivel guard	√	
Tool Control (two pump, one/two way		\checkmark	Travel motor guards	√	
high-pressure flow)			HD travel motor guards		√
Medium pressure auxiliary circuit		√	Grease lubricated track links	√	
Quick coupler circuit for Cat Pin Grabber and CW Dedicated	ſ	✓	4.2 mt (9,260 lb) counterweight	✓	

320 Attachments

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- · Lower radial wiper
- Rain protector plus cab light cover
- · Laminated P5A glass front windshield
- Left-hand/Right-hand electrical pedal for tool control
- · Armrest kit
- Seat with 4-point seatbelt capability
- Dual exit rear window kit
- 75 mm (3") retractable seat belt
- Auxiliary relay

ELECTRICAL

• Premium surround working lights

GUARDS

- Swivel guard
- Side rubber bumper guard
- Operator Protective Guards
- Mesh guard full front
- · Mesh guard half front
- Full protecting vandalism guard

MAINTENANCE

- Jump start wiring
- Duct ready kit

SAFETY AND SECURITY

- Cat Detect People Detection
- Cat Command Remote control kit
- Seat belt indicator
- · Bluetooth receiver
- · Bluetooth key fob

OTHER ATTACHMENTS

- Delayed engine shutdown kit
- Upper cover for antennae
- Removable mast for antennae
- · Power clam kit
- · Grease gun holder

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® C7.1 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 (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.

*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 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 6395:2008 (external) – 100 dB(A)

ISO 6396:2008 (inside cab) – 70 dB(A)

• 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 HYDOTM 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
- Utilizing Cat technologies can help increase operating efficiencies
- Extended service intervals help decrease maintenance costs
- The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval

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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