



315

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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315 Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C3.6	
Net Power		
ISO 9249	80.9 kW	108 hp
ISO 9249 (DIN)	110 hp (metric)	
Engine Power		
ISO 14396	82 kW	110 hp
ISO 14396 (DIN)	111 hp (metric)	
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in ³
Biodiesel Capability	Up to B20 ⁽¹⁾	

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- No engine power derating required below 3000 m (9,840 ft) altitude.
- 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 2,400 rpm.

⁽¹⁾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	12.0 rpm	
Maximum Swing Torque	35 kN·m	25,815 lbf·ft

Weights

Operating Weight	13 300 kg	29,300 lb
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- Standard undercarriage, Reach boom, R2.5 (8'2") stick, GDX 0.52 m³ (0.68 yd³) bucket, 500 mm (20") triple grouser shoes and 2.53 mt (5,580 lb) counterweight.

Track

Optional Track Shoes Width	500 mm	20 in
Optional Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	700 mm	28 in
Number of Shoes (each side)	43	
Number of Track Rollers (each side)	6	
Number of Carrier Rollers (each side)	1	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.6 km/h	3.5 mph
Maximum Drawbar Pull	129 kN	29,000 lbf

Hydraulic System

Main System – Maximum Flow – Implement	276 L/min	73 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	26 000 kPa	3,770 psi
Boom Cylinder – Bore	105 mm	4 in
Boom Cylinder – Stroke	1023 mm	40 in
Stick Cylinder – Bore	115 mm	5 in
Stick Cylinder – Stroke	1147 mm	45 in
Bucket Cylinder – Bore	95 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in

Service Refill Capacities

Fuel Tank Capacity	187 L	49 gal
Cooling System	15 L	4 gal
Engine Oil	8 L	2 gal
Final Drive (each)	3 L	1 gal
Hydraulic System (including tank)	85 L	22.5 gal
Hydraulic Tank	72 L	19 gal
Diesel Exhaust Fluid (DEF) Tank	21 L	6 gal

Standards

Brakes	ISO 10265:2008
Cab/ROPS	ISO 12117-2:2008
Cab/FOGS	ISO 10262:1998

Sound Performance

ISO 6395:2008 (external)	101 dB(A)
ISO 6396:2008 (inside cab)	71 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.

315 Hydraulic Excavator Specifications

Weights and Ground Pressures

	500 mm (20") Triple Grouser Shoes		500 mm (20") Rubber Track Shoes		600 mm (24") Triple Grouser Shoes		700 mm (28") Triple Grouser Shoes	
	Weight kg (lb)	Ground Pressure kPa (psi)	Weight kg (lb)	Ground Pressure kPa (psi)	Weight kg (lb)	Ground Pressure kPa (psi)	Weight kg (lb)	Ground Pressure kPa (psi)
Base Machine Configurations								
Base Frame with Track Rollers and Carrier Rollers								
2.53 mt (5,580 lb) Counterweight + Standard Undercarriage Base Machine								
Reach Boom + R2.5 (8'2") Stick + 0.52 m ³ (0.68 yd ³) GDX Bucket	13 300 (29,300)	43.1 (6.2)	13 400 (29,500)	43.4 (6.3)	13 500 (29,800)	36.4 (5.3)	13 700 (30,200)	31.7 (4.6)
Power Offset Boom + R2.2 (7'3") Stick + 0.45 m ³ (0.59 yd ³) GDX Bucket + Blade	15 100 (33,300)	49.9 (7.2)	15 200 (33,500)	49.2 (7.1)	15 400 (80,700)	41.5 (6.0)	15 600 (34,400)	36.1 (5.2)
3.83 mt (8,440 lb) Counterweight + Standard Undercarriage Base Machine								
Reach Boom + R3.0 (9'10") Stick + 0.52 m ³ (0.68 yd ³) GDX Bucket	14 600 (32,200)	47.3 (6.9)	14 800 (32,600)	47.9 (6.9)	14 900 (32,800)	43.4 (6.3)	15 100 (33,300)	34.9 (5.1)

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

315 Hydraulic Excavator Specifications

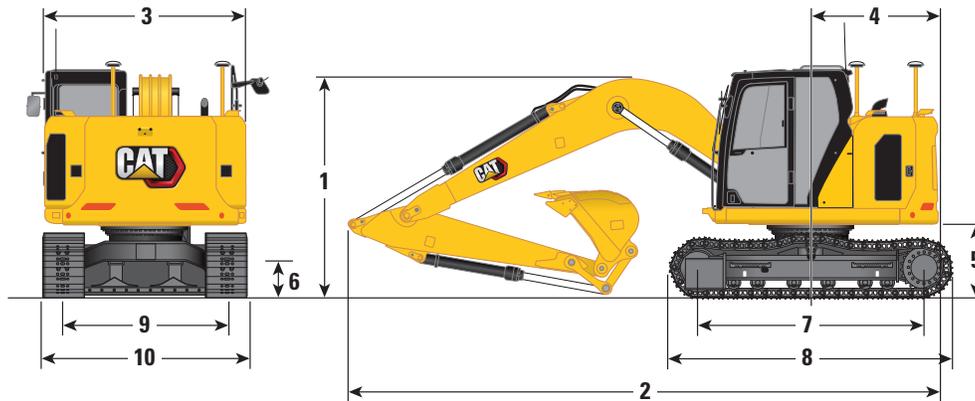
Major Component Weights

	kg	lb
Base Machine Weight: including upper frame, standard undercarriage, counterweight, without boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinders, tracks, blade, without 90% fuel tank, operator		
With 2.53 mt (5,580 lb) Counterweight	9320	20,500
With 2.53 mt (5,580 lb) Counterweight and Blade Compatible	9630	21,200
With 3.83 mt (8,440 lb) Counterweight	10 610	23,400
With 3.83 mt (8,440 lb) Counterweight and Blade Compatible	10 930	24,100
Track Shoes:		
500 mm (20") Triple Grouser Track Shoes	1440	3,170
500 mm (20") Rubber Track Shoes	1560	3,440
600 mm (24") Triple Grouser Track Shoes	1690	3,730
700 mm (28") Triple Grouser Track Shoes with Additional Steps	1890	4,150
Two Boom Cylinders	240	530
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	210	460
Blades (without lines, cylinders, frame modifications):		
2500 mm (8'2") Blade for use with 500 mm (20") Track Shoes	440	960
2600 mm (8'6") Blade for use with 600 mm (24") Track Shoes	490	1,080
2700 mm (8'10") Blade for use with 700 mm (30") Track Shoes	500	1,110
Counterweights:		
2.53 mt (5,580 lb) Counterweight	2530	5,580
3.83 mt (8,440 lb) Counterweight	3830	8,440
Swing Frame	1420	3,140
Undercarriage:		
Base Frame with Standard Track Rollers and One Carrier Rollers	2560	5,640
Base Frame with Standard Track Rollers and One Carrier Rollers (blade compatible)	2850	6,280
Booms (including lines, pins, stick cylinder):		
Reach Boom 4.65 m (15'3")	1030	2,270
Power Offset Boom 4.37 m (14'4")	1920	4,232
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R2.5 (8'2")	590	1,300
Reach Stick R3.0 (9'10")	650	1,440
Reach Stick R2.2 (7'3") for use with Power Offset Boom	790	1,741
Buckets (without linkage, with tips and side cutters):		
0.45 m ³ (0.59 yd ³) GDX Bucket	390	870
0.45 m ³ (0.59 yd ³) HDX Bucket	460	1,000
0.52 m ³ (0.68 yd ³) GDX Bucket	430	940
0.52 m ³ (0.68 yd ³) HDX Bucket	480	1,060
0.57 m ³ (0.74 yd ³) GDX Bucket	440	960
0.63 m ³ (0.82 yd ³) GDX Bucket	460	1,010
0.52 m ³ (0.68 yd ³) HDX Skeleton Bucket	450	980
Tamping	440	1,000
Tamping Rib Type	450	1,000
Two Bucket Pins	20	50
Quick Coupler:		
Pin Grabber Quick Coupler	210	470

315 Hydraulic Excavator Specifications

Dimensions

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



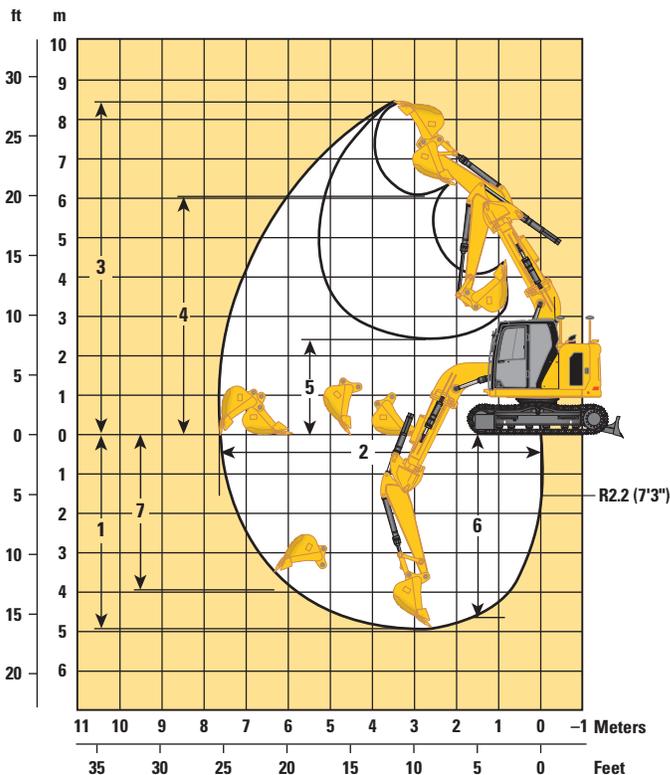
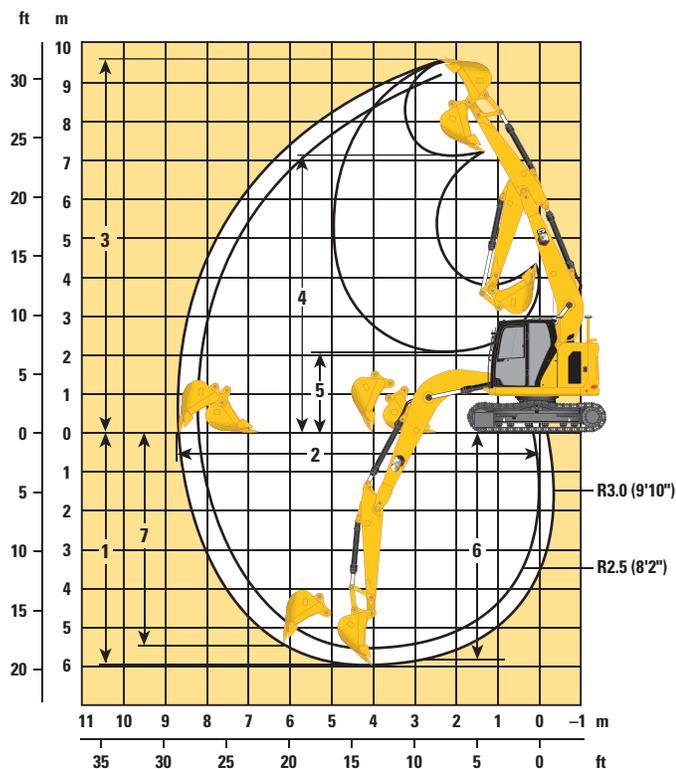
Boom Options	Reach Boom 4.65 m (15'3")		Power Offset Boom 4.27 m (14'4")		
	Reach Stick		Reach Stick		
Stick Options	R2.5 (8'2")	R3.0 (9'10")	R2.2 (7'3")		
1 Machine Height:*					
Top of Cab Height	2810 mm	9'3"	2810 mm	9'3"	2810 mm 9'3"
Top of FOGS Height	2960 mm	9'9"	2960 mm	9'9"	2960 mm 9'9"
Handrail Height	2860 mm	9'5"	2860 mm	9'5"	2860 mm 9'5"
With Boom/Stick/Bucket Installed (with stick cylinder lines)	2890 mm	9'6"	3180 mm	10'5"	2890 mm 9'6"
With Boom/Stick Installed (with stick cylinder lines)	2890 mm	9'6"	3180 mm	10'5"	2890 mm 9'6"
With Boom Installed (with stick cylinder lines)	2410 mm	7'11"	2410 mm	7'11"	— —
2 Machine Length (without blade):					
With Boom/Stick/Bucket Installed (with stick cylinder lines)	7310 mm	24'0"	7400 mm	24'3"	— —
With Boom/Stick Installed (with stick cylinder lines)	7310 mm	24'0"	7400 mm	24'3"	— —
With Boom Installed (with stick cylinder lines)	6510 mm	21'4"	6510 mm	21'4"	— —
Machine Length (with blade, blade rear):					
With Boom/Stick/Bucket Installed (with stick cylinder lines)	7870 mm	25'10"	7960 mm	26'1"	7310 mm 24'0"
With Boom/Stick Installed (with stick cylinder lines)	7870 mm	25'10"	7960 mm	26'1"	7310 mm 24'0"
With Boom Installed (with stick cylinder lines)	7070 mm	23'2"	7070 mm	23'2"	— —
3 Upperframe Width	2480 mm	8'2"	2480 mm	8'2"	2480 mm 8'2"
4 Tail Swing Radius:					
2.53 mt (5,580 lb) Counterweight	1490 mm	4'11"	1490 mm	4'11"	1490 mm 4'11"
3.83 mt (8,440 lb) Counterweight	1570 mm	5'2"	1570 mm	5'2"	— —
5 Counterweight Clearance	880 mm	2'11"	880 mm	2'11"	880 mm 2'11"
6 Ground Clearance	440 mm	1'5"	440 mm	1'5"	440 mm 1'5"
7 Track Length – Length to Center of Rollers	2780 mm	9'1"	2780 mm	9'1"	2780 mm 9'1"
8 Track Length	3490 mm	11'5"	3490 mm	11'5"	3490 mm 11'5"
9 Track Gauge	1990 mm	6'6"	1990 mm	6'6"	1990 mm 6'6"
10 Track Width/Undercarriage:					
500 mm (20") Shoes	2490 mm	8'2"	2490 mm	8'2"	2490 mm 8'2"
600 mm (24") Shoes	2590 mm	8'6"	2590 mm	8'6"	2590 mm 8'6"
700 mm (28") Shoes (with steps)	2690 mm	8'10"	2690 mm	8'10"	2690 mm 8'10"
Bucket Type	GDX		GDX		GDX
Bucket Capacity	0.52 m ³	0.68 yd ³	0.52 m ³	0.68 yd ³	0.45 m ³ 0.59 yd ³
Bucket Tip Radius	1230 mm	4'0"	1230 mm	4'0"	1230 mm 4'1"

*For models with rubber track shoes add 40 mm (1.6") to machine height dimensions.

315 Hydraulic Excavator Specifications

Working Ranges and Forces

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



Boom Options

Reach Boom
4.65 m (15'3")

Power Offset Boom
4.27 m (14'4")

Stick Options

Reach Stick

Reach Stick

R2.5 (8'2")

R3.0 (9'10")

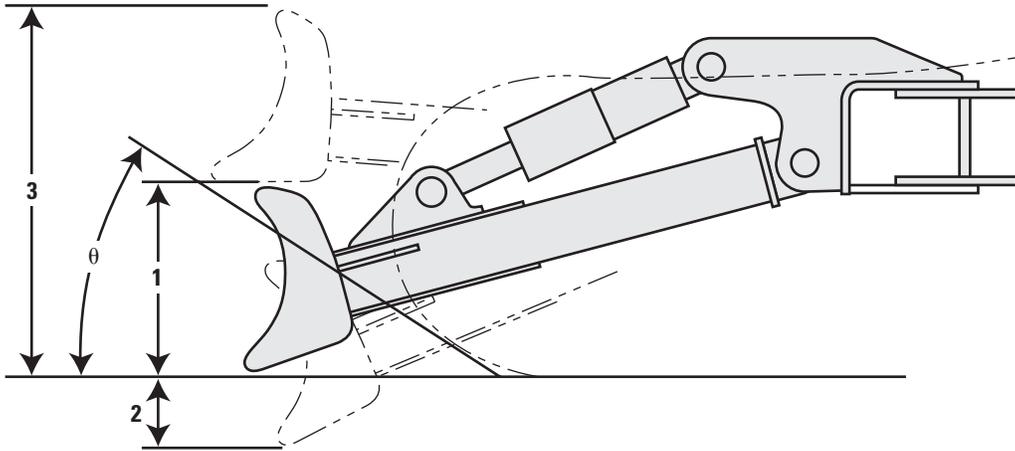
R2.2 (7'3")

	R2.5 (8'2")		R3.0 (9'10")		R2.2 (7'3")	
1 Maximum Digging Depth	5480 mm	18'0"	5980 mm	19'7"	4920 mm	16'2"
2 Maximum Reach at Ground Line	8220 mm	27'0"	8680 mm	28'6"	7630 mm	25'0"
3 Maximum Cutting Height	9330 mm	30'7"	9690 mm	31'9"	8460 mm	27'9"
4 Maximum Loading Height	6860 mm	22'6"	7230 mm	23'9"	6030 mm	19'9"
5 Minimum Loading Height	2530 mm	8'4"	2090 mm	6'10"	2480 mm	8'2"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5270 mm	17'3"	5800 mm	19'0"	4630 mm	15'2"
7 Maximum Vertical Wall Digging Depth	4980 mm	16'4"	5470 mm	17'11"	3930 mm	12'11"
Minimum Working Equipment Radius	1990 mm	6'6"	2240 mm	7'4"	1800 mm	5'11"
Bucket Digging Force (ISO)	98.43 kN	22,130 lbf	98.65 kN	22,180 lbf	87.70 kN	19,720 lbf
Stick Digging Force (ISO)	66.58 kN	14,970 lbf	59.17 kN	13,300 lbf	59.50 kN	13,380 lbf
Bucket Type	GDX		GDX		GDX	
Bucket Capacity	0.52 m ³	0.68 yd ³	0.52 m ³	0.68 yd ³	0.45 m ³	0.59 yd ³
Bucket Tip Radius	1230 mm	4'0"	1230 mm	4'0"	1230 mm	4'1"

315 Hydraulic Excavator Specifications

Blade Working Ranges

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



Blade Options	2500 mm (8'2")		2600 mm (8'6")		2700 mm (8'10")	
	1 Blade Height	616 mm	2'0"	616 mm	2'0"	616 mm
2 Maximum Lowering Depth from Ground	550 mm	1'10"	550 mm	1'10"	550 mm	1'10"
3 Maximum Raising Height above Ground	1018 mm	3'4"	1018 mm	3'4"	1018 mm	3'4"
θ Approach Angle	23°		23°		23°	

315 Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Standard Undercarriage					
		mm	in	m ³	yd ³	kg	lb		2.53 mt (5,580 lb) Counterweight		3.83 mt (8,440 lb) Counterweight			
									Reach Boom		Power Offset Boom*	Reach Boom		
									R2.5 (8'2")	R3.0 (9'10")	R2.2 (7'3")	R2.5 (8'2")	R3.0 (9'10")	
Pin-On (No Quick Coupler)														
General Duty Excavation	312	800	32	0.45	0.59	383	845	100	●	●	●	●	●	
	312	900	35	0.52	0.68	409	903	100	●	⊙	●	●	●	
	312	950	37	0.57	0.75	427	942	100	⊙	⊖	●	●	●	
	312	1000	39	0.63	0.82	448	989	100	⊖	○	⊙	●	●	
Heavy Duty Excavation	312	800	32	0.45	0.59	439	967	100	●	⊙	●	●	●	
	312	900	35	0.52	0.68	467	1,029	100	⊙	⊖	●	●	●	
Heavy Duty Excavation (Skeleton)	312	900	35.4	0.52	0.68	446	983	100	⊙	⊖	●	●	●	
Tamping	312	1800	71	0.29	0.38	436	962	100	●	●	●	●	●	
	312	1800	71	0.52	0.68	453	998	100	⊙	⊖	●	●	●	
Maximum load with pin-on (payload + bucket)									kg	1480	1300	1630	1920	1710
									lb	3,256	2,861	3,587	4,237	3,767
With Cat Pin Grabber Coupler														
General Duty Excavation	312	800	32	0.45	0.59	383	845	100	⊙	⊖	●	●	●	
	312	900	35	0.52	0.68	409	903	100	⊖	○	⊙	●	●	
	312	950	37	0.57	0.75	427	942	100	⊖	○	⊖	●	⊙	
	312	1000	39	0.63	0.82	448	989	100	○	◇	⊖	●	⊖	
Heavy Duty Excavation	312	800	32	0.45	0.59	439	967	100	⊙	⊖	●	●	●	
	312	900	35	0.52	0.68	467	1,029	100	⊖	○	⊙	●	●	
Heavy Duty Excavation (Skeleton)	312	900	35.4	0.52	0.68	446	983	100	⊖	○	⊙	●	●	
Tamping	312	1800	71	0.29	0.38	436	962	100	●	●	●	●	●	
	312	1800	71	0.52	0.68	453	998	100	⊖	○	⊙	●	●	
Maximum load with coupler (payload + bucket)									kg	1277	1098	1630	1722	1509
									lb	2,816	2,420	3,587	3,796	3,327

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.

*With blade

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)
- ◇ 900 kg/m³ (1,500 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.

315 Hydraulic Excavator Specifications

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

No Match

PIN-ON ATTACHMENTS

Counterweight		2.53 mt (5,580 lb)		3.83 mt (8,440 lb)	
Boom Type		Reach			
Stick Length		R2.5 (8'2")	R3.0 (9'10")	R2.5 (8'2")	R3.0 (9'10")
Hydraulic Hammers	H110 GC Side Mount	✓	✓	✓	✓
	H110 S	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Hydraulic Hammers	H110 GC Side Mount	✓	✓	✓	✓
	H110 S	✓	✓*	✓	✓*
	H115 S	✓*		✓*	

*Working range front only

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		
4.65 m (15'3") Reach boom	✓		Maintenance free battery	✓	
4.27 m (14'4") Power Offset boom		✓	Centralized electrical disconnect switch	✓	
3.0 m (9'10") Reach stick		✓	LED chassis light, left-hand/right-hand boom lights, cab lights	✓	
2.5 m (8'2") Reach stick	✓		Programmable time-delay LED working lights	✓	
2.2 m (7'3") Reach stick		✓	360° lighting		✓
Bucket linkage, without lifting eye, Cat Grade	✓		ENGINE		
Bucket linkage, with lifting hook for shovel crane, Cat Grade		✓	Cat® C3.6 single turbo diesel engine	✓	
CAT TECHNOLOGY			Three selectable modes: Power, Smart, Eco	✓	
Cat Product Link™	✓		One-touch low idle with automatic engine speed control	✓	
Remote Flash	✓		Automatic engine shutdown	✓	
Remote Troubleshoot	✓		52° C (125° F) high-ambient cooling capacity without derate	✓	
Cat Grade Connectivity*:		✓	-25° C (-13° F) cold start capability	✓	
- Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓		Variable speed fan (viscous clutch type)	✓	
- Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓		Single fuel filtration system	✓	
Cat Grade with 2D and offset memory*	✓		Sealed double element air filter with integrated pre-cleaner	✓	
Cat Grade with Advanced 2D*		✓	HYDRAULIC SYSTEM		
Cat Grade with 3D single GNSS*		✓	Boom and stick regeneration circuits	✓	
Cat Grade with 3D dual GNSS*		✓	Automatic hydraulic oil warm up	✓	
Cat Assist*:	✓		Automatic two-speed travel	✓	
- Boom Assist			Electric main control valve	✓	
- Bucket Assist			Boom and stick drift reduction valve	✓	
- Swing Assist			Swing drive	✓	
- Grade Assist			Electric boom snubber	✓	
Cat Payload*:	✓		Auxiliary line support	✓	
- Static weigh			Boom and stick lowering check valves		✓
- Semiautomatic calibration			Medium-pressure line		✓
- Payload/cycle information			High-pressure line		✓
- USB reporting capability			Quick coupler line		✓
2D E-Fence:	✓				
- E-ceiling					
- E-floor					
- E-swing					
- E-wall					
- E-cab avoidance					
Auto hammer stop*	✓				
Laser catcher*		✓			
Work tool recognition	✓				
Work tool tracking**	✓				

(continued on next page)

*Not available for machines equipped with a Power Offset boom.

**Requires PL161 attachment locator on work tool and Bluetooth® receiver on machine.

315 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			UNDERCARRIAGE AND STRUCTURES		
Cat Detect – People Detection		✓	Grease lubricated track link	✓	
Cat Command remote control		✓	Center track guiding guards	✓	
Rear and right-side-view cameras		✓	Bottom guards	✓	
360° visibility*		✓	Travel motor guards	✓	
Right-hand handrail and hand hold (ISO 2867:2011 compliant)	✓		Swivel guard		✓
Ground level engine shutoff switch	✓		500 mm (20") triple grouser track shoes		✓
Swing alarm		✓	500 mm (20") rubber track shoes		✓
Service platform with anti-skid plate and countersunk bolts	✓		600 mm (24") triple grouser track shoes		✓
Signaling/warning horn	✓		700 mm (28") triple grouser track shoes		✓
Inspection lighting		✓	2500 mm (8'2") blade		✓
SERVICE AND MAINTENANCE			2600 mm (8'6") blade		✓
Grouped engine oil and fuel filters	✓		2700 mm (8'10") blade		✓
Ground level engine oil dipstick	✓		2.53 mt (5,580 lb) counterweight		✓
Scheduled Oil Sampling (S·O·S SM) ports	✓		3.83 mt (8,440 lb) counterweight		✓
Integrated vehicle health management system		✓	ISO 15818:2017 tie-down points on base frame	✓	

*Only for use with 254 mm (10") monitor

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Left-hand and right-hand electrical pedal (two-way) for tool control
- Dual exit rear window kit
- Rain protector plus cab light cover
- Polycarbonate roof hatch (for comfort cab only)
- Front windshield laminated glass (P5A glass, EU demolition regulation)
- Key fob (for use with Bluetooth receiver)

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
- Full protecting vandalism guard

SAFETY AND SECURITY

- 76 mm (3") retractable seat belt

315 Cab Options

Cab Options

	Comfort	Deluxe
ROPS	●	●
High-resolution 203 mm (8") LCD touchscreen monitor*	●	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	X	●
Height-adjustable console, three steps with tool	●	X
Tilt-up left-side console	X	●
Fixed left-side console	●	X
Mechanical-suspension seat	●	X
Heated air-suspension 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	X	●
Beverage holder	●	●
Cup holder	●	●
Openable two-piece front window	●	●
Rear window emergency exit	●	●
Radial wiper with washer	●	●
Openable polycarbonate skylight hatch	X	●
Openable steel hatch	●	X
LED dome light	●	●
Roof sunscreen	X	●
Roller front sunscreen	●	●
Roller rear sunscreen	○	○
Washable floor mat	●	●
Beacon ready	●	●
Cat Stick Steer	○	○
Auxiliary relay	X	○

● Standard

○ Optional

X Not Available

*Not compatible with 360° visibility

** For use with 360° visibility

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® C3.6 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 0.8 kg (1.8 lb) of refrigerant which has a CO₂ equivalent of 1.144 metric tonnes (1.261 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) – 101 dB(A)

ISO 6396:2008 (inside cab) – 71 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.
 - 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
 - Cat Grade with 2D improves operator efficiency by up to 45%
 - Extended maintenance intervals reduce fluid and filter consumption
 - Remote Flash and Remote Troubleshoot

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	84.65%
Iron	4.60%
Nonferrous Metal	1.71%
Mixed Metal	0.33%
Mixed-Metal and Nonmetal	2.20%
Plastic	0.07%
Rubber	1.54%
Mixed Nonmetallic	1.33%
Fluid	2.20%
Other	1.37%
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 – 95%



315

Forestry Hydraulic Excavator

The Cat® 315 Forestry excavator is specially modified for the tough terrain of forestry applications. The machine features a tool control system to maximize the forestry work tools, a reinforced upper frame and a specially designed boom and stick for forestry. Count on the versatility of the 315 to perform the tasks you need for forestry operations.

Machine Modifications to Meet Tough Terrain

- One-Piece boom and 2.5 m (8'2") stick designed for forestry.
- Reinforced upper frame.
- Additional mesh screen and covers prevent entry of dry, dead debris.
- Optional single grouser 500 mm (20") shoe for improved traction on slopes.
- Special tool tray located in front of the cab structure.
- Mounting points for fire extinguisher are offered from factory.
- Safety features such as rear and right-hand side cameras and optional 360° Visibility.
- Machine protection including boom, swing drive covers and heavy duty bottom guard with openable gate under engine portion for cleaning.
- Tool control system for forestry to maximize harvester and grapple performance.

315 Hydraulic Excavator – Forestry Specifications

Engine

Engine Model	Cat® C3.6	
Net Power		
ISO 9249	80.9 kW	108 hp
ISO 9249 (DIN)	110 hp (metric)	
Engine Power		
ISO 14396	82 kW	110 hp
ISO 14396 (DIN)	111 hp (metric)	
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in ³
Biodiesel Capability	Up to B20 ⁽¹⁾	

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- No engine power derating required below 3000 m (9,840 ft) altitude.
- 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 2,400 rpm.

⁽¹⁾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	10.76 rpm	
Maximum Swing Torque	35 kN·m	25,815 lbf·ft

Weights

Operating Weight – Forest Harvester 15 300 kg 33,700 lb

- Standard undercarriage, Reach boom, R2.5 (8'2") stick, GDX 0.52 m³ (0.68 yd³) bucket, 500 mm (20") single grouser shoes and 3.83 mt (8,440 lb) counterweight.

Operating Weight – Forest Grapple 15 100 kg 33,300 lb

- Standard undercarriage, Reach boom, R2.5 (8'2") stick, GDX 0.52 m³ (0.68 yd³) bucket, 500 mm (20") single grouser shoes and 3.83 mt (8,440 lb) counterweight.

Track

Standard Track Shoes Width	500 mm	20 in
Optional Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	700 mm	28 in
Number of Shoes (each side)	43	
Number of Track Rollers (each side)	6	
Number of Carrier Rollers (each side)	1	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.6 km/h	3.5 mph
Maximum Drawbar Pull	129 kN	29,000 lbf

Hydraulic System

Main System – Maximum Flow – Implement	276 L/min	73 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	26 000 kPa	3,770 psi
Boom Cylinder – Bore	105 mm	4 in
Boom Cylinder – Stroke	1023 mm	40 in
Stick Cylinder – Bore	115 mm	5 in
Stick Cylinder – Stroke	1147 mm	45 in
Bucket Cylinder – Bore	95 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in

Service Refill Capacities

Fuel Tank Capacity	187 L	49.4 gal
Cooling System	15 L	4.0 gal
Engine Oil	8 L	2.1 gal
Final Drive (each)	3 L	0.8 gal
Hydraulic System (including tank)	85 L	22.5 gal
Hydraulic Tank	72 L	19.0 gal
DEF Tank	21 L	5.5 gal

Standards

Brakes	ISO 10265:2008
Cab/ROPS	ISO 12117-2:2008
Cab/FOGS	ISO 10262:1998

Sound Performance

ISO 6395:2008 (external)	101 dB(A)
ISO 6396:2008 (inside cab)	71 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.

315 Hydraulic Excavator – Forestry Specifications

Weights and Ground Pressures

	500 mm (20") Single Grouser Shoes		500 mm (20") Triple Grouser Shoes		600 mm (24") Triple Grouser Shoes		700 mm (28") Triple Grouser Shoes		
	Weight	Ground Pressure							
	kg (lb)	kPa (psi)							
Base Machine Configurations									
Base Frame with Track Rollers and Carrier Rollers									
3.83 mt (8,440 lb) Counterweight + Standard Undercarriage Base Machine for Harvester									
Reach Boom + R2.5 (8'2") Stick + 0.52 m ³ (0.68 yd ³) GDX Bucket	15 100 (33,300)	48.9 (7.1)	14 800 (32,600)	47.9 (7.0)	15 100 (33,300)	40.7 (5.9)	15 300 (33,700)	35.4 (5.1)	
Reach Boom + R2.5 (8'2") Stick + 0.52 m ³ (0.68 yd ³) GDX Bucket + Blade	15 800 (34,800)	51.1 (7.4)	15 600 (34,400)	50.5 (7.3)	15 900 (35,100)	42.9 (6.2)	16 100 (35,500)	37.2 (5.4)	
3.83 mt (8,440 lb) Counterweight + Standard Undercarriage Base Machine for Grapple									
Reach Boom + R2.5 (8'2") Stick + 0.52 m ³ (0.68 yd ³) GDX Bucket	15 100 (33,300)	48.9 (7.1)	14 800 (32,600)	47.9 (7.0)	15 100 (33,300)	40.7 (5.9)	15 300 (33,700)	35.4 (5.1)	
Reach Boom + R2.5 (8'2") Stick + 0.52 m ³ (0.68 yd ³) GDX Bucket + Blade	15 900 (35,100)	51.5 (7.5)	15 600 (34,400)	50.5 (7.3)	15 900 (35,100)	42.9 (6.2)	16 100 (35,500)	37.2 (5.4)	

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

315 Hydraulic Excavator – Forestry Specifications

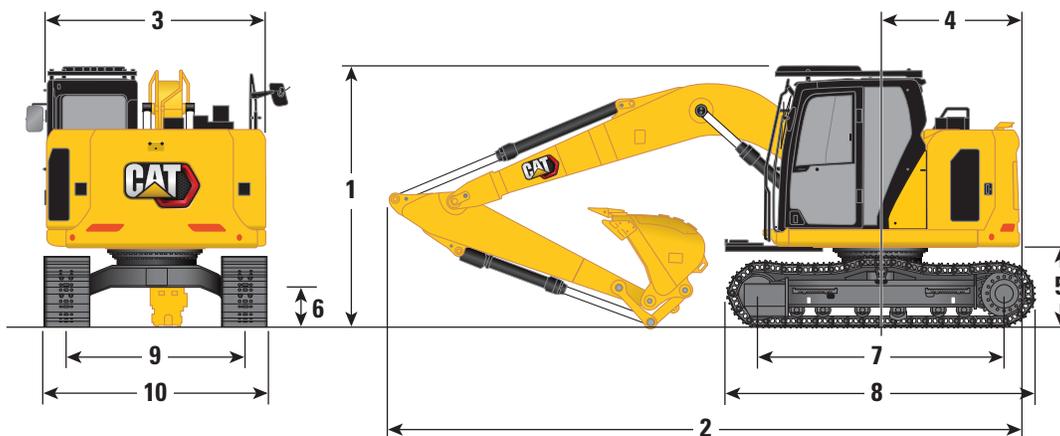
Major Component Weights

	kg	lb
Base Machine Weight: including upper frame, standard undercarriage, counterweight, without boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinders, tracks, blade, without 90% fuel tank, operator, blade		
With 3.83 mt (8,440 lb) Counterweight	10 840	23,900
With 3.83 mt (8,440 lb) Counterweight and Blade Compatible	11 160	24,600
Track Shoes:		
500 mm (20") Single Grouser Track Shoes Forest	1720	3,800
500 mm (20") Triple Grouser Track Shoes	1440	3,200
600 mm (24") Triple Grouser Track Shoes	1690	3,700
700 mm (28") Triple Grouser Track Shoes with Additional Steps	1890	4,200
Two Boom Cylinders	240	500
Upper Structure (without counterweight, frame, 90% fuel tank, operator):		
Upper Structure for Forestry	2910	6,420
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	210	500
Blades (without lines, cylinders, frame modifications):		
2500 mm (8'2") Blade for use with 500 mm (20") Track Shoes	440	1,000
2600 mm (8'6") Blade for use with 600 mm (24") Track Shoes	490	1,100
2700 mm (8'10") Blade for use with 700 mm (30") Track Shoes	500	1,100
Counterweight:		
3.83 mt (8,440 lb) Counterweight	3830	8,400
Swing Frame:		
HD Swing Frame	1540	3,400
Undercarriage:		
Base Frame with Standard Track Rollers and One Carrier Rollers	2560	5,600
Base Frame with Standard Track Rollers and One Carrier Rollers for Standard Undercarriage (Blade Compatible)	2850	6,300
Booms (including lines, pins, stick cylinder):		
Reach Boom 4.65 (15'3") for Harvester	890	2,000
Reach Boom 4.65 (15'3") for Grapple	920	2,000
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R2.5 (8'2") for Harvester	620	1,400
Reach Stick R2.5 (8'2") for Grapple	630	1,400
Buckets (without linkage, with tips and side cutters):		
0.45 m ³ (0.59 yd ³) GDX Bucket	390	900
0.45 m ³ (0.59 yd ³) HDX Bucket	460	1,000
0.52 m ³ (0.68 yd ³) GDX Bucket	430	900
0.52 m ³ (0.68 yd ³) HDX Bucket	480	1,100
0.57 m ³ (0.74 yd ³) GDX Bucket	440	1,000
0.63 m ³ (0.82 yd ³) GDX Bucket	460	1,000
0.52 m ³ (0.68 yd ³) HDX Skelton Bucket	450	1,000
Tamping	440	1,000
Tamping Rib Type	450	1,000
Two Bucket Pin	20	40
Guard:		
FOGS	120	300
Quick Coupler:		
Pin Grabber Quick Coupler	210	500

315 Hydraulic Excavator – Forestry Specifications

Dimensions

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



Boom Option

Reach Boom
4.65 m (15'3")

Stick Options

Reach Stick
R2.5 (8'2") for Forestry

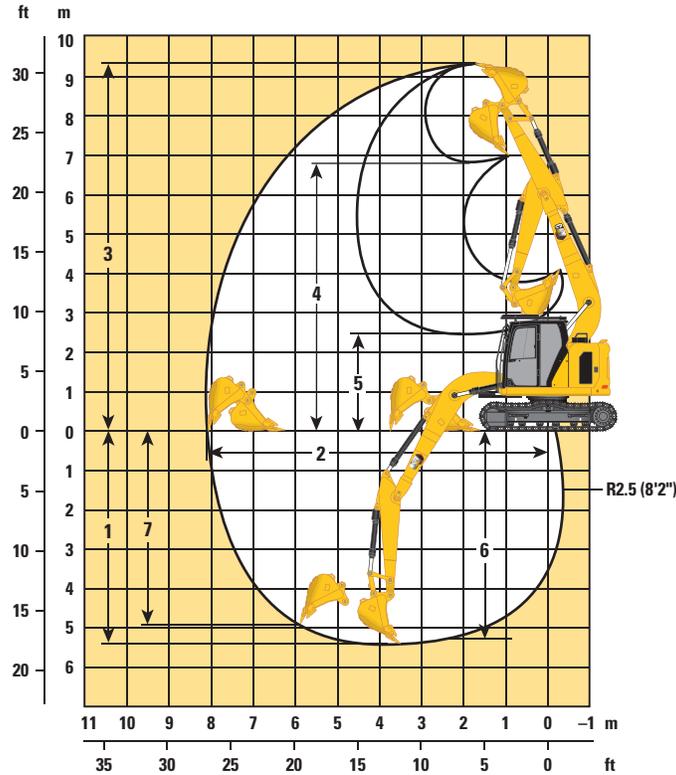
1 Machine Height (with triple grouser track shoes)*		
Top of Cab Height	2810 mm	9'3"
Top of FOGS Height	2960 mm	9'9"
Handrails Height	2860 mm	9'5"
With Boom/Stick/Bucket Installed (with stick cylinder lines)	2890 mm	9'6"
With Boom/Stick Installed (with stick cylinder lines)	2890 mm	9'6"
With Boom Installed (with stick cylinder lines)	2410 mm	7'11"
2 Machine Length (without blade):		
With Boom/Stick/Bucket Installed (with stick cylinder lines)	7310 mm	24'0"
With Boom/Stick Installed (with stick cylinder lines)	7310 mm	24'0"
With Boom Installed (with stick cylinder lines)	6440 mm	21'2"
Machine Length (with blade, blade rear):		
With Boom/Stick/Bucket Installed (with stick cylinder lines)	8000 mm	26'3"
With Boom/Stick Installed (with stick cylinder lines)	8000 mm	26'3"
With Boom Installed (with stick cylinder lines)	7130 mm	23'5"
3 Upperframe Width	2480 mm	8'2"
4 Tail Swing Radius:		
3.83 mt (8,440 lb) Counterweight	1570 mm	5'2"
5 Counterweight Clearance	880 mm	2'11"
6 Ground Clearance	440 mm	1'5"
7 Track Length – Length to Center of Rollers	2780 mm	9'1"
8 Track Length	3490 mm	11'5"
9 Track Gauge	1990 mm	6'6"
10 Track Width/Undercarriage Width:		
500 mm (20") Shoes	2490 mm	8'2"
600 mm (24") Shoes	2590 mm	8'6"
700 mm (28") Shoes (with steps)	2690 mm	8'10"
Bucket Type		GDX
Bucket Capacity	0.52 m ³	0.68 yd ³
Bucket Tip Radius	1230 mm	4'0"

*For models with single grouser track shoes add 30 mm (1.2") to machine height dimensions.

315 Hydraulic Excavator – Forestry Specifications

Working Ranges and Forces

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



Boom Option

Reach Boom
4.65 m (15'3")

Stick Options

Reach Stick

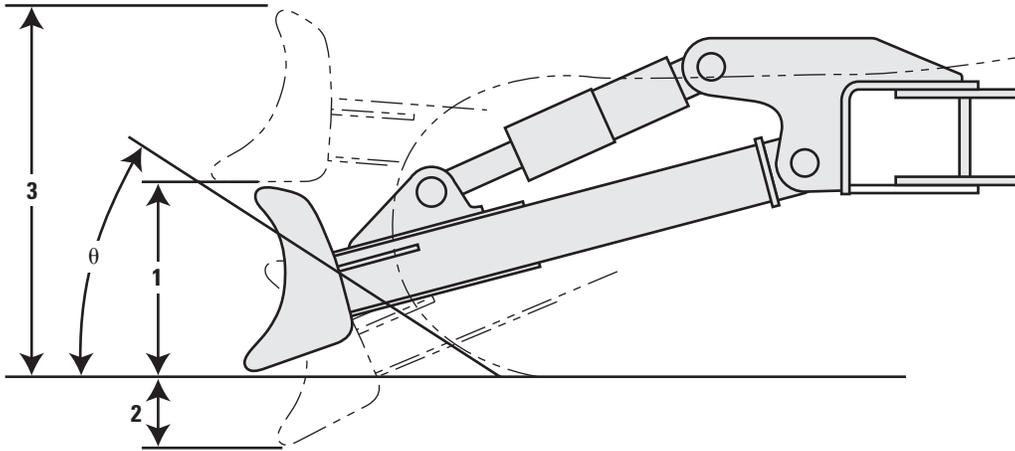
R2.5 (8'2") for Forestry

1 Maximum Digging Depth	5480 mm	18'0"
2 Maximum Reach at Ground Line	8220 mm	27'0"
3 Maximum Cutting Height	9330 mm	30'7"
4 Maximum Loading Height	6860 mm	22'6"
5 Minimum Loading Height	2520 mm	8'3"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5270 mm	17'3"
7 Maximum Vertical Wall Digging Depth	4980 mm	16'4"
Minimum Working Equipment Radius	1980 mm	6'6"
Bucket Digging Force (ISO)	98.43 kN	22,130 lbf
Stick Digging Force (ISO)	66.51 kN	14,950 lbf
Bucket Type	GDX	
Bucket Capacity	0.52 m ³	0.68 yd ³
Bucket Tip Radius	1230 mm	4'0"

315 Hydraulic Excavator – Forestry Specifications

Blade Working Ranges

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



Blade Options	2500 mm (8'2")		2600 mm (8'6")		2700 mm (8'10")	
1 Blade Height	616 mm	2'0"	616 mm	2'0"	616 mm	2'0"
2 Maximum Lowering Depth from Ground	550 mm	1'10"	550 mm	1'10"	550 mm	1'10"
3 Maximum Raising Height above Ground	1018 mm	3'4"	1018 mm	3'4"	1018 mm	3'4"
θ Approach Angle	23°		23°		23°	

315 Forestry Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS, STICKS AND LINKAGES			CAT TECHNOLOGY		
4.65 m (15'3") Reach boom	✓		Cat Product Link™	✓	
2.5 m (8'2") Reach stick	✓		Remote Flash	✓	
Bucket linkage, without lifting eye ⁽¹⁾	✓		Remote Troubleshoot	✓	
CAB			Auto Hammer Stop	✓	
ROPS	✓		Work tool recognition	✓	
High-resolution 254 mm (10") LCD touch screen monitor*	✓		Work tool tracking**	✓	
Auto bi-level air conditioner	✓		ELECTRICAL SYSTEM		
Jog dial and shortcut keys for monitor control	✓		Maintenance free battery	✓	
Keyless push-to-start engine control	✓		Centralized electrical disconnect switch	✓	
Height-adjustable console	✓		LED chassis light, left-hand/right-hand boom lights	✓	
Tilt-up left-side console	✓		LED cab light for FOGS	✓	
Heated air-suspension seat	✓		Programmable time-delay LED working lights	✓	
51 mm (2") seat belt	✓		ENGINE		
Monitor integrated Bluetooth® radio with USB/Aux ports	✓		Cat C3.6 single turbo diesel engine	✓	
12V DC outlets	✓		Three selectable modes: Power, Smart, Eco	✓	
Document storage	✓		One-touch low idle with automatic engine speed control	✓	
Overhead storage and rear storage with nets	✓		Automatic engine shutdown	✓	
Beverage holder	✓		52° C (125° F) high-ambient cooling capacity without derate	✓	
Cup holder	✓		-25° C (-13° F) cold start capability	✓	
Openable two-piece front window	✓		Electric fuel priming pump	✓	
Rear window emergency exit	✓		Variable speed fan	✓	
Radial wiper with washer	✓		Single fuel filtration system	✓	
Openable polycarbonate skylight hatch	✓		Sealed double element air filter with integrated pre-cleaner	✓	
LED dome light	✓		**Requires PL161 attachment locator on work tool and Bluetooth receiver on machine.		
Roller front sunscreen	✓		<i>(continued on next page)</i>		
Roller rear sunscreen		✓			
Washable floor mat	✓				
Beacon ready	✓				
Cat Stick Steer		✓			
Auxiliary relay		✓			

⁽¹⁾Optional for Harvester

*Only for use with 360° visibility.

315 Forestry 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
HYDRAULIC SYSTEM			UNDERCARRIAGE AND STRUCTURES		
Boom and stick regeneration circuits	✓		Standard undercarriage	✓	
Automatic hydraulic oil warm up	✓		500 mm (20") triple grouser track shoes		✓
Automatic two-speed travel	✓		500 mm (20") single grouser track shoes		✓
Electric main control valve	✓		600 mm (24") triple grouser track shoes		✓
Boom and stick drift reduction valve	✓		700 mm (28") triple grouser track shoes		✓
Swing drive, without fine swing control function	✓		Grease lubricated track link	✓	
Electric boom snubber	✓		2500 mm (8'2") blade		✓
High-pressure line	✓		2600 mm (8'6") blade		✓
Medium-pressure line ⁽²⁾		✓	2700 mm (8'10") blade		✓
Medium-pressure line and drain line		✓	Center track guiding guards	✓	
SAFETY AND SECURITY			HD bottom guards (openable gate under engine)	✓	
Rear and right-side-view cameras		✓	HD travel motor guards	✓	
360° visibility for FOGS		✓	Swivel guards	✓	
Ground level engine shutoff switch	✓		3.83 mt (8,440 lb) counterweight	✓	
Swing alarm		✓	Tie-down points (ISO 15818:2017 compliant)	✓	
Service platform with anti-skid plate and countersunk bolts	✓				
Signaling/warning horn	✓				
FOGS (not compatible with cab light cover, rain protector)	✓				
SERVICE AND MAINTENANCE					
Grouped engine oil and fuel filters	✓				
Ground level engine oil dipstick	✓				
S·O·S SM sampling ports	✓				
Integrated vehicle health management system		✓			

⁽²⁾For Grapple only

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Left-hand and right-hand electrical pedal (two-way) for tool control
- Dual exit rear window kit
- Rain protector plus cab light cover
- Front windshield laminated glass (P5A glass, EU demolition regulation)
- Key fob (for use with Bluetooth receiver)

GUARDS

- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Full protecting vandalism guard

SAFETY AND SECURITY

- 76 mm (3") retractable seat belt

OTHER ATTACHMENTS

- Grease gun holder



315

Demolition Hydraulic Excavator

The Cat® 315 Demolition excavator is purpose built for the rigor of demolition applications. The machine features a reinforced upper frame, as well as a specially designed boom and stick for demolition. The 315 is ready to help you tear through your next job.

Machine Modifications for Demolition

- One-piece boom with lifting eye and 2.5 m (8'2") HD stick designed for demolition.
- Reinforced upper frame.
- Two counterweight options for added machine stability.
- Optional frontless configuration for the flexibility to match the machine front to your specific application.
- Demolition cab with better visibility, laminated windshield and skylight wiper.
- Safety features such as rear and right-hand side cameras and optional 360° Visibility.
- Shovel crane function is available as optional.
- Front less configuration is available.

315 Hydraulic Excavator – Demolition Specifications

Engine

Engine Model	Cat® C3.6	
Net Power		
ISO 9249	80.9 kW	108 hp
ISO 9249 (DIN)	110 hp (metric)	
Engine Power		
ISO 14396	82 kW	110 hp
ISO 14396 (DIN)	111 hp (metric)	
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in ³
Biodiesel Capability	Up to B20 ⁽¹⁾	

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- No engine power derating required below 3000 m (9,840 ft) altitude.
- 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 2,400 rpm.

⁽¹⁾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	10.76 rpm	
Maximum Swing Torque	35 kN·m	25,815 lbf·ft

Weights

Operating Weight	13 500 kg	29,800 lb
------------------	-----------	-----------

- Standard undercarriage, Reach boom, HD R2.5 (8'2") stick, HDX 0.52 m³ (0.68 yd³) bucket, 500 mm (20") triple grouser shoes and 2.53 mt (5,580 lb) counterweight.

Track

Standard Track Shoes Width	500 mm	20 in
Number of Shoes (each side)	43	
Number of Track Rollers (each side)	6	
Number of Carrier Rollers (each side)	1	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.6 km/h	3.5 mph
Maximum Drawbar Pull	129 kN	29,000 lbf

Hydraulic System

Main System – Maximum Flow – Implement	276 L/min	73 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	26 000 kPa	3,770 psi
Boom Cylinder – Bore	105 mm	4 in
Boom Cylinder – Stroke	1023 mm	40 in
Stick Cylinder – Bore	115 mm	5 in
Stick Cylinder – Stroke	1147 mm	45 in
Demolition Bucket Cylinder – Bore	105 mm	4 in
Demolition Bucket Cylinder – Stroke	1103 mm	43 in

Service Refill Capacities

Fuel Tank Capacity	187 L	49.4 gal
Cooling System	15 L	4.0 gal
Engine Oil	8 L	2.1 gal
Final Drive (each)	3 L	0.8 gal
Hydraulic System (including tank)	85 L	22.5 gal
Hydraulic Tank	72 L	19.0 gal
DEF Tank	21 L	5.5 gal

Standards

Brakes	ISO 10265:2008
Cab/ROPS	ISO 12117-2:2008
Cab/FOGS	ISO 10262:1998

Sound Performance

ISO 6395:2008 (external)	101 dB(A)
ISO 6396:2008 (inside cab)	71 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.

315 Hydraulic Excavator – Demolition Specifications

Weights and Ground Pressures

Base Machine Configurations	500 mm (20") Triple Grouser Shoes	
	Weight kg (lb)	Ground Pressure kPa (psi)
Base Frame with Track Rollers and Carrier Rollers		
2.53 mt (5,580 lb) Counterweight + Standard Undercarriage Base Machine		
Reach Boom + R2.5 (8'2") HD Stick + 0.52 m ³ (0.68 yd ³) HDX Bucket	13 500 (29,800)	43.7 (6.3)
3.83 mt (8,440 lb) Counterweight + Standard Undercarriage Base Machine		
Reach Boom + R3.0 (9'8") HD Stick + 0.52 m ³ (0.68 yd ³) HDX Bucket	14 700 (32,400)	47.6 (6.9)

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

315 Hydraulic Excavator – Demolition Specifications

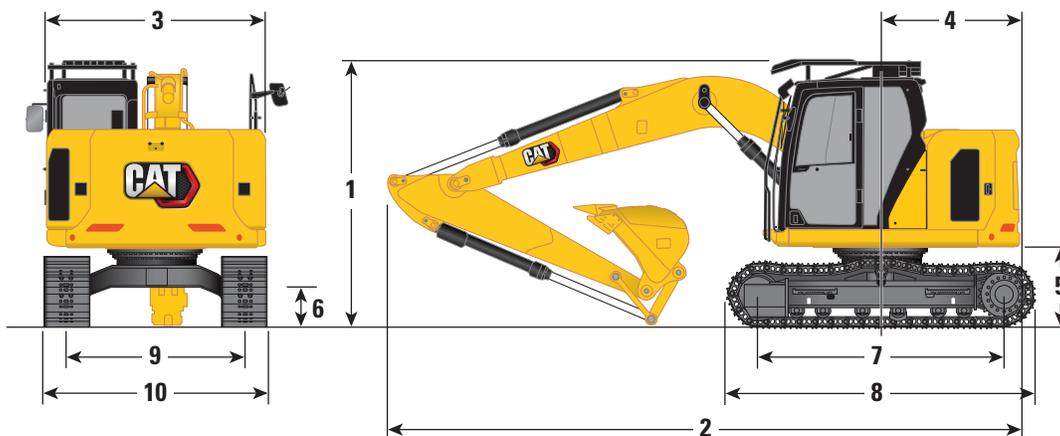
Major Component Weights

	kg	lb
Base Machine Weight: including upper frame, standard undercarriage, counterweight, without boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinders, tracks, blade, without 90% fuel tank, operator		
With 2.53 mt (5,580 lb) Counterweight	9450	20,800
With 3.83 mt (8,440 lb) Counterweight	10 610	23,400
Track Shoes:		
500 mm (20") Triple Grouser Track Shoes	1440	3,200
Two Boom Cylinders	240	500
Upper Structure (without counterweight, frame, 90% fuel tank, operator):		
Upper Structure for Demolition	2920	6,430
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	210	500
Counterweights:		
2.53 mt (5,580 lb) Counterweight	2530	5,600
3.83 mt (8,440 lb) Counterweight	3830	8,400
Swing Frame:		
HD Swing Frame	1540	3,400
Undercarriage:		
Base Frame with Standard Track Rollers and One Carrier Rollers for Standard Undercarriage	2560	5,600
Booms (including lines, pins, stick cylinder):		
Reach Boom 4.65 m (15'3")	920	2,000
Reach Boom 4.65 m (15'3")	930	2,000
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R2.5 (8'2")	630	1,400
HD Reach Stick R2.5 (8'2")	780	1,700
Buckets (without linkage, with tips and side cutters):		
0.45 m ³ (0.59 yd ³) GDX Bucket	390	900
0.45 m ³ (0.59 yd ³) HDX Bucket	460	1,000
0.52 m ³ (0.68 yd ³) GDX Bucket	430	900
0.52 m ³ (0.68 yd ³) HDX Bucket	480	1,100
0.57 m ³ (0.74 yd ³) GDX Bucket	440	1,000
0.63 m ³ (0.82 yd ³) GDX Bucket	460	1,000
0.52 m ³ (0.68 yd ³) HDX Skelton Bucket	450	1,000
Tamping	440	1,000
Tamping Rib Type	450	1,000
Two Bucket Pin	20	40
Guard:		
FOGS	120	300
Quick Coupler:		
Pin Grabber Quick Coupler	210	500

315 Hydraulic Excavator – Demolition Specifications

Dimensions

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

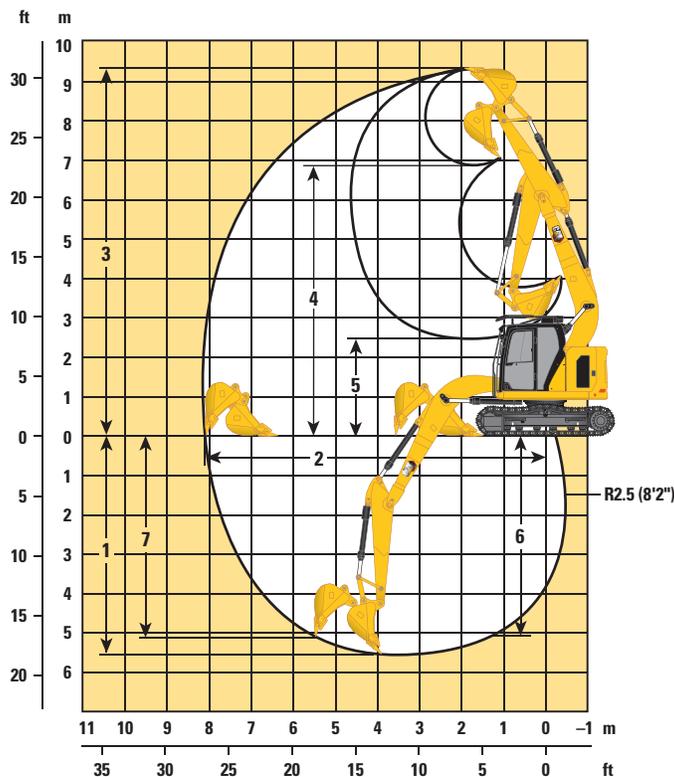


Boom Option	Demolition Reach Boom 4.65 m (15'3")	
Stick Option	Demolition Reach Stick R2.5 (8'2")	
1 Machine Height:		
Top of Cab Height	2810 mm	9'3"
Top of Demolition Guard Height	3010 mm	9'11"
Handrails Height	2860 mm	9'5"
With Boom/Stick/Bucket Installed (with stick cylinder lines)	2890 mm	9'6"
With Boom/Stick Installed (with stick cylinder lines)	2890 mm	9'6"
With Boom Installed (with stick cylinder lines)	2410 mm	7'11"
2 Machine Length:		
With Boom/Stick/Bucket Installed (with stick cylinder lines)	7310 mm	24'0"
With Boom/Stick Installed (with stick cylinder lines)	7310 mm	24'0"
With Boom Installed (with stick cylinder lines)	6440 mm	21'2"
3 Upperframe Width	2480 mm	8'2"
4 Tail Swing Radius:		
2.53 mt (5,580 lb) Counterweight	1490 mm	4'11"
3.83 mt (8,440 lb) Counterweight	1570 mm	5'2"
5 Counterweight Clearance	880 mm	2'11"
6 Ground Clearance	440 mm	1'5"
7 Track Length – Length to Center of Rollers	2780 mm	9'1"
8 Overall Track Length	3490 mm	11'5"
9 Track Gauge	1990 mm	6'6"
10 Track Width/Undercarriage Width:		
500 mm (20") Shoes	2490 mm	8'2"
Bucket Type	HDX	
Bucket Capacity	0.52 m ³	0.68 yd ³
Bucket Tip Radius	1230 mm	4'0"

315 Hydraulic Excavator – Demolition Specifications

Working Ranges and Forces

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



Boom Option	Demolition Reach Boom 4.65 m (15'3")	
Stick Option	Demolition Reach Stick R2.5 (8'2")	
1 Maximum Digging Depth	5520 mm	18'1"
2 Maximum Reach at Ground Line	8250 mm	27'1"
3 Maximum Cutting Height	9360 mm	30'9"
4 Maximum Loading Height	6830 mm	22'5"
5 Minimum Loading Height	2490 mm	8'2"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5090 mm	16'8"
7 Maximum Vertical Wall Digging Depth	5190 mm	17'0"
Minimum Working Equipment Radius	2060 mm	6'9"
Bucket Digging Force (ISO)	84.50 kN	19,000 lbf
Stick Digging Force (ISO)	64.20 kN	14,430 lbf
Bucket Type	HDX	
Bucket Capacity	0.52 m ³	0.68 yd ³
Bucket Tip Radius	1230 mm	40"

315 Demolition Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS, STICKS AND LINKAGES			CAT TECHNOLOGY		
4.65 m (15'3") Demolition Reach boom	✓		Cat Product Link™	✓	
2.5 m (8'2") HD Demolition Reach stick	✓		Remote Flash	✓	
Bucket linkage, without lifting eye, demolition	✓		Remote Troubleshoot	✓	
Bucket linkage, with lifting hook for shovel crane, demolition	✓		Auto Hammer Stop	✓	
CAB			Work tool recognition	✓	
ROPS	✓		Work tool tracking*	✓	
High-resolution 254 mm (10") LCD touchscreen monitor	✓		ELECTRICAL SYSTEM		
Automatic bi-level air conditioner	✓		Maintenance free battery	✓	
Jog dial and shortcut keys for monitor control	✓		Centralized electrical disconnect switch	✓	
Keyless push-to-start engine control	✓		LED chassis light, left-hand/right-hand boom lights	✓	
Height-adjustable console, infinite with no tool	✓		LED cab light		✓
Tilt-up left-side console	✓		LED cab light with light cover and rain protector		✓
Heated air-suspension seat	✓		Programmable time-delay LED working lights	✓	
51 mm (2") orange seat belt	✓		360° lighting		✓
Flash light harness	✓		ENGINE		
12V DC outlets	✓		Cat C3.6 single turbo diesel engine	✓	
Document storage	✓		Three selectable modes: Power, Smart, Eco	✓	
Overhead storage and rear storage with nets	✓		One-touch low idle with automatic engine speed control	✓	
Beverage holder	✓		Automatic engine shutdown	✓	
Cup holder	✓		52° C (125° F) high-ambient cooling capacity without derate	✓	
Dome and lower LED interior lights	✓		-25° C (-13° F) cold start capability	✓	
Openable two-piece front window	✓		Electric fuel priming pump	✓	
Rear window emergency exit	✓		Variable speed fan	✓	
Fixed one-piece windshield	✓		Single fuel filtration system	✓	
Parallel wiper with washer	✓		Sealed double element air filter with integrated pre-cleaner	✓	
Sky wiper installation capability	✓		*Requires PL161 attachment locator on work tool and Bluetooth receiver on machine.		
Head guard installation capability	✓		<i>(continued on next page)</i>		
Top guard installation capability	✓				
Roller front sunscreen	✓				
Washable floor mat	✓				
Beacon ready	✓				
Cat Stick Steer		✓			
Auxiliary relay		✓			

315 Demolition 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
HYDRAULIC SYSTEM			SERVICE AND MAINTENANCE		
Boom and stick regeneration circuits	✓		Grouped engine oil and fuel filters	✓	
Automatic hydraulic oil warm up	✓		Ground level engine oil dipstick	✓	
Automatic two-speed travel	✓		S·O·S SM sampling ports	✓	
Electric main control valve	✓		Integrated vehicle health management system		✓
Boom and stick drift reduction valve	✓		UNDERCARRIAGE AND STRUCTURES		
Boom lowering check valve	✓		Standard undercarriage	✓	
Stick lowering check valve	✓		500 mm (20") triple grouser track shoes	✓	
Swing drive, without fine swing control function	✓		Grease lubricated track link	✓	
Electric boom snubber	✓		Center track guiding guards	✓	
High-pressure line	✓		HD bottom guards	✓	
Medium-pressure line		✓	HD travel motor guards	✓	
Quick coupler line		✓	Swivel guards	✓	
SAFETY AND SECURITY			3.83 mt (8,440 lb) counterweight		✓
Rear and right-side-view cameras		✓	2.53 mt (5,580 lb) counterweight		✓
360° visibility		✓	Tie-down points (ISO 15818:2017 compliant)	✓	
Ground level engine shutoff switch	✓				
Swing alarm		✓			
Service platform with anti-skid plate and countersunk bolts	✓				
Signaling/warning horn	✓				

315 Demolition Attachments

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Left-hand and right-hand electrical pedal (two-way) for tool control
- Dual exit rear window kit
- Rain protector plus cab light cover
- Front windshield laminated glass (P5A glass, EU demolition regulation)
- Key fob (for use with Bluetooth receiver)

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
- Full protecting vandalism guard

SAFETY AND SECURITY

- 76 mm (3") retractable seat belt

OTHER ATTACHMENTS

- Grease gun holder



315

Tunneling Hydraulic Excavator

The Cat® 315 Tunneling excavator is a specially modified design to meet the harsh conditions of underground applications. The machine features a reinforced upper and lower frame, as well as a specially designed boom and stick for tunneling. Other modifications include hammer return hydraulic oil filter, silicone sealing for each electrical component, a simplified cab, and specific safety features.

Machine Modifications to Meet Harsh Working Conditions

- One-Piece boom and 2.5 m (8'2") HD stick designed for tunneling.
- Reinforced upper and lower frames to match the toughest conditions found underground.
- All electrical harness connections are protected by extra silicone to avoid water entry.
- Simplified cab. Mounting points for fire extinguisher are offered from factory.
- Regulatory features such as extra flashlight for visibility and shovel crane for safe lifting operation.
- Safety features such as rear and right-hand side cameras and optional 360° Visibility.
- Machine protection including HD bottom guards, bucket cylinder guard sleeve.

315 Hydraulic Excavator – Tunneling Specifications

Engine

Engine Model	Cat® C3.6	
Net Power		
ISO 9249	80.9 kW	108 hp
ISO 9249 (DIN)	110 hp (metric)	
Engine Power		
ISO 14396	82 kW	110 hp
ISO 14396 (DIN)	111 hp (metric)	
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in ³
Biodiesel Capability	Up to B20 ⁽¹⁾	

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- No engine power derating required below 3000 m (9,840 ft) altitude.
- 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 2,400 rpm.

⁽¹⁾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	10.76 rpm	
Maximum Swing Torque	35 kN·m	25,815 lbf-ft

Weights

Operating Weight	13 500 kg	29,800 lb
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- Standard undercarriage for Tunneling, HD Reach boom, HD R2.5 (8'2") stick, HDX 0.52 m³ (0.68 yd³) bucket, 500 mm (20") triple grouser shoes and 2.53 mt (5,580 lb) counterweight.

Track

Standard Track Shoes Width	500 mm	20 in
Number of Shoes (each side)	43	
Number of Track Rollers (each side)	6	
Number of Carrier Rollers (each side)	1	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.6 km/h	3.5 mph
Maximum Drawbar Pull	129 kN	29,000 lbf

Hydraulic System

Main System – Maximum Flow – Implement	276 L/min	73 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	26 000 kPa	3,770 psi
Boom Cylinder – Bore	105 mm	4 in
Boom Cylinder – Stroke	1023 mm	40 in
Stick Cylinder – Bore	115 mm	5 in
Stick Cylinder – Stroke	1147 mm	45 in
Bucket Cylinder – Bore	95 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in

Service Refill Capacities

Fuel Tank Capacity	187 L	49.4 gal
Cooling System	15 L	4.0 gal
Engine Oil	8 L	2.1 gal
Final Drive (each)	3 L	0.8 gal
Hydraulic System (including tank)	85 L	22.5 gal
Hydraulic Tank	72 L	19.0 gal
DEF Tank	21 L	5.5 gal

Standards

Brakes	ISO 10265:2008
Cab/ROPS	ISO 12117-2:2008
Cab/FOGS	ISO 10262:1998

Sound Performance

ISO 6395:2008 (external)	101 dB(A)
ISO 6396:2008 (inside cab)	71 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.

315 Hydraulic Excavator – Tunneling Specifications

Weights and Ground Pressures

	500 mm (20") Triple Grouser Shoes	
	Weight kg (lb)	Ground Pressure kPa (psi)
Base Machine Configurations		
Base Frame with Track Rollers and Carrier Rollers		
2.53 mt (5,580 lb) Counterweight + Standard Undercarriage Base Machine		
HD Reach Boom + R2.5 (8'2") HD Stick + 0.52 m ³ (0.68 yd ³) HDX Bucket	13 500 (29,800)	43.7 (6.3)
HD Reach Boom + R2.5 (8'2") HD Stick + 0.52 m ³ (0.68 yd ³) HDX Bucket + Blade	14 200 (31,300)	46.0 (6.7)

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

315 Hydraulic Excavator – Tunneling Specifications

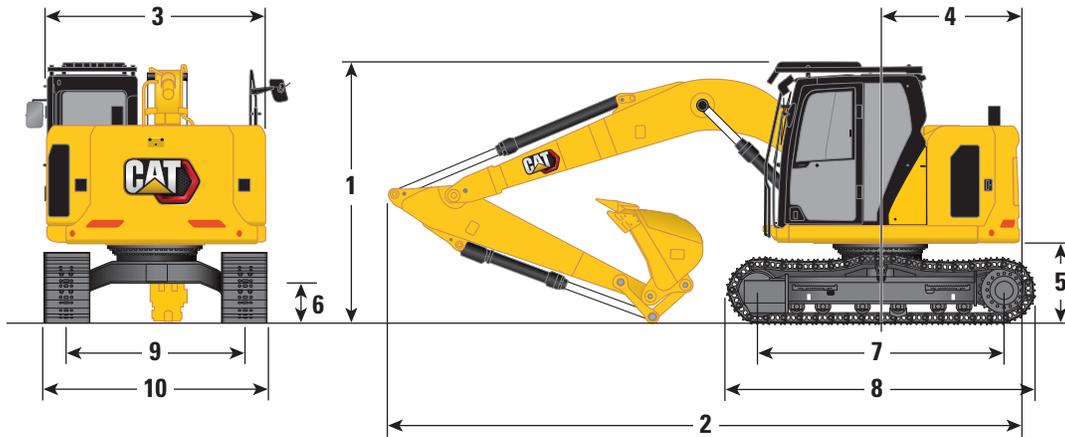
Major Component Weights

	kg	lb
Base Machine Weight: including upper frame, standard undercarriage, counterweight, without boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinders, tracks, blade, without 90% fuel tank, operator		
With 2.53 mt (5,580 lb) Counterweight	9210	20,300
With 2.53 mt (5,580 lb) Counterweight and Blade Compatible	9490	20,900
Track Shoes:		
500 mm (20") Triple Grouser Track Shoes	1440	3,200
Two Boom Cylinders	240	500
Upper Structure (without counterweight, frame, 90% fuel tank, operator):		
Upper Structure for Tunneling	2780	6,130
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	210	500
Blade (without lines, cylinders, frame modifications):		
2500 mm (8'2") Blade	440	1,000
Counterweight:		
2.53 mt (5,580 lb) Counterweight	2530	5,600
Swing Frame:		
HD Swing Frame	1540	3,400
Undercarriage:		
Base Frame with Standard Track Rollers and One Carrier Rollers for Standard Undercarriage for Tunneling	2440	5,400
Base Frame with Standard Track Rollers and One Carrier Rollers for Standard Undercarriage (blade compatible) for Tunneling	2720	6,000
Boom (including lines, pins, stick cylinder):		
HD Reach Boom 4.65 m (15'3") with HP and Hammer Return Filter for Tunneling	1120	2,500
Stick (including lines, pins, bucket cylinder, bucket linkage):		
HD Reach Stick R2.5 (8'2") with HP for Tunneling	730	1,600
Buckets (without linkage, with tips and side cutters):		
0.45 m ³ (0.59 yd ³) GDX Bucket	390	900
0.45 m ³ (0.59 yd ³) HDX Bucket	460	1,000
0.52 m ³ (0.68 yd ³) GDX Bucket	430	900
0.52 m ³ (0.68 yd ³) HDX Bucket	480	1,100
0.57 m ³ (0.74 yd ³) GDX Bucket	440	1,000
0.63 m ³ (0.82 yd ³) GDX Bucket	460	1,000
0.52 m ³ (0.68 yd ³) HDX Skelton Bucket	450	1,000
Tamping	440	1,000
Tamping Rib Type	450	1,000
Two Bucket Pin	20	40
Guard:		
FOGS	120	300
Quick Coupler:		
Pin Grabber Quick Coupler	210	500

315 Hydraulic Excavator – Tunneling Specifications

Dimensions

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



Boom Option

HD Reach Boom
4.65 m (15'3")

Stick Options

HD Reach Stick
R2.5 (8'2")

1 Machine Height:

Top of Cab Height	2810 mm	9'3"
Top of FOGS Height	2960 mm	9'9"
Handrails Height	2860 mm	9'5"
With Boom/Stick/Bucket Installed (with stick cylinder lines)	2890 mm	9'6"
With Boom/Stick Installed (with stick cylinder lines)	2890 mm	9'6"
With Boom Installed (with stick cylinder lines)	2410 mm	7'11"

2 Machine Length (without blade):

With Boom/Stick/Bucket Installed (with stick cylinder lines)	7310 mm	24'0"
With Boom/Stick Installed (with stick cylinder lines)	7310 mm	24'0"
With Boom Installed (with stick cylinder lines)	6440 mm	21'2"

Machine Length (with blade, blade rear):

With Boom/Stick/Bucket Installed (with stick cylinder lines)	8000 mm	26'3"
With Boom/Stick Installed (with stick cylinder lines)	8000 mm	26'3"
With Boom Installed (with stick cylinder lines)	7130 mm	23'5"

3 Upperframe Width

2480 mm 8'2"

4 Tail Swing Radius:

2.53 mt (5,580 lb) Counterweight	1490 mm	4'11"
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5 Counterweight Clearance

880 mm 2'11"

6 Ground Clearance

440 mm 1'5"

7 Track Length – Length to Center of Rollers

2780 mm 9'1"

8 Overall Track Length

3490 mm 11'5"

9 Track Gauge

1990 mm 6'6"

10 Track Width/Undercarriage Width:

500 mm (20") Shoes	2490 mm	8'2"
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Bucket Type

HDX

Bucket Capacity

0.52 m³ 0.68 yd³

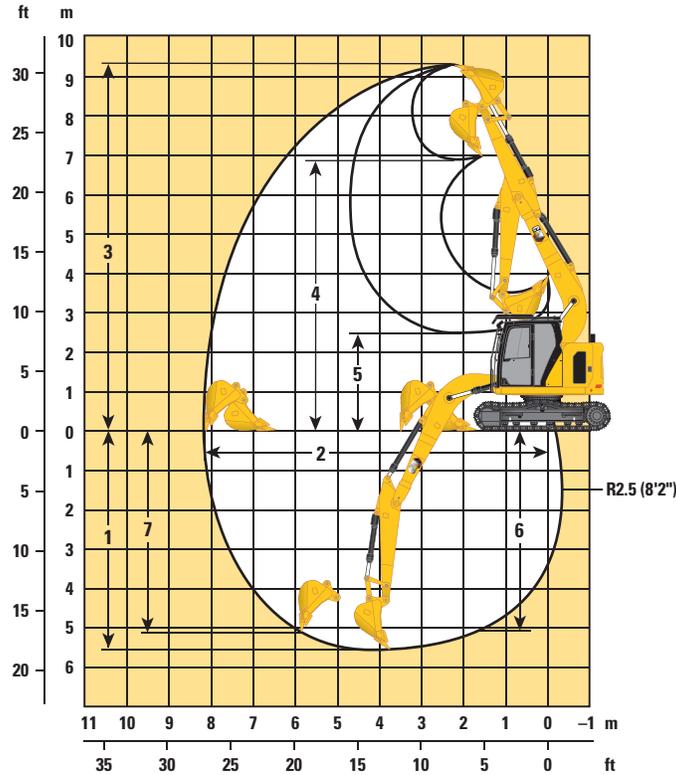
Bucket Tip Radius

1230 mm 4'0"

315 Hydraulic Excavator – Tunneling Specifications

Working Ranges and Forces

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



Boom Option

HD Reach Boom
4.65 m (15'3")

Stick Options

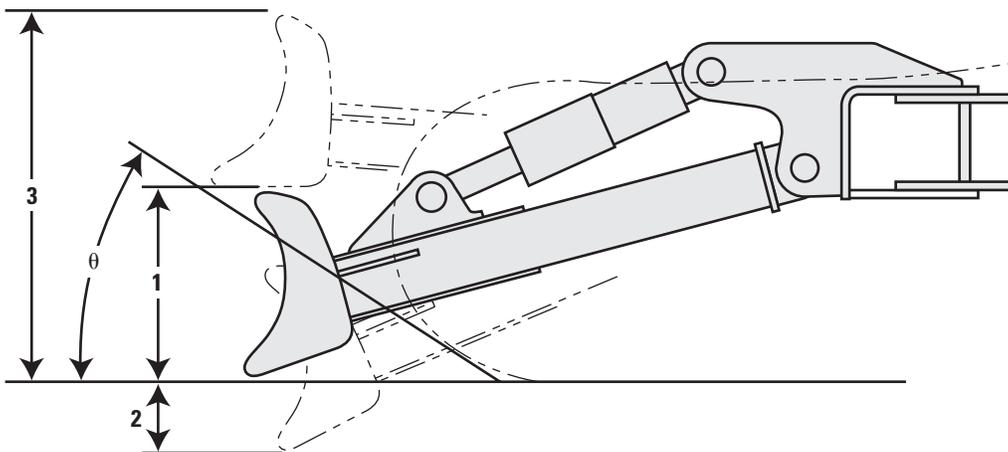
HD Reach Stick
R2.5 (8'2")

1 Maximum Digging Depth	5520 mm	18'1"
2 Maximum Reach at Ground Line	8250 mm	27'1"
3 Maximum Cutting Height	9360 mm	30'9"
4 Maximum Loading Height	6830 mm	22'5"
5 Minimum Loading Height	2490 mm	8'2"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5090 mm	16'8"
7 Maximum Vertical Wall Digging Depth	5190 mm	17'0"
Minimum Working Equipment Radius	1980 mm	6'6"
Bucket Digging Force (ISO)	85.20 kN	19,150 lbf
Stick Digging Force (ISO)	64.00 kN	14,390 lbf
Bucket Type	HDX	
Bucket Capacity	0.52 m ³	0.68 yd ³
Bucket Tip Radius	1230 mm	4'0"

315 Hydraulic Excavator – Tunneling Specifications

Blade Working Ranges

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



Blade Options

2500 mm
(8'2")

1 Blade Height	616 mm	2'0"
2 Maximum Lowering Depth from Ground	550 mm	1'10"
3 Maximum Raising Height above Ground	1018 mm	3'4"
θ Approach Angle	23°	

315 Tunneling 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		
4.65 m (15'3") HD Reach boom for tunneling	✓	
2.5 m (8'2") HD Reach stick for tunneling	✓	
Bucket linkage, with lifting hook for shovel crane, tunneling		✓
CAB		
ROPS	✓	
High-resolution 203 mm (8") LCD touch screen monitor	✓	
High-resolution 254 mm (10") LCD touch screen monitor*		✓
Automatic 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	✓	
Mechanical-suspension seat	✓	
51 mm (2") seat belt	✓	
Cab and machine harness connectors sealed with silicone	✓	
Flash light harness	✓	
12V DC outlets	✓	
Document storage	✓	
Beverage holder	✓	
Cup holder	✓	
Openable two-piece front window	✓	
Rear window emergency exit	✓	
Upper radial wiper with washer	✓	
Openable steel hatch	✓	
LED dome lights	✓	
Head guard installation capability	✓	
FOGS installation capability	✓	
Roller front sunscreen	✓	
Washable floor mat	✓	
Beacon ready	✓	
Cat Stick Steer		✓
Auxiliary relay		✓

*Only for use with 360° visibility.

	Standard	Optional
CAT TECHNOLOGY		
Cat Product Link™	✓	
Remote Flash	✓	
Remote Troubleshoot	✓	
Auto Hammer Stop	✓	
Work tool recognition	✓	
Work tool tracking**	✓	

	Standard	Optional
ELECTRICAL SYSTEM		
Maintenance free battery	✓	
Centralized electrical disconnect switch	✓	
LED chassis light, left-hand/right-hand boom lights	✓	
LED cab light		✓
LED cab light with light cover and rain protector		✓
Programmable time-delay LED working lights	✓	

	Standard	Optional
ENGINE		
Cat C3.6 single turbo diesel engine	✓	
Three selectable modes: Power, Smart, Eco	✓	
One-touch low idle with automatic engine speed control	✓	
Automatic engine shutdown	✓	
52° C (125° F) high-ambient cooling capacity without derate	✓	
-25° C (-13° F) cold start capability	✓	
Electric fuel priming pump	✓	
Variable speed fan	✓	
Single fuel filtration system	✓	
Sealed double element air filter with integrated pre-cleaner	✓	

**Requires PL161 attachment locator on work tool and Bluetooth receiver on machine.

(continued on next page)

315 Tunneling 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
HYDRAULIC SYSTEM			UNDERCARRIAGE AND STRUCTURES		
Boom and stick regeneration circuits	✓		Standard undercarriage	✓	
Automatic hydraulic oil warm up	✓		500 mm (20") triple grouser track shoes	✓	
Automatic two-speed travel	✓		Grease lubricated track link	✓	
Electric main control valve	✓		2500 mm (8'2") blade		✓
Boom and stick drift reduction valve	✓		Center track guiding guards	✓	
Boom lowering check valve	✓		HD bottom guards	✓	
Stick lowering check valve	✓		HD travel motor guards	✓	
Swing drive, without fine swing control function	✓		Swivel guard	✓	
Electric boom snubber	✓		2.53 mt (5,580 lb) counterweight	✓	
SAFETY AND SECURITY			Tie-down points (ISO 15818:2017 compliant)	✓	
Rear and right-side-view cameras		✓			
360° visibility		✓			
Ground level engine shutoff switch	✓				
Swing alarm		✓			
Service platform with anti-skid plate and countersunk bolts	✓				
Signaling/warning horn	✓				
Inspection lighting		✓			
SERVICE AND MAINTENANCE					
Grouped engine oil and fuel filters	✓				
Ground level engine oil dipstick	✓				
S·O·S SM sampling ports	✓				
Integrated vehicle health management system		✓			

315 Tunneling Attachments

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Left-hand and right-hand electrical pedal (two-way) for tool control
- Dual exit rear window kit
- Rain protector plus cab light cover
- Front windshield laminated glass (P5A glass, EU demolition regulation)
- Key fob (for use with Bluetooth receiver)

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
- Full protecting vandalism guard

SAFETY AND SECURITY

- 76 mm (3") retractable seat belt

OTHER ATTACHMENTS

- Grease gun holder



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国土交通省
超低騒音型建設機械

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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 machine 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.

AEXQ2864-03 (09-2022)
Replaces AEXQ2864-02
Build Number: 07D
315 Tunneling, Demolition, and
Forestry Build Number: 07D
(Japan)

