



352

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	C13B	
Net Power		
ISO 9249	330 kW	443 hp
ISO 9249 (DIN)	449 hp (metric)	
Engine Power		
ISO 14396	332 kW	445 hp
ISO 14396 (DIN)	451 hp (metric)	
Bore	130 mm	5 in
Stroke	157 mm	6 in
Displacement	12.5 L	763 in ³

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 2600 m (8,530 ft).
- Net power is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator with engine speed at 1,700 rpm.
- 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	8.3 rpm	
Maximum Swing Torque	189 kN·m	139,000 lbf·ft

Weights

Operating Weight	48 500 kg	106,900 lb
• Long undercarriage, Reach boom, R3.35TB (10'6") stick, HDX 1.90 m ³ (2.48 yd ³) bucket, 600 mm (28") double triple grouser shoes, 9.8 mt (21,605 lb) counterweight.		
Operating Weight	51 600 kg	113,800 lb
• Long undercarriage, Reach boom, R3.35TB (10'6") stick, HDX 2.10 m ³ (2.75 yd ³) bucket, 600 mm (28") double grouser shoes, 9.8 mt (21,605 lb) counterweight.		

Track

Standard Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	750 mm	30 in
Number of Shoes (each side)	52	
Number of Track Rollers (each side)	9	
Number of Carrier Rollers (each side)	2 – Fixed Gauge Undercarriage 3 – Variable Gauge Undercarriage	

Drive

Maximum Gradeability	35°/70%	
Maximum Travel Speed	4.5 km/h	2.8 mph
Maximum Drawbar Pull	351 kN	78,908 lbf

Hydraulic System

Main System – Maximum Flow (Implement)	779 L/min (389 × 2 pumps)	206 gal/min (103 × 2 pumps)
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,511 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	26 000 kPa	3,771 psi
Boom Cylinder – Bore	170 mm	7 in
Boom Cylinder – Stroke	1524 mm	60 in
Stick Cylinder – Bore	190 mm	7 in
Stick Cylinder – Stroke	1758 mm	69 in
TB Bucket Cylinder – Bore	160 mm	6 in
TB Bucket Cylinder – Stroke	1356 mm	53 in

Service Refill Capacities

Fuel Tank Capacity	715 L	188.9 gal
Cooling System	52 L	13.7 gal
Engine Oil (with filter)	40 L	10.6 gal
Swing Drive	10.5 L	2.8 gal
Final Drive (each)	9.5 L	2.5 gal
Hydraulic System (including tank)	550 L	145.3 gal
Hydraulic Tank (including suction pipe)	217 L	57.3 gal
Diesel Exhaust Fluid (DEF) Tank	80 L	21.1 gal

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Standards

Brakes	ISO 10265:2008
Cab/Falling Object Guard System (FOGS)	ISO 10262:1998

Sound Performance

ISO 6395 (external)	108 dB(A)
ISO 6396 (inside cab)	73 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.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.00 kg of refrigerant which has a CO₂ equivalent of 1430 metric tonne.

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Operating Weights and Ground Pressures

Base Machine Configurations	600 mm (24") Triple Grouser Shoes		600 mm (24") Double Grouser Shoes		750 mm (30") 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 Frame with Single Frange Track Rollers and Carrier Rollers for Fixed Gauge Long Undercarriage						
9.8 mt (21,605 lb) Counterweight						
Reach Boom + R3.35 m (11'0") TB Stick + 3.30 m ³ (4.32 yd ³) GDC Bucket	48 900 (107,700)	84.7 (12.3)	48 700 (107,400)	84.8 (12.3)	49 400 (109,400)	68.8 (10.0)
Base Frame with Double Frange Track Rollers and Carrier Rollers for Fixed Gauge Long Undercarriage						
9.8 mt (21,605 lb) Counterweight						
Reach Boom + R3.35 m (11'0") TB Stick + 3.30 m ³ (4.32 yd ³) GDC Bucket	48 900 (107,800)	84.8 (12.3)	49 000 (108,000)	84.9 (12.3)	49 600 (109,400)	68.9 (10.0)
Base Frame with Double Frange Track Rollers and Carrier Rollers for Variable Gauge Long Undercarriage						
9.8 mt (21,605 lb) Counterweight						
Reach Boom + R3.35 m (11'0") TB Stick + 2.50 m ³ (3.27 yd ³) SD Bucket	51 600 (113,700)	84.9 (12.3)	51 700 (113,900)	84.9 (12.3)	52 300 (115,300)	69.0 (10.0)

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

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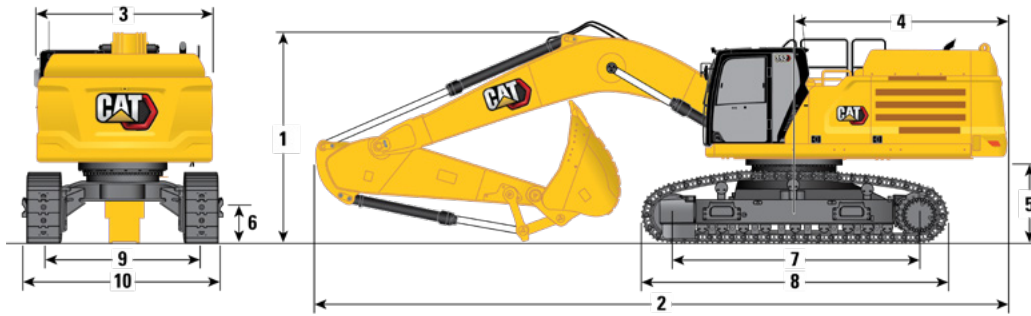
Major Component Weights

	kg	lb
Base Machine with 9.8 mt (21,605 lb) Counterweight, Standard Swing Frame, Base Frame with Single Frange Track Rollers and Carrier Rollers for Fixed Gauge Long Undercarriage	33 210	73,230
Base Machine with 9.8 mt (21,605 lb) Counterweight, Standard Swing Frame, Base Frame with Double Frange Track Rollers and Carrier Rollers for Fixed Gauge Long Undercarriage	33 250	73,310
Base Machine with 9.8 mt (21,605 lb) Counterweight, Standard Swing Frame, Base Frame with Double Frange Track Rollers and Carrier Rollers for Variable Gauge Long Undercarriage	36 010	79,380
Track Shoes:		
600 mm (24") Width, Thick, Triple Grouser Track Shoes for Fixed Gauge and Variable Gauge Long Undercarriage	5290	11,660
600 mm (24") Width, Thick, Double Grouser Track Shoes for Fixed Gauge and Variable Gauge Long Undercarriage	5400	11,900
750 mm (30") Width, Thick, Triple Grouser Track Shoes for Fixed Gauge and Variable Gauge Long Undercarriage	6040	13,320
Two Boom Cylinders	920	2,020
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	630	1,380
Counterweight:		
9.8 mt (21,605 lb) Counterweight	9800	21,610
Swing Frame:		
Standard Swing Frame	4290	9,450
Fixed Gauge and Variable Gauge Long Undercarriages:		
Base Frame with Single Frange Track Rollers and Carrier Rollers for Fixed Gauge Long Undercarriage	10 740	23,670
Base Frame with Double Frange Track Rollers and Carrier Rollers for Fixed Gauge Long Undercarriage	10 780	23,760
Base Frame with Single Frange Track Rollers and Carrier Rollers for Variable Gauge Long Undercarriage	13 230	29,170
Base Frame with Double Frange Track Rollers and Carrier Rollers for Variable Gauge Long Undercarriage	13 270	29,250
Boom (including lines, pins, stick cylinder):		
Reach Boom 6.9 m (22'8")	4520	9,960
Stick (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R3.35TB (11'0")	2520	5,560
Buckets (without linkage):		
1.90 m ³ (2.48 yd ³) HDX for TB	2450	5,400
2.10 m ³ (2.75 yd ³) HDX for TB	2590	5,710
Quick Couplers:		
CW Dedicated QC	770	1,690
Pin Grabber QC	1060	2,340

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Dimensions

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



Boom Option	Reach Boom 6.9 m (22'8")			
Stick Option	Reach Stick R3.35TB (11'0")			
Undercarriage Options	Fixed Gauge		Variable Gauge	
1 Machine Height:				
Cab Height	3230 mm	10'7"	3380 mm	11'1"
FOGS Height	3370 mm	11'1"	3530 mm	11'7"
Guardrails/Handrails Height	3370 mm	11'1"	3530 mm	11'7"
With Boom/Stick/Bucket Installed	3670 mm	12'0"	3570 mm	11'9"
With Boom/Stick Installed	3580 mm	11'9"	3620 mm	11'11"
With Boom Installed	3090 mm	10'2"	3190 mm	10'6"
With Boom/Stick/Bucket Installed (with auxiliary lines)	3670 mm	12'0"	3600 mm	11'10"
With Boom/Stick Installed (with auxiliary lines)	3590 mm	11'9"	3640 mm	11'11"
With Boom Installed (with auxiliary lines)	3130 mm	10'3"	3230 mm	10'7"
2 Machine Length:				
With Boom/Stick/Bucket Installed	11 890 mm	39'0"	11 820 mm	38'9"
With Boom/Stick Installed	11 870 mm	38'11"	11 840 mm	38'10"
With Boom Installed	10 640 mm	34'11"	10 590 mm	34'9"
With Boom/Stick/Bucket Installed (with auxiliary lines)	11 890 mm	39'0"	11 820 mm	38'9"
With Boom/Stick Installed (with auxiliary lines)	11 870 mm	38'11"	11 840 mm	38'10"
With Boom Installed (with auxiliary lines)	10 640 mm	34'11"	10 590 mm	34'9"
3 Upperframe Width without Walkways	3020 mm	9'11"	3020 mm	9'11"
4 Tail Swing Radius	3760 mm	12'4"	3760 mm	12'4"
5 Counterweight Clearance				
FG Undercarriage (without shoe lug)	1280 mm	4'2"	—	—
VG Undercarriage (without shoe lug)	—	—	1435 mm	4'8"
6 Ground Clearance				
FG Undercarriage (without shoe lug)	475 mm	1'7"	—	—
VG Undercarriage (without shoe lug)	—	—	710 mm	2'4"
7 Length to Center of Rollers				
FG Undercarriage	4360 mm	14'4"	—	—
VG Undercarriage	—	—	4340 mm	14'3"
Bucket Type	GDC		SD	
Bucket Capacity	3.30 m ³	4.32 yd ³	2.50 m ³	3.27 yd ³
Bucket Tip Radius	1890 mm	6'2"	1912 mm	6'3"

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Dimensions (continued)

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

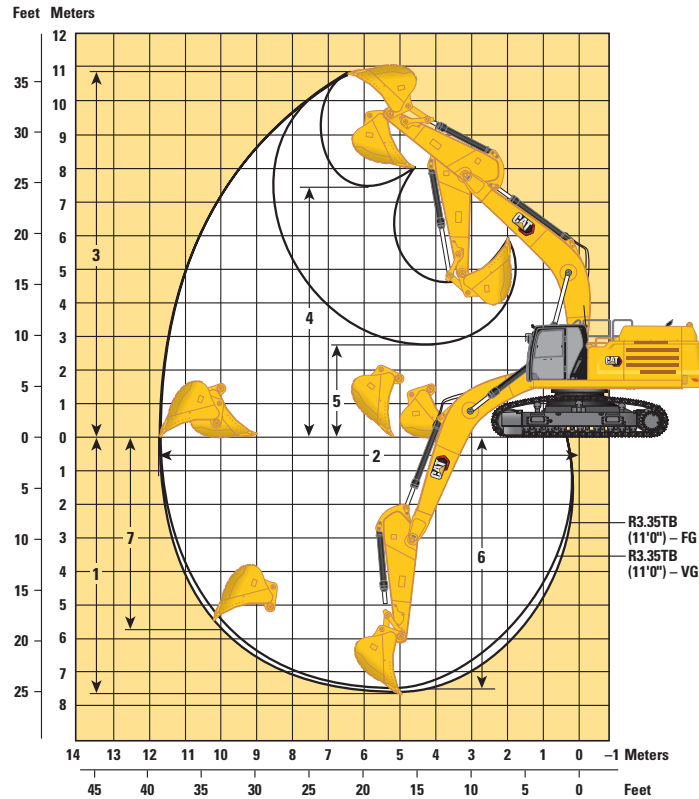


Boom Option	Reach Boom 6.9 m (22'8")			
Stick Option	Reach Stick			
	R3.35TB (11'0")		R2.9TB (9'6")	
Undercarriage Options	Fixed Gauge		Variable Gauge	
8 Track Length				
FG Undercarriage with Triple Grouser Shoe	5370 mm	17'7"	—	—
VG Undercarriage with Triple Grouser Shoe	—	—	5350 mm	17'7"
9 Track Gauge				
Retracted	—	—	2390 mm	7'10"
Extended	—	—	2890 mm	9'6"
Extended	2740 mm	9'0"	—	—
Track Width: Fixed Gauge Undercarriage				
600 mm (24") Shoes	3340 mm	10'11"	—	—
750 mm (30") Shoes	3490 mm	11'5"	—	—
900 mm (35") Shoes	3640 mm	11'11"	—	—
Track Width: Variable Gauge Undercarriage Extended				
600 mm (24") Shoes	—	—	3490 mm	11'5"
750 mm (30") Shoes	—	—	3640 mm	11'11"
900 mm (35") Shoes	—	—	3790 mm	12'5"
10 Undercarriage Width (with steps): Fixed Gauge Undercarriage				
600 mm (24") Shoes	3530 mm	11'7"	—	—
750 mm (30") Shoes	3530 mm	11'7"	—	—
900 mm (35") Shoes	3640 mm	11'11"	—	—
Undercarriage Width (with steps): Variable Gauge Extended				
600 mm (24") Shoes	—	—	3680 mm	12'1"
750 mm (30") Shoes	—	—	3680 mm	12'1"
900 mm (35") Shoes	—	—	3790 mm	12'5"
Bucket Type	GDC		SD	
Bucket Capacity	3.30 m ³	4.32 yd ³	2.50 m ³	3.27 yd ³
Bucket Tip Radius	1890 mm	6'2"	1912 mm	6'3"

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Working Ranges and Forces

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



Boom Option	Reach Boom 6.9 m (22'8")			
Stick Option	Reach Stick R3.35TB (11'0")			
Undercarriage Options	Fixed Gauge		Variable Gauge	
1 Maximum Digging Depth	7660 mm	25'2"	7530 mm	24'8"
2 Maximum Reach at Ground Line	11 730 mm	38'6"	11 730 mm	38'6"
3 Maximum Cutting Height	10 820 mm	35'6"	10 870 mm	35'8"
4 Maximum Loading Height	7430 mm	24'5"	7560 mm	24'10"
5 Minimum Loading Height	2750 mm	9'0"	2880 mm	9'5"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	7510 mm	24'8"	7380 mm	24'3"
7 Maximum Vertical Wall Digging Depth	5730 mm	18'10"	5150 mm	16'11"
Bucket Digging Force (ISO)	268 kN	60,200 lbf	264 kN	59,300 lbf
Stick Digging Force (ISO)	199 kN	44,700 lbf	200 kN	45,000 lbf
Bucket Type	GDC		SD	
Bucket Capacity	3.30 m ³	4.32 yd ³	2.50 m ³	3.27 yd ³
Bucket Tip Radius	1890 mm	6'2"	1912 mm	6'3"

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Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Long Fixed Gauge Undercarriage	Long Variable Gauge Undercarriage	
		mm	in	m ³	yd ³	kg	lb		%	9.8 mt (21,605 lb) Counterweight	
										Reach Boom 6.9 m (22'8")	
										R3.35TB (11'0")	
Pin-On (No Quick Coupler)											
GD _X	TB	1500	59	1.90	2.48	1857	4,094	100	●	●	
	TB	1600	63	2.00	2.62	1904	4,197	100	●	●	
HD _X	TB	1550	61	1.90	2.48	2275	5,015	100	●	●	
	TB	1700	67	2.10	2.75	2415	5,324	100	●	●	
HD	TB	1650	66	2.41	3.15	2220	4,894	100	⊙	●	
SD	TB	1700	67	2.41	3.15	2496	5,502	90	●	●	
	TB	1850	74	2.69	3.52	2696	5,943	90	⊙	●	
Maximum load with pin-on (payload + bucket)								kg	6910	7780	
								lb	15,234	17,152	
With Pin Grabber Coupler											
GD _X	TB	1500	59	1.90	2.48	1857	4,094	100	●	●	
	TB	1600	63	2.00	2.62	1904	4,197	100	⊙	●	
HD _X	TB	1550	61	1.90	2.48	2275	5,015	100	⊙	●	
	TB	1700	67	2.10	2.75	2415	5,324	100	⊖	●	
HD	TB	1650	66	2.41	3.15	2220	4,894	100	⊖	⊙	
SD	TB	1700	67	2.41	3.15	2496	5,502	90	⊖	⊙	
	TB	1850	74	2.69	3.52	2696	5,943	90	○	⊖	
Maximum load with coupler (payload + bucket)								kg	5857	6727	
								lb	12,912	14,830	

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 long 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)
- 1200 kg/m³ (2,000 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.

Typical Pass Match Guide

For maximum production and efficiency, we recommend that loading and hauling machines are matched to achieve optimal performance.

Configuration*:

2.69 m³ (3.52 yd³) bucket

Passes Required to Fill Trucks to Rated Capacity

Material Type	Fill Factor	Material Density	Hauler				
			725	730	730 EJ	735	740 GC
			Capacity				
			24 mt (26.5 t)	28 mt (31 t)	27.1 mt (30 t)	32 mt (35.3 t)	36.3 mt (40 t)
Earth	100%	1600 kg/m ³ (2,700 lb/yd ³)	5-6	6-7	6	7-8	8-9
Limestone	90%	1540 kg/m ³ (2,600 lb/yd ³)	6-7	7-8	7		

*The indicated pass match reflects the machine configuration, fill factor, and typical material density shown. Changes to machine configurations, fill factors, or material density as well as jobsite-specific factors may influence exact pass match recommendations for your application. Consult your Cat dealer for more information.

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Attachments Offering Guide

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

Match

† Allowed usage on machine less than 50%

PIN-ON ATTACHMENTS

Undercarriage		L	L-VG
Counterweight		9.8 mt (21,605 lb)	
Boom Type		Reach	
Stick Length		3.35 m (11'0")	
Hydraulic Hammers	H160 S	✓	✓
	H180 S	✓	✓
	H190 S	✓	✓
Mobile Scrap and Demolition Shears	S3050 Flat Top	✓	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		L	L-VG
Counterweight		9.8 mt (21,605 lb)	
Boom Type		Reach	
Stick Length		3.35 m (11'0")	
Hydraulic Hammers	H160 S	✓	✓
	H180 S	✓†	✓†

BOOM-MOUNT ATTACHMENTS

Undercarriage		L	L-VG
Counterweight		9.8 mt (21,605 lb)	
Boom Type		Reach	
Mobile Scrap and Demolition Shears	S2090	✓	✓
	S3070 Flat Top	✓	✓
	S3090 Flat Top	✓	✓

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS, STICKS AND LINKAGES			ELECTRICAL SYSTEM		
6.9 m (22'8") Reach boom	✓		Maintenance-free 1,000 CCA batteries (×4)	✓	
3.35 m (11') Reach stick	✓		Centralized electrical disconnect switch	✓	
TB bucket linkage		✓	LED exterior chassis and boom lights	✓	
CAT® TECHNOLOGY			Premium surround working lights		✓
Cat Product Link™	✓		ENGINE		
Remote flash	✓		115 Amp alternator	✓	
Remote troubleshoot	✓		Cold start block heaters		✓
Cat Grade connectivity		✓	Three selectable modes: Power, Smart, Eco	✓	
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓		Auto engine speed control	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓		52° C (126° F) high-ambient cooling	✓	
Cat Grade with 2D and offset memory	✓		Hydraulic reverse fan	✓	
Cat Grade with Advanced 2D		✓	-18° C (0° F) cold start capability	✓	
Cat Grade with 3D single GNSS		✓	-32° C (-25° F) cold start capability		✓
Cat Grade with 3D dual GNSS		✓	Double element air filter with integrated pre-cleaner	✓	
Cat Assist:	✓		Dual stage four micron main filter	✓	
– Grade Assist			Inlet air heater		✓
– Boom Assist			Engine oil sensor		✓
– Bucket Assist			10 micron primary filter with water separator	✓	
– Swing Assist			Electric fuel priming pump	✓	
Cat Payload:	✓		Secure start with PIN code	✓	
– Static weigh			Remote disable	✓	
– Semiauto calibration			HYDRAULIC SYSTEM		
– Payload/cycle information			Boom and stick regeneration circuit	✓	
– USB reporting capability			Electronic main control valve	✓	
2D E-Fence:	✓		Auto hydraulic oil warmup	✓	
– E-ceiling			Bio hydraulic oil capability	✓	
– E-floor			Reverse swing damping valve	✓	
– E-swing			Auto swing parking brake	✓	
– E-wall			High performance hydraulic return filter	✓	
– E-cab avoidance			Two speed travel	✓	
Auto hammer stop	✓		Combined two-way auxiliary circuit		✓
Laser catcher		✓	Medium-pressure auxiliary circuit		✓
Work tool recognition	✓				
Work tool tracking*	✓				

*Requires PL161 attachment locator

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352 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
SAFETY AND SECURITY			SERVICE AND MAINTENANCE		
Cat Command remote control		✓	Integrated vehicle health management system		✓
Caterpillar One Key security system	✓		Grouped engine oil and fuel filters	✓	
Lockable external tool/storage box	✓		Scheduled Oil Sampling (S·O·S SM) ports	✓	
Lockable door, fuel, and hydraulic tank locks	✓		UNDERCARRIAGE AND STRUCTURES		
Lockable fuel drain compartment	✓		Towing eye on base frame	✓	
Service platform with anti-skid plate and recessed bolts	✓		Full-length track guiding guards		✓
RH handrail and handhold	✓		Segmented three-piece track guiding guards		✓
Signaling/warning horn	✓		Swivel guard	✓	
Travel alarm		✓	HD bottom guard	✓	
Swing alarm		✓	HD travel motor guards	✓	
Ground-level secondary engine shutoff switch	✓		HD rollers	✓	
Boom lowering check valve	✓		Grease lubricated track	✓	
Stick lowering check valve	✓		HD swing frame	✓	
Rear and right-hand-sideview cameras	✓		HD swing bearing	✓	
360° visibility		✓	9.4 mt (20,723 lb) removable counterweight		✓
Falling object guard system		✓	9.8 mt (21,605 lb) counterweight		✓
Inspection lighting		✓	600 mm (24") HD double grouser shoes		✓
			750 mm (30") single grouser track shoes		✓
			900 mm (35") triple grouser track shoes		✓

	Deluxe	Premium (2P)	Premium (1P)
ROPS	○*	○*	○*
High-resolution 203 mm (8") LCD touchscreen monitor	●	X	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	●	●	●
Tilt-up left-side console	●	●	●
Heated air-suspension Deluxe seat	●	X	X
Heated and ventilated air-suspension Premium 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	●	●	●
Beverage holder	●	●	●
Cup holder	●	●	●
Openable two-piece front window	●	●	○
One piece front windshield	X	○	●
Rear window emergency exit	●	●	●
Radial wiper with washer	●	X	X
Parallel wiper	X	●	●
Openable polycarbonate skylight hatch	●	●	X
Laminated roof glass	X	X	●
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

○ Optional

X Not available

* ROPS is available on machine configurations under 50 metric tons

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Radial lower wiper
- LH/RH electrical pedal for tool control
- Horizontal slider joysticks
- Rain protector plus cab light cover
- 75 mm (3") retractable seat belt

ELECTRICAL

- Premium surround working lights

GUARDS

- Mesh guard full front
- Mesh guard lower half front
- Full protecting vandalism guard

SAFETY AND SECURITY

- Bluetooth receiver kit
- Bluetooth key fob
- Falling object guard system

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® C13B 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 1.0 kg (2.2 lb) of refrigerant which has a CO₂ equivalent of 1.430 metric tonnes (1.576 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) – 108 dB(A)

ISO 6396 (inside cab) – 73 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.
 - Smart mode matches machine power to digging requirements automatically
 - Eco mode minimizes fuel consumption for light applications
 - Standard Cat technologies improve operator efficiency by up to 45%
 - Reduce fuel consumption with the high-efficiency hydraulic fan that cools the engine on demand
 - Cut costs with extended maintenance intervals

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	83.09%
Iron	8.97%
Nonferrous Metal	1.66%
Mixed Metal	0.04%
Mixed-Metal and Nonmetal	0.72%
Plastic	0.62%
Rubber	0.16%
Mixed Nonmetallic	0.13%
Fluid	2.97%
Other	1.64%
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 – 98%

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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