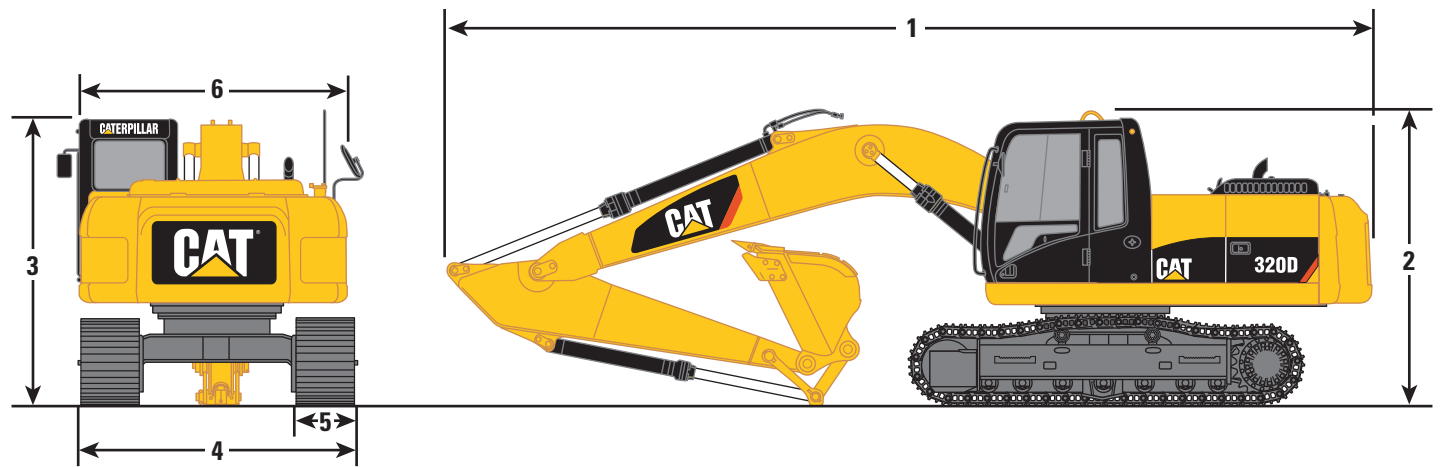


320D/320D L Hydraulic Excavators with C6.6 Engine

Dimensions

All dimensions are approximate.

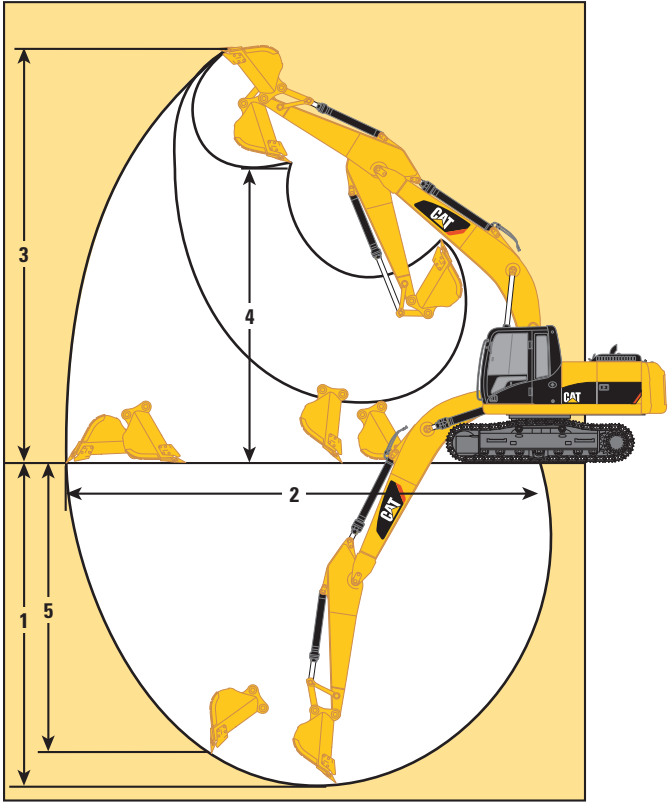


Boom Options	320D Reach Boom (HD)	320D L Reach Boom (HD)
Stick	R2.5 (HD)	R2.9 (HD)
Bucket	1.0 m³	1.0 m³
Shoe	600 mm	700 mm
Undercarriage	STD	LC
Approximate Weight	20 970 kg	21 920 kg
1 Overall Length	9460 mm	9460 mm
2 Overall Height	3050 mm	3050 mm
3 Height of Cab	2950 mm	2950 mm
4 Overall Width	2800 mm	2900 mm
5 Track Shoe Width	600 mm	700 mm
6 Width of Upper Structure	2740 mm	2740 mm

320D/320D L Hydraulic Excavators with C6.6 Engine

Working Ranges

All dimensions are approximate.

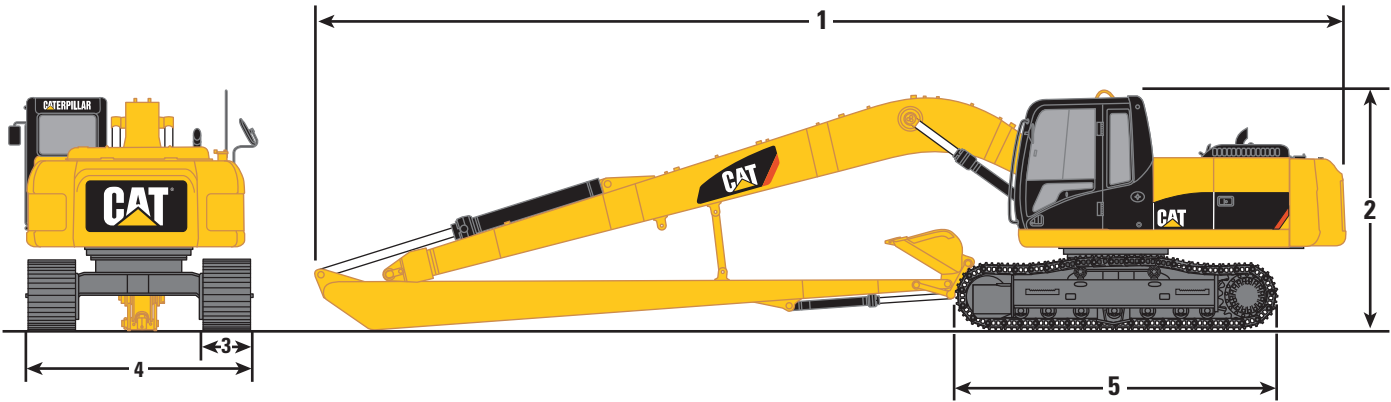


Boom Options	Reach Boom	Reach Boom
	5.7 m (HD)	5.7 m (HD)
Stick	2.9 m (HD)	2.5 m (HD)
Bucket	1.0 m ³	1.0 m ³
1 Maximum Digging Depth	6720 mm	6300 mm
2 Maximum Reach at Ground Level	10 020 mm	9630 mm
3 Maximum Cutting Height	9490 mm	9290 mm
4 Maximum Loading Height	6490 mm	6290 mm
5 Maximum Digging (Vertical Wall)	6060 mm	5650 mm

320D/320D L Hydraulic Excavators with C6.6 Engine

Dimensions

All dimensions are approximate.

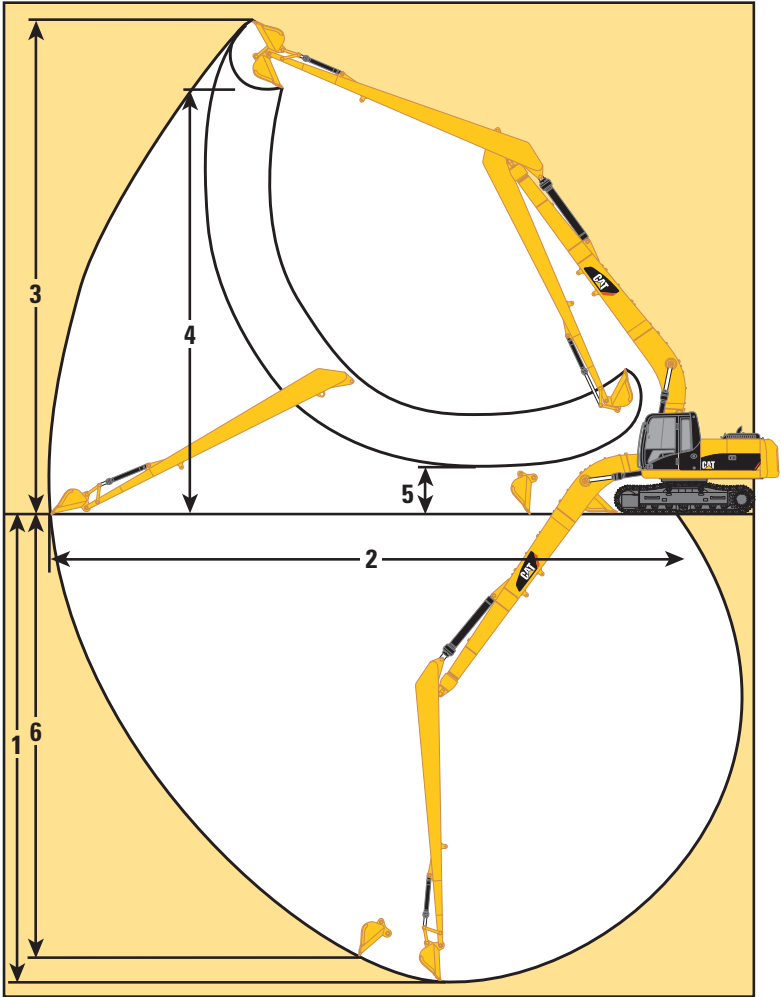


Boom Options	
	320D L Super Long Reach Boom 8.85 m
Stick	6.28 m
Bucket	0.60 m³
Shoe	700 mm TG
Approximate Weight	
1 Overall Length	12 680 mm
2 Overall Height	3190 mm
3 Track Shoe Width	700 mm
4 Overall Width	3080 mm
5 Length of Track	4455 mm

320D/320D L Hydraulic Excavators with C6.6 Engine

Working Ranges

All dimensions are approximate.



Super Long Reach Working Ranges

Boom Options		Super Long Reach Boom	
		8.85 m	
Stick Options		6.28 m	
Bucket Options		Excavation	Ditch Cleaning
		0.45 m³	0.60 m³
1 Maximum Digging Depth		11 880 mm	11 750 mm
2 Maximum Reach at Ground Level		15 720 mm	15 590 mm
3 Maximum Cutting Height		13 290 mm	13 230 mm
4 Maximum Loading Height		11 010 mm	11 140 mm
5 Minimum Loading Height		1970 mm	2090 mm
6 Maximum Vertical Wall Digging Depth		10 700 mm	11 310 mm
Bucket Digging Force	(ISO)	60 kN	60 kN
Stick Digging Force	(ISO)	46 kN	46 kN

320D/320D L Hydraulic Excavators with C6.6 Engine

Major Component Weights

Base machine with counterweight (without front linkage)	
Standard Undercarriage with 600 mm triple grouser shoes	16 660 kg
Long Undercarriage with 700 mm triple grouser shoes	17 550 kg
Upper Structure without counterweight	6230 kg
Counterweight	3710 kg
Boom	
Two Boom Cylinders (each)	175 kg
Boom 5.7 m Heavy Duty Reach (includes lines, pins, and stick cylinder)	2020 kg
Stick Cylinder	280 kg
Stick	
Stick R2.9B1 Heavy Duty (includes lines, pins, bucket cylinder and linkage)	1120 kg
Stick R2.5B1 Heavy Duty (includes lines, pins, bucket cylinder and linkage)	1090 kg
Bucket Cylinder	160 kg
Bucket Linkage	140 kg

320D/320D L Hydraulic Excavators with C6.6 Engine

Bucket Specifications and Compatibility

						320D		320D L	
	Linkage	Width	Capacity	Weight	Fill	Reach Boom		Reach Boom	
		mm	m³	kg	%	R2.5B	R2.9B	R2.5B	R2.9B
Without Quick Coupler									
Heavy Duty (HD)	B	1050	1.00	879	100%	⦿	⊖	●	●
	B	1200	1.19	917	100%	⊖	○	⦿	⦿
	B	1350	1.38	1011	100%	○	◇	⊖	⊖
	CB	1500	1.76	1229	100%				
Maximum load pin-on (payload + bucket)					kg	2785	2565	3230	2995
With Center Lock Coupler									
Heavy Duty (HD)	B	1050	1.00	879	100%	⊖	○	⦿	⊖
	B	1200	1.19	917	100%	○	◇	⊖	○
	B	1350	1.38	1011	100%	◇	X	○	◇
	CB	1500	1.76	1229	100%				
Maximum load with coupler (payload + bucket)					kg	2375	2155	2820	2585

The above loads are in compliance with hydraulic excavator standard EN474, 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.
Bucket weight with General Duty tips.

Maximum Material Density:

●

2100 kg/m³

⦿

1800 kg/m³

⊖

1500 kg/m³

○

1200 kg/m³

◇

900 kg/m³

X

Not Recommended

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.

320D/320D L Hydraulic Excavators with C6.6 Engine

320D Work Tool Offering Guide*

Boom Type	Reach Boom – 5.7 m	
Stick Size	R2.9B1	R2.5B1
Hydraulic Hammer	H115Es H120Es H130Es**	H115Es H120Es H130Es
Multi-Processor	MP15 with CC Jaw** MP15 with CR Jaw** MP15 with PS Jaw** MP15 with S Jaw**	MP15 with CC Jaw** MP15 with CR Jaw** MP15 with PP Jaw** MP15 with PS Jaw** MP15 with S Jaw**
Pulverizer	P215**	P215
Mobile Scrap and Demolition Shear	S320B** S325B Boom Mount	S320B** S325B Boom Mount
Compactor (Vibratory Plate)	CVP110	CVP110
Contractors' Grapple	G120B-G125B	G120B-G125B
Orange Peel Grapples		
Rippers	These work tools are available for the 320D. Consult your Cat dealer for proper match.	
Center-Lock Pin Grabber Quick Coupler		
CW Dedicated Quick Coupler		

*Matches are dependent on excavator configurations. Consult your Cat dealer for proper work tool match.

**Pin-on only.

320D L Work Tool Offering Guide*

Boom Type	Reach Boom – 5.7 m	
Stick Size	R2.9B1	R2.5B1
Hydraulic Hammer	H115Es H120Es H130Es	H115Es H120Es H130Es
Multi-Processor	MP15 with CC Jaw** MP15 with CR Jaw** MP15 with PP Jaw** MP15 with PS Jaw** MP15 with S Jaw	MP15 with CC Jaw MP15 with CR Jaw MP15 with PP Jaw** MP15 with PS Jaw MP15 with S Jaw
Pulverizer	P215	P215
Mobile Scrap and Demolition Shear	S320B** S325B Boom Mount	S320B S325B Boom Mount
Compactor (Vibratory Plate)	CVP110	CVP110
Contractors' Grapple	G120B-G125B	G120B-G125B
Orange Peel Grapples		
Rippers	These work tools are available for the 320D L. Consult your Cat dealer for proper match.	
Center-Lock Pin Grabber Quick Coupler		
CW Dedicated Quick Coupler		

*Matches are dependent on excavator configurations. Consult your Cat dealer for proper work tool match.

**Pin-on only.

320D/320D L Hydraulic Excavators with C6.6 Engine

Reach Boom Lift Capacities

	Load Point Height		Load Radius Over Front		Load Radius Over Side		Load at Maximum Reach
Boom – Reach (HD)		Bucket – None		Undercarriage – Standard			
Stick – R2.5B1 (HD)		Shoes – 600 mm triple grouser		Heavy Lift – On			

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														m
7.5 m	kg											*4850	*4850	5.59
6.0 m	kg							*5400	4550			*4450	3600	6.83
4.5 m	kg					*6800	*6800	*5850	4400	4550	3050	*4350	3000	7.57
3.0 m	kg					*8550	6250	6250	4150	4450	2950	4050	2650	7.96
1.5 m	kg					9250	5750	6000	3900	4300	2850	3900	2550	8.05
Ground Line	kg					9000	5500	5800	3750	4250	2750	4000	2600	7.86
–1.5 m	kg			*11 650	10 450	8950	5500	5750	3700			4350	2850	7.35
–3.0 m	kg			*13 250	10 650	9050	5600	5850	3750			5300	3450	6.46
–4.5 m	kg					*7150	5850					*6200	5150	4.98

Boom – Reach (HD)		Bucket – None		Undercarriage – Long			
Stick – R2.9B1 (HD)		Shoes – 700 mm triple grouser		Heavy Lift – On			

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														m
7.5 m	kg							*4600	*4600			*4000	*4000	6.15
6.0 m	kg							*5000	*5000			*3700	*3700	7.28
4.5 m	kg							*5500	5000	*5150	3500	*3650	3100	7.98
3.0 m	kg					*8000	7250	*6300	4750	5350	3400	*3700	2850	8.35
1.5 m	kg					*9700	6700	*7100	4500	5200	3250	*3950	2700	8.44
Ground Line	kg			*6350	*6350	*10 600	6400	7100	4300	5100	3150	*4350	2750	8.26
–1.5 m	kg	*6800	*6800	*11 050	*11 050	*10 700	6300	7000	4200	5100	3100	4850	3000	7.78
–3.0 m	kg	*11 700	*11 700	*14 150	12 350	*10 000	6350	7050	4250			5700	3500	6.94
–4.5 m	kg			*11 250	*11 250	*8100	6600					*6100	4900	5.60

*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.

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

320D/320D L Hydraulic Excavators with C6.6 Engine

320D L SLR Reach Boom Lift Capacities

 Load Point Height

 Load Radius Over Front

 Load Radius Over Side

 Load at Maximum Reach

Boom – Reach

Stick – 6.28 m

Bucket – None

Shoes – 700 mm triple grouser

Undercarriage – Super Long Reach

Heavy Lift – Off

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m					
																						m	
12.0 m	kg																			*1300	*1300	10.35	
10.5 m	kg																			*1200	*1200	11.66	
9.0 m	kg															*2000	1950			*1150	*1150	12.66	
7.5 m	kg													*2150	*2150	*2150	1950			*1100	*1100	13.41	
6.0 m	kg													*2300	*2300	*2250	1900	*1850	1500	*1100	*1100	13.96	
4.5 m	kg												*2700	*2700	*2500	2300	*2350	1800	*2250	1450	*1150	*1150	14.34
3.0 m	kg			*4700	*4700	*5800	*5800	*4300	*4300	*3500	*3500	*3000	2800	*2700	2200	*2500	1750	2300	1400	*1150	*1150	14.54	
1.5 m	kg					*6750	6500	*5150	4500	*4000	3350	*3350	2600	*2950	2050	*2650	1650	2250	1350	*1200	1150	14.60	
Ground Line	kg			*2050	*2050	*4700	*4700	*5800	4050	*4450	3050	*3650	2400	*3150	1900	2600	1550	2200	1250	*1300	1100	14.49	
−1.5 m	kg	*2100	*2100	*2750	*2750	*4650	*4650	*6250	3800	*4800	2850	3800	2250	3050	1800	2550	1500	2150	1250	*1400	1150	14.22	
−3.0 m	kg	*2850	*2850	*3550	*3550	*5200	*5200	*6450	3650	4750	2750	3700	2150	3000	1750	2500	1450	2100	1200	*1500	1200	13.79	
−4.5 m	kg	*3700	*3700	*4450	*4450	*6100	5500	*6450	3650	4700	2700	3650	2100	2950	1700	2500	1400			*1700	1250	13.17	
−6.0 m	kg	*4550	*4550	*5450	*5450	*7250	5600	*6300	3650	4700	2700	3650	2100	2950	1700	2500	1450			*2000	1400	12.34	
−7.5 m	kg	*5500	*5500	*6600	*6600	*7600	5800	*5850	3800	*4700	2750	3700	2150	3050	1800					*2550	1650	11.24	
−9.0 m	kg			*8000	*8000	*6550	6100	*5150	3950	*4150	2900	*3300	2300							*2900	2100	9.79	
−10.5 m	kg							*3900	*3900	*3000	*3000									*2800	*2800	7.80	

*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.

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