



# 395

## Hydraulic Excavator

# Technical Specifications

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

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オフロード法2014年  
基準適合

# 395 Hydraulic Excavator Specifications

## Engine

Engine Model	Cat® C18	
Net Power – ISO 9249:2007	404 kW	542 hp
Engine Power – ISO 14396:2002	405 kW	543 hp
Bore	145 mm	6 in
Stroke	183 mm	7 in
Displacement	18.1 L	1,105 in <sup>3</sup>

- Meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 5, and Japan 2014 emission standards.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 ft).
- Net power available at the flywheel when the engine is equipped with fan, air cleaner, aftertreatment, and alternator with engine speed at 1,900 rpm.
- All Cat nonroad U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, Korea Tier 5, India CEV Stage V, and China Nonroad Stage IV diesel engines are required to use ULSD (ultra-low sulfur diesel 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 (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.

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

## Swing Mechanism

Swing Speed	6.3 rpm	
Maximum Swing Torque	362 kN·m	267,333 lbf·ft

## Weights

Operating Weight	91 800 kg	202,400 lb
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- Long Variable Gauge undercarriage, GP boom, GP3.7HB2 (12'2") stick, SD 5.2 m<sup>3</sup> (6.8 yd<sup>3</sup>) bucket, 650 mm (26") double grouser shoes and 15.45 mt (34,060 lb) counterweight.

## Track

Standard Track Shoes Width	650 mm	26 in
Optional Track Shoes Width	750 mm	30 in
Number of Shoes (each side)	51	
Number of Track Rollers (each side)	9	
Number of Carrier Rollers (each side)	3	

## Drive

Maximum Gradeability	35°/70%	
Maximum Travel Speed	4.6 km/h	2.8 mph
Maximum Drawbar Pull	581 kN	130,412 lbf

## Hydraulic System

Main System – Maximum Flow – Implement	1064 L/min (532 × 2 pumps)	281 gal/min (141 × 2 pumps)
Swing System – Maximum Flow	295 L/min	78 gal/min
Maximum Pressure – Equipment – Implement	37 000 kPa	5,366 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	31 000 kPa	4,496 psi
Boom Cylinder – Bore	210 mm	8 in
Boom Cylinder – Stroke	1967 mm	77 in
Stick Cylinder – Bore	225 mm	9 in
Stick Cylinder – Stroke	2262 mm	89 in
HB2 Bucket Cylinder – Bore	200 mm	8 in
HB2 Bucket Cylinder – Stroke	1451 mm	57 in
JC Bucket Cylinder – Bore	220 mm	9 in
JC Bucket Cylinder – Stroke	1586 mm	62 in

## Service Refill Capacities

Fuel Tank Capacity	1220 L	322 gal
Cooling System	71 L	19 gal
Engine Oil (with filter)	67 L	18 gal
Swing Drive (each)	24 L	6 gal
Final Drive (each)	20 L	5 gal
Hydraulic System (including tank)	740 L	195 gal
Hydraulic Tank (including suction pipe)	372 L	98 gal
Diesel Exhaust Fluid (DEF) Tank	80 L	21 gal

## Standards

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

## Sound Performance

ISO 6395 (external)	109 dB(A)
ISO 6396 (inside cab)	73 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.

## 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 CO<sub>2</sub> equivalent of 1.430 metric tonnes.

# 395 Hydraulic Excavator Specifications

## Operating Weights and Ground Pressures

	650 mm (26") Double Grouser Shoes		750 mm (30") Double Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
<b>Base Machine Configurations</b>				
<b>Base Frame with Track Rollers and Carrier Rollers</b>				
<b>15.45 mt (34,060 lb) counterweight + Long Variable Gauge Undercarriage Base Machine</b>				
GP Boom + GP3.7HB2 (12'2") Stick + 5.2 m <sup>3</sup> (6.8 yd <sup>3</sup> ) SD bucket	91 800 (202,400)	128.2 (18.6)	92 700 (204,300)	112 (16.3)
Mass Boom + M3.4JC (11'2") Stick + 6.5 m <sup>3</sup> (8.5 yd <sup>3</sup> ) SDV bucket	94 500 (208,200)	128.3 (18.6)	95 300 (210,200)	112.2 (16.3)
Mass Boom + M2.92JC (9'7") Stick + 6.5 m <sup>3</sup> (8.5 yd <sup>3</sup> ) SDV bucket	94 400 (208,100)	128.2 (18.6)	95 300 (210,100)	112.1 (16.3)

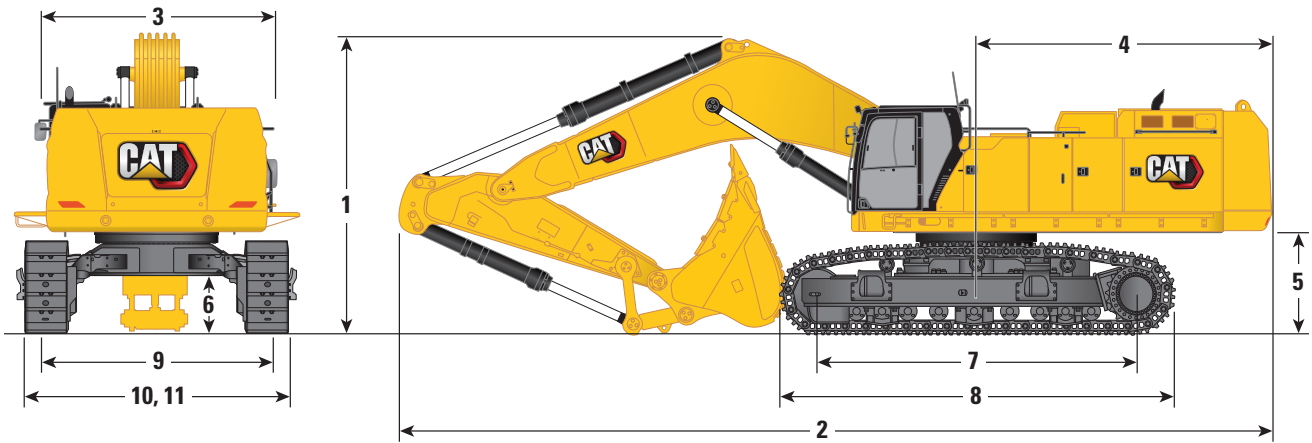
## Major Component Weights

	kg	lb
Base Machine Weight: including upper frame, undercarriage, counterweight, boom cylinders, without boom, stick, bucket, stick cylinder, bucket cylinder, tracks, fuel tank, operator		
With 15.45 mt (34,060 lb) Counterweight, Swing Frame, Base Frame with Track Rollers and Carrier Rollers	62 260	137,250
Track Shoes:		
650 mm (26") Width, 20.5 mm (0.8") Thick, Double Grouser Track Shoes	9290	20,470
750 mm (30") Width, 20.5 mm (0.8") Thick, Double Grouser Track Shoes	10 160	22,400
Two Boom Cylinders	1820	4,010
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	1010	2,230
Counterweight:		
15.45 mt (34,060 lb) Counterweight	15 450	34,060
Swing Frame	9100	20,060
Long Variable Gauge Undercarriage:		
Base Frame with Track Rollers and Carrier Rollers for Long Variable Gauge Undercarriage	24 170	53,290
Booms (including lines, pins, stick cylinder):		
Mass Boom 7.25 m (23'9")	8560	18,880
GP Boom 8.4 m (27'7")	9310	20,530
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Mass Stick M2.92JC (9'7")	5510	12,150
Mass Stick M3.4JC (11'2")	5550	12,240
GP Stick GP3.7HB2 (12'2")	4760	10,480
Buckets (without linkage):		
5.2 m <sup>3</sup> (6.8 yd <sup>3</sup> ) SD	5190	11,440
6.5 m <sup>3</sup> (8.5 yd <sup>3</sup> ) SDV	7790	17,170

# 395 Hydraulic Excavator Specifications

## Dimensions

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



### Boom Options

**GP Boom**  
8.4 m (27'7")

**Mass Boom**  
7.25 m (23'9")

### Stick Options

**GP Stick**  
GP3.7HB2 (12'2")

**Mass Stick**  
M3.4JC (11'2")

**M2.92JC (9'7")**

#### 1 Machine Height:

	GP Boom		Mass Boom	
Top of Cab Height	3670 mm	12'0"	3670 mm	12'0"
Top of FOGS Height	3810 mm	12'6"	3810 mm	12'6"
Handrails Height	3750 mm	12'4"	3750 mm	12'4"
With Boom/Stick/Bucket Installed	5160 mm	16'11"	5330 mm	17'6"
With Boom/Stick Installed	4900 mm	16'1"	4660 mm	15'3"
With Boom Installed	4070 mm	13'4"	3940 mm	12'11"
With Boom/Stick/Bucket Installed (with auxiliary lines)	5170 mm	17'0"	5350 mm	17'7"
With Boom/Stick Installed (with auxiliary lines)	4900 mm	16'1"	4730 mm	15'6"
With Boom Installed (with auxiliary lines)	4140 mm	13'7"	4010 mm	13'2"

#### 2 Machine Length:

	GP Boom		Mass Boom	
With Boom/Stick/Bucket Installed	15 110 mm	49'7"	13 890 mm	45'7"
With Boom/Stick Installed	15 080 mm	49'6"	13 850 mm	45'5"
With Boom Installed	13 160 mm	43'2"	11 980 mm	39'4"
With Boom/Stick/Bucket Installed (with auxiliary lines)	15 110 mm	49'7"	13 890 mm	45'7"
With Boom/Stick Installed (with auxiliary lines)	15 080 mm	49'6"	13 850 mm	45'5"
With Boom Installed (with auxiliary lines)	13 150 mm	43'2"	11 990 mm	39'4"

#### 3 Upperframe Width:

Without Walkways	3490 mm	11'5"	3490 mm	11'5"	3490 mm	11'5"
With Walkways	4510 mm	14'10"	4510 mm	14'10"	4510 mm	14'10"
Walkways Width	500 mm	1'8"	500 mm	1'8"	500 mm	1'8"

#### 4 Tail Swing Radius

GP Boom	4840 mm	15'11"	Mass Boom	4840 mm	15'11"
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#### 5 Counterweight Clearance

GP Boom	1640 mm	5'5"	Mass Boom	1640 mm	5'5"
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#### 6 Ground Clearance

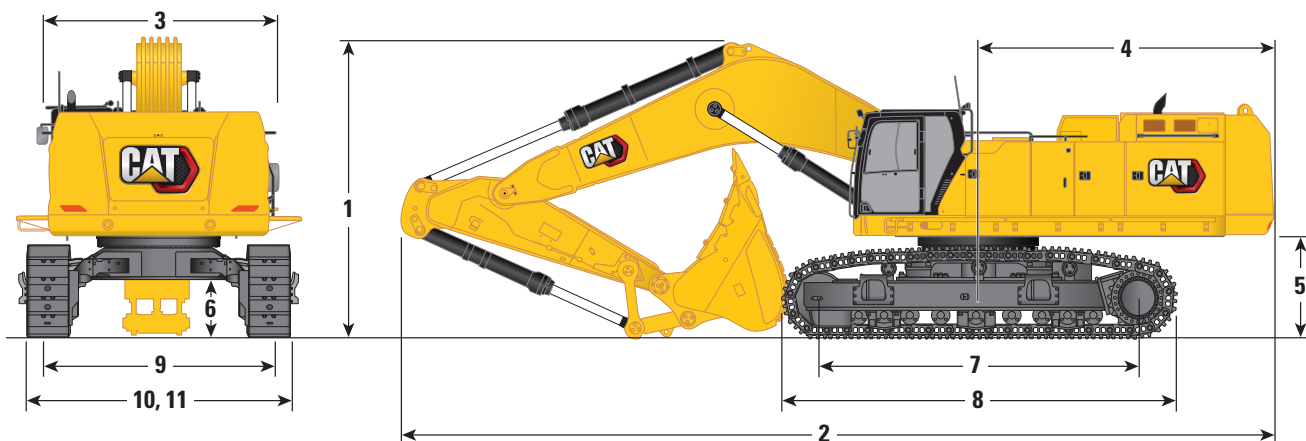
GP Boom	830 mm	2'9"	Mass Boom	830 mm	2'9"
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# 395 Hydraulic Excavator Specifications

## Dimensions

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

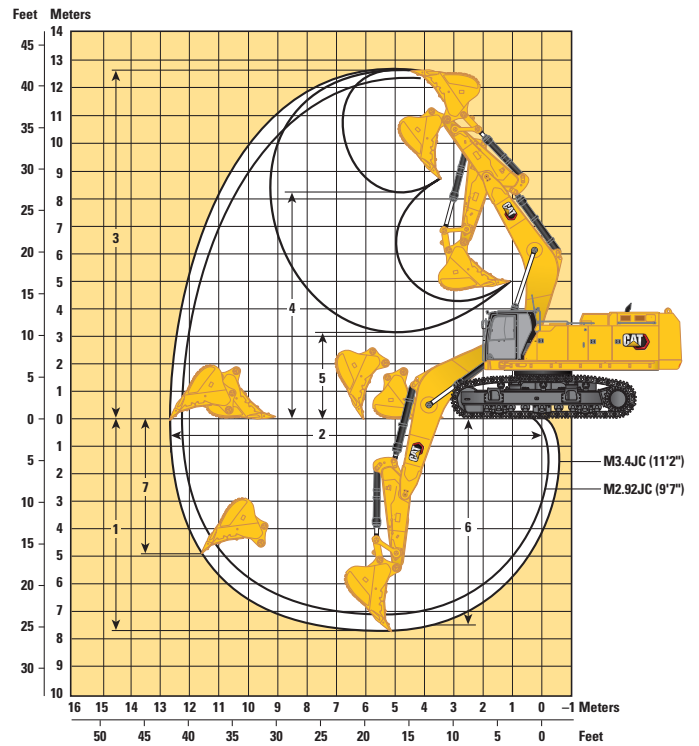
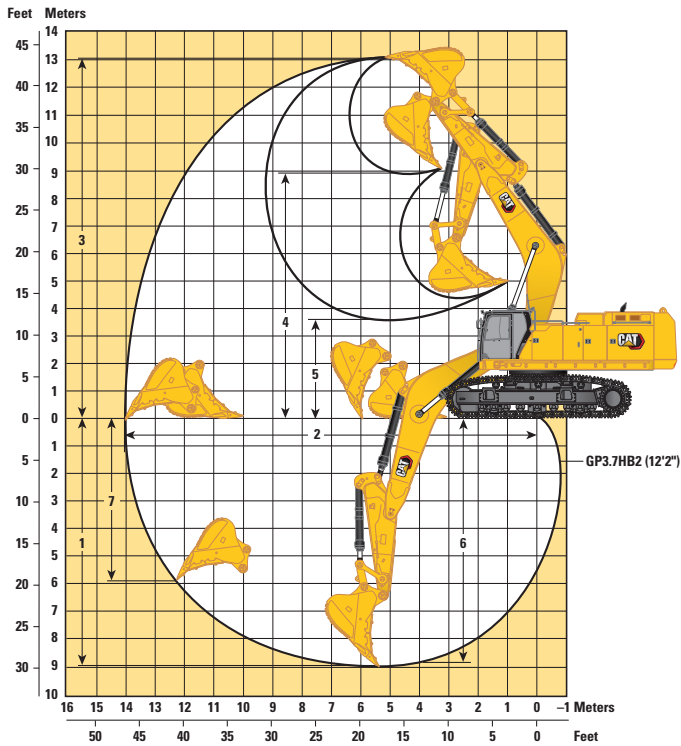


Boom Options	GP Boom 8.4 m (27'7")		Mass Boom 7.25 m (23'9")			
Stick Options	GP Stick GP3.7HB2 (12'2")		Mass Stick M3.4JC (11'2")		M2.92JC (9'7")	
<b>7</b> Track Length – Length to Center of Rollers	5120 mm	16'10"	5120 mm	16'10"	5120 mm	16'10"
<b>8</b> Track Length	6350 mm	20'10"	6350 mm	20'10"	6350 mm	20'10"
<b>9</b> Track Gauge:						
Retracted	2750 mm	9'0"	2750 mm	9'0"	2750 mm	9'0"
Extended	3510 mm	11'6"	3510 mm	11'6"	3510 mm	11'6"
<b>10</b> Track Width – Retracted:						
650 mm (26") Shoes	3400 mm	11'2"	3400 mm	11'2"	3400 mm	11'2"
750 mm (30") Shoes	3500 mm	11'6"	3500 mm	11'6"	3500 mm	11'6"
Track Width – Extended:						
650 mm (26") Shoes	4160 mm	13'8"	4160 mm	13'8"	4160 mm	13'8"
750 mm (30") Shoes	4260 mm	14'0"	4260 mm	14'0"	4260 mm	14'0"
<b>11</b> Undercarriage Width – Retracted (with steps):						
650 mm (26") Shoes	3690 mm	12'1"	3690 mm	12'1"	3690 mm	12'1"
750 mm (30") Shoes	3690 mm	12'1"	3690 mm	12'1"	3690 mm	12'1"
Undercarriage Width – Extended (with steps):						
650 mm (26") Shoes	4450 mm	14'7"	4450 mm	14'7"	4450 mm	14'7"
750 mm (30") Shoes	4450 mm	14'7"	4450 mm	14'7"	4450 mm	14'7"
Bucket Type	SD		SDV		SDV	
Bucket Capacity	5.20 m <sup>3</sup>	6.80 yd <sup>3</sup>	6.50 m <sup>3</sup>	8.50 yd <sup>3</sup>	6.50 m <sup>3</sup>	8.50 yd <sup>3</sup>
Bucket Tip Radius	2440 mm	8'0"	2530 mm	8'4"	2530 mm	8'4"

# 395 Hydraulic Excavator Specifications

## Working Ranges

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



### Boom Options

**GP Boom**  
8.4 m (27'7")

**Mass Boom**  
7.25 m (23'9")

### Stick Options

**GP Stick**  
GP3.7HB2 (12'2")

**Mass Stick**  
M3.4JC (11'2")  
M2.92JC (9'7")

	GP Boom 8.4 m (27'7")		Mass Boom 7.25 m (23'9")			
	GP Stick GP3.7HB2 (12'2")		Mass Stick M3.4JC (11'2")		Mass Stick M2.92JC (9'7")	
<b>1</b> Maximum Digging Depth	8970 mm	29'5"	7660 mm	25'2"	7190 mm	23'7"
<b>2</b> Maximum Reach at Ground Line	14 060 mm	46'2"	12 700 mm	41'8"	12 260 mm	40'3"
<b>3</b> Maximum Cutting Height	13 200 mm	43'4"	12 590 mm	41'4"	12 370 mm	40'7"
<b>4</b> Maximum Loading Height	8960 mm	29'5"	8190 mm	26'10"	7960 mm	26'1"
<b>5</b> Minimum Loading Height	3730 mm	12'3"	3190 mm	10'6"	3660 mm	12'0"
<b>6</b> Maximum Depth Cut for 2440 mm (8'0") Level Bottom	8850 mm	29'0"	7530 mm	24'8"	7050 mm	23'2"
<b>7</b> Maximum Vertical Wall Digging Depth	5860 mm	19'3"	4970 mm	16'4"	4580 mm	15'0"
Bucket Digging Force (ISO)	383 kN	86,120 lbf	498 kN	111,950 lbf	497 kN	111,730 lbf
Stick Digging Force (ISO)	342 kN	76,930 lbf	360 kN	80,920 lbf	394 kN	88,570 lbf
Bucket Type	SD		SDV		SDV	
Bucket Capacity	5.20 m <sup>3</sup>	6.80 yd <sup>3</sup>	6.50 m <sup>3</sup>	8.50 yd <sup>3</sup>	6.50 m <sup>3</sup>	8.50 yd <sup>3</sup>
Bucket Tip Radius	2440 mm	8'0"	2530 mm	8'4"	2530 mm	8'4"

# 395 Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill %	GP Boom	Mass Boom	
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		GP3.7 (12'2")	M2.92 (9'7")	M3.4 (11'2")
<b>Pin-On (No Quick Coupler)</b>											
Severe Duty	HB2	1750	69	3.90	5.10	4130	9,105	90	●		
	HB2	2000	79	4.60	6.02	4517	9,959	90	●		
Extreme Duty	HB2	1750	69	3.88	5.07	5065	11,166	90	●		
Severe Duty	JC	2000	79	4.60	6.02	6040	13,316	90		●	●
	JC	2300	91	5.26	6.88	6734	14,846	90		●	◎
Maximum load with pin-on (payload + bucket)								kg	13 146	17 340	15 964
								lb	28,981	38,229	35,195

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.

### Maximum Material Density:

- 2100 kg/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)
- ◎ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)

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

No Match

### PIN-ON ATTACHMENTS

Boom Type		GP	ME	ME
Stick Length		3.7 m HD (12'2")	2.92 m (9'6")	3.4 m (11'2")
Hydraulic Hammers	H215 S	✓	✓	✓
Mobile Scrap and Demolition Shears	S3070 Flat Top	✓		
	S3090 Flat Top	✓		

### CAT PIN GRABBER COUPLER ATTACHMENTS

Boom Type		GP
Stick Length		3.7 m HD (12'2")
Hydraulic Hammers	H215 S	✓
Mobile Scrap and Demolition Shears	S3070 Flat Top	✓

# 395 Hydraulic Excavator Specifications

## Truck Pass Match

		Hauler	730	730 EJ	735	740 EJ	740 GC	745	770G	772G	773G	775G
		<b>Capacity – metric tonnes (short tons)</b>	28 (31)	27.1 (30)	32 (35.3)	38 (42)	36.3 (40)	41 (45.2)	38.2 (42.1)	46.8 (51.6)	55.3 (61)	64.6 (71.3)
Model	Bucket Size	Material										
395	5.26 m <sup>3</sup> (6.8 yd <sup>3</sup> )	Earth			3–4	4–5	4–5	5	4–5	5–6	6–7	8
		Limestone	4	3–4	4–5	5	5	5–6	5	6–7	7–8	
			<b>Earth</b>					<b>Limestone</b>				
<b>Material Density</b>			1600 kg/m <sup>3</sup> (2,697 lb/yd <sup>3</sup> )					1540 kg/m <sup>3</sup> (2,596 lb/yd <sup>3</sup> )				
<b>Fill Factor</b>			100%					90%				
<b>Minimum Passes</b>			3					3				
<b>Maximum Passes</b>			8					8				



## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>BOOMS, STICKS AND LINKAGES</b>			<b>CAT TECHNOLOGY</b>		
7.25 m (23'9") Mass boom		✓	Cat Product Link™	✓	
8.4 m (27'7") GP boom	✓		Work tool recognition	✓	
2.92 m (9'7") Mass stick		✓	Work tool tracking*	✓	
3.4 m (11'2") Mass stick		✓	Laser catcher		✓
3.7 m (12'2") GP stick	✓		Cat Grade with 2D and offset memory	✓	
Bucket linkage, HB2 type without lifting eye	✓		Cat Grade with Advanced 2D		✓
Bucket linkage, JC type without lifting eye		✓	Cat Grade with 3D single GNSS		✓
<b>CAB</b>			Cat Grade with 3D dual GNSS		✓
Sound suppressed cab with viscous mounts	✓		Cat Grade with 3D connectivity: – Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓	
High-resolution 254 mm (10") LCD touch screen monitor	✓		– Capability to install 3D grade systems from Trimble, Topcon, and Leica		
Additional high-resolution LCD touch screen monitor for Cat Grade Advanced 2D and 3D		✓	Cat Assist: – Grade Assist – Boom Assist – Bucket Assist – Swing Assist	✓	
Automatic bi-level air conditioner	✓		Cat Payload: – Static weigh – Semi-automatic calibration – Payload/cycle information – USB reporting capability	✓	
Jog dial and shortcut keys for monitor control	✓		2D E-Fence: – E-ceiling – E-floor – E-swing – E-wall – E-cab avoidance	✓	
Keyless push-to-start engine control	✓		Auto hammer stop	✓	
Height-adjustable console, infinite with no tool	✓		Remote Services capability	✓	
Tilt-up left-side console	✓		Cat Command remote control		✓
Cat Stick Steer		✓	<b>ELECTRICAL SYSTEM</b>		
Auxiliary relay		✓	Maintenance-free 1,400 CCA batteries (×2)	✓	
Heated and cooled seat with automatic adjustable suspension	✓		Centralized electrical disconnect switch	✓	
51 mm (2") orange seat belt	✓		Chassis light	✓	
Bluetooth® integrated radio (including USB, aux port and microphone)	✓		LED boom and cab lights		✓
2 × 12V DC outlets	✓		1,800 lumen LED premium surround lights		✓
Cup holder and storage compartments	✓				
Fixed one-piece windshield	✓				
Parallel wiper with washer	✓				
Fixed glass laminated skylight	✓				
LED dome light	✓				
Floor welcome light	✓				
Roller front sunscreen	✓				
Roller rear sunscreen	✓				
Rear window emergency exit	✓				
Washable floor mat	✓				
Beacon ready	✓				

(continued on next page)

\*Paired with PL161 attachment locator

\*\*Subscription required

# 395 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
<b>ENGINE</b>			<b>SERVICE AND MAINTENANCE</b>		
Cold start block heater		✓	Integrated vehicle health management system		✓
Three selectable modes: Power, Smart, Eco	✓		Auto lube ready	✓	
Automatic engine speed control	✓		Reversing cooling fan	✓	
Up to 4500 m (14,760 ft) altitude capability	✓		Grouped location for engine oil and fuel filters	✓	
52° C (126° F) high-ambient cooling capacity	✓		Scheduled Oil Sampling (S·O·S <sup>SM</sup> ) ports	✓	
-18° C (-0.4° F) cold start capability	✓		QuickEvac <sup>TM</sup> maintenance ready		✓
-32° C (-25° F) cold start capability		✓	<b>UNDERCARRIAGE AND STRUCTURES</b>		
Hydraulic reverse fan	✓		Long variable gauge undercarriage	✓	
Double element air filter with integrated precleaner	✓		650 mm (26") double grouser track shoes	✓	
Three vertical side-by-side cooling system	✓		750 mm (30") double grouser track shoes		✓
95 Amp alternator	✓		Grease lubricated track	✓	
DEF Tank	✓		Two-piece full-length track guiding guards		✓
<b>HYDRAULIC SYSTEM</b>			Swivel guard	✓	
Boom and stick regeneration circuit	✓		HD bottom guard	✓	
Electronic main control valve	✓		HD travel motor guard	✓	
Dedicated closed loop swing circuit	✓		15.45 mt (34,060 lb) counterweight	✓	
Automatic hydraulic oil warmup	✓		Towing eye on base frame	✓	
Automatic swing parking brake	✓				
Anti-reaction valve	✓				
High performance hydraulic return filter	✓				
Two speed travel	✓				
Advanced tool control		✓			
<b>SAFETY AND SECURITY</b>					
Caterpillar One Key security system	✓				
Lockable external tool/storage box	✓				
Lockable door, fuel, and hydraulic tank locks	✓				
Lockable fuel drain compartment	✓				
Service platforms with anti-skid plate	✓				
Full handrail mount on platform	✓				
Mirror package	✓				
Signaling/warning horn	✓				
Travel alarm		✓			
Swing alarm		✓			
Ground-level secondary engine shutoff switch	✓				
Rear and right-hand-sideview cameras	✓				
360° visibility		✓			
Inspection lighting		✓			

\*Paired with PL161 attachment locator

\*\*Subscription required

## Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

### CAB

- Joystick with horizontal sliders
- LH/RH electrical pedal for tool control
- Dual exit rear window kit
- Front windshield laminated glass (P5A glass, EU demolition regulation)

### SAFETY AND SECURITY

- Bluetooth key fob
- 76 mm (3") retractable seat belt

### GUARDS

- FOGS (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Rain protector for front windshield plus cab light cover

### OTHER ATTACHMENTS

- GNSS antennae

# 395 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® C18 engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 5, and Japan 2014 emission standards.
- All Cat nonroad U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, Korea Tier 5, India CEV Stage V, and China Nonroad Stage IV diesel engines are required to use ULSD (ultra-low sulfur diesel 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 (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.

*\*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 1.00 kg (2.2 lb) of refrigerant which has a CO<sub>2</sub> 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) – 109 dB(A)

ISO 6396 (inside cab) – 73 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 HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

## Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Advanced hydraulic systems balance power and efficiency
  - Smart mode matches machine power to digging requirements automatically
  - Eco mode minimizes fuel consumption for light applications
  - One-touch low idle with automatic engine speed control
  - Extended maintenance intervals reduce fluid and filter consumption

## 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	89.46%
Iron	5.97%
Nonferrous Metal	1.26%
Mixed Metal	0.08%
Mixed-Metal and Nonmetal	0.74%
Plastic	0.11%
Rubber	0.35%
Mixed Nonmetallic	0.24%
Fluid	1.27%
Other	0.52%
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](http://www.cat.com)

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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

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AEXQ2913-03 (12-2022)  
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Build Number: 07C  
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