

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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Engine		
Engine Model	Cat® C18	
Net Power – ISO 9249	404.3 kW	542 hp
Engine Power – ISO 14396	405 kW	543 hp
Bore	145 mm	6 in
Stroke	183 mm	7 in
Displacement	18.1 L	1,105 in ³

- Meets China Nonroad Stage IV emission standards.
- 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 1,900 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 (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 (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 6.26 rpm Maximum Swing Torque 362 kN⋅m 267,333 lbf-ft Weights Operating Weight 94 200 kg 209,400 lb

• Long Variable Gauge undercarriage, Mass boom, M2.92JC (9'7") stick, SDV 6.5 m³ (8.5 yd³) bucket, 650 mm (26") double grouser shoes and 15 450 kg (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	

Maximum Gradeability	35°/70%	
	4.6 km/h	20
Maximum Travel Speed	.,,	2.8 mph
Maximum Drawbar Pull	581 kN	130,614 lbf
Hydraulic System		
Main System – Maximum Flow	1064 L/min	281 gal/min
Implement	(532×2)	(141×2)
	pumps)	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	372 L	98 gal
(including suction pipe)		
Diesel Exhaust Fluid (DEF) Tank	80 L	21.1 gal
Standards		
Brakes	ISO 10265:2	008
Cab/Operator Protective Guards (OPG) (optional)	ISO 10262:1	998 Level II

Sound Performance		
GB/T 25614-2010 external	109 dB(A)	
GB/T 25615-2010 internal	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.

Operating Weights and Ground Pressures

	650 m Double Gro	750 mm (30") Double Grouser Shoes			
	Weight	Ground Pressure	Weight	Ground Pressure	
Base Machine Configurations		kPa (psi)	kg (lb)	kPa (psi)	
Base Frame with Track Rollers and Carrier Rollers					
15 450 kg (34,060 lb) Counterweight + Long Variable Gauge Undercarriage Base Machine					
Mass Boom + M2.92JC (9'7") Stick + 6.5 m ³ (8.5 yd ³) SDV Bucket	94 200 (207,600)	127.9 (18.5)	95 000 (209,500)	111.8 (16.2)	

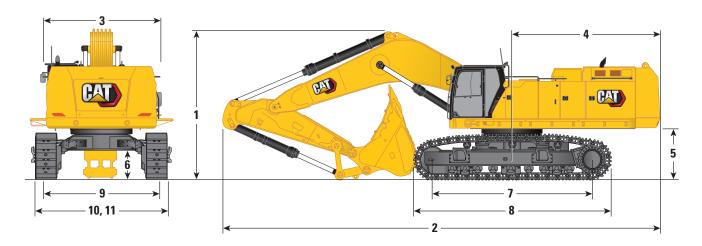
All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

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 15 450 kg (34,060 lb) Counterweight, Swing Frame, Base Frame with Track Rollers and Carrier Rollers	62 260	137,259
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:		
15 450 kg (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
Buckets (without linkage):		
6.5 m³ (8.5 yd³) SDV	7530	16,610

Dimensions

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

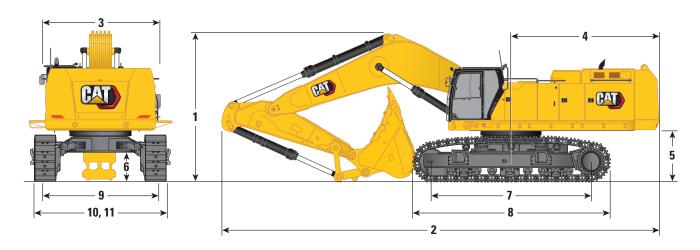


Boom Option		Mass Boom 7.25 m (23'9")		
Stick Option	Mass S M2.92JC			
1 Machine Height:				
Top of Cab Height	3670 mm	12'0"		
Top of OPG Height	3810 mm	12'6"		
Handrails Height	3750 mm	12'4"		
With Boom/Stick/Bucket Installed	5330 mm	17'6"		
With Boom/Stick Installed	4560 mm	15'0"		
With Boom Installed	3940 mm	12'11"		
With Boom/Stick/Bucket Installed (with auxiliary lines)	5350 mm	17'7"		
With Boom/Stick Installed (with auxiliary lines)	4630 mm	15'2"		
With Boom Installed (with auxiliary lines)	4010 mm	13'2"		
2 Machine Length:				
With Boom/Stick/Bucket Installed	13 980 mm	45'10"		
With Boom/Stick Installed	13 800 mm	45'3"		
With Boom Installed	11 980 mm	39'4"		
With Boom/Stick/Bucket Installed (with auxiliary lines)	13 980 mm	45'10"		
With Boom/Stick Installed (with auxiliary lines)	13 800 mm	45'3"		
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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Dimensions (continued)

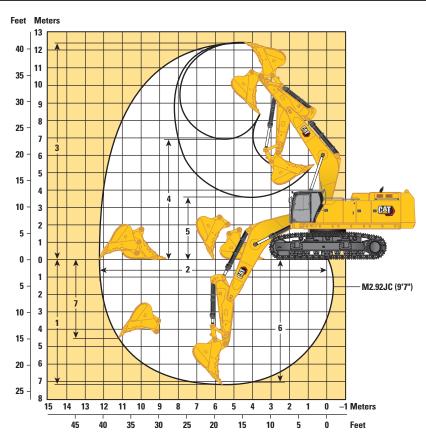
All dimensions are approximate and may vary depending on bucket selection.



Boom Option	Mass 1 7.25 m		
Stick Option	Mass Stick M2.92JC (9'7")		
7 Track Length – Length to Center of Rollers	5120 mm	16'10"	
8 Track Length	6350 mm	20'10"	
9 Track Gauge:			
Retracted	2750 mm	9'0"	
Extended	3510 mm	11'6"	
10 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"	
11 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	SD	V	
Bucket Capacity	6.5 m ³	8.5 yd ³	
Bucket Tip Radius	2530 mm	8'4"	

Working Ranges

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



Boom Option	Mass 7.25 m		
Stick Option	Mass Stick M2.92JC (9'7")		
1 Maximum Digging Depth	7190 mm	23'7"	
2 Maximum Reach at Ground Line	12 260 mm	40'3"	
3 Maximum Cutting Height	12 370 mm	40'7"	
4 Maximum Loading Height	7960 mm	26'1"	
5 Minimum Loading Height	3660 mm	12'0"	
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	7050 mm	23'2"	
7 Maximum Vertical Wall Digging Depth	4580 mm	15'0"	
Bucket Digging Force (ISO)	497 kN	111,820 lbf	
Stick Digging Force (ISO)	394 kN	88,570 lbf	
Bucket Type	SDV		
Bucket Capacity	6.5 m ³	8.5 yd ³	
Bucket Tip Radius	2530 mm	8'4"	

Bucket Specifications and Compatibility

		Wi	dth	Cap	acity	We	ight	Fill	Mass Boom
	Linkage	mm	in	m³	yd³	kg	lb	%	M2.92 m (9'7")
Pin-On (No Quick Coupler)									
General Duty	JC	2600	102	6.50	8.50	6237	13,749	100	Θ
	JC	2800	110	7.00	9.15	6508	14,347	100	Θ
	JC	2850	110	8.50	11.12	7230	15,939	100	0
Severe Duty	JC	2722	106	6.50	8.50	7380	16,269	90	Θ
	JC	2700	106	7.10	9.29	7476	16,481	90	Θ
Heavy Duty Abrasion	JC	2700	106	7.10	9.29	6701	14,773	100	Θ
Severe Duty – Spade Edge	JC	2650	104	6.50	8.50	7365	16,236	90	Θ
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	Θ
	-	1		Maximur	n load with p	in-on (payloa	d + bucket)	kg	17 340
								lb	38,229

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/m³ (3,000 lb/yd³)

→ 1500 kg/m³ (2,500 lb/yd³)

O 1000 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.

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		M 2.92 (9'7")
Hydraulic Hammers	H215 S	✓

Typical Pass Match Guide

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

Configuration*:

Long Variable Gauge undercarriage, Mass boom, M2.92JC (9'7") stick, SDV 6.5 m³ (8.5 yd³) bucket, 650 mm (26") double grouser shoes and 15 450 kg (34,060 lb) counterweight.

Passes Required to Fill Trucks to Rated Capacity

			Cat Articulated Trucks				Cat O	ff-Highway	Trucks		
Material Type	Material Density	Fill Factor	735	740 GC	740 EJ	745	770G	772G	773E	773G	775G
Earth	1600 kg/m³ (2,700 lb/yd³)	100%			3-4	4	3-4	4-5	5-6	5-6	6
Limestone	1540 kg/m³ (2,600 lb/yd³)	90%	3-4	4	4-5	4-5	4-5	5	6	6	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.

395 Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
BOOMS, STICKS AND LINKAGES		
7.25 m (23'9") Mass boom	\checkmark	
2.92 m (9'7") Mass stick	✓	
Bucket linkage, JC type without lifting eye	✓	
CAB		
Sound suppressed cab with viscous mounts	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓	
High-resolution 254 mm (10") LCD touchscreen monitor		✓
Automatic bi-level air conditioner	✓	
Jog dial and shortcut keys for monitor control	✓	
Keyless push-to-start engine control	✓	
Height-adjustable console, infinite with no tool	✓	
Tilt-up left-side console	✓	
Heated seat with air-adjustable suspension	✓	
51 mm (2") orange seat belt	✓	
Bluetooth® integrated radio (including USB, aux port and microphone)	✓	
2×12 V DC outlets	✓	
Document storage	✓	
Cup and bottle holders	✓	
Openable two-piece front window	✓	
Upper radial wiper with washer	✓	
Openable polycarbonate skylight hatch	✓	
LED dome light	✓	
Floor welcome light	✓	
Roller front sunscreen	✓	
Roller rear sunscreen		✓
Rear window emergency exit	✓	
Washable floor mat	✓	
Beacon ready	✓	

	Standard	Optional
CAT TECHNOLOGY		
Remote Flash	✓	
ELECTRICAL SYSTEM		
Maintenance-free 1,400 CCA batteries (×2)	✓	
Centralized electrical disconnect switch	✓	
Chassis light	✓	
LED boom and cab lights		✓
ENGINE		
Cold start block heater		✓
Three selectable modes: Power, Smart, Eco	✓	
Automatic engine speed control	✓	
Up to 4500 m (14,760 ft) altitude capability	✓	
52° C (126° F) high-ambient cooling capacity	✓	
−18° C (−0.4° F) cold start capability	✓	
-32° C (-25° F) cold start capability		✓
Hydraulic reverse fan	✓	
Double element air filter with integrated pre-cleaner	✓	
Three vertical side-by-side cooling system	✓	
Remote disable	✓	
95 Amp alternator	✓	

(continued on next page)

395 Standard and Optional Equipment

Standard and Optional Equipment (continued)

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

	Standard	Optional
HYDRAULIC SYSTEM		
Boom and stick regeneration circuit	✓	
Electronic main control valve	✓	
Dedicated closed loop swing circuit	✓	
Automatic hydraulic oil warmup	✓	
Automatic swing parking brake	✓	
High performance hydraulic return filter	✓	
Two speed travel	✓	
Bio hydraulic oil capability	✓	
Advanced tool control		✓
Medium-pressure auxiliary circuit		✓
Quick coupler circuit		✓
Hydraulic efficiency monitoring		✓
SAFETY AND SECURITY		
Caterpillar One Key security system	✓	
Auto hammer stop enhancement	✓	
Lockable external tool/storage box	✓	
Lockable door, fuel, and hydraulic tank locks	✓	
Lockable fuel drain compartment	✓	
Lockable disconnect switch	✓	
Service platforms with anti-skid plate	✓	
Full handrail mount on platform	✓	
Standard visibility mirror package	✓	
Signaling/warning horn	✓	
Ground-level secondary engine	✓	
shutoff switch		
Rearview camera	✓	
Walkway	✓	
Tilt-up walkway		✓
Inspection lighting		✓

	Standard	Optional
SERVICE AND MAINTENANCE		
Auto lube ready	✓	
Reversing cooling fans	✓	
Grouped location for engine oil and fuel filters	✓	
Scheduled Oil Sampling (S·O·S SM) ports	✓	
Electric refueling pump with auto shutoff		✓
Integrated vehicle health management system	✓	
UNDERCARRIAGE AND STRUCTURES		
Long variable gauge undercarriage	✓	
Towing eye on base frame	✓	
Grease lubricated track	✓	
Three-piece segmented track guiding guards		✓
Two-piece full-length track guiding guards		✓
Swivel guard	✓	
HD bottom guard	✓	
HD travel motor guard	✓	
15 450 kg (34,060 lb) counterweight	✓	
650 mm (26") double grouser track shoes		✓
750 mm (30") double grouser track shoes		✓

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

- OPG (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 395 meets China Nonroad Stage IV 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 (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 (for use of blends higher than 20% biodiesel, consult your Cat dealer).
- **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430).
 The system contains 1.0 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

GB/T 25614-2010 external	109 dB(A)	
GB/T 25615-2010 internal	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 system balances power and efficiency
- Smart mode matches machine power to digging requirements automatically
- Eco mode minimizes fuel consumption for light applications
- Cut maintenance costs with extended service intervals and longer life fuel, oil, and air filters

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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AEXQ3017-06 (12-2023) Replaces AEXQ3017-05 Build Number: 07D (China)

