



# 319

## 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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# 319 Hydraulic Excavator Specifications

## Engine

Engine Model	Cat® C3.6	
Net Power		
ISO 9249	99 kW	133 hp
ISO 9249 (DIN)	134 hp (metric)	
Engine Power		
ISO 14396	100 kW	134 hp
ISO 14396 (DIN)	136 hp (metric)	
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in <sup>3</sup>
Biodiesel capability	Up to B20 <sup>(1)</sup>	

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Recommended for use up to 4500 m (14,770 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 engine is equipped with fan, air cleaner, Clean Emission Module (CEM) exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.
- Engine speed at 2,200 rpm.

<sup>(1)</sup>Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible\* with 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.

\* While Cat engines are compatible with these alternative fuels, some regions may not allow their use.

\*\* Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

\*\*\* Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

## Swing Mechanism

Swing Speed	9.2 rpm	
Maximum Swing Torque (Dynamic)	49 kN·m	36,210 lbf·ft
Maximum Swing Torque (Static)	61 kN·m	45,140 lbf·ft

## Weights

Operating Weight	20 000 kg	44,100 lb
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- Long undercarriage, 5.1 m (16'9") Reach Boom, 3.1 m (10'2") Reach Stick, General Duty (GD) 1.0 m<sup>3</sup> (1.31 yd<sup>3</sup>) bucket, and 700 mm (28") triple grouser track shoes.

## Track

Optional Track Shoes Width	600 mm	24 in
	700 mm	28 in
Number of Shoes (each side)	45	
Number of Track Rollers (each side)	7	
Number of Carrier Rollers (each side)	2	

## Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.3 km/h	3.3 mph
Maximum Drawbar Pull	156 kN	35,070 lbf

## Hydraulic System

Main System – Maximum Flow – Implement	296 L/min (1 pump)	78 gal/min (1 pump)
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Equipment – Implement – Heavy Lift	37 000 kPa	5,366 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	26 100 kPa	3,785 psi
Boom Cylinder – Bore	115 mm	5 in
Boom Cylinder – Stroke	1193 mm	47 in
VA Boom Cylinder – Bore	140 mm	6 in
VA Boom Cylinder – Stroke	865 mm	34 in
Stick Cylinder – Bore	120 mm	5 in
Stick Cylinder – Stroke	1331 mm	52 in
Bucket Cylinder – Bore	105 mm	4 in
Bucket Cylinder – Stroke	1039 mm	41 in

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## Service Refill Capacities

Fuel Tank Capacity	229 L	60.5 gal
Cooling System	19 L	5.0 gal
Engine Oil (with filter)	11 L	2.9 gal
Final Drive (each)	6 L	1.6 gal
Hydraulic System (including tank)	83 L	21.9 gal
Hydraulic Tank	76 L	20.1 gal
Diesel Exhaust Fluid (DEF) Tank	21 L	5.5 gal

## Standards

Brakes	ISO 10265:2008
Cab/Rollover Protective Structure (ROPS)	ISO 12117-2:2008
Operator Protective Guards (OPG) (optional)	ISO 10262:1998 Level II

## Sound Performance

ISO 6395:2008 (external) 101 dB(A)

ISO 6396:2008 (internal) 71 dB(A)

- External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Cat machine that is properly equipped and maintained. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors windows open) for extended periods or in noisy environment(s).

## Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas.

- If equipped with R134a (Global Warming Potential = 1430), the system contains 0.8 kg (1.8 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 1.144 metric tonnes (1.261 tons).
- If equipped with R1234yf (Global Warming Potential = 0.501), the system contains 0.7 kg (1.5 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 0.001 metric tonnes (0.001 tons).

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## Operating Weights and Ground Pressures

Base Machine Configurations	600 mm (24") Triple Grouser Shoes		600 mm (24") Triple Grouser Shoes with Rubber Pad		700 mm (28") Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
<b>Base Frame with Track Rollers and Carrier Rollers</b>						
<b>4.65 mt (10,200 lb) Counterweight and Long Undercarriage</b>						
Reach Boom + R2.6 m (8'6") Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket	19 600 kg (43,300 lb)	45.3 kPa (6.6 psi)	20 300 kg (44,800 lb)	46.8 kPa (6.8 psi)	19 900 kg (43,900 lb)	39.3 kPa (5.7 psi)
Reach Boom + R2.6 m (8'6") Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket + 2800 mm (9'2") Blade	20 800 kg (45,800 lb)	47.8 kPa (6.9 psi)	21 400 kg (47,300 lb)	49.4 kPa (7.2 psi)	—	—
Reach Boom + R2.6 m (8'6") Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket + 2900 mm (9'6") Blade	—	—	—	—	21 100 kg (46,400 lb)	41.6 kPa (6.0 psi)
Reach Boom + R2.9 m (9'6") Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket	19 700 kg (43,400 lb)	45.4 kPa (6.6 psi)	20 400 kg (44,900 lb)	47.0 kPa (6.8 psi)	20 000 kg (44,000 lb)	39.5 kPa (5.7 psi)
Reach Boom + R2.9 m (9'6") Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket + 2800 mm (9'2") Blade	20 800 kg (45,900 lb)	48.0 kPa (7.0 psi)	21 500 kg (47,400 lb)	49.6 kPa (7.2 psi)	—	—
Reach Boom + R2.9 m (9'6") Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket + 2900 mm (9'6") Blade	—	—	—	—	21 100 kg (46,600 lb)	41.7 kPa (6.0 psi)
Reach Boom + 2.9 m (9'6") Thumb Ready Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket	19 800 kg (43,700 lb)	45.6 kPa (6.6 psi)	20 500 kg (44,100 lb)	47.2 kPa (6.8 psi)	20 100 kg (44,300 lb)	39.7 kPa (5.8 psi)
Reach Boom + 2.9 m (9'6") Thumb Ready Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket + 2800 mm (9'2") Blade	20 900 kg (46,100 lb)	48.2 kPa (7.0 psi)	21 600 kg (47,600 lb)	49.8 kPa (7.2 psi)	—	—
Reach Boom + 2.9 m (9'6") Thumb Ready Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket + 2900 mm (9'6") Blade	—	—	—	—	21 200 kg (46,800 lb)	41.9 kPa (6.1 psi)
Reach Boom + R3.1 m (10'2") Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket	19 700 kg (43,500 lb)	45.4 kPa (6.6 psi)	20 400 kg (45,000 lb)	47.0 kPa (6.8 psi)	20 000 kg (44,100 lb)	39.5 kPa (5.7 psi)
Reach Boom + R3.1 m (10'2") Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket + 2800 mm (9'2") Blade	20 800 kg (46,000 lb)	48.0 kPa (7.0 psi)	21 500 kg (47,400 lb)	49.6 kPa (7.2 psi)	—	—
Reach Boom + R3.1 m (10'2") Stick + 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket + 2900 mm (9'6") Blade	—	—	—	—	21 100 kg (46,600 lb)	41.7 kPa (6.0 psi)

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

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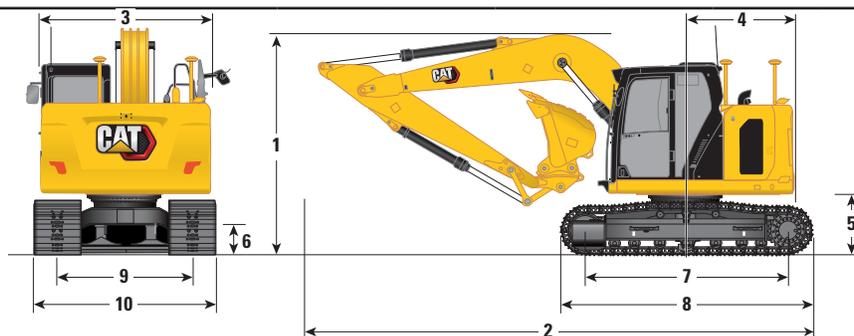
## Major Component Weights

	kg	lb
Base Machine Weight (with 4.65 mt [10,200 lb] counterweight, upper frame, long undercarriage, and counterweight – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinders, tracks, 90% fuel tank, and operator).	13 570	29,900
Track Shoes:		
600 mm (24") Triple Grouser Track Shoes	2590	5,700
600 mm (24") Triple Grouser Track Shoes with Rubber Pad	3260	7,200
700 mm (28") Triple Grouser Track Shoes with Additional Steps	2860	6,300
Two Boom Cylinders	310	700
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	240	500
Counterweights:		
4.65 mt (10,200 lb) Counterweight	4650	10,200
Swing Frame:	1790	3,900
Undercarriage:		
Base Frame with Long Undercarriage without Blade	4160	9,200
Base Frame with Long Undercarriage and 2800 mm (9'2") Blade	5290	11,700
Base Frame with Long Undercarriage and 2900 mm (9'6") Blade	5300	11,700
Booms (including lines, pins, stick cylinder):		
Reach Boom 5.1 m (16'9")	1350	3,000
Variable Angle Boom (2.64 m [8'8"] Stub + 2.6 m [8'6"] Fore)	1970	4,300
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
2.6 m (8'6") Reach stick	820	1,800
2.9 m (9'6") Reach stick	890	2,000
2.9 m (9'6") Thumb Ready stick	990	2,200
3.1 m (10'2") Reach stick	900	2,000
2.25 m (7'3") Reach stick for use with Variable Angle Boom	810	1,800
Buckets (without linkage, with tips and side cutters):		
1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD Bucket	750	1,700
Quick Coupler		
Pin Grabber Quick Coupler	330	700

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## Dimensions

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



### Boom Options

**Reach Boom**  
5.1 m (16'9")

### Stick Options

**Reach Stick**  
R2.6 m (8'6")

**Reach Stick**  
R2.9 m (9'9")

**Thumb Ready Stick**  
R2.9 m (9'9")

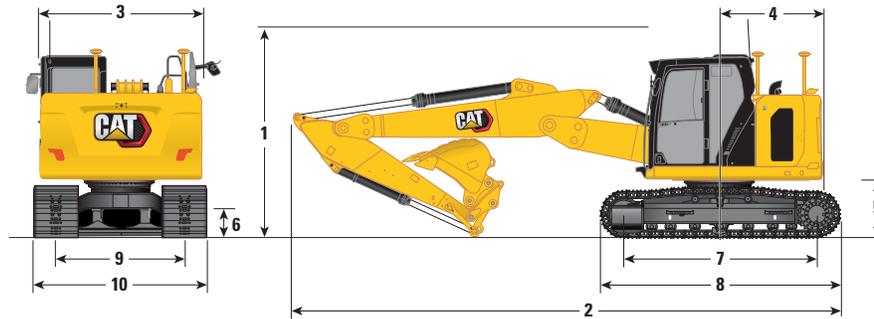
**Reach Stick**  
R3.1 m (10'2")

	Reach Stick R2.6 m (8'6")		Reach Stick R2.9 m (9'9")		Thumb Ready Stick R2.9 m (9'9")		Reach Stick R3.1 m (10'2")	
<b>1 Machine Height:</b>								
Top of Cab Height	2940 mm	9'8"	2940 mm	9'8"	2940 mm	9'8"	2940 mm	9'8"
Top of OPG Height	3090 mm	10'2"	3090 mm	10'2"	3090 mm	10'2"	3090 mm	10'2"
Handrail Height	2990 mm	9'10"	2990 mm	9'10"	2990 mm	9'10"	2990 mm	9'10"
With Boom/Stick/Bucket Installed (with auxiliary lines)	3060 mm	10'0"	3100 mm	10'2"	3100 mm	10'2"	3150 mm	10'4"
With Boom/Stick Installed (with auxiliary lines)	2870 mm	9'5"	2890 mm	9'6"	2890 mm	9'6"	2930 mm	9'7"
With Boom Installed (with auxiliary lines)	2600 mm	8'6"	2600 mm	8'6"	2600 mm	8'6"	2600 mm	8'6"
Machine Height with 600 mm (24") Triple Grouser Track Shoes with Rubber Pad:								
Top of Cab Height	2980 mm	9'9"	2980 mm	9'9"	2980 mm	9'9"	2980 mm	9'9"
Top of OPG Height	3130 mm	10'3"	3130 mm	10'3"	3130 mm	10'3"	3130 mm	10'3"
Handrail Height	3030 mm	9'11"	3030 mm	9'11"	3030 mm	9'11"	3030 mm	9'11"
With Boom/Stick/Bucket Installed (with auxiliary lines)	3070 mm	10'1"	3110 mm	10'2"	3110 mm	10'2"	3160 mm	10'4"
With Boom/Stick Installed (with auxiliary lines)	2880 mm	9'5"	2900 mm	9'6"	2900 mm	9'6"	2930 mm	9'7"
With Boom Installed (with auxiliary lines)	2620 mm	8'7"	2620 mm	8'7"	2620 mm	8'7"	2620 mm	8'7"
<b>2 Machine Length (without Blade):</b>								
With Boom/Stick/Bucket Installed (with auxiliary lines)	8100 mm	26'7"	8110 mm	26'7"	8110 mm	26'7"	8120 mm	26'8"
With Boom/Stick Installed (with auxiliary lines)	8010 mm	26'3"	8040 mm	26'5"	8040 mm	26'5"	8060 mm	26'5"
With Boom Installed (with auxiliary lines)	7170 mm	23'6"	7170 mm	23'6"	7170 mm	23'6"	7170 mm	23'6"
Machine Length (with Blade):								
With Boom/Stick/Bucket Installed (with auxiliary lines)	8640 mm	28'4"	8650 mm	28'5"	8650 mm	28'5"	8660 mm	28'5"
With Boom/Stick Installed (with auxiliary lines)	8550 mm	28'1"	8580 mm	28'2"	8580 mm	28'2"	8600 mm	28'3"
With Boom Installed (with auxiliary lines)	7710 mm	25'4"	7710 mm	25'4"	7710 mm	25'4"	7710 mm	25'4"
<b>3 Upperframe Width</b>	2640 mm	8'8"	2640 mm	8'8"	2640 mm	8'8"	2640 mm	8'8"
<b>4 Tail Swing Radius – 4.65 mt (10,200 lb) Counterweight</b>	1750 mm	5'9"	1750 mm	5'9"	1750 mm	5'9"	1750 mm	5'9"
<b>5 Counterweight Clearance</b>	1016 mm	3'4"	1016 mm	3'4"	1016 mm	3'4"	1016 mm	3'4"
<b>6 Ground Clearance</b>	463 mm	1'6"	463 mm	1'6"	463 mm	1'6"	463 mm	1'6"
<b>7 Length to Center of Rollers</b>	3265 mm	10'9"	3265 mm	10'9"	3265 mm	10'9"	3265 mm	10'9"
<b>8 Track Length</b>	4070 mm	13'4"	4070 mm	13'4"	4070 mm	13'4"	4070 mm	13'4"
<b>9 Track Gauge</b>	2200 mm	7'2"	2200 mm	7'2"	2200 mm	7'2"	2200 mm	7'2"
<b>10 Undercarriage Width:</b>								
600 mm (24") Shoes	2800 mm	9'2"	2800 mm	9'2"	2800 mm	9'2"	2800 mm	9'2"
600 mm (24") Shoes with Rubber Pad	2800 mm	9'2"	2800 mm	9'2"	2800 mm	9'2"	2800 mm	9'2"
700 mm (28") Shoes (with steps)	2900 mm	9'6"	2900 mm	9'6"	2900 mm	9'6"	2900 mm	9'6"
Bucket Type	GD		GD		GD		GD	
Bucket Capacity	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>
Bucket Tip Radius	1390 mm	4'7"	1390 mm	4'7"	1390 mm	4'7"	1390 mm	4'7"

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## Dimensions (continued)

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



### Boom Options

Variable Angle Boom  
2.64 m/2.6 m (8'8"/8'6")

### Stick Options

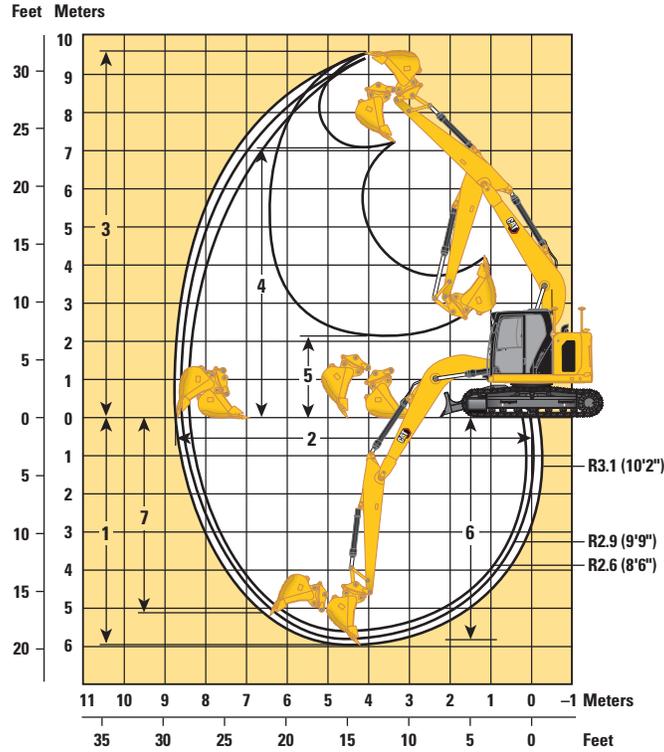
Reach Sticks  
R2.25 m (7'5") R2.6 m (8'6")

	R2.25 m (7'5")	Reach Sticks	R2.6 m (8'6")	
<b>1</b> Machine Height:				
Top of Cab Height	2940 mm	9'8"	2940 mm	9'8"
Top of OPG Height	3090 mm	10'2"	3090 mm	10'2"
Handrail Height	2990 mm	9'10"	2990 mm	9'10"
With Boom/Stick/Bucket Installed (with auxiliary lines)	2860 mm	9'5"	3000 mm	9'10"
With Boom/Stick Installed (with auxiliary lines)	2670 mm	8'9"	2780 mm	9'1"
With Boom Installed (with auxiliary lines)	2210 mm	7'3"	2210 mm	7'3"
Machine Height with 600 mm (24") Triple Grouser Track Shoes with Rubber Pad:				
Top of Cab Height	2980 mm	9'9"	2980 mm	9'9"
Top of OPG Height	3130 mm	10'3"	3130 mm	10'3"
Handrail Height	3030 mm	9'11"	3030 mm	9'11"
With Boom/Stick/Bucket Installed (with auxiliary lines)	2880 mm	9'5"	3010 mm	9'11"
With Boom/Stick Installed (with auxiliary lines)	2680 mm	8'10"	2790 mm	9'2"
With Boom Installed (with auxiliary lines)	2240 mm	7'4"	2240 mm	7'4"
<b>2</b> Machine Length (without Blade):				
With Boom/Stick/Bucket Installed (with auxiliary lines)	8180 mm	26'10"	8170 mm	26'10"
With Boom/Stick Installed (with auxiliary lines)	8150 mm	26'9"	8170 mm	26'10"
With Boom Installed (with auxiliary lines)	7230 mm	23'9"	7230 mm	23'9"
Machine Length (with Blade):				
With Boom/Stick/Bucket Installed (with auxiliary lines)	8720 mm	28'7"	8710 mm	28'7"
With Boom/Stick Installed (with auxiliary lines)	8690 mm	28'6"	8710 mm	28'7"
With Boom Installed (with auxiliary lines)	7770 mm	25'6"	7770 mm	25'6"
<b>3</b> Upperframe Width	2640 mm	8'8"	2640 mm	8'8"
<b>4</b> Tail Swing Radius – 4.65 mt (10,200 lb) Counterweight	1750 mm	5'9"	1750 mm	5'9"
<b>5</b> Counterweight Clearance	1016 mm	3'4"	1016 mm	3'4"
<b>6</b> Ground Clearance	463 mm	1'6"	463 mm	1'6"
<b>7</b> Length to Center of Rollers	3265 mm	10'9"	3265 mm	10'9"
<b>8</b> Track Length	4070 mm	13'4"	4070 mm	13'4"
<b>9</b> Track Gauge	2200 mm	7'2"	2200 mm	7'2"
<b>10</b> Undercarriage Width:				
600 mm (24") Shoes	2800 mm	9'2"	2800 mm	9'2"
600 mm (24") Shoes with Rubber Pad	2900 mm	9'6"	2900 mm	9'6"
700 mm (28") Shoes (with steps)	3100 mm	10'2"	3100 mm	10'2"
Bucket Type		GD		GD
Bucket Capacity	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>
Bucket Tip Radius	1390 mm	4'7"	1390 mm	4'7"

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## Working Ranges

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



### Boom Option

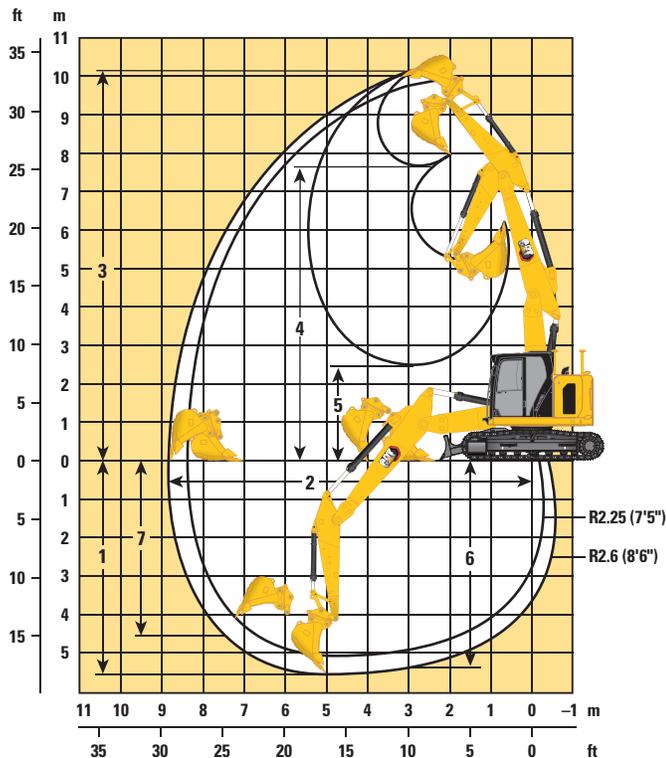
### Reach Boom 5.1 m (16'9")

Stick Options	Reach Stick R2.6 m (8'6")		Reach Stick R2.9 m (9'9")		Thumb Ready Stick R2.9 m (9'9")		Reach Stick R3.1 m (10'2")	
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
1 Maximum Digging Depth	6050 mm	19'10"	6350 mm	20'10"	6350 mm	20'10"	6550 mm	21'6"
2 Maximum Reach at Ground Line	8780 mm	28'10"	9000 mm	29'6"	9000 mm	29'6"	9190 mm	30'2"
3 Maximum Cutting Height	9000 mm	29'6"	8950 mm	29'4"	8950 mm	29'4"	9050 mm	29'8"
4 Maximum Loading Height	6330 mm	20'9"	6330 mm	20'9"	6330 mm	20'9"	6430 mm	21'1"
5 Minimum Loading Height	2350 mm	7'9"	2050 mm	6'9"	2050 mm	6'9"	1850 mm	6'1"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5820 mm	19'1"	6110 mm	20'1"	6110 mm	20'1"	6330 mm	20'9"
7 Maximum Vertical Wall Digging Depth	5020 mm	16'6"	5010 mm	16'5"	5010 mm	16'5"	5210 mm	17'1"
Minimum Working Equipment Radius	2980 mm	9'9"	2940 mm	9'8"	2940 mm	9'8"	2930 mm	9'7"
Bucket Digging Force (ISO)	123 kN	27,650 lbf	123 kN	27,650 lbf	123 kN	27,650 lbf	123 kN	27,650 lbf
Stick Digging Force (ISO)	80 kN	17,980 lbf	75 kN	16,860 lbf	75 kN	16,860 lbf	71 kN	15,960 lbf
Bucket Type	GD		GD		GD		GD	
Bucket Capacity	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>
Bucket Tip Radius	1390 mm	4'7"	1390 mm	4'7"	1390 mm	4'7"	1390 mm	4'7"

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## Working Ranges (continued)

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



### Boom Option

**Variable Angle Boom**  
2.64 m/2.6 m (8'8"/8'6")

### Stick Options

#### Reach Sticks

R2.25 m (7'5")

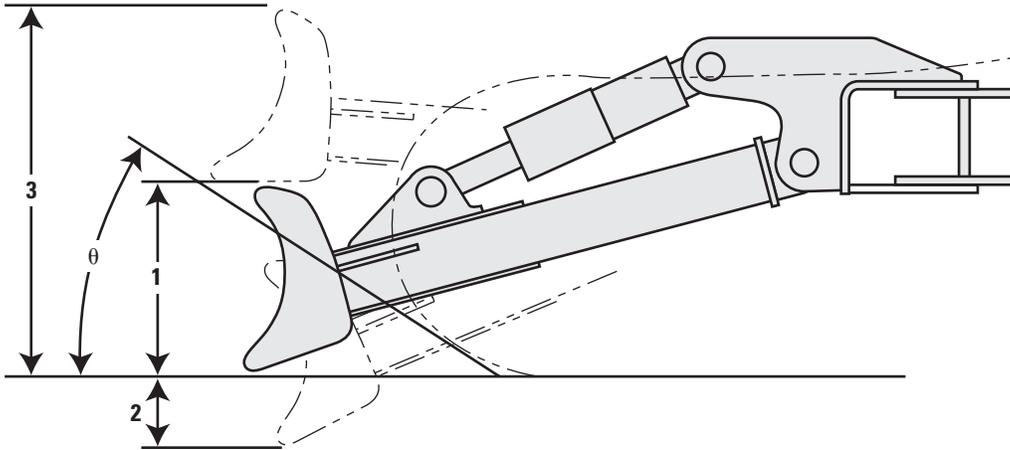
R2.6 m (8'6")

	R2.25 m (7'5")		R2.6 m (8'6")
<b>1</b> Maximum Digging Depth	5120 mm	16'10"	5470 mm
<b>2</b> Maximum Reach at Ground Line	8640 mm	28'4"	8970 mm
<b>3</b> Maximum Cutting Height	10 320 mm	33'10"	10 630 mm
<b>4</b> Maximum Loading Height	7590 mm	24'11"	7910 mm
<b>5</b> Minimum Loading Height	3640 mm	11'11"	3340 mm
<b>6</b> Maximum Depth Cut for 2440 mm (8'0") Level Bottom	4980 mm	16'4"	5340 mm
<b>7</b> Maximum Vertical Wall Digging Depth	4120 mm	13'6"	4510 mm
Minimum Working Equipment Radius	1810 mm	5'11"	1980 mm
Bucket Digging Force (ISO)	123 kN	27,650 lbf	123 kN
Stick Digging Force (ISO)	88 kN	19,780 lbf	80 kN
Bucket Type	GD		GD
Bucket Capacity	1.00 m <sup>3</sup>	1.31 yd <sup>3</sup>	1.00 m <sup>3</sup>
Bucket Tip Radius	1390 mm	4'7"	1390 mm

# 319 Hydraulic Excavator Specifications

## Blade Working Ranges

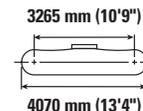
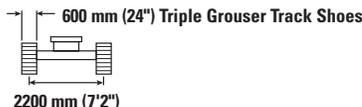
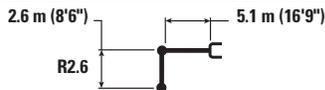
All dimensions are approximate and may vary depending on bucket selection.



Blade Options	2800 mm (9'2")		2900 mm (9'6")	
	1 Blade Height	616 mm	2'0"	616 mm
2 Maximum Lowering Depth from Ground	482 mm	1'7"	482 mm	1'7"
3 Maximum Raising Height above Ground	1006 mm	3'4"	1006 mm	3'4"
θ Approach Angle	23°		23°	

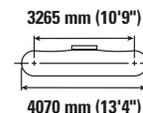
# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



Reach Boom	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	mm (ft'inch")	
7500 mm 25'0"											*3500 *7,800	*3500 *7,800	4840 15'4"
6000 mm 20'0"							*3900 *7,400	*3900 *7,400			*3100 *6,850	*3100 *6,850	6230 20'3"
4500 mm 15'0"					*5500 *11,950	*5500 *11,950	*5150 *11,200	3900 8,350			*3000 *6,600	*3000 *6,600	7040 23'0"
3000 mm 10'0"			*10 650 *22,700	*10 650 *22,700	*7050 *15,150	5750 12,350	5700 12,250	3750 8,100			*3050 *6,700	2700 5,950	7460 24'5"
1500 mm 5'0"					8600 18,500	5400 11,600	5550 11,900	3600 7,750	*3700 2650		*3250 *7,200	2600 5,700	7560 24'10"
0 mm 0 in			*6650 *15,300	*6650 *15,300	8350 17,950	5200 11,150	5400 11,650	3500 7,500			*3700 *8,100	2650 5,850	7350 24'2"
-1500 mm -5'0"	kg (lb)	*6150 *13,750	*6150 *13,750	*10 850 *24,700	9600 20,550	8300 17,800	5100 11,000	5350 11,550	3450 7,450		4500 9,900	2950 6,450	6810 22'4"
-3000 mm -10'0"	kg (lb)	*10 700 *24,050	*10 700 *24,050	*12 700 *27,400	9700 20,850	8350 17,950	5150 11,150				5650 12,550	3650 8,100	5840 19'0"
-4500 mm -15'0"	kg (lb)			*9050 *19,050	*9050 *19,050						*6500 *14,200	6100 14,000	4140 13'3"

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



Reach Boom	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	mm (ft'inch")	
7500 mm 25'0"											*3500 *7,800	*3500 *7,800	4840 15'4"
6000 mm 20'0"							*3900 *7,400	*3900 *7,400			*3100 *6,850	*3100 *6,850	6230 20'3"
4500 mm 15'0"					*5500 *11,950	*5500 *11,950	*5150 *11,200	4000 8,650			*3000 *6,600	*3000 *6,600	7040 23'0"
3000 mm 10'0"			*10 650 *22,700	*10 650 *22,700	*7050 *15,150	5900 12,700	*5750 *12,550	3900 8,350			*3050 *6,700	2800 6,200	7460 24'5"
1500 mm 5'0"					*8600 *18,600	5550 12,000	5700 12,300	3750 8,050	*3700 2750		*3250 *7,200	2700 5,900	7560 24'10"
0 mm 0 in			*6650 *15,300	*6650 *15,300	8650 18,550	5350 11,550	5600 12,050	3600 7,800			*3700 *8,100	2750 6,050	7350 24'2"
-1500 mm -5'0"	kg (lb)	*6150 *13,750	*6150 *13,750	*10 850 *24,700	9900 21,250	8550 18,400	5300 11,400	5550 11,950	3600 7,700		*4500 *10,000	3050 6,700	6810 22'4"
-3000 mm -10'0"	kg (lb)	*10 700 *24,050	*10 700 *24,050	*12 700 *27,400	10 050 21,550	8650 18,550	5350 11,500				5850 12,950	3750 8,350	5840 19'0"
-4500 mm -15'0"	kg (lb)			*9050 *19,050	*9050 *19,050						*6500 *14,200	6300 *14,200	4140 13'3"



ISO 10567:2007



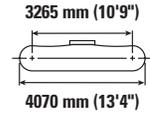
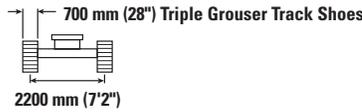
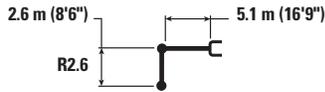
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

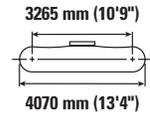
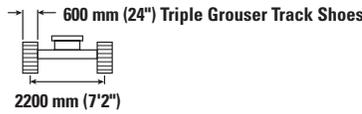
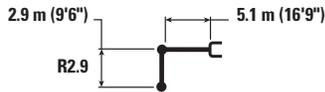
# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
7500 mm 25'0"	kg lb											*3500 *7,800	*3500 *7,800	4840 15'4"
6000 mm 20'0"	kg lb							*3900 *7,400	*3900 *7,400			*3100 *6,850	*3100 *6,850	6230 20'3"
4500 mm 15'0"	kg lb					*5500 *11,950	*5500 *11,950	*5150 *11,200	3950 8,500			*3000 *6,600	*3000 *6,600	7040 23'0"
3000 mm 10'0"	kg lb			*10 650 *22,700	*10 650 *22,700	*7050 *15,150	5800 12,500	*5750 12,400	3800 8,200			*3050 *6,700	2750 6,050	7460 24'5"
1500 mm 5'0"	kg lb					*8600 *18,600	5450 11,750	5600 12,050	3650 7,850	*3700 2650		*3250 *7,200	2650 5,800	7560 24'10"
0 mm 0 in	kg lb			*6650 *15,300	*6650 *15,300	8500 18,200	5250 11,300	5500 11,800	3550 7,650			*3700 *8,100	2700 5,950	7350 24'2"
-1500 mm -5'0"	kg lb	*6150 *13,750	*6150 *13,750	*10 850 *24,700	9700 20,850	8400 18,050	5200 11,150	5450 11,700	3500 7,550			*4500 *10,000	3000 6,550	6810 22'4"
-3000 mm -10'0"	kg lb	*10 700 *24,050	*10 700 *24,050	*12 700 *27,400	9850 21,150	8450 18,200	5250 11,300					5700 12,700	3700 8,200	5840 19'0"
-4500 mm -15'0"	kg lb			*9050 *19,050	*9050 *19,050							*6500 *14,200	6150 14,150	4140 13'3"

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
7500 mm 25'0"	kg lb											*3100 *6,950	*3100 *6,950	5160 16'6"
6000 mm 20'0"	kg lb							*3950 *8,050	*3950 *8,050			*2850 *6,250	*2850 *6,250	6480 21'1"
4500 mm 15'0"	kg lb							*4850 *10,550	3900 8,400			*2750 *6,050	*2750 *6,050	7260 23'9"
3000 mm 10'0"	kg lb			*9650 *20,500	*9650 *20,500	*6600 *14,250	5750 12,400	*5500 *11,950	3750 8,100	*3600 *6,700	2700 5,750	*2850 *6,250	2600 5,700	7670 25'2"
1500 mm 5'0"	kg lb			*7250 *17,200	*7250 *17,200	*8250 *17,850	5400 11,600	5550 11,900	3600 7,750	3950 *8,450	2600 5,600	*3050 *6,700	2500 5,450	7770 25'6"
0 mm 0 in	kg lb			*7450 *17,050	*7450 *17,050	8350 17,900	5150 11,100	5400 11,600	3450 7,450	3900 2550		*3500 *7,650	2500 5,550	7570 24'10"
-1500 mm -5'0"	kg lb	*6100 *13,600	*6100 *13,600	*10 750 *24,450	9500 20,300	8250 17,700	5050 10,900	5300 11,450	3400 7,350			4250 9,350	2750 6,050	7050 23'1"
-3000 mm -10'0"	kg lb	*9950 *22,350	*9950 *22,350	*13 150 *28,400	9600 20,550	8300 17,750	5100 10,950	5350	3450			5200 11,600	3350 7,450	6110 19'11"
-4500 mm -15'0"	kg lb			*10 050 *21,350	9900 21,250	*6700	5300					*6650 *14,600	5250 12,000	4520 14'6"



ISO 10567:2007



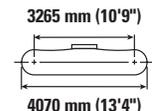
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Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

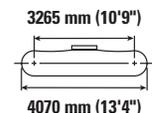
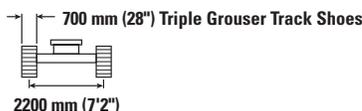
# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
7500 mm 25'0"	kg lb											*3100 *6,950	*3100 *6,950	5160 16'6"
6000 mm 20'0"	kg lb							*3950 *8,050	*3950 *8,050			*2850 *6,250	*2850 *6,250	6480 21'1"
4500 mm 15'0"	kg lb							*4850 *10,550	4050 8,650			*2750 *6,050	*2750 *6,050	7260 23'9"
3000 mm 10'0"	kg lb			*9650 *20,500	*9650 *20,500	*6600 *14,250	5950 12,800	*5500 *11,950	3900 8,350	*3600 *6,700	2800 5,950	*2850 *6,250	2700 5,900	7670 25'2"
1500 mm 5'0"	kg lb			*7250 *17,200	*7250 *17,200	*8250 *17,850	5600 12,000	5700 12,250	3700 8,000	4100 *8,450	2700 5,800	*3050 *6,700	2550 5,650	7770 25'6"
0 mm 0 in	kg lb			*7450 *17,050	*7450 *17,050	8600 18,500	5350 11,500	5550 11,950	3600 7,750	*3950	2650	*3500 *7,650	2600 5,750	7570 24'10"
-1500 mm -5'0"	kg lb	*6100 *13,600	*6100 *13,600	*10 750 *24,450	9800 21,000	8500 18,250	5250 11,300	5500 11,850	3550 7,600			*4250 *9,400	2850 6,300	7050 23'1"
-3000 mm -10'0"	kg lb	*9950 *22,350	*9950 *22,350	*13,150 *28,400	9900 21,300	8550 18,350	5300 11,350	5550	3550			5400 12,000	3500 7,750	6110 19'11"
-4500 mm -15'0"	kg lb			*10 050 *21,350	*10 050 *21,350	*6700	5450					*6650 *14,600	5450 12,400	4520 14'6"

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
7500 mm 25'0"	kg lb											*3100 *6,950	*3100 *6,950	5160 16'6"
6000 mm 20'0"	kg lb							*3950 *8050	*3950 *8,050			*2850 *6,250	*2850 *6,250	6480 21'1"
4500 mm 15'0"	kg lb							*4850 *10,550	3950 8,500			*2750 *6,050	*2750 *6,050	7260 23'9"
3000 mm 10'0"	kg lb			*9650 *20,500	*9650 *20,500	*6600 *14,250	5850 12,550	*5500 *11,950	3800 8,200	*3600 *6,700	2700 5,800	*2850 *6,250	2600 5,750	7670 25'2"
1500 mm 5'0"	kg lb			*7250 *17,200	*7250 *17,200	*8250 *17,850	5450 11,800	5600 12,050	3650 7,850	4050 *8,450	2650 5,700	*3050 *6,700	2500 5,500	7770 25'6"
0 mm 0 in	kg lb			*7450 *17,050	*7450 *17,050	8450 18,150	5250 11,250	5450 11,750	3500 7,550	*3950	2600	*3500 *7,650	2550 5,600	7570 24'10"
-1500 mm -5'0"	kg lb	*6100 *13,600	*6100 *13,600	*10 750 *24,450	9600 20,600	8350 17,950	5150 11,050	5400 11,600	3450 7,450			*4250 *9,400	2800 6,150	7050 23'1"
-3000 mm -10'0"	kg lb	*9950 *22,350	*9950 *22,350	*13 150 *28,400	9750 20,850	8400 18,000	5150 11,100	5450	3500			5300 11,750	3400 7,550	6110 19'11"
-4500 mm -15'0"	kg lb			*10 050 *21,350	10 050 *21,350	*6700	5350					*6650 *14,600	5350 12,150	4520 14'6"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# 319 Hydraulic Excavator Specifications

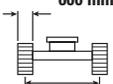
## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On

Thumb Ready Stick  
2.9 m (9'6")  
R2.9TRS



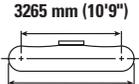
5.1 m (16'9")

600 mm (24") Triple Grouser Track Shoes



2200 mm (7'2")

3265 mm (10'9")

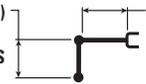


4070 mm (13'4")

		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		 mm (ft'inch")		
														
7500 mm 25'0"	kg lb											*3100 *6,850	*3100 *6,850	5160 16'6"
6000 mm 20'0"	kg lb							*3900 *7,950	*3900 *7,950			*2800 *6,150	*2800 *6,150	6480 21'1"
4500 mm 15'0"	kg lb							*4750 *10,400	3850 8,250			*2750 *6,000	*2750 *6,000	7260 23'9"
3000 mm 10'0"	kg lb			*9550 *20,300	*9550 *20,300	*6550 *14,100	5700 12,250	*5450 *11,800	3700 7,950	*3550 *6,600	2600 5,600	*2800 *6,150	2550 5,550	7670 25'2"
1500 mm 5'0"	kg lb			*7200 *17,150	*7200 *17,150	*8200 *17,650	5300 11,450	5450 11,750	3550 7,600	3900 *8,350	2550 5,450	*3050 *6,650	2400 5,300	7770 25'6"
0 mm 0 in	kg lb			*7400 *16,950	*7400 *16,950	8250 17,750	5100 10,900	5300 11,450	3400 7,300	3850 2500		*3450 *7,550	2450 5,400	7570 24'10"
-1500 mm -5'0"	kg lb	*6050 *13,500	*6050 *13,500	*10700 *24,350	9350 20,050	8150 17,500	5000 10,700	5250 11,300	3350 7,200			4200 9,200	2700 5,950	7050 23'1"
-3000 mm -10'0"	kg lb	*9900 *22,250	*9900 *22,250	*13050 *28,150	9500 20,350	8200 17,600	5000 10,800	5300 11,450	3400 7,300			5150 11,450	3300 7,300	6110 19'11"
-4500 mm -15'0"	kg lb			*9950 *21,100	9800 21,050	*6600	5200					*6550 *14,400	5200 11,850	4520 14'6"

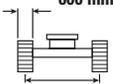
## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On

Thumb Ready Stick  
2.9 m (9'6")  
R2.9TRS



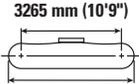
5.1 m (16'9")

600 mm (24") Triple Grouser Track Shoes with Rubber Pad



2200 mm (7'2")

3265 mm (10'9")



4070 mm (13'4")

		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		 mm (ft'inch")		
														
7500 mm 25'0"	kg lb											*3100 *6,850	*3100 *6,850	5160 16'6"
6000 mm 20'0"	kg lb							*3900 *7,950	*3900 *7,950			*2800 *6,150	*2800 *6,150	6480 21'1"
4500 mm 15'0"	kg lb							*4750 *10,400	4000 8,550			*2750 *6,000	*2750 *6,000	7260 23'9"
3000 mm 10'0"	kg lb			*9550 *20,300	*9550 *20,300	*6550 *14,100	5900 12,650	*5450 *11,800	3850 8,200	*3550 *6,600	2700 5,800	*2800 *6,150	2600 5,750	7670 25'2"
1500 mm 5'0"	kg lb			*7200 *17,150	*7200 *17,150	*8200 *17,650	5500 11,850	5650 12,150	3650 7,850	4050 *8,350	2650 5,650	*3050 *6,650	2500 5,500	7770 25'6"
0 mm 0 in	kg lb			*7400 *16,950	*7400 *16,950	8550 18,300	5250 11,300	5500 11,800	3550 7,600	*3900 2600		*3450 *7,550	2550 5,600	7570 24'10"
-1500 mm -5'0"	kg lb	*6050 *13,500	*6050 *13,500	*10700 *24,350	9700 20,750	8450 18,100	5150 11,100	5450 11,700	3450 7,450			4250 9,350	2800 6,150	7050 23'1"
-3000 mm -10'0"	kg lb	*9900 *22,250	*9900 *22,250	*13050 *28,150	9800 21,050	8450 18,200	5200 11,200	5500 11,700	3500			5350 11,850	3400 7,600	6110 19'11"
-4500 mm -15'0"	kg lb			*9950 *21,100	*9950 *21,100	*6600	5400					*6550 *14,400	5350 12,250	4520 14'6"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On

Thumb Ready Stick

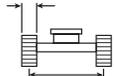
2.9 m (9'6")

R2.9TRS



5.1 m (16'9")

700 mm (28") Triple Grouser Track Shoes



2200 mm (7'2")

3265 mm (10'9")



4070 mm (13'4")

Reach Boom	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	mm
7500 mm 25'0"	kg lb											*3100 *6,850	*3100 *6,850	5160 16'6"
6000 mm 20'0"	kg lb							*3900 *7,950	*3900 *7,950			*2800 *6,150	*2800 *6,150	6480 21'1"
4500 mm 15'0"	kg lb							*4750 *10,400	3900 8,400			*2750 *6,000	*2750 *6,000	7260 23'9"
3000 mm 10'0"	kg lb			*9550 *20,300	*9550 *20,300	*6550 *14,100	5750 12,400	*5450 *11,800	3750 8,050	*3550 *6,600	2650 5,700	*2800 *6,150	2550 5,650	7670 25'2"
1500 mm 5'0"	kg lb			*7200 *17,150	*7200 *17,150	*8200 *17,650	5400 11,600	5550 11,900	3600 7,700	3950 *8,350	2600 5,550	*3050 *6,650	2450 5,400	7770 25'6"
0 mm 0 in	kg lb			*7400 *16,950	*7400 *16,950	8400 18,000	5150 11,050	5400 11,600	3450 7,400	3900	2550	*3450 *7,550	2500 5,500	7570 24'10"
-1500 mm -5'0"	kg lb	*6050 *13,500	*6050 *13,500	*10 700 *24,350	9500 20,350	8250 17,750	5050 10,850	5350 11,450	3400 7,300			*4250 *9,350	2750 6,000	7050 23'1"
-3000 mm -10'0"	kg lb	*9900 *22,250	*9900 *22,250	*13 050 *28,150	9600 20,600	8300 17,850	5100 10,950	5350	3450			5250 11,600	3350 7,400	6110 19'11"
-4500 mm -15'0"	kg lb			*9950 *21,100	9950 *21,100	*6600	5300					*6550 *14,400	5250 12,000	4520 14'6"

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On

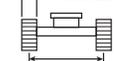
3.1 m (10'2")

R3.1



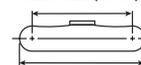
5.1 m (16'9")

600 mm (24") Triple Grouser Track Shoes



2200 mm (7'2")

3265 mm (10'9")



4070 mm (13'4")

Reach Boom	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	mm
7500 mm 25'0"	kg lb											*2850 *6,350	*2850 *6,350	5440 17'5"
6000 mm 20'0"	kg lb							*3900 *8,150	*3900 *8,150			*2600 *5,750	*2600 *5,750	6700 21'9"
4500 mm 15'0"	kg lb							*4650 *10,150	3950 8,450			*2550 *5,600	*2550 *5,600	7460 24'5"
3000 mm 10'0"	kg lb			*9000 *19,150	*9000 *19,150	*6350 *13,700	5800 12,500	*5350 *11,600	3800 8,150	*3850 *7,600	2700 5,750	*2650 *5,750	2500 5,500	7860 25'9"
1500 mm 5'0"	kg lb			*8500 *20,250	*8500 *20,250	*8050 *17,400	5450 11,700	5550 11,900	3600 7,750	4000 8,550	2600 5,600	*2800 *6,200	2400 5,250	7950 26'1"
0 mm 0 in	kg lb			*7650 *17,500	*7650 *17,500	8350 17,950	5200 11,150	5400 11,600	3500 7,500	3900 8,400	2550 5,500	*3200 *7,000	2450 5,350	7760 25'6"
-1500 mm -5'0"	kg lb	*5850 *13,050	*5850 *13,050	*10 450 *23,700	9500 20,300	8250 17,700	5050 10,900	5300 11,450	3400 7,350			*3850 *8,500	2650 5,850	7250 23'9"
-3000 mm -10'0"	kg lb	*9350 *20,950	*9350 *20,950	*13 450 *29,100	9550 20,500	8250 17,750	5100 10,950	5350 11,500	3450 7,400			4950 10,950	3200 7,050	6350 20'9"
-4500 mm -15'0"	kg lb			*10 650 *22,700	9850 21,150	*7200 *15,150	5250 11,300					*6500 *14,400	4750 10,800	4830 15'6"



ISO 10567:2007



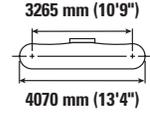
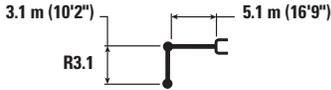
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

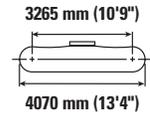
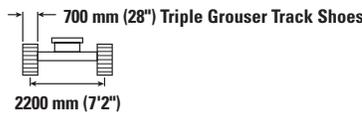
# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
7500 mm 25'0"	kg lb											*2850 *6,350	*2850 *6,350	5440 17'5"
6000 mm 20'0"	kg lb							*3900 *8,150	*3900 *8,150			*2600 *5,750	*2600 *5,750	6700 21'9"
4500 mm 15'0"	kg lb							*4650 *10,150	4050 8,700			*2550 *5,600	*2550 *5,600	7460 24'5"
3000 mm 10'0"	kg lb			*9000 *19,150	*9000 *19,150	*6350 *13,700	6000 12,900	*5350 *11,600	3900 8,400	*3850 *7,600	2800 5,950	*2650 *5,750	2600 5,700	7860 25'9"
1500 mm 5'0"	kg lb			*8500 *20,250	*8500 *20,250	*8050 *17,400	5600 12,100	5750 12,300	3750 8,050	4100 8,850	2700 5,800	*2800 *6,200	2500 5,450	7950 26'1"
0 mm 0 in	kg lb			*7650 *17,500	*7650 *17,500	8650 18,550	5350 11,550	5600 12,000	3600 7,750	4050 8,700	2650 5,700	*3200 *7,000	2550 5,550	7760 25'6"
-1500 mm -5'0"	kg lb	*5850 *13,050	*5850 *13,050	*10 450 *23,700	9800 21,000	8500 18,300	5250 11,300	5500 11,850	3550 7,600			*3850 *8,500	2750 6,050	7250 23'9"
-3000 mm -10'0"	kg lb	*9350 *20,950	*9350 *20,950	*13 450 *29,100	9900 21,200	8550 18,300	5250 11,300	5500 11,900	3550 7,650			5100 11,300	3300 7,300	6350 20'9"
-4500 mm -15'0"	kg lb			*10 650 *22,700	10 150 21,850	*7200 *15,150	5400 11,700					*6500 *14,400	4900 11,150	4830 15'6"

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
7500 mm 25'0"	kg lb											*2850 *6,350	*2850 *6,350	5440 17'5"
6000 mm 20'0"	kg lb							*3900 *8,150	*3900 *8,150			*2600 *5,750	*2600 *5,750	6700 21'9"
4500 mm 15'0"	kg lb							*4650 *10,150	4000 8,550			*2550 *5,600	*2550 *5,600	7460 24'5"
3000 mm 10'0"	kg lb			*9000 *19,150	*9000 *19,150	*6350 *13,700	5900 12,650	*5350 *11,600	3850 8,250	*3850 *7,600	2750 5,850	*2650 *5,750	2550 5,600	7860 25'9"
1500 mm 5'0"	kg lb			*8500 *20,250	*8500 *20,250	*8050 *17,400	5500 11,850	5650 12,100	3650 7,900	4050 8,650	2650 5,700	*2800 *6,200	2450 5,350	7950 26'1"
0 mm 0 in	kg lb			*7650 *17,500	*7650 *17,500	8500 18,200	5250 11,300	5500 11,750	3550 7,600	3950 8,550	2600 5,550	*3200 *7,000	2500 5,450	7760 25'6"
-1500 mm -5'0"	kg lb	*5850 *13,050	*5850 *13,050	*10 450 *23,700	9600 20,600	8350 17,950	5150 11,050	5400 11,600	3450 7,450			*3850 *8,500	2700 5,900	7250 23'9"
-3000 mm -10'0"	kg lb	*9350 *20,950	*9350 *20,950	*13 450 *29,100	9700 20,800	8400 18,000	5150 11,100	5400 11,650	3500 7,500			5000 11,100	3250 7,150	6350 20'9"
-4500 mm -15'0"	kg lb			*10 650 *22,700	9950 21,400	*7200 *15,150	5300 11,450					*6500 *14,400	4800 10,500	4830 15'6"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

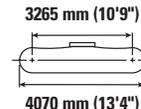
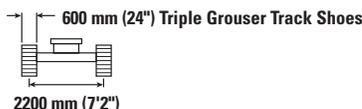
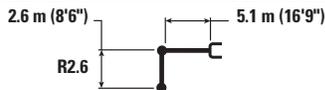
Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

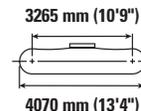
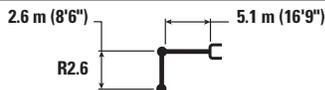
2800 mm (9'2") blade



Reach Boom	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft/inch)		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
7500 mm 25'0"	kg lb											*3500 *7,800	*3500 *7,800	4840 15'4"
6000 mm 20'0"	kg lb							*3900 *7,400	*3900 *7,400			*3100 *6,850	*3100 *6,850	6230 20'3"
4500 mm 15'0"	kg lb					*5500 *11,950	*5500 *11,950	*5150 *11,200	4100 8,800			*3000 *6,600	*3000 *6,600	7040 23'0"
3000 mm 10'0"	kg lb			*10 650 *22,700	*10 650 *22,700	*7050 *15,150	6050 13,000	5700 12,200	3950 8,550			*3050 *6,700	2850 6,300	7460 24'5"
1500 mm 5'0"	kg lb					8550 18,400	5700 12,250	5500 11,850	3800 8,200	*3700 2800		*3250 *7,200	2750 6,050	7560 24'10"
0 mm 0 in	kg lb			*6650 *15,300	*6650 *15,300	8350 17,900	5500 11,800	5400 11,600	3700 7,950			*3700 *8,100	2800 6,200	7350 24'2"
-1500 mm -5'0"	kg lb	*6150 *13,750	*6150 *13,750	*10 850 *24,700	10 150 21,700	8250 17,700	5400 11,650	5350 11,500	3650 7,900			4500 9,850	3100 6,850	6810 22'4"
-3000 mm -10'0"	kg lb	*10 700 *24,050	*10 700 *24,050	*12 700 *27,400	10 250 22,000	8300 17,850	5450 11,800					5600 12,500	3850 8,550	5840 19'0"
-4500 mm -15'0"	kg lb			*9050 *19,050	*9050 *19,050							*6500 *14,200	6400 *14,200	4140 13'3"

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

2800 mm (9'2") blade



Reach Boom	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft/inch)		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
7500 mm 25'0"	kg lb											*3500 *7,800	*3500 *7,800	4840 15'4"
6000 mm 20'0"	kg lb							*3900 *7,400	*3900 *7,400			*3100 *6,850	*3100 *6,850	6230 20'3"
4500 mm 15'0"	kg lb					*5500 *11,950	*5500 *11,950	*5150 *11,200	4250 9,100			*3000 *6,600	*3000 *6,600	7040 23'0"
3000 mm 10'0"	kg lb			*10 650 *22,700	*10 650 *22,700	*7050 *15,150	6200 13,350	*5750 *12,550	4100 8,800			*3050 *6,700	2950 6,550	7460 24'5"
1500 mm 5'0"	kg lb					*8600 *18,600	5850 12,650	5700 12,250	3950 8,500	*3700 2900		*3250 *7,200	2850 6,250	7560 24'10"
0 mm 0 in	kg lb			*6650 *15,300	*6650 *15,300	8600 18,450	5650 12,200	5550 11,950	3850 8,250			*3700 *8,100	2900 6,400	7350 24'2"
-1500 mm -5'0"	kg lb	*6150 *13,750	*6150 *13,750	*10 850 *24,700	10 450 22,400	8550 18,300	5600 12,050	5500 11,850	3800 8,150			*4500 *10,000	3200 7,100	6810 22'4"
-3000 mm -10'0"	kg lb	*10 700 *24,050	*10 700 *24,050	*12 700 *27,400	10 600 22,750	8600 18,450	5650 12,150					5800 12,900	4000 8,850	5840 19'0"
-4500 mm -15'0"	kg lb			*9050 *19,050	*9050 *19,050							*6500 *14,200	6400 *14,200	4140 13'3"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

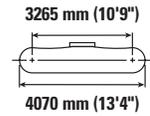
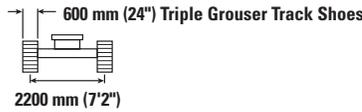
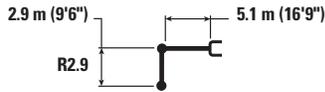
Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

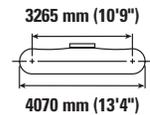
2800 mm (9'2") blade



Reach Boom Lift Configuration	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		2800 mm (9'2") blade		mm (ft/inch)	
	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)		
7500 mm 25'0"	kg lb											*3100 *6,950	*3100 *6,950	5160 16'6"
6000 mm 20'0"	kg lb						*3950 *8,050	*3950 *8,050				*2850 *6,250	*2850 *6,250	6480 21'1"
4500 mm 15'0"	kg lb						*4850 *10,550	4100 8,850				*2750 *6,050	*2750 *6,050	7260 23'9"
3000 mm 10'0"	kg lb			*9650 *20,500	*9650 *20,500	*6600 *14,250	6050 13,050	*5500 *11,950	3950 8,550	*3600 *6,700	2850 6,100	*2850 *6,250	2750 6,000	7670 25'2"
1500 mm 5'0"	kg lb			*7250 *17,200	*7250 *17,200	*8250 *17,850	5700 12,250	5500 11,800	3800 8,200	3950 *8,450	2750 5,950	*3050 *6,700	2650 5,750	7770 25'6"
0 mm 0 in	kg lb			*7450 *17,050	*7450 *17,050	8300 17,850	5450 11,750	5350 11,500	3700 7,900	3900	2700	*3500 *7,650	2700 5,900	7570 24'10"
-1500 mm -5'0"	kg lb	*6100 *13,600	*6100 *13,600	*10 750 *24,450	10 050 21,500	8200 17,600	5350 11,550	5300 11,400	3600 7,800			4250 9,300	2950 6,450	7050 23'1"
-3000 mm -10'0"	kg lb	*9950 *22,350	*9950 *22,350	*13 150 *28,400	10 150 21,750	8250 17,700	5400 11,600	5350 11,600	3650			5200 11,550	3550 7,900	6110 19'11"
-4500 mm -15'0"	kg lb			*10 050 *21,350	*10 050 *21,350	*6700	5600					*6650 *14,600	5550 12,650	4520 14'6"

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

2800 mm (9'2") blade



Reach Boom Lift Configuration	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		2800 mm (9'2") blade		mm (ft/inch)	
	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)	kg (lb)		
7500 mm 25'0"	kg lb											*3100 *6,950	*3100 *6,950	5160 16'6"
6000 mm 20'0"	kg lb						*3950 *8,050	*3950 *8,050				*2850 *6,250	*2850 *6,250	6480 21'1"
4500 mm 15'0"	kg lb						*4850 *10,550	4250 9,100				*2750 *6,050	*2750 *6,050	7260 23'9"
3000 mm 10'0"	kg lb			*9650 *20,500	*9650 *20,500	*6600 *14,250	6250 13,450	*5500 *11,950	4100 8,800	*3600 *6,700	2950 6,300	*2850 *6,250	2850 6,250	7670 25'2"
1500 mm 5'0"	kg lb			*7250 *17,200	*7250 *17,200	*8250 *17,850	5900 12,650	5700 12,200	3950 8,450	4100 *8,450	2850 6,150	*3050 *6,700	2700 5,950	7770 25'6"
0 mm 0 in	kg lb			*7450 *17,050	7450 17,050	8600 18,400	5650 12,150	5550 11,900	3800 8,150	*3950	2800	*3500 *7,650	2750 6,100	7570 24'10"
-1500 mm -5'0"	kg lb	*6100 *13,600	*6100 *13,600	*10 750 *24,450	10 350 22,200	8500 18,200	5550 11,950	5500 11,750	3750 8,050			*4250 *9,400	3050 6,650	7050 23'1"
-3000 mm -10'0"	kg lb	*9950 *22,350	*9950 *22,350	*13 150 *28,400	10 450 22,450	8500 18,250	5600 12,000	5500	3800			5350 11,950	3700 8,200	6110 19'11"
-4500 mm -15'0"	kg lb			*10 050 *21,350	*10 050 *21,350	*6700	5750					*6650 *14,600	5750 13,050	4520 14'6"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

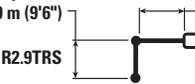
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

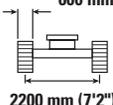
2800 mm (9'2") blade

Thumb Ready Stick  
2.9 m (9'6")



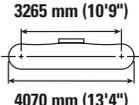
R2.9TRS

5.1 m (16'9")



600 mm (24") Triple Grouser Track Shoes

2200 mm (7'2")



3265 mm (10'9")

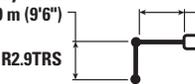
4070 mm (13'4")

		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"				
														mm (ft'inch")
7500 mm 25'0"	kg lb											*3100 *6,850	*3100 *6,850	5160 16'6"
6000 mm 20'0"	kg lb							*3900 *7,950	*3900 *7,950			*2800 *6,150	*2800 *6,150	6480 21'1"
4500 mm 15'0"	kg lb							*4750 *10,400	4050 8,700			*2750 *6,000	*2750 *6,000	7260 23'9"
3000 mm 10'0"	kg lb			*9550 *20,300	*9550 *20,300	*6550 *14,100	6000 12,900	*5450 *11,800	3900 8,400	*3550 *6,600	2800 5,950	*2800 *6,150	2700 5,900	7670 25'2"
1500 mm 5'0"	kg lb			*7200 *17,150	*7200 *17,150	*8200 *17,650	5600 12,100	5450 11,700	3750 8,050	3900 8,350	2700 5,800	*3050 *6,650	2650 5,650	7770 25'6"
0 mm 0 in	kg lb			*7400 *16,950	*7400 *16,950	8200 17,650	5400 11,550	5300 11,350	3600 7,750	3850	2650	*3450 *7,550	2600 5,750	7570 24'10"
-1500 mm -5'0"	kg lb	*6050 *13,500	*6050 *13,500	*10 700 *24,350	9900 21,200	8100 17,400	5300 11,350	5250 11,250	3550 7,650			4150 9,150	2850 6,300	7050 23'1"
-3000 mm -10'0"	kg lb	*9900 *22,250	*9900 *22,250	*13 050 *28,150	10 050 21,500	8150 17,500	5300 11,450	5250	3600			5150 11,400	3500 7,750	6110 19'11"
-4500 mm -15'0"	kg lb			*9950 *21,100	*9950 *21,100	*6600	5500					*6550 *14,400	5500 12,500	4520 14'6"

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

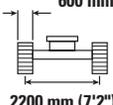
2800 mm (9'2") blade

Thumb Ready Stick  
2.9 m (9'6")



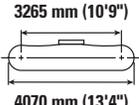
R2.9TRS

5.1 m (16'9")



600 mm (24") Triple Grouser Track Shoes with Rubber Pad

2200 mm (7'2")



3265 mm (10'9")

4070 mm (13'4")

		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"				
														mm (ft'inch")
7500 mm 25'0"	kg lb											*3100 *6,850	*3100 *6,850	5160 16'6"
6000 mm 20'0"	kg lb							*3900 *7,950	*3900 *7,950			*2800 *6,150	*2800 *6,150	6480 21'1"
4500 mm 15'0"	kg lb							*4750 *10,400	4200 9,000			*2750 *6,000	*2750 *6,000	7260 23'9"
3000 mm 10'0"	kg lb			*9550 *20,300	*9550 *20,300	*6550 *14,100	6200 13,300	*5450 *11,800	4050 8,650	*3550 *6,600	2850 6,150	*2800 *6,150	2750 6,100	7670 25'2"
1500 mm 5'0"	kg lb			*7200 *17,150	*7200 *17,150	*8200 *17,650	5800 12,500	5600 12,050	3850 8,300	4050 *8,350	2800 6,000	*3050 *6,650	2650 5,850	7770 25'6"
0 mm 0 in	kg lb			*7400 *16,950	*7400 *16,950	8500 18,250	5550 11,950	5450 11,750	3750 8,000	*3900	2750	*3450 *7,550	2700 5,950	7570 24'10"
-1500 mm -5'0"	kg lb	*6050 *13,500	*6050 *13,500	*10 700 *24,350	10 250 21,950	8400 18,000	5450 11,750	5400 11,600	3650 7,900			*4250 *9,350	2950 6,550	7050 23'1"
-3000 mm -10'0"	kg lb	*9900 *22,250	*9900 *22,250	*13 050 *28,150	10 350 22,200	8450 18,100	5500 11,850	5450	3700			5300 11,800	3600 8,050	6110 19'11"
-4500 mm -15'0"	kg lb			*9950 *21,100	*9950 *21,100	*6600	5700					*6550 *14,400	5650 12,500	4520 14'6"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

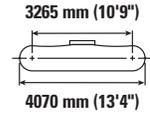
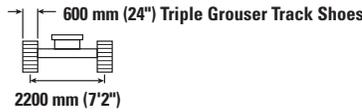
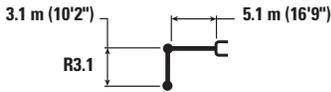
Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

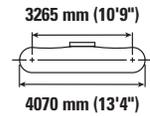
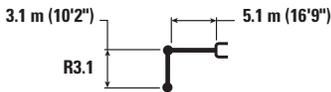
2800 mm (9'2") blade



Reach (mm/in)	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft/inch)		
		kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	
7500 mm 25'0"	kg lb											*2850 *6,350	*2850 *6,350	5440 17'5"
6000 mm 20'0"	kg lb							*3900 *8,150	*3900 *8,150			*2600 *5,750	*2600 *5,750	6700 21'9"
4500 mm 15'0"	kg lb							*4650 *10,150	4150 8,900			*2550 *5,600	*2550 *5,600	7460 24'5"
3000 mm 10'0"	kg lb			*9000 *19,150	*9000 *19,150	*6350 *13,700	6100 13,150	*5350 *11,600	4000 8,600	*3850 *7,600	2850 6,100	*2650 *5,750	*2650 *5,750	7860 25'9"
1500 mm 5'0"	kg lb			*8500 *20,250	*8500 *20,250	*8050 *17,400	5750 12,350	5500 11,850	3800 8,200	3950 8,500	2800 5,950	*2800 *6,200	2550 5,600	7950 26'1"
0 mm 0 in	kg lb			*7650 *17,500	*7650 *17,500	8350 17,900	5500 11,800	5350 11,550	3700 7,950	3900 8,350	2700 5,850	*3200 *7,000	2700 5,700	7760 25'6"
-1500 mm -5'0"	kg lb	*5850 *13,050	*5850 *13,050	*10 450 *23,700	10 050 21,500	8200 17,600	5350 11,550	5300 11,400	3600 7,800			*3850 *8,500	2800 6,200	7250 23'9"
-3000 mm -10'0"	kg lb	*9350 *20,950	*9350 *20,950	*13 450 *29,100	10 100 21,700	8200 17,650	5400 11,600	5300 11,450	3650 7,850			4900 10,900	3400 7,500	6350 20'9"
-4500 mm -15'0"	kg lb			*10 650 *22,700	10 400 22,300	*7200 *15,150	5550 11,950					*6500 *14,400	5050 11,400	4830 15'6"

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

2800 mm (9'2") blade



Reach (mm/in)	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft/inch)		
		kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	
7500 mm 25'0"	kg lb											*2850 *6,350	*2850 *6,350	5440 17'5"
6000 mm 20'0"	kg lb							*3900 *8,150	*3900 *8,150			*2600 *5,750	*2600 *5,750	6700 21'9"
4500 mm 15'0"	kg lb							*4650 *10,150	4250 9,150			*2550 *5,600	*2550 *5,600	7460 24'5"
3000 mm 10'0"	kg lb			*9000 *19,150	*9000 *19,150	*6350 *13,700	6300 13,550	*5350 *11,600	4100 8,850	*3850 *7,600	2950 6,300	*2650 *5,750	*2650 *5,750	7860 25'9"
1500 mm 5'0"	kg lb			*8500 *20,250	*8500 *20,250	*8050 *17,400	5900 12,750	5700 12,250	3950 8,500	4100 8,800	2850 6,150	*2800 *6,200	2650 5,800	7950 26'1"
0 mm 0 in	kg lb			*7650 *17,500	*7650 *17,500	8600 18,450	5650 12,200	5550 11,950	3800 8,200	4050 8,650	2800 6,050	*3200 *7,000	2700 5,900	7760 25'6"
-1500 mm -5'0"	kg lb	*5850 *13,050	*5850 *13,050	*10 450 *23,700	10 350 22,200	8500 18,200	5550 11,950	5500 11,750	3750 8,050			*3850 *8,500	2900 6,400	7250 23'9"
-3000 mm -10'0"	kg lb	*9350 *20,950	*9350 *20,950	*13 450 *29,100	10 450 22,400	8500 18,250	5550 11,950	5500 11,800	3750 8,100			5100 11,250	3500 7,750	6350 20'9"
-4500 mm -15'0"	kg lb			*10 650 *22,700	*10 650 *22,700	*7200 *15,150	5750 12,350					*6500 *14,400	5200 11,500	4830 15'6"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

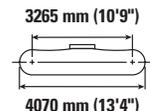
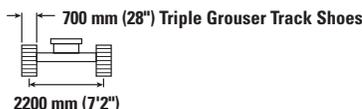
Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

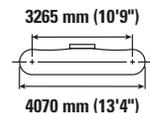
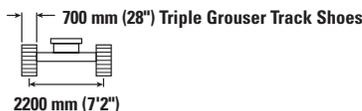
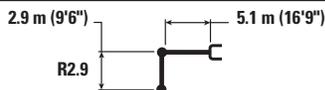
2900 mm (9'6") blade



Reach	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
7500 mm 25'0"	kg											*3500	*3500	4840
	lb											*7,800	*7,800	15'4"
6000 mm 20'0"	kg							*3900	*3900			*3100	*3100	6230
	lb							*7,400	*7,400			*6,850	*6,850	20'3"
4500 mm 15'0"	kg					*5500	*5500	*5150	4150			*3000	*3000	7040
	lb					*11,950	*11,950	*11,200	8,950			*6,600	*6,600	23'0"
3000 mm 10'0"	kg			*10 650	*10 650	*7050	6100	5750	4000			*3050	2900	7460
	lb			*22,700	*22,700	*15,150	13,150	12,350	8,650			*6,700	6,400	24'5"
1500 mm 5'0"	kg					*8600	5750	5600	3850	*3700	2850	*3250	2800	7560
	lb					*18,600	12,400	12,000	8,350			*7,200	6,150	24'10"
0 mm 0 in	kg			*6650	*6650	8450	5550	5450	3750			*3700	2850	7350
	lb			*14,650	*14,650	18,600	12,300	11,950	8,100			*8,100	6,300	24'2"
-1500 mm -5'0"	kg	*6150	*6150	*10 850	10 250	8350	5500	5400	3700			*4500	3150	6810
	lb	*13,750	*13,750	*24,050	22,000	17,950	11,850	11,650	8,000			*10,000	6,950	22'4"
-3000 mm -10'0"	kg	*10 700	*10 700	*12 700	10 400	8450	5550					5700	3900	5840
	lb	*24,050	*24,050	*27,400	22,350	18,100	11,950					12,650	8,650	19'0"
-4500 mm -15'0"	kg			*9050	*9050							*6500	*6500	4140
	lb			*19,050	*19,050							*14,200	*14,200	13'3"

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

2900 mm (9'6") blade



Reach	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
7500 mm 25'0"	kg											*3100	*3100	5160
	lb											*6,950	*6,950	16'6"
6000 mm 20'0"	kg							*3950	*3950			*2850	*2850	6480
	lb							*8,050	*8,050			*6,250	*6,250	21'1"
4500 mm 15'0"	kg							*4850	4150			*2750	*2750	7260
	lb							*10,550	8,950			*6,050	*6,050	23'9"
3000 mm 10'0"	kg			*9650	*9650	*6600	6150	*5500	4000	*3600	2900	*2850	2800	7670
	lb			*20,500	*20,500	*14,250	13,200	*11,950	8,650	*6,700	6,150	*6,250	6,100	25'2"
1500 mm 5'0"	kg			*7250	*7250	*8250	5800	5600	3850	4000	2800	*3050	2650	7770
	lb			*17,200	*17,200	*17,850	12,450	12,000	8,300	*8,450	6,050	*6,700	5,850	25'6"
0 mm 0 in	kg			*7450	*7450	8400	5550	5450	3750	3950	2750	*3500	2700	7570
	lb			*17,050	*17,050	18,050	11,900	11,700	8,000			*7,650	5,950	24'10"
-1500 mm -5'0"	kg	*6100	*6100	*10 750	10 150	8300	5450	5350	3650			*4250	2950	7050
	lb	*13,600	*13,600	*24,450	21,800	17,850	11,700	11,550	7,900			*9,400	6,550	23'1"
-3000 mm -10'0"	kg	*9950	*9950	*13 150	10 300	8350	5500	5400	3700			5250	3600	6110
	lb	*22,350	*22,350	*28,400	22,050	17,900	11,800					11,700	8,000	19'11"
-4500 mm -15'0"	kg			*10 050	*10 050	*6700	5650					*6650	5650	4520
	lb			*21,350	*21,350							*14,600	12,850	14'6"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# 319 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

2900 mm (9'6") blade

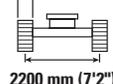
Thumb Ready Stick  
2.9 m (9'6")  
R2.9TRS



5.1 m (16'9")

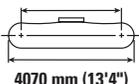


700 mm (28") Triple Grouser Track Shoes



2200 mm (7'2")

3265 mm (10'9")  
4070 mm (13'4")

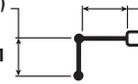


Reach	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")	
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
7500 mm	kg											*3100	*3100
25'0"	lb											*6,850	*6,850
6000 mm	kg							*3900	*3900			*2800	*2800
20'0"	lb							*7,950	*7,950			*6,150	*6,150
4500 mm	kg							*4750	4100			*2750	*2750
15'0"	lb							*10,400	8,850			*6,000	*6,000
3000 mm	kg			*9550	*9550	*6550	6100	*5450	3950	*3550	2800	*2800	2700
10'0"	lb			*20,300	*20,300	*14,100	13,100	*11,800	8,500	*6,600	6,050	*6,150	6,000
1500 mm	kg			*7200	*7200	*8200	5700	5500	3800	3950	2750	*3050	2600
5'0"	lb			*17,150	*17,150	*17,650	12,250	11,850	8,150	*8,350	5,900	*6,650	5,700
0 mm	kg			*7400	*7400	8350	5450	5350	3650	3900	2700	*3450	2650
0 in	lb			*16,950	*16,950	17,900	11,750	11,550	7,850			*7,550	5,850
-1500 mm	kg	*6050	*6050	*10 700	10 050	8250	5350	5300	3600			4250	2900
-5'0"	lb	*13,500	*13,500	*24,350	21,550	17,650	11,500	11,400	7,750			9,300	6,400
-3000 mm	kg	*9900	*9900	*13 050	10 150	8250	5400	5350	3650			5200	3550
-10'0"	lb	*22,250	*22,250	*28,150	21,800	17,750	11,600					11,550	7,900
-4500 mm	kg			*9950	*9950	*6600	5600					*6550	5550
-15'0"	lb			*21,100	*21,100							*14,400	12,700

## Reach Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

2900 mm (9'6") blade

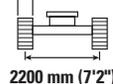
3.1 m (10'2")  
R3.1



5.1 m (16'9")

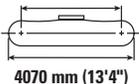


700 mm (28") Triple Grouser Track Shoes



2200 mm (7'2")

3265 mm (10'9")  
4070 mm (13'4")



Reach	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")	
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
7500 mm	kg											*2850	*2850
25'0"	lb											*6,350	*63,50
6000 mm	kg							*3900	*3900			*2600	*2600
20'0"	lb							*8,150	*8,150			*5,750	*5,750
4500 mm	kg							*4650	4200			*2550	*2550
15'0"	lb							*10,150	9,000			*5,600	*5,600
3000 mm	kg			*9000	*9000	*6350	6200	*5350	4050	*3850	2900	*2650	*2650
10'0"	lb			*19,150	*19,150	*13,700	13,300	*11,600	8,700	*7,600	6,200	*5,750	*5,750
1500 mm	kg			*8500	*8500	*8050	5800	5600	3900	4000	2800	*2800	2600
5'0"	lb			*20,250	*20,250	*17,400	12,500	12,050	8,350	8,600	6,050	*6,200	5,650
0 mm	kg			*7650	*7650	8450	5550	5450	3750	3950	2750	*3200	2650
0 in	lb			*17,500	*17,500	18,150	11,950	11,700	8,050	8,500	5,900	*7,000	5,750
-1500 mm	kg	*5850	*5850	*10 450	10 150	8300	5450	5350	3650			*3850	2850
-5'0"	lb	*13,050	*13,050	*23,700	21,800	17,850	11,700	11,550	7,900			*8,500	6,300
-3000 mm	kg	*9350	*9350	*13 450	10 250	8350	5450	5400	3700			5000	3450
-10'0"	lb	*20,950	*20,950	*29,100	22,000	17,900	11,750	11,600	7,950			11,050	7,600
-4500 mm	kg			*10 650	10 550	*7200	5600					*6500	5100
-15'0"	lb			*22,700	22,600	*15,150	12,150					*14,400	11,550



ISO 10567:2007



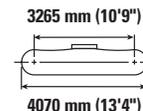
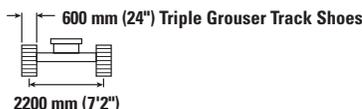
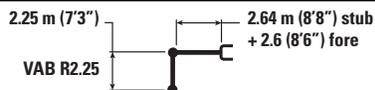
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

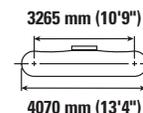
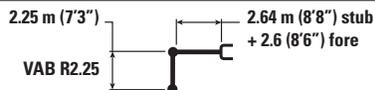
# 319 Hydraulic Excavator Specifications

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"				mm (ft'inch")
7500 mm 25'0"	kg lb	*6300 *13,900	*6300 *13,900	*4600	*4600			*4050 *9,100	*4050 *9,100	4600 14'7"
6000 mm 20'0"	kg lb	*5700 *12,600	*5700 *12,600	*5900 *12,800	*5900 *12,800	*3800	*3800	*3450 *7,650	*3450 *7,650	6050 19'7"
4500 mm 15'0"	kg lb	*8700 *17,900	*8700 *17,900	*6400 *13,850	5950 12,750	*4850 *10,550	3800 8,100	*3250 *7,200	3000 6,650	6880 22'6"
3000 mm 10'0"	kg lb			*7750 *16,600	5500 11,900	*5250 *11,250	3650 7,800	*3250 *7,200	2700 5,900	7310 23'11"
1500 mm 5'0"	kg lb			8400 18,100	5150 11,100	5450 11,700	3450 7,450	*3450 *7,550	2550 5,650	7410 24'4"
0 mm 0 in	kg lb			8200 17,600	5000 10,700	5300 11,450	3350 7,250	*3800 *8,350	2650 5,800	7200 23'8"
-1500 mm -5'0"	kg lb	*8450 *18,500	*8450 *18,500	*7250 *15,650	4950 10,650	*5250 *11,200	3350 7,200	*4050 *8,900	2950 6,500	6650 21'9"

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"				mm (ft'inch")
7500 mm 25'0"	kg lb	*6300 *13,900	*6300 *13,900	*4600	*4600			*4050 *9,100	*4050 *9,100	4600 14'7"
6000 mm 20'0"	kg lb	*5700 *12,600	*5700 *12,600	*5900 *12,800	*5900 *12,800	*3800	*3800	*3450 *7,650	*3450 *7,650	6050 19'7"
4500 mm 15'0"	kg lb	*8700 *17,900	*8700 *17,900	*6400 *13,850	6100 13,150	*4850 *10,550	3900 8,400	*3250 *7,200	3100 6,900	6880 22'6"
3000 mm 10'0"	kg lb			*7750 *16,600	5700 12,300	*5250 *11,250	3750 8,050	*3250 *7,200	2800 6,100	7310 23'11"
1500 mm 5'0"	kg lb			8700 18,650	5350 11,500	5600 12,050	3600 7,750	*3450 *7,550	2650 5,850	7410 24'4"
0 mm 0 in	kg lb			8500 18,200	5150 11,100	5500 11,800	3500 7,500	*3800 *8,350	2750 6,050	7200 23'8"
-1500 mm -5'0"	kg lb	*8450 *18,500	*8450 *18,500	*7250 *15,650	5150 11,050	*5250 *11,200	3500 7,500	*4050 *8,900	3050 6,750	6650 21'9"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

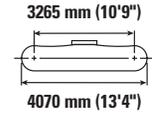
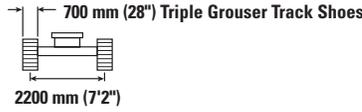
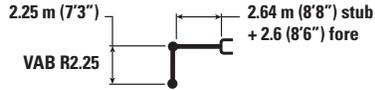
Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Max length of VAB.

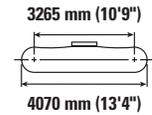
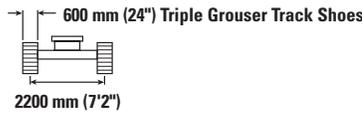
# 319 Hydraulic Excavator Specifications

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"				mm (ft'inch")
7500 mm 25'0"	kg lb	*6300 *13,900	*6300 *13,900	*4600	*4600			*4050 *9,100	*4050 *9,100	4600 14'7"
6000 mm 20'0"	kg lb	*5700 *12,600	*5700 *12,600	*5900 *12,800	*5900 *12,800	*3800	*3800	*3450 *7,650	*3450 *7,650	6050 19'7"
4500 mm 15'0"	kg lb	*8700 *17,900	*8700 *17,900	*6400 *13,850	6000 12,900	*4850 *10,550	3850 8,250	*3250 *7,200	3050 6,750	6880 22'6"
3000 mm 10'0"	kg lb			*7750 *16,600	5600 12,050	*5250 *11,250	3700 7,900	*3250 *7,200	2700 6,000	7310 23'11"
1500 mm 5'0"	kg lb			8550 18,350	5250 11,250	5500 11,850	3500 7,550	*3450 *7,550	2600 5,750	7410 24'4"
0 mm 0 in	kg lb			8300 17,850	5050 10,850	5400 11,600	3400 7,350	*3800 *8,350	2700 5,900	7200 23'8"
-1500 mm -5'0"	kg lb	*8450 *18,500	*8450 *18,500	*7250 *15,650	5050 10,850	*5250 *11,200	3400 7,350	*4050 *89,00	3000 6,600	6650 21'9"

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"				mm (ft'inch")
9000 mm 30'0"	kg lb									*5150 *12,750	*5150 *12,750	2440 6'4"
7500 mm 25'0"	kg lb	*5350 *11,850	*5350 *11,850	*4850 *10,100	*4850 *10,100					*3350 *7,450	*3350 *7,450	5120 16'4"
6000 mm 20'0"	kg lb	*4750 *10,500	*4750 *10,500	*5250 *11,500	*5250 *11,500	*4450 *8,950	3900 8,300			*2900 *6,400	*2900 *6,400	6450 20'11"
4500 mm 15'0"	kg lb	*6100 *12,950	*6100 *12,950	*6100 *13,150	6000 12,950	*4700 *10,100	3800 8,200			*2750 *6,050	*2750 *6,050	7230 23'8"
3000 mm 10'0"	kg lb			*7300 *15,650	5600 12,050	*5050 *10,850	3650 7,850	*3700 *6,300	2600 5,550	*2750 *6,050	2500 5,500	7640 25'0"
1500 mm 5'0"	kg lb			8450 18,200	5200 11,200	5450 11,700	3500 7,500	3900 8,400	2550 5,400	*2900 *6,350	2400 5,300	7740 25'5"
0 mm 0 in	kg lb	*5500 *12,650	*5500 *12,650	8200 17,600	5000 10,700	5300 11,400	3350 7,200	*3600	2500	*3200 *7,000	2450 5,400	7540 24'9"
-1500 mm -5'0"	kg lb	*9700 *21,100	9250 19,850	*7700 *16,700	4900 10,600	5250 11,350	3300 7,150			*3750 *8,250	2750 6,050	7010 23'0"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

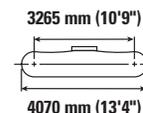
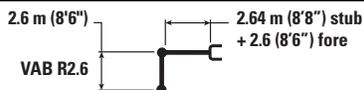
Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Max length of VAB.

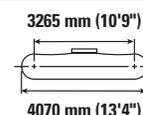
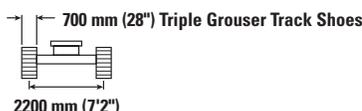
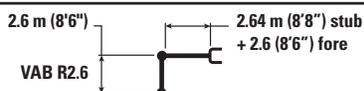
# 319 Hydraulic Excavator Specifications

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



Boom Length	Unit	3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
9000 mm 30'0"	kg lb									*5150 *12,750	*5150 *12,750	2440 6'4"
7500 mm 25'0"	kg lb	*5350 *11,850	*5350 *11,850	*4850 *10,100	*4850 *10,100					*3350 *7,450	*3350 *7,450	5120 16'4"
6000 mm 20'0"	kg lb	*4750 *10,500	*4750 *10,500	*5250 *11,500	*5250 *11,500	*4450 *8,950	4000 8,600			*2900 *6,400	*2900 *6,400	6450 20'11"
4500 mm 15'0"	kg lb	*6100 *12,950	*6100 *12,950	*6100 *13,150	*6100 *13,150	*4700 *10,100	3950 8,450			*2750 *6,050	*2750 *6,050	7230 23'8"
3000 mm 10'0"	kg lb			*7300 *15,650	5800 12,450	*5050 *10,850	3800 8,150	*3700 *6,300	2700 5,750	*2750 *6,050	2600 5,750	7640 25'0"
1500 mm 5'0"	kg lb			8750 18,800	5400 11,600	*5550 *11,950	3600 7,750	4050 *8,500	2600 5,600	*2900 *6,350	2500 5,500	7740 25'5"
0 mm 0 in	kg lb	*5500 *12,650	*5500 *12,650	8500 18,200	5150 11,100	5500 11,800	3500 7,500	*3600	2600	*3200 *7,000	2550 5,600	7540 24'9"
-1500 mm -5'0"	kg lb	*9700 *21,100	9600 20,550	*7700 *16,700	5100 10,950	5450 11,700	3450 7,400			*3750 *8,250	2850 6,200	7010 23'0"

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On



Boom Length	Unit	3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm (ft'inch")		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
9000 mm 30'0"	kg lb									*5150 *12,750	*5150 *12,750	2440 6'4"
7500 mm 25'0"	kg lb	*5350 *11,850	*5350 *11,850	*4850 *10,100	*4850 *10,100					*3350 *7,450	*3350 *7,450	5120 16'4"
6000 mm 20'0"	kg lb	*4750 *10,500	*4750 *10,500	*5250 *11,500	*5250 *11,500	*4450 *8,950	3950 8,400			*2900 *6,400	*2900 *6,400	6450 20'11"
4500 mm 15'0"	kg lb	*6100 *12,950	*6100 *12,950	*6100 *13,150	6100 13,100	*4700 *10,100	3900 8,300			*2750 *6,050	*2750 *6,050	7230 23'8"
3000 mm 10'0"	kg lb			*7300 *15,650	5650 12,200	*5050 *10,850	3700 7,950	*3700 *6,300	2650 5,600	*2750 *6,050	2550 5,600	7640 25'0"
1500 mm 5'0"	kg lb			8600 18,450	5300 11,350	5550 11,900	3550 7,600	4000 *8,500	2550 5,500	*2900 *6,350	2450 5,350	7740 25'5"
0 mm 0 in	kg lb	*5500 *12,650	*5500 *12,650	8350 17,850	5050 10,850	5400 11,600	3400 7,300	*3600	2550	*3200 *7,000	2500 5,500	7540 24'9"
-1500 mm -5'0"	kg lb	*9700 *21,100	9400 20,150	*7700 *16,700	5000 10,750	5350 11,500	3350 7,250			*3750 *8,250	2750 6,100	7010 23'0"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

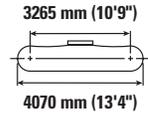
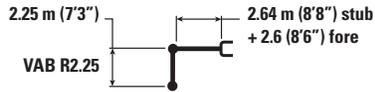
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Max length of VAB.

# 319 Hydraulic Excavator Specifications

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

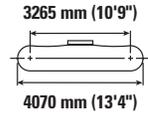
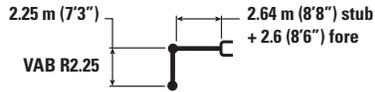
2800 mm (9'2") blade



Boom Length	3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		2800 mm (9'2") blade		mm (ft'inch")
	kg	lb	kg	lb	kg	lb	kg	lb	
7500 mm 25'0"	*6300 *13,900	*6300 *13,900	*4600	*4600			*4050 *9,100	*4050 *9,100	4600 14'7"
6000 mm 20'0"	*5700 *12,600	*5700 *12,600	*5900 *12,800	*5900 *12,800	*3800	*3800	*3450 *7,650	*3450 *7,650	6050 19'7"
4500 mm 15'0"	*8700 *17,900	*8700 *17,900	*6400 *13,850	6250 13,400	*4850 *10,550	4000 8,550	*3250 *7,200	3200 7,050	6880 22'6"
3000 mm 10'0"			*7750 *16,600	5800 12,550	*5250 *11,250	3850 8,250	*3250 *7,200	2850 6,250	7310 23'11"
1500 mm 5'0"			8400 18,000	5450 11,750	5400 11,600	3700 7,900	*3450 *7,550	2750 6,000	7410 24'4"
0 mm 0 in			8150 17,550	5300 11,350	5300 11,400	3550 7,700	*3800 *8,350	2800 6,150	7200 23'8"
-1500 mm -5'0"	*8450 *18,500	*8450 *18,500	*7250 *15,650	5250 11,300	*5250 *11,200	3550 7,650	*4050 *8,900	3150 6,900	6650 21'9"

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

2800 mm (9'2") blade



Boom Length	3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		2800 mm (9'2") blade		mm (ft'inch")
	kg	lb	kg	lb	kg	lb	kg	lb	
7500 mm 25'0"	*6300 *13,900	*6300 *13,900	*4600	*4600			*4050 *9,100	*4050 *9,100	4600 14'7"
6000 mm 20'0"	*5700 *12,600	*5700 *12,600	*5900 *12,800	*5900 *12,800	*3800	*3800	*3450 *7,650	*3450 *7,650	6050 19'7"
4500 mm 15'0"	*8700 *17,900	*8700 *17,900	*6400 *13,850	6400 13,800	*4850 *10,550	4100 8,850	*3250 *7,200	*3250 *7,200	6880 22'6"
3000 mm 10'0"			*7750 *16,600	6000 12,950	*5250 *11,250	3950 8,500	*3250 *7,200	2950 6,500	7310 23'11"
1500 mm 5'0"			8650 18,600	5650 12,150	5600 12,000	3800 8,200	*3450 *7,550	2850 6,200	7410 24'4"
0 mm 0 in			8450 18,100	5450 11,750	5450 11,750	3700 7,950	*3800 *8,350	2900 6,400	7200 23'8"
-1500 mm -5'0"	*8450 *18,500	*8450 *18,500	*7250 *15,650	5450 11,700	*5250 *11,200	3700 7,950	*4050 *8,900	3250 7,150	6650 21'9"



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\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Max length of VAB.

# 319 Hydraulic Excavator Specifications

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

2800 mm (9'2") blade

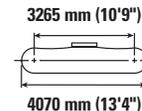
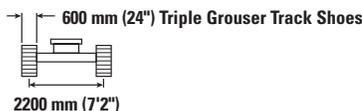


Diagram	3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		Diagram		mm (ft'inch")
	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	
9000 mm 30'0"									*5150 *12,750	*5150 *12,750	2440 6'4"
7500 mm 25'0"	*5350 *11,850	*5350 *11,850	*4850 *10,100	*4850 *10,100					*3350 *7,450	*3350 *7,450	5120 16'4"
6000 mm 20'0"	*4750 *10,500	*4750 *10,500	*5250 *11,500	*5250 *11,500	*4450 *9,950	4100 8,750			*2900 *6,400	*2900 *6,400	6450 20'11"
4500 mm 15'0"	*6100 *12,950	*6100 *12,950	*6100 *13,150	*6100 *13,150	*4700 *10,100	4050 8,650			*2750 *6,050	*2750 *6,050	7230 23'8"
3000 mm 10'0"			*7300 *15,650	5900 12,700	*5050 *10,850	3850 8,300	*3700 *6,300	2750 5,900	*2750 *6,050	2650 5,850	7640 25'0"
1500 mm 5'0"			8450 18,100	5500 11,850	5400 11,650	3700 7,950	3900 8,350	2700 5,750	*2900 *6,350	2550 5,600	7740 25'5"
0 mm 0 in	*5500 *12,650	*5500 *12,650	8150 17,550	5300 11,350	5300 11,350	3550 7,650	*3600	2650	*3200 *7,000	2650 5,750	7540 24'9"
-1500 mm -5'0"	*9700 *21,100	*9700 21,050	*7700 *16,700	5200 11,250	5200 11,250	3550 7,600			*3750 *8,250	2900 6,350	7010 23'0"

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

2800 mm (9'2") blade

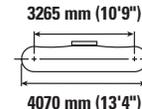
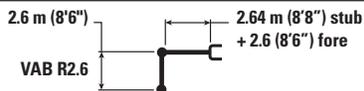


Diagram	3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		Diagram		mm (ft'inch")
	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	
9000 mm 30'0"									*5150 *12,750	*5150 *12,750	2440 6'4"
7500 mm 25'0"	*5350 *11,850	*5350 *11,850	*4850 *10,100	*4850 *10,100					*3350 *7,450	*3350 *7,450	5120 16'4"
6000 mm 20'0"	*4750 *10,500	*4750 *10,500	*5250 *11,500	*5250 *11,500	*4450 *9,950	4200 8,950			*2900 *6,400	*2900 *6,400	6450 20'11"
4500 mm 15'0"	*6100 *12,950	*6100 *12,950	*6100 *13,150	*6100 *13,150	*4700 *10,100	4150 8,900			*2750 *6,050	*2750 *6,050	7230 23'8"
3000 mm 10'0"			*7300 *15,650	6100 13,100	*5050 *10,850	4000 8,600	*3700 *6,300	2850 6,100	*2750 *6,050	2750 6,050	7640 25'0"
1500 mm 5'0"			8700 18,700	5700 12,250	*5550 *11,950	3800 8,200	4050 *8,500	2800 5,950	*2900 *6,350	2650 5,800	7740 25'5"
0 mm 0 in	*5500 *12,650	*5500 *12,650	8450 18,100	5450 11,750	5450 11,750	3700 7,950	*3600	2750	*3200 *7,000	2700 5,950	7540 24'9"
-1500 mm -5'0"	*9700 *21,100	*9700 *21,100	*7700 *16,700	5400 11,600	5400 11,600	3650 7,850			*3750 *8,250	3000 6,600	7010 23'0"



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\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

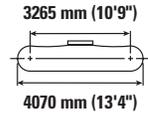
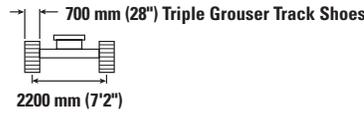
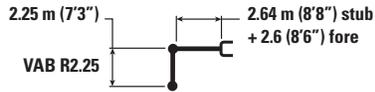
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Max length of VAB.

# 319 Hydraulic Excavator Specifications

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

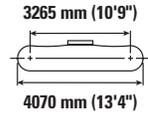
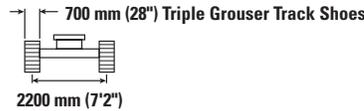
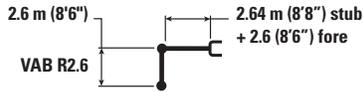
2900 mm (9'6") blade



Boom Length mm (ft'inch")	Unit	3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		2900 mm/9'6" Blade		mm (ft'inch")
		Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	
7500 mm 25'0"	kg lb	*6300 *13,900	*6300 *13,900	*4600	*4600			*4050 *9,100	*4050 *9,100	4600 14'7"
6000 mm 20'0"	kg lb	*5700 *12,600	*5700 *12,600	*5900 *12,800	*5900 *12,800	*3800	*3800	*3450 *7,650	*3450 *7,650	6050 19'7"
4500 mm 15'0"	kg lb	*8700 *17,900	*8700 *17,900	*6400 *13,850	6300 13,550	*4850 *10,550	4050 8,700	*3250 *7,200	3250 7,150	6880 22'6"
3000 mm 10'0"	kg lb			*7750 *16,600	5900 12,700	*5250 *11,250	3900 8,350	*3250 *7,200	2900 6,350	7310 23'11"
1500 mm 5'0"	kg lb			8500 18,250	5550 11,950	5500 11,800	3750 8,000	*3450 *7,550	2800 6,100	7410 24'4"
0 mm 0 in	kg lb			8300 17,750	5350 11,500	5350 11,550	3650 7,800	*3800 *8,350	2850 6,250	7200 23'8"
-1500 mm -5'0"	kg lb	*8450 *18,500	*8450 *18,500	*7250 *15,650	5350 11,500	*5250 *11,200	3600 7,800	*4050 *8,900	3200 7,000	6650 21'9"

## Variable Angle Boom Lift Capacities – Counterweight 4.65 mt (10,200 lb) – without Bucket – Heavy Lift: On – with Blade Up

2900 mm (9'6") blade



Boom Length mm (ft'inch")	Unit	3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		2900 mm/9'6" Blade		mm (ft'inch")
		Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	
9000 mm 30'0"	kg lb									*5150 *12,750	*5150 *12,750	2440 6'4"
7500 mm 25'0"	kg lb	*5350 *11,850	*5350 *11,850	*4850 *10,100	*4850 *10,100					*3350 *7,450	*3350 *7,450	5120 16'4"
6000 mm 20'0"	kg lb	*4750 *10,500	*4750 *10,500	*5250 *11,500	*5250 *11,500	*4450 *8,950	4150 8,850			*2900 *6,400	*2900 *6,400	6450 20'11"
4500 mm 15'0"	kg lb	*6100 *12,950	*6100 *12,950	*6100 *13,150	*6100 *13,150	*4700 *10,100	4100 8,750			*2750 *6,050	*2750 *6,050	7230 23'8"
3000 mm 10'0"	kg lb			*7300 *15,650	6000 12,900	*5050 *10,850	3900 8,400	*3700 *6,300	2800 5,950	*2750 *6,050	2700 5,950	7640 25'0"
1500 mm 5'0"	kg lb			8550 18,350	5600 12,000	5500 11,800	3750 8,050	3950 8,500	2750 5,850	*2900 *6,350	2600 5,700	7740 25'5"
0 mm 0 in	kg lb	*5500 *12,650	*5500 *12,650	8300 17,800	5350 11,500	5350 11,500	3600 7,800	*3600 7,800	2700 5,850	*3200 *7,000	2650 5,850	7540 24'9"
-1500 mm -5'0"	kg lb	*9700 *21,100	*9700 *21,100	*7700 *16,700	5300 11,400	5300 11,450	3600 7,700			*3750 *8,250	2950 6,450	7010 23'0"



ISO 10567:2007



\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Max length of VAB.

# 319 Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill %	4.65 mt (10,200 lb) Counterweight					
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		Reach Boom				VA Boom	
									R2.6 (8'6")	R2.9 (9'6")	R2.9 (9'6") TRS	R3.1 (10'2")	R2.25 (7'5")	R2.6 (8'6")
<b>Pin-On (No Quick Coupler)</b>														
General Duty	316	600	24	0.35	0.46	454	1,001	100	●	●	●	●	●	●
	316	750	30	0.49	0.64	516	1,137	100	●	●	●	●	●	●
	316	900	36	0.62	0.81	580	1,278	100	●	●	●	●	●	●
	316	1050	42	0.76	1.00	629	1,386	100	●	●	●	●	●	●
	316	1200	48	0.91	1.19	697	1,538	100	●	●	⊙	⊙	●	⊙
	316	1300	51	1.00	1.31	721	1,591	100	⊙	⊙	⊙	⊙	⊙	⊖
General Duty – Wide Tip	316	600	24	0.42	0.55	473	1,042	100	●	●	●	●	●	●
	316	750	30	0.58	0.76	535	1,179	100	●	●	●	●	●	●
	316	1050	42	0.90	1.18	670	1,478	100	●	●	⊙	⊙	●	⊙
	316	1200	48	1.07	1.40	737	1,625	100	⊙	⊖	⊖	⊖	⊙	⊖
Severe Duty	316	900	36	0.62	0.81	669	1,475	100	●	●	●	●	●	●
	316	1050	42	0.76	1.00	728	1,605	100	●	●	●	●	●	●
Clean Up	316	1500	60	1.24	1.62	770	1,698	100	⊖	⊖	○	○	⊖	○
	316	1500	60	0.64	0.84	830	1,829	100	●	●	●	●	●	●
	316	1800	72	0.78	1.02	928	2,046	100	●	●	⊙	⊙	●	⊙
	316	2000	79	0.86	1.12	1043	2,299	100	⊙	⊙	⊖	⊖	⊙	⊖
Maximum load with pin-on (payload + bucket)								kg	2670	2540	2450	2450	2600	2400
								lb	5,888	5,597	5,407	5,392	5,735	5,299
<b>With Cat Pin Grabber Coupler</b>														
General Duty	316	600	24	0.35	0.46	454	1,001	100	●	●	●	●	●	●
	316	750	30	0.49	0.64	516	1,137	100	●	●	●	●	●	●
	316	900	36	0.62	0.81	580	1,278	100	●	●	●	●	●	●
	316	1050	42	0.76	1.00	629	1,386	100	●	●	●	●	●	●
	316	1200	48	0.91	1.19	697	1,538	100	⊙	⊙	⊖	⊖	⊙	⊖
	316	1300	51	1.00	1.31	721	1,591	100	⊙	⊖	⊖	⊖	⊖	⊖
General Duty – Wide Tip	316	600	24	0.42	0.55	473	1,042	100	●	●	●	●	●	●
	316	750	30	0.58	0.76	535	1,179	100	●	●	●	●	●	●
	316	1050	42	0.90	1.18	670	1,478	100	●	⊙	⊙	⊙	⊙	⊖
	316	1200	48	1.07	1.40	737	1,625	100	⊖	⊖	○	○	⊖	○
Severe Duty	318	900	36	0.62	0.81	669	1,475	100	●	●	●	●	●	●
	318	1050	42	0.76	1.00	728	1,605	100	●	●	●	●	●	⊙
General Duty – Pin Grabber Performance	316	600	24	0.33	0.43	436	961	100	●	●	●	●	●	●
	316	900	36	0.57	0.75	578	1,273	100	●	●	●	●	●	●
Clean Up	316	1500	60	1.24	1.62	770	1,698	100	○	○	○	○	○	○
	316	1500	60	0.64	0.84	830	1,829	100	●	●	●	●	●	●
	316	1800	72	0.78	1.02	928	2,046	100	⊙	⊙	⊖	⊖	⊙	⊖
	316	2000	79	0.86	1.12	1043	2,299	100	⊖	⊖	○	○	⊖	○
Maximum load with coupler (payload + bucket)								kg	2471	2339	2253	2246	2402	2204
								lb	5,448	5,157	4,967	4,952	5,295	4,858

The above loads are in compliance with hydraulic excavator standard EN474-5:2022/AC:2022, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled. Capacity based on ISO 7451:2007. Bucket weight with General Duty tips.

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.

### Maximum Material Density:

- 2100 kg/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)
- 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)
- ⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)
- ◇ 900 kg/m<sup>3</sup> (1,500 lb/yd<sup>3</sup>)
- ⊖ 1500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)
- X Not Recommended

# 319 Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility (continued)

	Linkage	Width		Capacity		Weight		Fill	4.65 mt (10,200 lb) Counterweight					
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		Reach Boom				VA Boom	
									R2.6 (8'6")	R2.9 (9'6")	R2.9 (9'6") TRS	R3.1 (10'2")	R2.25 (7'5")	R2.6 (8'6")
<b>With S60 Coupler</b>														
Severe Duty	316	900	36	0.62	0.81	714	1,574	100	●	●	●	●	●	●
General Duty	316	1050	42	0.76	1.00	689	1,518	100	●	●	●	●	●	●
	316	1200	48	0.91	1.19	758	1,670	100	⊙	⊙	⊖	⊖	⊙	⊖
Maximum load with coupler (payload + bucket)								kg	2494	2362	2276	2269	2424	2226
								lb	5,498	5,207	5,017	5,002	5,345	4,908
<b>With HCS60 Coupler</b>														
Severe Duty	316	900	36	0.62	0.81	714	1,574	100	●	●	●	●	●	●
General Duty	316	1050	42	0.76	1.00	689	1,518	100	●	●	●	●	●	⊙
	316	1200	48	0.91	1.19	758	1,670	100	⊙	⊙	⊖	⊖	⊙	⊖
Maximum load with coupler (payload + bucket)								kg	2458	2326	2240	2233	2388	2190
								lb	5,419	5,127	4,938	4,922	5,266	4,829
<b>HCS60, TRS17 HCS60</b>														
Grading – General Duty	316	1600	63	0.80	1.05	551	1215	100	⊖	○	○	○	⊖	○
Digging – General Duty	316	1100	43	0.70	0.92	559	1232	100	⊙	⊖	⊖	⊖	⊖	○
	316	1100	43	0.80	1.05	580	1279	100	⊖	○	○	○	⊖	○
Trenching – General Duty	316	540	20	0.35	0.46	283	624	100	●	●	●	●	●	●
Severe Duty	316	36	0.62	0.81	714	1,574	100	100	⊙	⊖	○	○	⊖	○
General Duty	316	42	0.76	1.00	689	1,518	100	100	⊖	○	○	○	○	◇
	316	48	0.91	1.19	758	1,670	100	100	○	◇	◇	◇	◇	◇
Maximum load with coupler (payload + bucket)								kg	1807	1675	1589	1582	1737	1539
								lb	3,984	3,692	3,502	3,487	3,830	3,394
<b>Pin-On, TRS17 S60</b>														
Grading – General Duty	316	1600	63	0.80	1.05	551	1215	100	⊙	⊖	⊖	⊖	⊙	⊖
Digging – General Duty	316	1100	43	0.70	0.92	559	1232	100	●	⊙	⊙	⊙	●	⊙
	316	1100	43	0.80	1.05	580	1279	100	⊙	⊖	⊖	⊖	⊙	⊖
Trenching – General Duty	316	540	20	0.35	0.46	283	624	100	●	●	●	●	●	●
Severe Duty	316	900	36	0.62	0.81	714	1,574	100	●	⊙	⊙	⊙	●	⊖
General Duty	316	1050	42	0.76	1.00	689	1,518	100	⊙	⊖	⊖	⊖	⊖	○
	316	1200	48	0.91	1.19	758	1,670	100	○	○	○	○	○	◇
Maximum load with pin-on (payload + bucket)								kg	2027	1895	1809	1802	1957	1759
								lb	4,469	4,177	3,988	3,972	4,315	3,879

The above loads are in compliance with hydraulic excavator standard EN474-5:2022/AC:2022, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled. Capacity based on ISO 7451:2007. Bucket weight with General Duty tips.

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.

### Maximum Material Density:

- 2100 kg/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)    ○ 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)
- ⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)    ◇ 900 kg/m<sup>3</sup> (1,500 lb/yd<sup>3</sup>)
- ⊖ 1500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)    X Not Recommended

# 319 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    
  1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)    
  1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)

### PIN-ON ATTACHMENTS

Boom Type	Stick Length	Reach				VA	
		2.6 m (8'6")	2.9 m (9'6")	2.9 m TR (9'6")	3.1 m (10'2")	2.25 m (7'5")	2.6 m (8'6")
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓	✓			
	MP318 Demolition Jaw	✓	✓	✓			
	MP318 Pulverizer Jaw	✓					
	MP318 Shear Jaw	✓	✓	✓	✓		
	MP318 Tank Shear Jaw	✓					
	MP318 Universal Jaw	✓	✓	✓			
Demolition and Sorting Grapples	G314	✓	✓	✓	✓	✓	✓
	G318	✓	✓	✓	✓		
Mobile Scrap and Demolition Shears	S3015 Flat Top	✓	✓	✓	✓	✓	✓
Pulverizers	P214 Secondary Pulverizer	✓	✓	✓	✓	✓	✓
	P218 Secondary Pulverizer	✓					
	P318 Primary Pulverizer	✓					
Mulchers	HM3013	✓	✓	✓	✓	✓	✓
	HM4015	✓	✓	✓	✓	✓	✓
	HM4815	✓	✓	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓
Orange Peel Grapples	GSH420-500	●	●	●	●	●	●
	GSH420-600	●	●	●	●	●	●
	GSH420-750	●	○	○	○	●	○
	GSH520-500	●	●	●	●	●	●
	GSH520-600	●	○	○	○	●	○
	GSH520-750	○	○	○	○	○	○
Rotary Cutters	RC15	✓	✓	✓	✓	✓	✓
	RC20	✓	✓	✓	✓	✓	✓

(continued on next page)

# 319 Hydraulic Excavator Specifications

## Attachments Offering Guide *(continued)*

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    
  1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)    
  1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)

### CAT PIN GRABBER COUPLER ATTACHMENTS

Boom Type		Reach				VA	
		2.6 m (8'6")	2.9 m (9'6")	2.9 m TR (9'6")	3.1 m (10'2")	2.25 m (7'5")	2.6 m (8'6")
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓	✓	✓
Demolition and Sorting Grapples	G314	✓	✓	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3015 Flat Top	✓	✓	✓	✓	✓	✓
Pulverizers	P214 Secondary Pulverizer	✓	✓	✓	✓		
Mulchers	HM3013	✓	✓	✓	✓	✓	✓
	HM4015	✓	✓	✓	✓		
	HM4815	✓	✓	✓	✓		
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓
Rotary Cutters	RC15	✓	✓	✓	✓	✓	✓
	RC20	✓	✓	✓	✓	✓	✓

### S60 DEDICATED COUPLER ATTACHMENTS

Boom Type		Reach				VA	
		2.6 m (8'6")	2.9 m (9'6")	2.9 m TR (9'6")	3.1 m (10'2")	2.25 m (7'5")	2.6 m (8'6")
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓		
Multi-Processors	MP318 Concrete Cutter Jaw	✓					
	MP318 Demolition Jaw	✓	✓				
	MP318 Shear Jaw	✓	✓	✓*			
	MP318 Universal Jaw	✓					
Demolition and Sorting Grapples	G314	✓	✓	✓	✓	✓	✓
	G318	✓					
Mobile Scrap and Demolition Shears	S3015 Flat Top	✓	✓	✓	✓	✓	✓
Pulverizers	P214 Secondary Pulverizer	✓	✓	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓
Rotary Cutters	RC15	✓	✓	✓	✓	✓	✓
	RC20	✓	✓	✓	✓	✓	✓

*(continued on next page)*

# 319 Hydraulic Excavator Specifications

## Attachments Offering Guide *(continued)*

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    
  1800 kg/m<sup>3</sup>  
 (3,000 lb/yd<sup>3</sup>)    
  1200 kg/m<sup>3</sup>  
 (2,000 lb/yd<sup>3</sup>)

### HCS60 DEDICATED COUPLER ATTACHMENTS

Boom Type		Reach				VA	
		2.6 m (8'6")	2.9 m (9'6")	2.9 m TR (9'6")	3.1 m (10'2")	2.25 m (7'5")	2.6 m (8'6")
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓	✓	✓
Demolition and Sorting Grapples	G314	✓	✓	✓	✓	✓	✓
	G318	✓					
Mobile Scrap and Demolition Shears	S3015 Flat Top	✓	✓	✓	✓	✓	✓
Pulverizers	P214 Secondary Pulverizer	✓	✓	✓	✓		
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓

### HCS65 DEDICATED COUPLER ATTACHMENTS

Boom Type		Reach				VA	
		2.6 m (8'6")	2.9 m (9'6")	2.9 m TR (9'6")	3.1 m (10'2")	2.25 m (7'5")	2.6 m (8'6")
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓	✓	✓
Demolition and Sorting Grapples	G314	✓	✓	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3015 Flat Top	✓	✓	✓	✓	✓	✓
Pulverizers	P214 Secondary Pulverizer	✓	✓	✓	✓		
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓
Rotary Cutters	RC15	✓	✓	✓	✓	✓	✓
	RC20	✓	✓	✓	✓	✓	✓

*(continued on next page)*

# 319 Hydraulic Excavator Specifications

## Attachments Offering Guide *(continued)*

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    
  1800 kg/m<sup>3</sup>  
 (3,000 lb/yd<sup>3</sup>)    
  1200 kg/m<sup>3</sup>  
 (2,000 lb/yd<sup>3</sup>)

### TRS17 (PIN-ON TOP / S60 BOTTOM) ATTACHMENTS

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

Boom Type		Reach				VA	
		2.6 m (8'6")	2.9 m (9'6")	2.9 m TR (9'6")	3.1 m (10'2")	2.25 m (7'5")	2.6 m (8'6")
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓	✓	✓

**NOTE:** Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

### TRS17 (HCS60 TOP / HCS60 BOTTOM) ATTACHMENTS

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

Boom Type		Reach				VA	
		2.6 m (8'6")	2.9 m (9'6")	2.9 m TR (9'6")	3.1 m (10'2")	2.25 m (7'5")	2.6 m (8'6")
Hydraulic Hammers	H115 GC S	✓	✓	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓		

**NOTE:** Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

### BOOM-MOUNT ATTACHMENTS

Boom Type		Reach	VA
Mobile Scrap and Demolition Shears	S3035 Flat Top	✓	✓

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>BOOM, STICKS AND LINKAGES</b>			<b>CAT TECHNOLOGY</b>		
5.1 m (16'9") Reach Boom		✓	Cat Equipment Management:		
2.64 m (8'8") stub + 2.6 (8'6") fore		✓	VisionLink™	✓ <sup>1</sup>	
Variable Angle Boom			Remote Flash	✓	
2.25 m (7'3") Reach stick for use with		✓	Remote Troubleshoot	✓	
Variable Angle Boom			Work tool recognition and tracking (PL161)	✓	
2.6 m (8'6") Reach stick		✓	Operator Coaching		✓ <sup>3</sup>
2.9 m (9'6") Reach stick		✓	Cat Grade:		
3.1 m (10'2") Reach stick		✓	Cat Grade with 2D	✓	
2.9 m (9'6") Thumb Ready stick		✓	Cat Grade with 2D with Attachment Ready Option (ARO)		✓
Bucket linkage, without lifting eye, Cat® Grade	✓		Laser catcher		✓
<b>CAB</b>			Cat Grade with 3D (single or dual GNSS)		✓
Rollover Protective Structure (ROPS)	✓		Compatible with 3D grade systems from Trimble, Topcon, and Leica	✓	
Operator Protective Guards (OPG)		✓	Cat Grade 3D Ready		✓
High-resolution 254 mm (10") LCD touchscreen monitor	✓		Cat Grade Connectivity		✓ <sup>2</sup>
Auto bi-level air conditioner	✓		Cat Assist:		
Jog dial and shortcut keys for monitor control	✓		Grade Assist	✓	
Keyless push-to-start engine control	✓		Boom Assist	✓	
Height-adjustable console	✓		Bucket Assist	✓	
Tilt-up left-side console	✓		Swing Assist	✓	
Heated air-suspension seat	✓		Lift Assist	✓	
51 mm (2") seat belt	✓		Cat Payload:		
Monitor integrated Bluetooth® radio with USB/Auxiliary ports	✓		On-the-go weighing	✓	
12V DC outlets	✓		Semiautomatic calibration	✓	
Document storage	✓		Payload/cycle information	✓	
Overhead storage and rear storage with nets	✓		VisionLink back office reporting		✓ <sup>2</sup>
Beverage holder	✓		Cat Advanced Payload:		
Cup holder	✓		Daily totals		✓
Openable two-piece front window	✓		Custom lists		✓
Rear window emergency exit	✓		Smart weight target		✓
Radial wiper with washer	✓		E-ticket integration		✓ <sup>2</sup>
Openable polycarbonate skylight hatch	✓		Other:		
LED dome light	✓		Cat Tiltrotator (TRS) integration		✓
Floor welcome light	✓				
Roof sunscreen	✓				
Roller front sunscreen	✓				
Roller rear sunscreen		✓			
Washable floor mat	✓				
Beacon ready	✓				
Auxiliary relay		✓			
<b>ELECTRICAL SYSTEM</b>					
Maintenance-free battery	✓				
Centralized electrical disconnect switch	✓				
Programmable time-delay LED working lights	✓				
LED chassis and left-side boom light – 1,800 lumens	✓				
LED right-side boom light and cab lights – 1,800 lumens		✓			
360° lighting		✓			

(continued on next page)

# 319 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>ENGINE</b>			<b>SERVICE AND MAINTENANCE</b>		
Cat C3.6 single turbo diesel engine	✓		Grouped engine oil and fuel filters	✓	
Three selectable modes: Power, Smart, Eco	✓		Ground-level engine oil dipstick	✓	
One-touch low idle with automatic engine speed control	✓		Scheduled Oil Sampling (S·O·S <sup>SM</sup> ) ports	✓	
Automatic engine idle shutdown	✓		Integrated vehicle health management system	✓	
Cold start capability down to -18°C (-0°F)		✓	<b>UNDERCARRIAGE AND STRUCTURES</b>		
Cold start capability down to -25°C (-13°F)		✓	600 mm (24") triple grouser track shoes		✓
Single fuel filtration system with water separator and indicator	✓		600 mm (24") triple grouser track shoes with rubber pad		✓
Sealed double element air filter with integrated pre-cleaner	✓		700 mm (28") triple grouser track shoes with additional steps		✓
Electric fuel priming pump	✓		Grease-lubricated track link	✓	
Electric cooling fans	✓		Center track guiding guard	✓	
<b>HYDRAULIC SYSTEM</b>			Bottom without swivel guard	✓	
Electronic main control valve	✓		Travel motor guards	✓	
Single type electronic main pump	✓		4.65 mt (10,200 lb) counterweight	✓	
Boom and stick regeneration circuits	✓		Tie-down points	✓	
Boom and stick drift reduction valve	✓		2800 mm (9'2") blade		✓
Boom and stick lowering check valves		✓	2900 mm (9'6") blade		✓
Automatic hydraulic oil warm up	✓		<sup>1</sup> Provides core telematics data to manage health, maintenance insights, and condition monitoring. Other plans available for more comprehensive data reporting. Consult your Cat dealer for details. <sup>2</sup> VisionLink subscription required. Consult your Cat dealer for details. <sup>3</sup> VisionLink subscription required for back office reporting. Consult your Cat dealer for details.		
Automatic two-speed travel	✓				
Element type main hydraulic filter	✓				
Auto heavy lift	✓				
Hydraulic efficiency monitoring		✓			
<b>SAFETY AND SECURITY</b>					
Cat Detect – People Detection		✓			
Rear and right-side-view cameras	✓				
360° visibility		✓			
Ground-level accessible secondary engine shutoff switch in cab	✓				
Lockable disconnect switch	✓				
Service platform with anti-skid plate and countersunk bolts	✓				
Signaling/warning horn	✓				
Swing alarm		✓			
Hydraulic lock out lever	✓				
Inspection lighting		✓			
2D E-Fence:	✓				
– E-ceiling					
– E-floor					
– E-swing					
– E-wall					
– E-cab avoidance					
Auto hammer stop	✓				

## Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

### CAB

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

### 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
- Full protecting vandalism guard

### SAFETY AND SECURITY

- 76 mm (3") retractable seat belt

# 319 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

## Engine

- The Cat® C3.6 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible\* with 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.

\* *While Cat engines are compatible with these alternative fuels, some regions may not allow their use.*

\*\* *Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

\*\*\* *Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

## Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas.

- If equipped with R134a (Global Warming Potential = 1430), the system contains 0.8 kg (1.8 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 1.144 metric tonnes (1.261 tons).
- If equipped with R1234yf (Global Warming Potential = 0.501), the system contains 0.7 kg (1.5 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 0.001 metric tonnes (0.001 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 (internal) – 71 dB(A)

- External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Cat machine that is properly equipped and maintained. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

## 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 supports reduced fuel consumption for light applications
  - Utilizing Cat technologies can help increase operating efficiencies
  - Extended service intervals help decrease maintenance costs
  - The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval
  - Remote Flash and Remote Troubleshoot

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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