



# 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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# 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>
Biodiesel Capability	Up to B20 <sup>(1)</sup>	

- Engine meets China Nonroad Stage III emission standards (U.S. EPA Tier 3 and EU Stage IIIA equivalent).
- 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, muffler, and alternator with engine speed at 1,900 rpm.
- Advertised power is tested per the specified standard in effect at the time of manufacture.

<sup>(1)</sup>Cat engines are compatible with the following renewable, alternative, and bio-fuels\* with lower greenhouse gas emission impact:

- ✓ Up to B20 biodiesel (FAME)\*\*
- ✓ Up to 100% HVO and GTL renewable fuels

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

\*\*For use of blends up to B100, consult your Cat dealer.

## Swing Mechanism

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

## Weights

Operating Weight	94 100 kg	207,400 lb
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- Long Variable Gauge undercarriage, Mass boom, M2.92JC (9'7") stick, SDV 6.5 m<sup>3</sup> (8.5 yd<sup>3</sup>) bucket, 650 mm (26") double grouser shoes and 15.45 mt (34,060 lb) counterweight.

## Track

Optional Track Shoes Width	750 mm	30 in
Optional Track Shoes Width	650 mm	26 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	130,614 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
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

## Standards

Brakes	ISO 10265:2008
Cab/FOGS	ISO 10262:1998

## Sound Performance

ISO 6395 (external)	109 dB(A)
ISO 6396 (inside cab)	80 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.

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## 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>				
Mass Boom + M2.92JC (9'7") Stick + 6.5 m <sup>3</sup> (8.5 yd <sup>3</sup> ) SDV Bucket	94 100 (207,400)	127.7 (18.5)	94 900 (209,300)	111.7 (16.2)
Mass Boom + M2.92JC (9'7") Stick + 7.0 m <sup>3</sup> (9.15 yd <sup>3</sup> ) GD Bucket	93 100 (205,200)	126.4 (18.3)	93 900 (207,100)	110.5 (16.0)

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

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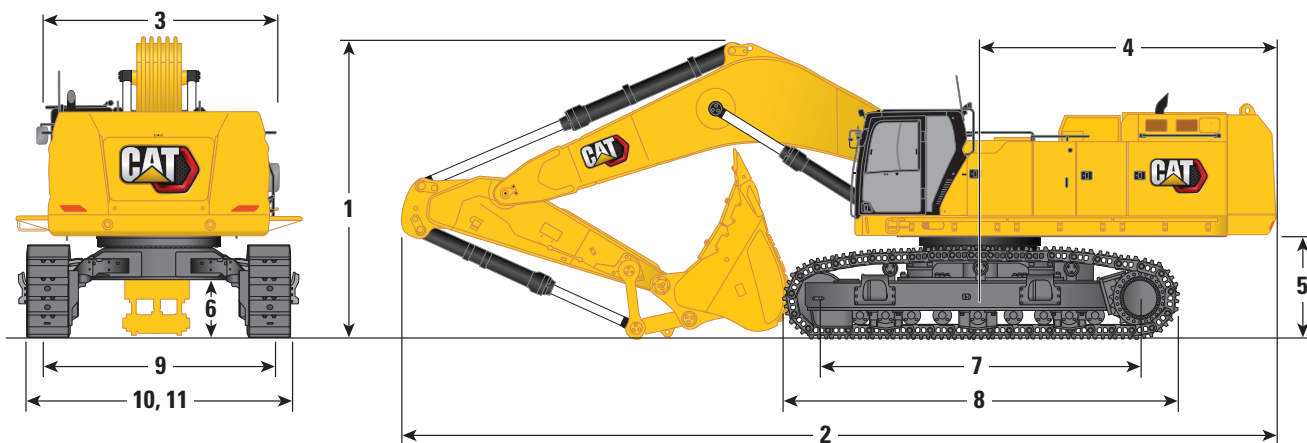
## Major Component Weights

	kg	lb
Base Machine Weight: including upperframe, 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	61 910	136,480
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
Boom (including lines, pins, stick cylinder):		
Mass Boom 7.25 m (23'9")	8560	18,880
Stick (including lines, pins, bucket cylinder, bucket linkage):		
Mass Stick M2.92JC (9'7")	5510	12,150
Bucket (without linkage):		
6.5 m <sup>3</sup> (8.5 yd <sup>3</sup> ) SDV	7790	17,170
7.0 m <sup>3</sup> (9.15 yd <sup>3</sup> ) GD	6780	14,950
Quick Coupler:		
Pin Grabber Quick Coupler	1730	3,820

# 395 Hydraulic Excavator Specifications

## Dimensions

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



### Boom Option

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

### Stick Option

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

#### 1 Machine Height:

Top of Cab Height	3670 mm	12'0"
Top of FOGS Height	3810 mm	12'6"
Handrails Height	3750 mm	12'4"
With Boom/Stick/Bucket Installed	5290 mm	17'4"
With Boom/Stick Installed	4490 mm	14'9"
With Boom Installed	3940 mm	12'11"
With Boom/Stick/Bucket Installed (with auxiliary lines)	5310 mm	17'5"
With Boom/Stick Installed (with auxiliary lines)	4560 mm	15'0"
With Boom Installed (with auxiliary lines)	4010 mm	13'2"

#### 2 Machine Length:

With Boom/Stick/Bucket Installed	13 990 mm	45'11"
With Boom/Stick Installed	13 770 mm	45'2"
With Boom Installed	11 980 mm	39'4"
With Boom/Stick/Bucket Installed (with auxiliary lines)	13 990 mm	45'11"
With Boom/Stick Installed (with auxiliary lines)	13 770 mm	45'2"
With Boom Installed (with auxiliary lines)	11 990 mm	39'4"

#### 3 Upperframe Width:

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

#### 4 Tail Swing Radius

4840 mm 15'11"

#### 5 Counterweight Clearance

1640 mm 5'5"

#### 6 Ground Clearance

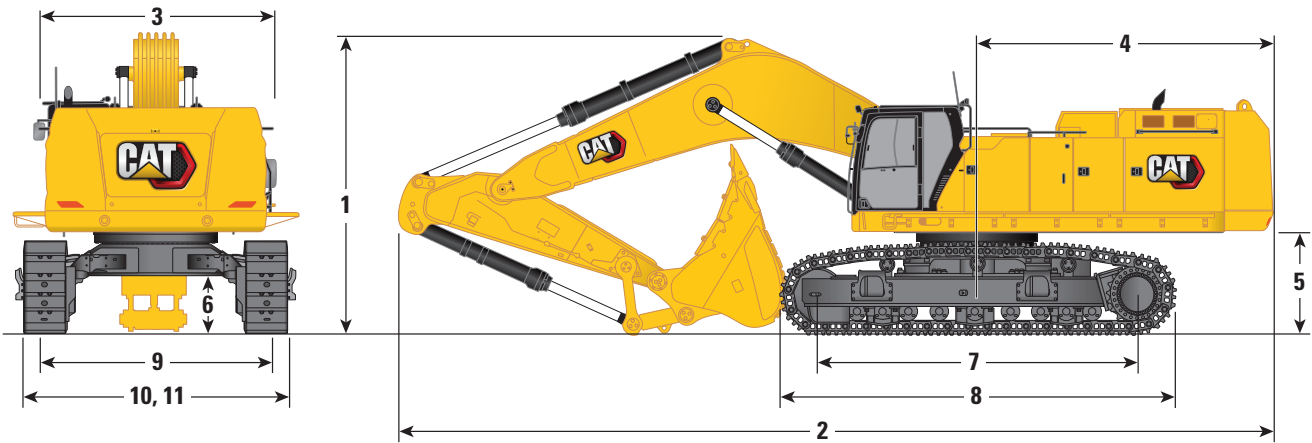
830 mm 2'9"

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# 395 Hydraulic Excavator Specifications

## Dimensions *(continued)*

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

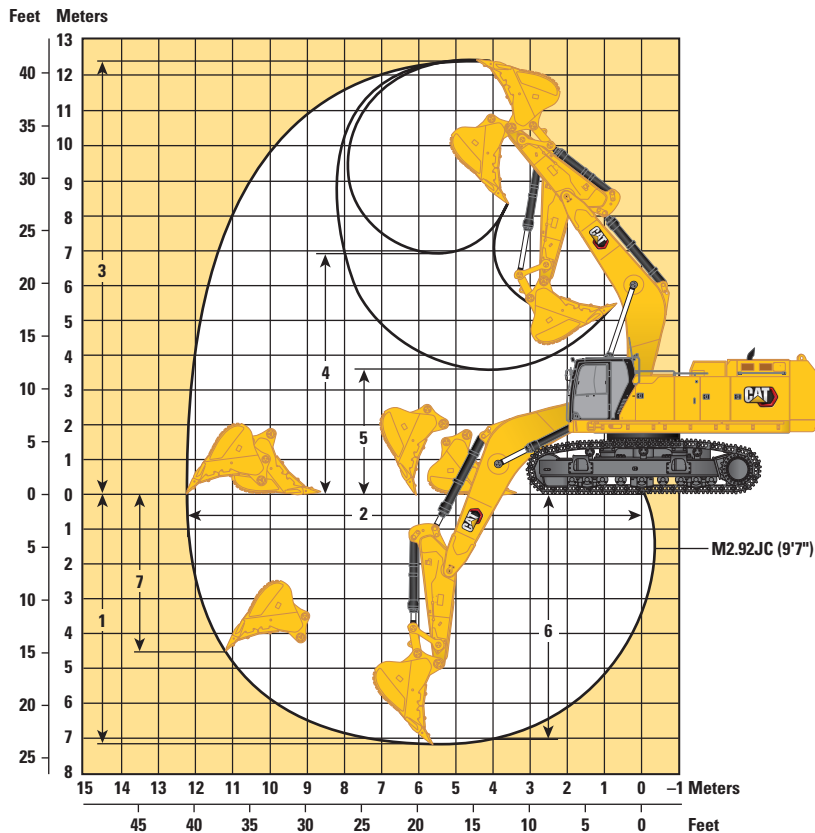


Boom Option	Mass Boom 7.25 m (23'9")	
Stick Option	Mass Stick M2.92JC (9'7")	
<b>7</b> Track Length – Length to Center of Rollers	5120 mm	16'10"
<b>8</b> Track Length	6350 mm	20'10"
<b>9</b> Track Gauge:		
Retracted	2750 mm	9'0"
Extended	3510 mm	11'6"
<b>10</b> Track Width – Retracted:		
650 mm (26") Shoes	3400 mm	11'2"
750 mm (30") Shoes	3500 mm	11'6"
Track Width – Extended:		
650 mm (26") Shoes	4160 mm	13'8"
750 mm (30") Shoes	4260 mm	14'0"
<b>11</b> Undercarriage Width – Retracted (with steps):		
650 mm (26") Shoes	3690 mm	12'1"
750 mm (30") Shoes	3690 mm	12'1"
Undercarriage Width – Extended (with steps):		
650 mm (26") Shoes	4450 mm	14'7"
750 mm (30") Shoes	4450 mm	14'7"
Bucket Type	GD	
Bucket Capacity	7.0 m <sup>3</sup>	9.15 yd <sup>3</sup>
Bucket Tip Radius	2440 mm	8'0"

# 395 Hydraulic Excavator Specifications

## Working Ranges

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



### Boom Option

Mass Boom  
7.25 m (23'9")

### Stick Option

Mass Stick  
M2.92JC (9'7")

1 Maximum Digging Depth	7100 mm	23'4"
2 Maximum Reach at Ground Line	12 170 mm	39'11"
3 Maximum Cutting Height	12 340 mm	40'6"
4 Maximum Loading Height	8050 mm	26'5"
5 Minimum Loading Height	3750 mm	12'4"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6960 mm	22'10"
7 Maximum Vertical Wall Digging Depth	4600 mm	15'1"
Bucket Digging Force (ISO)	497 kN	111,820 lbf
Stick Digging Force (ISO)	393 kN	88,420 lbf
Bucket Type	GD	
Bucket Capacity	7.0 m <sup>3</sup>	9.15 yd <sup>3</sup>
Bucket Tip Radius	2440 mm	8'0"

# 395 Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Long VG Undercarriage	
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		%	15.45 mt (34,060 lb) Counterweight
										7.25 m (23'9") Mass Boom
<b>Pin-On (No Quick Coupler)</b>										
General Duty	JC	2600	102	6.50	8.50	6237	13,749	100	⊖	
	JC	2800	110	7.00	9.15	6508	14,347	100	⊖	
Severe Duty	JC	2722	106	6.50	8.50	7380	16,269	90	⊖	
Heavy Duty Abrasion	JC	2700	106	7.10	9.29	6701	14,773	100	⊖	
Severe Duty – Spade Edge	JC	2650	104	6.50	8.50	7365	16,236	90	⊖	
Severe Duty – Extreme	JC	2500	98	5.70	7.50	7687	16,946	90	⊙	
	JC	2600	102	6.00	7.85	7873	17,356	90	⊙	
Extreme Duty – Spade Edge	JC	2550	100	6.00	7.85	8523	18,791	90	⊖	
Maximum load with pin-on (payload + bucket)								kg	17 122	
								lb	37,748	

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:

⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)

⊖ 1500 kg/m<sup>3</sup> (2,500 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

### PIN-ON ATTACHMENTS

Boom Type	Mass
Stick Length	2.92 m (9'7")
Hydraulic Hammers	H215 S ✓



# 395 Hydraulic Excavator Specifications

## Truck Pass Match

		Hauler	725	730	730 EJ	735	740 EJ	740 GC	745	770G	772G	773G	775G	777G
		<b>Capacity – metric tonnes (short tons)</b>	24 (26.5)	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)	96.6 (106.4)
Model	Bucket Size	<b>Material</b>												
395	6.5 m <sup>3</sup> (8.50 yd <sup>3</sup> )	<b>Earth</b>												
							3-4		4	3-4	4-5	5-6	6	
		<b>Limestone</b>												
					3-4	4-5	4	4-5	4-5	5	6	7		

	Earth	Limestone
<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

# 395 Standard and Optional Equipment

## 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™	✓	
2.92 m (9'7") Mass stick	✓		Work tool recognition	✓	
Bucket linkage, JC type without lifting eye	✓		Work tool tracking <sup>1</sup>	✓	
<b>CAB</b>			Auto hammer stop	✓	
Sound suppressed cab with viscous mounts	✓		Remote Services capability	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		<b>ELECTRICAL SYSTEM</b>		
High-resolution 254 mm (10") LCD touchscreen monitor		✓	Maintenance-free 1,400 CCA batteries (×2)	✓	
Automatic bi-level air conditioner	✓		Centralized electrical disconnect switch	✓	
Jog dial and shortcut keys for monitor control	✓		Chassis light	✓	
Keyless push-to-start engine control	✓		LED boom and cab lights		✓
Height-adjustable console, infinite with no tool	✓		<b>ENGINE</b>		
Tilt-up left-side console	✓		Cold start block heater		✓
Cat Stick Steer		✓	Three selectable modes: Power, Smart, Eco	✓	
Heated seat with air-adjustable suspension	✓		Automatic engine speed control	✓	
51 mm (2") orange seat belt	✓		Up to 4500 m (14,760 ft) altitude capability	✓	
Bluetooth® integrated radio (including USB, aux port and microphone)	✓		52° C (126° F) high-ambient cooling capacity	✓	
2 × 12V DC outlets	✓		-18° C (-0.4° F) cold start capability	✓	
Document storage	✓		-32° C (-25° F) cold start capability		✓
Cup and bottle holders	✓		Hydraulic reverse fan	✓	
Openable two-piece front window	✓		Double element air filter with integrated pre-cleaner	✓	
Upper radial wiper with washer	✓		Three vertical side-by-side cooling system	✓	
Openable polycarbonate skylight hatch	✓		Remote disable	✓	
LED dome light	✓		95 Amp alternator	✓	
Floor welcome light	✓				
Roller front sunscreen	✓				
Roller rear sunscreen		✓			
Rear window emergency exit	✓				
Washable floor mat	✓				
Beacon ready	✓				

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<sup>1</sup>Paired with PL161 attachment locator

## Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
<b>HYDRAULIC SYSTEM</b>			<b>SERVICE AND MAINTENANCE</b>		
Boom and stick regeneration circuit	✓		Auto lube ready	✓	
Electronic main control valve	✓		Reversing cooling fans	✓	
Dedicated closed loop swing circuit	✓		Grouped location for engine oil and fuel filters	✓	
Automatic hydraulic oil warmup	✓		Scheduled Oil Sampling (S·O·S <sup>SM</sup> ) ports	✓	
Automatic swing parking brake	✓		Electric refueling pump with auto shutoff		✓
High performance hydraulic return filter	✓		<b>UNDERCARRIAGE AND STRUCTURES</b>		
Two speed travel	✓		Long variable gauge undercarriage	✓	
Bio hydraulic oil capability	✓		Towing eye on base frame	✓	
Advanced tool control		✓	Grease lubricated track	✓	
Medium-pressure auxiliary circuit		✓	Three-piece segmented track guiding guards		✓
Quick coupler circuit		✓	Two-piece full-length track guiding guards		✓
<b>SAFETY AND SECURITY</b>			Swivel guard	✓	
Caterpillar One Key security system	✓		HD bottom guard	✓	
Lockable external tool/storage box	✓		HD travel motor guard	✓	
Lockable door, fuel, and hydraulic tank locks	✓		15.45 mt (34,060 lb) counterweight	✓	
Lockable fuel drain compartment	✓		650 mm (26") double grouser track shoes		✓
Service platforms with anti-skid plate	✓		750 mm (30") double grouser track shoes		✓
Full handrail mount on platform	✓				
Standard visibility mirror package	✓				
Signaling/warning horn	✓				
Ground-level secondary engine shutoff switch	✓				
Rearview camera	✓				
Walkway	✓				
Tilt-up walkway		✓			

## Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

### CAB

- Radial lower wiper
- 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)

### ELECTRICAL

- 1,800 lumen LED premium surround lights

### 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

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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AEXQ3017-02 (10-2021)  
Replaces AEXQ3017-01  
Build Number: 07B  
(China)

