320
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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320 Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C4.4	
Net Power		
ISO 9249	128.5 kW	172 hp
ISO 9249 (DIN)	175 hp (metric)	
Engine Power		
ISO 14396	129.4 kW	174 hp
ISO 14396 (DIN)	176 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in³
Biodiesel capability	Up to B20[(1)]	

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 ft).
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Engine speed at 2,200 rpm.

[(1)]Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to:

- ✓ 20% biodiesel FAME (fatty acid methyl ester)*
- ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

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

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

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

Swing Mechanism

Swing Speed	11.25 rpm	
Maximum Swing Torque	82 kN·m	60,300 lbf-ft

Weights

Operating Weight	22 600 kg	49,800 lb

- Reach boom, R2.9 (9'6") stick, Heavy Duty (HD) 1.19 m³ (1.56 yd³) bucket 790 mm (31 in) triple grouser shoes, 4.2 mt (10.400 lb) counterweight.

Track

Track Shoe Width	790 mm	31 in
Number of Shoes (each side)	49	
Number of Track Rollers (each side)	8	
Number of Carrier Rollers (each side)	2	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull – Long Undercarriage	205 kN	45,996 lbf

Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (214.5 × 2 pumps)	113 gal/min (56.5 × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Heavy Lift Mode/Auto Dig Boost	38 000 kPa	5,510 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	27 500 kPa	3,998 psi
Boom Cylinder – Bore	120 mm	4.7 in
Boom Cylinder – Stroke	1260 mm	49.6 in
Stick Cylinder – Bore	140 mm	5.5 in
Stick Cylinder – Stroke	1504 mm	59.2 in
Bucket Cylinder – Bore	120 mm	4.7 in
Bucket Cylinder – Stroke	1104 mm	43.5 in

Service Refill Capacities

Fuel Tank Capacity	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	15 L	4.0 gal
Swing Drive (each)	6 L	1.6 gal
Final Drive (each)	4 L	1.1 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal
Diesel Exhaust Fluid (DEF) Tank	39 L	10.3 gal

Standards

Brakes	ISO 10265:2008
Cab/Rollover Protective Structure (ROPS)	ISO 12117-2:2008
Cab/Falling Object Guard System (FOGS) (optional)	ISO 10262:1998 Level II

Sound Performance

ISO 6395:2008 (external)	99 dB(A)
ISO 6396:2008 ISO 6396 (inside cab)	70 dB(A)

- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

Operating Weight and Ground Pressure

Base Machine Configurations	790 mm (31 in) Triple Grouser Shoes			
	Weight		Ground Pressure	
Base Frame with Track Rollers and Carrier Rollers				
4.2 mt (9,300 lb) Counterweight + Long Undercarriage Base Machine				
Reach Boom + R2.9 (9'6") Stick + 1.19 m³ (1.56 yd³) HD Bucket	22 600 kg	49,800 lb	35.7 kPa	5.2 psi
4.7 mt (10,400 lb) Counterweight + Long Undercarriage Base Machine				
HD Reach Boom + HD R2.9 (9'6") Thumb Ready Stick + 1.19 m³ (1.56 yd³) HD Bucket	24 300 kg	53,600 lb	38.4 kPa	5.6 psi
SLR Boom + SLR Stick + 0.53 m³ (0.69 yd³) GD Bucket	23 900 kg	52,700 lb	37.8 kPa	5.5 psi

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

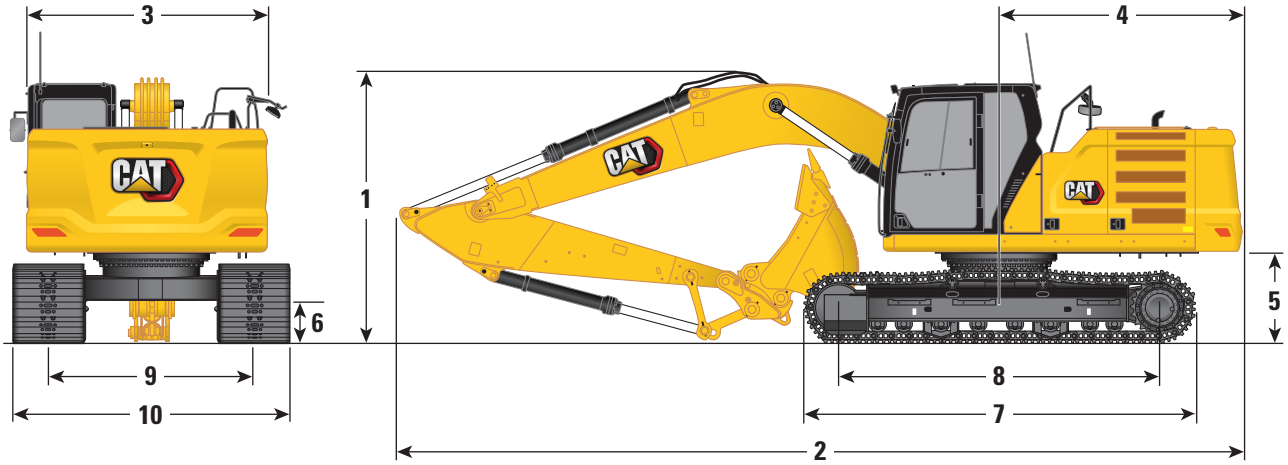
Major Component Weights

	kg	lb
Base Machine (with 4.2 mt [9,300 lb] counterweight, semi-HD swing frame, standard base frame with HD track rollers and standard carrier rollers for long undercarriage – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator)	14 800	32,600
Base Machine (with 4.7 mt [10,400 lb] counterweight, HD swing frame, HD base frame with SD track rollers and SD carrier rollers for long undercarriage – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator)	16 000	35,300
Track Shoes:		
790 mm (31 in) Width, 10 mm (0.39 in) Thick Triple Grouser Track Shoes with Step Extension	3370	7,400
Two Boom Cylinders	340	700
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	700
Counterweights:		
4.2 mt (9,300 lb) Counterweight	4200	9,300
4.7 mt (10,400 lb) Counterweight	4700	10,400
Swing Frame:		
Semi-HD Swing Frame	1910	4,210
Undercarriage:		
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers	4390	9,700
Booms (including lines, pins, stick cylinder):		
Reach Boom 5.7 m (18'8")	1710	3,800
HD Reach Boom 5.7 m (18'8")	2010	4,400
Super Long Reach (SLR) Boom 8.85 m (29'0")	2170	4,800
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R2.9B1 (9'6")	1080	2,400
HD Thumb Ready Reach Stick R2.9B1 (9'6")	1300	2,900
Super Long Reach Stick 6.28A (20'7")	1340	3,000
Buckets (without linkage):		
1.19 m³ (1.56 yd³) HD	960	2,100
0.57 m³ (0.75 yd³) Ditch Cleaning (DC)	390	900
Quick Couplers:		
Pin Grabber	390	900
Universal	230	500

320 Hydraulic Excavator Specifications

Dimensions

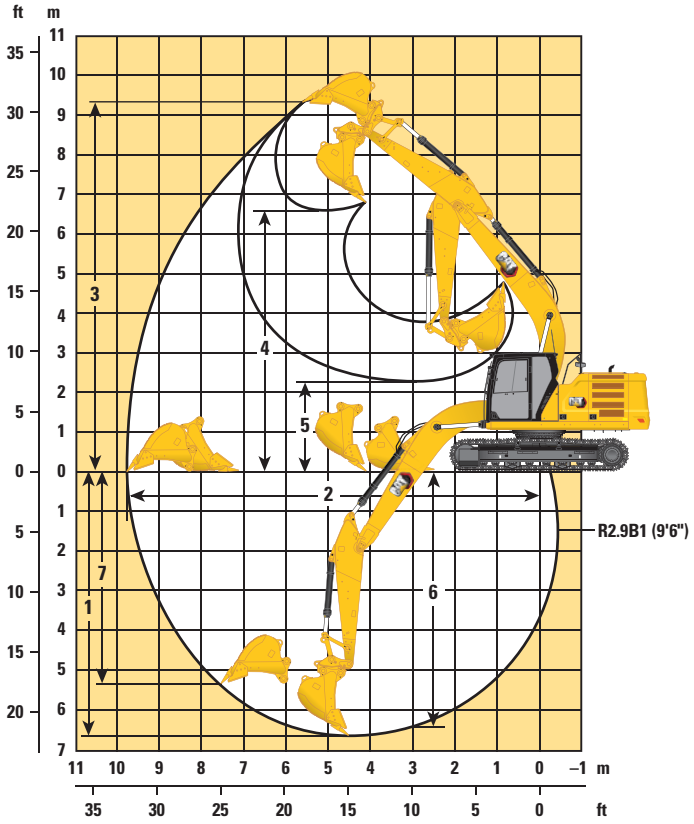
All dimensions are approximate and may vary depending on bucket selection.



Boom Options	Reach/HD Reach Boom 5.7 m (18'8")		SLR Boom 8.85 m (29'0")	
Stick Options	**Reach/HD TR Reach Stick R2.9B1 (9'6")**		**SLR Stick 6.28A (20'7")**	
1 Machine Height:				
Top of Cab Height	2960 mm	9'9"	2960 mm	9'9"
Top of Antenna Height (if installed)	3000 mm	9'10"	3000 mm	9'10"
Top of FOGS Height	3100 mm	10'2"	3100 mm	10'2"
Handrail Height	2950 mm	9'8"	2950 mm	9'8"
With Boom/Stick/Bucket Installed	3160 mm	10'4"	3190 mm	10'6"
With Boom/Stick Installed	2910 mm	9'7"	3070 mm	10'1"
With Boom Installed	2480 mm	8'2"	2650 mm	8'8"
2 Machine Length:				
With Boom/Stick/Bucket Installed	9530 mm	31'3"	12 750 mm	41'10"
With Boom/Stick Installed	9500 mm	31'2"	12 760 mm	41'10"
With Boom Installed	8450 mm	27'9"	8920 mm	29'3"
3 Upperframe Width	2780 mm	9'1"	2780 mm	9'1"
4 Tail Swing Radius	2830 mm	9'3"	2830 mm	9'3"
5 Counterweight Clearance	1050 mm	3'5"	1050 mm	3'5"
6 Ground Clearance	470 mm	1'7"	470 mm	1'7"
7 Track Length	4450 mm	14'7"	4450 mm	14'7"
8 Length to Center of Rollers	3650 mm	12'0"	3650 mm	12'0"
9 Track Gauge	2380 mm	7'9"	2380 mm	7'9"
10 Undercarriage Width:				
790 mm (31 in) Shoes	3170 mm	10'5"	3170 mm	10'5"
Bucket Type	HD		DC	
Bucket Capacity	1.14 m^3	1.50 yd^3	0.57 m^3	0.75 yd^3
Bucket Tip Radius	1470 mm	4'10"	1070 mm	3'6"

Working Ranges

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

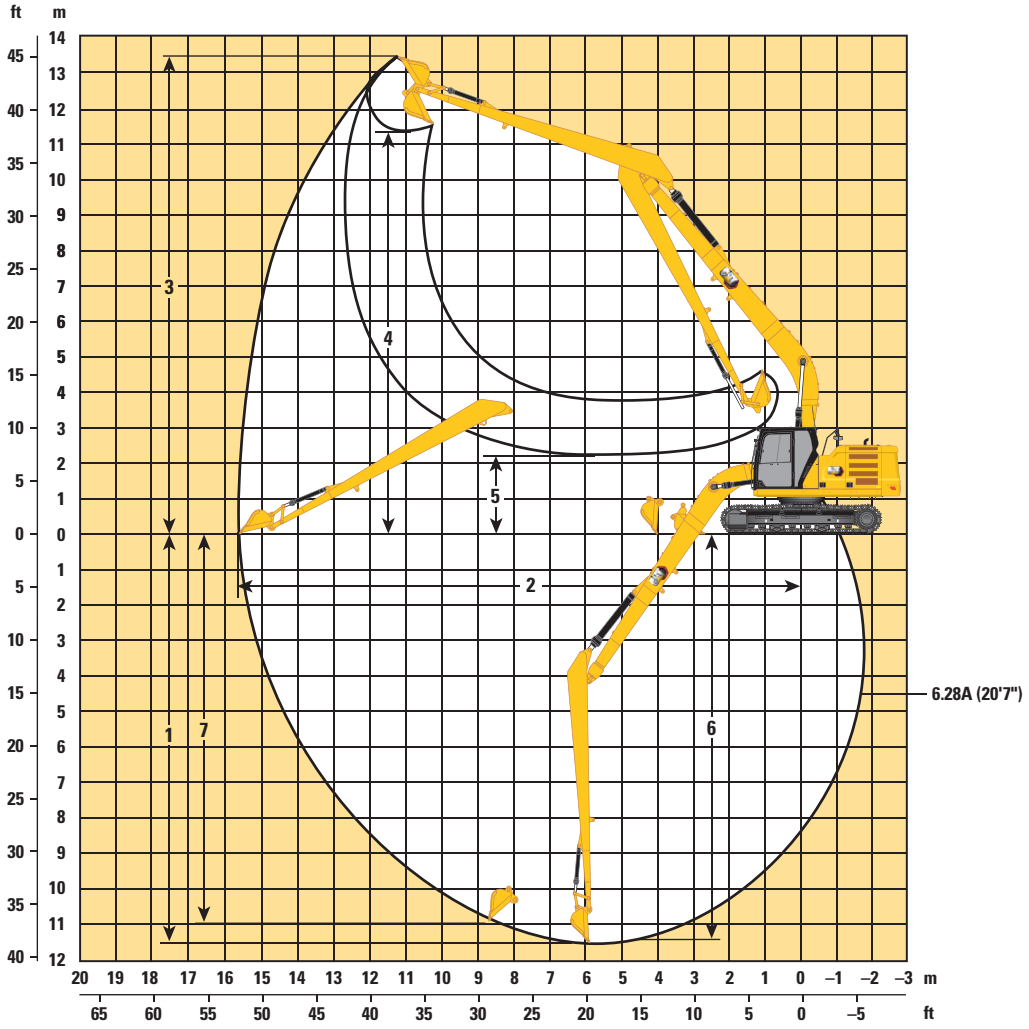


Boom Option	Reach/HD Reach Boom 5.7 m (18'8")	
Stick Option	**Reach/HD TR Reach Stick R2.9B1 (9'6")**	
1 Maximum Digging Depth	6620 mm	21'9"
2 Maximum Reach at Ground Line	9760 mm	32'0"
3 Maximum Cutting Height	9330 mm	30'7"
4 Maximum Loading Height	6590 mm	21'7"
5 Minimum Loading Height	2270 mm	7'5"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6440 mm	21'2"
7 Maximum Vertical Wall Digging Depth	5360 mm	17'7"
Bucket Digging Force (ISO)	163 kN	36,711 lbf
Stick Digging Force (ISO)	109 kN	24,486 lbf
Bucket Digging Force (ISO) – Auto Dig Boost	177 kN	39,858 lbf
Stick Digging Force (ISO) – Auto Dig Boost	118 kN	26,585 lbf
Bucket Type	HD	
Bucket Capacity	1.14 m^3	1.50 yd^3
Bucket Tip Radius	1470 mm	4'10"

320 Hydraulic Excavator Specifications

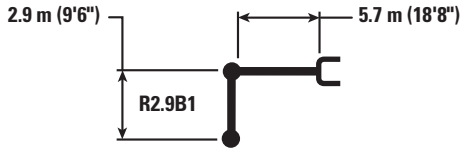
Working Ranges

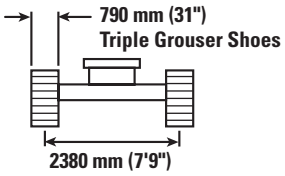
All dimensions are approximate and may vary depending on bucket selection.

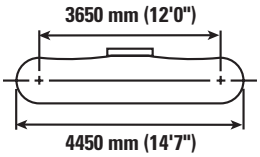


Boom Option	SLR Boom 8.85 m (29'0")	
Stick Option	**SLR Stick 6.28A (20'7")**	
1 Maximum Digging Depth	11 540 mm	37'10"
2 Maximum Reach at Ground Line	15 570 mm	51'1"
3 Maximum Cutting Height	13 540 mm	44'5"
4 Maximum Loading Height	11 440 mm	37'6"
5 Minimum Loading Height	2240 mm	7'4"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	11 440 mm	37'6"
7 Maximum Vertical Wall Digging Depth	11 020 mm	36'2"
Bucket Digging Force (ISO)	62 kN	13,841 lbf
Stick Digging Force (ISO)	49 kN	10,966 lbf
Bucket Type	DC	
Bucket Capacity	0.57 m^3	0.75 yd^3
Bucket Tip Radius	1070 mm	3'6"

Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket, Heavy Lift: On







		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				
														m **ft**
7.5 m **25.0 ft**	kg **lb**							*4950	*4950			*4300 ***9,500**	*4300 ***9,500**	6.15 **20.00**
6.0 m **20.0 ft**	kg **lb**							*5450 ***12,000**	*5450 **11,900**			*3950 ***8,750**	*3950 ***8,750**	7.29 **24.17**
4.5 m **15.0 ft**	kg **lb**							*6000 ***13,050**	5400 **11,600**	*5650 ***12,400**	3850 **8,200**	*3900 ***8,550**	3450 **7,650**	7.99 **26.67**
3.0 m **10.0 ft**	kg **lb**					*8750 ***18,900**	7850 **16,900**	*6900 ***14,950**	5150 **11,150**	5750 **12,350**	3750 **8,000**	*4000 ***8,750**	3150 **6,950**	8.36 **27.50**
1.5 m **5.0 ft**	kg **lb**					*10 650 ***22,950**	7350 **15,850**	7850 **16,850**	4950 **10,650**	5600 **12,100**	3600 **7,800**	*4250 ***9,300**	3050 **6,700**	8.45 **28.33**
0 m **0 ft**	kg **lb**			*6600 ***15,150**	*6600 ***15,150**	*11 650 ***25,200**	7100 **15,250**	7650 **16,450**	4800 **10,300**	5550 **11,900**	3550 **7,600**	*4700 ***10,300**	3100 **6,850**	8.26 **27.50**
–1.5 m **–5.0 ft**	kg **lb**	*7050 ***15,750**	*7050 ***15,750**	*11 400 ***25,850**	*11 400 ***25,850**	*11 750 ***25,500**	7000 **15,100**	7550 **16,250**	4700 **10,150**	5500 **11,850**	3500 **7,550**	5250 **11,550**	3350 **7,400**	7.78 **25.83**
–3.0 m **–10.0 ft**	kg **lb**	*12 100 ***27,100**	*12 100 ***27,100**	*15 600 ***33,800**	13 650 **29,200**	*11 000 ***23,800**	7050 **15,200**	7600 **16,350**	4750 **10,200**			6200 **13,700**	3950 **8,700**	6.95 **23.33**
–4.5 m **–15.0 ft**	kg **lb**			*12 500 ***26,700**	*12 500 ***26,700**	*9000 ***19,100**	7250 **15,650**					*6800 ***14,950**	5400 **12,150**	5.60 **18.33**

* **ISO 10567:2007**

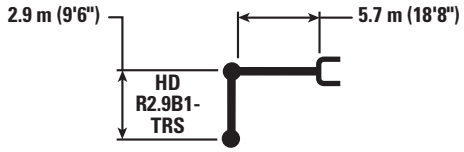
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

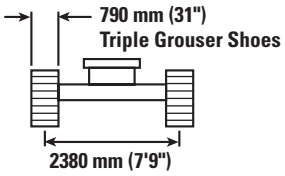
Lift capacity stays with ±5% for all available track shoes.

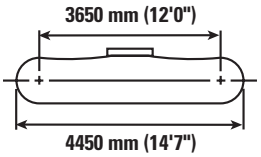
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320 Hydraulic Excavator Specifications

HD Reach Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket, Heavy Lift: On







		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				
														m ft
7.5 m **25.0 ft**	kg **lb**							*4900	*4900			*4250 ***9,400**	*4250 ***9,400**	6.15 **20.00**
6.0 m **20.0 ft**	kg **lb**							*5350 ***11,750**	*5350 ***11,750**			*3900 ***8,650**	*3900 ***8,650**	7.29 **24.17**
4.5 m **15.0 ft**	kg **lb**							*5900 ***12,800**	5700 **12,200**	*5500 ***12,100**	4000 **8,600**	*3850 ***8,450**	3600 **8,000**	7.99 **26.67**
3.0 m **10.0 ft**	kg **lb**					*8600 ***18,500**	8300 **17,850**	*6750 ***14,650**	5450 **11,700**	*5900 ***12,850**	3900 **8,400**	*3950 ***8,600**	3300 **7,250**	8.36 **27.50**
1.5 m **5.0 ft**	kg **lb**					*10 400 ***22,450**	7750 **16,650**	*7650 ***16,600**	5200 **11,150**	5900 **12,650**	3800 **8,150**	*4150 ***9,150**	3200 **7,000**	8.45 **28.33**
0 m **0 ft**	kg **lb**			*6750 ***15,450**	*6750 ***15,450**	*11 400 ***24,700**	7450 **16,000**	8000 **17,200**	5000 **10,750**	5750 **12,400**	3700 **7,950**	*4600 ***10,150**	3250 **7,100**	8.26 **27.50**
–1.5 m **–5.0 ft**	kg **lb**	*7200 ***16,050**	*7200 ***16,050**	*11 650 ***26,450**	*11 650 ***26,450**	*11 500 ***24,950**	7350 **15,800**	7900 **17,000**	4900 **10,600**	5750 **12,350**	3650 **7,900**	*5400 ***11,950**	3500 **7,700**	7.78 **25.83**
–3.0 m **–10.0 ft**	kg **lb**	*12 350 ***27,750**	*12 350 ***27,750**	*15 300 ***33,100**	14 300 **30,650**	*10 800 ***23,300**	7400 **15,950**	7950 **17,100**	4950 **10,650**			6450 **14,300**	4100 **9,100**	6.95 **23.33**
–4.5 m **–15.0 ft**	kg **lb**			*12 150 ***26,050**	*12 150 ***26,050**	*8750 ***18,600**	7650 **16,450**					*6600 ***14,500**	5650 **12,700**	5.60 **18.33**

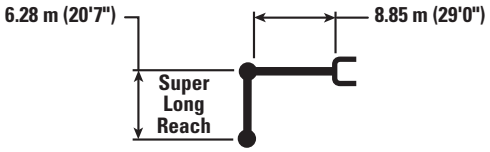
* **ISO 10567:2007**

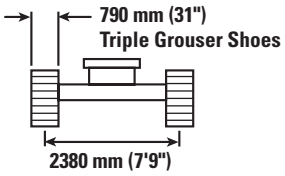
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

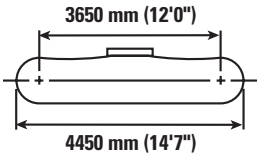
Lift capacity stays with ±5% for all available track shoes.

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

Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket







		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				
														m ft
12.0 m **40.0 ft**	kg **lb**											*1450 ***3,200**	*1450 ***3,200**	10.35 **33.25**
10.5 m **35.0 ft**	kg **lb**											*1350 ***2,950**	*1350 ***2,950**	11.66 **37.75**
9.0 m **30.0 ft**	kg **lb**											*1300 ***2,850**	*1300 ***2,850**	12.66 **41.17**
7.5 m **25.0 ft**	kg **lb**											*1250 ***2,800**	*1250 ***2,800**	13.41 **43.75**
6.0 m **20.0 ft**	kg **lb**											*1250 ***2,750**	*1250 ***2,750**	13.97 **45.67**
4.5 m **15.0 ft**	kg **lb**											*1300 ***2,800**	1250 **2,700**	14.34 **46.92**
3.0 m **10.0 ft**	kg **lb**			*4700 ***11,800**	*4700 ***11,800**	*6050 ***12,900**	*6050 ***12,900**	*4450 ***9,550**	*4450 ***9,550**	*3600 ***7,800**	*3600 ***7,800**	*1300 ***2,900**	1150 **2,550**	14.55 **47.67**
1.5 m **5.0 ft**	kg **lb**					*6750 ***15,950**	6500 **14,100**	*5250 ***11,300**	4500 **9,700**	*4100 ***8,850**	3350 **7,200**	*1400 ***3,000**	1150 **2,450**	14.60 **47.83**
0 m **0 ft**	kg **lb**			*2000 ***4,550**	*2000 ***4,550**	*4650 ***10,700**	*4650 ***10,700**	*5900 ***12,700**	4050 **8,750**	*4550 ***9,800**	3050 **6,550**	*1450 ***3,200**	1100 **2,400**	14.49 **47.50**
–1.5 m **–5.0 ft**	kg **lb**	*2100 ***4,600**	*2100 ***4,600**	*2700 ***6,050**	*2700 ***6,050**	*4650 ***10,500**	*4650 ***10,500**	*6250 ***13,550**	3800 **8,150**	*4850 ***10,450**	2850 **6,100**	*1550 ***3,450**	1100 **2,450**	14.23 **46.58**
–3.0 m **–10.0 ft**	kg **lb**	*2850 ***6,350**	*2850 ***6,350**	*3500 ***7,850**	*3500 ***7,850**	*5200 ***11,700**	*5200 **11,700**	*6400 ***13,900**	3650 **7,850**	4750 **10,150**	2700 **5,800**	*1750 ***3,800**	1150 **2,550**	13.79 **45.17**
–4.5 m **–15.0 ft**	kg **lb**	*3650 ***8,150**	*3650 ***8,150**	*4400 ***9,900**	*4400 ***9,900**	*6050 ***13,700**	5500 **11,750**	*6400 ***13,800**	3600 **7,750**	4650 **10,050**	2650 **5,700**	*1950 ***4,300**	1250 **2,750**	13.17 **43.08**
–6.0 m **–20.0 ft**	kg **lb**	*4550 ***10,100**	*4550 ***10,100**	*5400 ***12,150**	*5400 ***12,150**	*7200 ***16,300**	5600 **12,000**	*6150 ***13,250**	3650 **7,850**	4700 **10,050**	2650 **5,750**	*2300 ***5,100**	1400 **3,050**	12.34 **40.25**
–7.5 m **–25.0 ft**	kg **lb**	*5500 ***12,250**	*5500 ***12,250**	*6550 ***14,800**	*6550 ***14,800**	*7300 ***15,650**	5800 **12,450**	*5650 ***12,150**	3750 **8,100**	*4550 ***9,750**	2750 **5,900**	*2700 ***5,950**	1650 **3,650**	11.24 **36.50**
–9.0 m **–30.0 ft**	kg **lb**			*7950 ***17,450**	*7950 ***17,450**	*6150 ***13,100**	6050 ***13,100**	*4850 ***10,350**	3950 **8,500**	*3900 ***8,300**	2900 **6,250**	*2700 ***5,900**	2050 **4,650**	9.80 **31.58**

* **ISO 10567:2007**

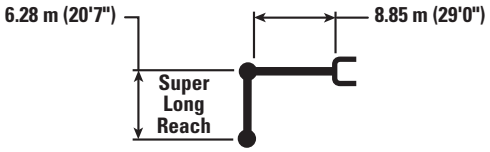
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

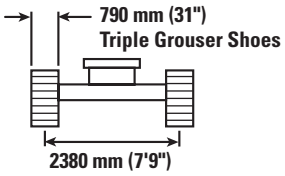
Lift capacity stays with ±5% for all available track shoes.

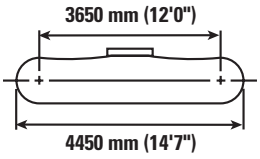
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

(continued on next page)

Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket *(continued)*







		9.0 m/30.0 ft		10.5 m/35.0 ft		12.0 m/40.0 ft		13.5 m/45.0 ft				
												m ft
12.0 m **40.0 ft**	kg **lb**									*1450 ***3,200**	*1450 ***3,200**	10.35 **33.25**
10.5 m **35.0 ft**	kg **lb**			*2200 ***4,850**	*2200 ***4,850**					*1350 ***2,950**	*1350 ***2,950**	11.66 **37.75**
9.0 m **30.0 ft**	kg **lb**			*2200 ***4,800**	*2200 ***4,800**	*2200 ***4,200**	1950 **4,150**			*1300 ***2,850**	*1300 ***2,850**	12.66 **41.17**
7.5 m **25.0 ft**	kg **lb**			*2250 ***4,900**	*2250 ***4,900**	*2200 ***4,850**	1950 **4,150**			*1250 ***2,800**	*1250 ***2,800**	13.41 **43.75**
6.0 m **20.0 ft**	kg **lb**			*2400 ***5,200**	*2400 ***5,200**	*2300 ***5,000**	1900 **4,050**	*2100 ***3,700**	1450 **3,100**	*1250 ***2,750**	*1250 ***2,750**	13.97 **45.67**
4.5 m **15.0 ft**	kg **lb**	*2800 ***6,050**	*2800 ***6,050**	*2550 ***5,550**	2300 **4,950**	*2400 ***5,200**	1800 **3,850**	*2300 **5,000**	1450 **3,000**	*1300 ***2,800**	1250 **2,700**	14.34 **46.92**
3.0 m **10.0 ft**	kg **lb**	*3100 ***6,750**	2800 **6,000**	*2800 ***6,000**	2200 **4,650**	*2550 ***5,500**	1700 **3,650**	2300 **4,900**	1350 **2,900**	*1300 ***2,900**	1150 **2,550**	14.55 **47.67**
1.5 m **5.0 ft**	kg **lb**	*3450 ***7,400**	2550 **5,500**	*3000 ***6,450**	2050 **4,350**	*2700 **5,750**	1650 **3,450**	2250 **4,750**	1300 **2,800**	*1400 ***3,000**	1150 **2,450**	14.60 **47.83**
0 m **0 ft**	kg **lb**	*3700 ***8,050**	2400 **5,100**	3150 **6,800**	1900 **4,050**	2600 **5,550**	1550 **3,300**	2150 **4,650**	1250 **2,650**	*1450 ***3,200**	1100 **2,400**	14.49 **47.50**
–1.5 m **–5.0 ft**	kg **lb**	3800 **8,150**	2250 **4,750**	3050 **6,550**	1800 **3,850**	2500 **5,400**	1450 **3,150**	2150 **4,550**	1200 **2,600**	*1550 ***3,450**	1100 **2,450**	14.23 **46.58**
–3.0 m **–10.0 ft**	kg **lb**	3700 **7,900**	2150 **4,550**	3000 **6,400**	1700 **3,700**	2500 **5,300**	1400 **3,050**	2100 ***4,200**	1200 **2,550**	*1750 ***3,800**	1150 **2,550**	13.79 **45.17**
–4.5 m **–15.0 ft**	kg **lb**	3650 **7,800**	2100 **4,450**	2950 **6,300**	1700 **3,600**	2450 **5,300**	1400 **3,000**			*1950 ***4,300**	1250 **2,750**	13.17 **43.08**
–6.0 m **–20.0 ft**	kg **lb**	3650 **7,800**	2100 **4,500**	2950 **6,350**	1700 **3,650**	2500 **5,350**	1450 **3,100**			*2300 ***5,100**	1400 **3,050**	12.34 **40.25**
–7.5 m **–25.0 ft**	kg **lb**	3700 **7,950**	2150 **4,600**	3000 ***6,450**	1750 **3,800**					*2700 ***5,950**	1650 **3,650**	11.24 **36.50**
–9.0 m **–30.0 ft**	kg **lb**	*3150 ***6,500**	2300 **4,950**							*2700 ***5,900**	2050 **4,650**	9.80 **31.58**

* **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.

Bucket Specifications and Compatibility

								Counterweight	4.2 mt (9,300 lb)	4.7 mt (10,400 lb)	4.7 mt (10,400 lb)
		Width		Capacity		Weight		Fill	Reach Boom	HD Reach Boom	SLR Boom
	Linkage	mm	in	m^3	yd^3	kg	lb	%	R2.9 (9'6")	HD R2.9 (9'6") TRS	6.28A (20'7")
Pin-On (No Quick Coupler)											
General Duty Capacity	B	600	24	0.55	0.72	620	1,366	100	●	●	
	B	750	30	0.75	0.98	717	1,580	100	●	●	
	B	900	36	0.95	1.24	793	1,747	100	●	●	
	B	1050	42	1.16	1.52	848	1,869	100	◉	●	
	B	1200	48	1.38	1.80	924	2,038	100	⊖	⊖	
	B	1350	54	1.59	2.08	1002	2,210	100	○	○	
General Duty Capacity – Wide Tip	B	600	24	0.55	0.72	617	1,360	100	●	●	
	B	750	30	0.75	0.98	715	1,576	100	●	●	
	B	900	36	0.95	1.24	791	1,743	100	●	●	
	B	1050	42	1.16	1.52	861	1,899	100	◉	●	
	B	1200	48	1.38	1.80	938	2,069	100	⊖	⊖	
	B	1350	54	1.59	2.08	1016	2,241	100	○	○	
Heavy Duty	B	600	24	0.46	0.60	647	1,426	100	●	●	
	B	750	30	0.64	0.84	752	1,658	100	●	●	
	B	900	36	0.81	1.06	835	1,841	100	●	●	
	B	1050	42	1.00	1.31	892	1,967	100	●	●	
	B	1200	48	1.19	1.56	975	2,150	100	◉	◉	
	B	1350	54	1.38	1.81	1060	2,336	100	X	X	
Heavy Duty Power	B	1050	42	0.96	1.26	898	1,980	100	●	●	
	B	1200	48	1.14	1.49	983	2,167	100	X	X	
Severe Duty	B	600	24	0.46	0.61	683	1,506	90	●	●	
	B	750	30	0.64	0.84	795	1,753	90	●	●	
	B	900	36	0.81	1.06	885	1,950	90	●	●	
	B	1050	42	1.00	1.31	948	2,091	90	●	●	
	B	1200	48	1.19	1.56	1038	2,289	90	◉	●	
Severe Duty Power	B	900	36	0.79	1.03	853	1,881	90	●	●	
Clean Up	B	1800	72	1.60	2.09	979	2,157	100	○	○	
	B	2000	78	1.76	2.31	1045	2,303	100	○	○	
Ditch Cleaning	B	1500	60	1.01	1.32	651	1,436	100	●	●	
	B	1800	72	1.24	1.62	739	1,630	100	◉	●	
Ditch Cleaning Tilt	B	1500	60	0.90	1.18	948	2,090	100	●	●	
	B	1800	72	1.11	1.45	1063	2,344	100	◉	◉	
	B	1800	72	1.40	1.83	1105	2,437	100	○	⊖	
	B	2000	79	1.23	1.61	1132	2,496	100	⊖	◉	
Tamping	B	2200	86	0.72	0.94	868	1,913	100	●	●	
	B	2200	86	0.90	1.18	891	1,965	100	●	●	
General Duty	312, A	900	36	0.53	0.69	403	888	100			◇
Ditch Cleaning	312, A	1200	48	0.57	0.74	386	851	100			◇
Maximum load with pin-on (payload + bucket)								kg	3010	3245	800
								lb	6,636	7,154	1,764

The above loads are in compliance with hydraulic excavator standard EN474-5:2006 + A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- ○ 1200 kg/m^3 (2,000 lb/yd^3)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)
- 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.

(continued on next page)

Bucket Specifications and Compatibility *(continued)*

								Counterweight	4.2 mt (9,300 lb)	4.7 mt (10,400 lb)	4.7 mt (10,400 lb)
		Width		Capacity		Weight		Fill	Reach Boom	HD Reach Boom	SLR Boom
	Linkage	mm	in	m^3	yd^3	kg	lb	%	R2.9 (9'6")	HD R2.9 (9'6") TRS	6.28A (20'7")
With Cat Pin Grabber Coupler											
General Duty Capacity	B	600	24	0.55	0.72	620	1,366	100	●	●	
	B	750	30	0.75	0.98	717	1,580	100	●	●	
	B	900	36	0.95	1.24	793	1,747	100	◉	●	
	B	1050	42	1.16	1.52	848	1,869	100	⊖	⊖	
	B	1200	48	1.38	1.80	924	2,038	100	○	○	
	B	1350	54	1.59	2.08	1002	2,210	100	◇	○	
General Duty Capacity – Wide Tip	B	600	24	0.55	0.72	617	1,360	100	●	●	
	B	750	30	0.75	0.98	715	1,576	100	●	●	
	B	900	36	0.95	1.24	791	1,743	100	◉	●	
	B	1050	42	1.16	1.52	861	1,899	100	⊖	⊖	
	B	1200	48	1.38	1.80	938	2,069	100	○	○	
	B	1350	54	1.59	2.08	1016	2,241	100	◇	◇	
Heavy Duty	B	600	24	0.46	0.60	647	1,426	100	●	●	
	B	750	30	0.64	0.84	752	1,658	100	●	●	
	B	900	36	0.81	1.06	835	1,841	100	●	●	
	B	1050	42	1.00	1.31	892	1,967	100	◉	◉	
	B	1200	48	1.19	1.56	975	2,150	100	○	⊖	
	B	1350	54	1.38	1.81	1060	2,336	100	◇	○	
Heavy Duty Power	B	1050	42	0.96	1.26	898	1,980	100	◉	●	
	B	1200	48	1.14	1.49	983	2,167	100	⊖	⊖	
Heavy Duty Pin Grabber Performance	B	600	24	0.44	0.57	682	1,503	100	●	●	
	B	750	30	0.60	0.79	787	1,735	100	●	●	
	B	900	36	0.76	1.00	876	1,931	100	●	●	
	B	1050	42	0.93	1.22	940	2,072	100	◉	●	
	B	1200	48	1.11	1.45	1031	2,272	100	⊖	⊖	
	B	1350	54	1.28	1.67	1122	2,474	100	○	○	
Severe Duty	B	600	24	0.46	0.61	683	1,506	90	●	●	
	B	750	30	0.64	0.84	795	1,753	90	●	●	
	B	900	36	0.81	1.06	885	1,950	90	●	●	
	B	1050	42	1.00	1.31	948	2,091	90	◉	●	
	B	1200	48	1.19	1.56	1038	2,289	90	⊖	⊖	
	B	900	36	0.79	1.03	853	1,881	90	●	●	
Clean Up	B	1800	72	1.60	2.09	979	2,157	100	◇	○	
	B	2000	78	1.76	2.31	1045	2,303	100	◇	◇	
Ditch Cleaning	B	1500	60	1.01	1.32	651	1,436	100	◉	●	
	B	1800	72	1.24	1.62	739	1,630	100	⊖	⊖	
Ditch Cleaning Tilt	B	1500	60	0.90	1.18	948	2,090	100	●	●	
	B	1800	72	1.11	1.45	1063	2,344	100	◉	⊖	
	B	1800	72	1.40	1.83	1105	2,437	100	○	○	
	B	2000	79	1.23	1.61	1132	2,496	100	○	○	
Maximum load with coupler (payload + bucket)								kg	2636	2825	600
								lb	5,811	6,228	1,323

The above loads are in compliance with hydraulic excavator standard EN474-5:2006 + A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- ○ 1200 kg/m^3 (2,000 lb/yd^3)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)
- 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.

(continued on next page)

Bucket Specifications and Compatibility *(continued)*

								Counterweight	4.2 mt (9,300 lb)
		Width		Capacity		Weight		Fill	Reach Boom
	Linkage	mm	in	m^3	yd^3	kg	lb	%	R2.9 (9'6")
Pin-On, TRS18 S70									
Heavy Duty Grading	B	1600	63	1.00	1.31	691	1,523	100	⊖
	B	1800	71	1.10	1.44	758	1,671	100	⊖
Heavy Duty Digging	B	1150	45	0.90	1.18	778	1,715	100	◉
	B	1250	49	1.10	1.44	850	1,874	100	○
Heavy Duty Trenching	B	600	24	0.55	0.72	460	1,014	100	●
Maximum load with pin-on (payload + bucket)								kg	2376
								lb	5,237
With S70, TRS18 S70									
Heavy Duty Grading	B	1600	63	1.00	1.31	691	1,523	100	○
	B	1800	71	1.10	1.44	758	1,671	100	○
Heavy Duty Digging	B	1150	45	0.90	1.18	778	1,715	100	⊖
	B	1250	49	1.10	1.44	850	1,874	100	◇
Heavy Duty Trenching	B	600	24	0.55	0.72	460	1,014	100	●
Maximum load with pin-on (payload + bucket)								kg	2121
								lb	4,675

The above loads are in compliance with hydraulic excavator standard EN474-5:2006 + A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- ○ 1200 kg/m^3 (2,000 lb/yd^3)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

Attachments Offering Guide

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

✓ Match | * Working range front only | † Allowed usage on machine less than 50% | No Match | ● 1800 kg/m³ (3,000 lb/yd³) | ○ 1200 kg/m³ (2,000 lb/yd³)

PIN-ON ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	4.7 mt (10,400 lb)
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 GC	✓	✓
	H120 GC S	✓	✓
	H120 S	✓	✓
	H130 GC		✓
	H130 GC S		✓
	H130 S	✓†	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓
	MP318 Demolition Jaw	✓	✓
	MP318 Pulverizer Jaw	✓	✓
	MP318 Shear Jaw	✓	✓
	MP318 Universal Jaw	✓	✓
Demolition and Sorting Grapples	G318	✓	✓
	G318 WH-800	✓	✓
	G318 WH-1100	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓	✓
Pulverizers	P218 Secondary Pulverizer	✓	✓
	P318 Primary Pulverizer	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓
Mulchers	HM4015	✓	✓
	HM4815	✓	✓
Orange Peel Grapples	GSH420-500	●	●
	GSH420-600	●	●
	GSH420-750	●	●
	GSH425-750	○	●
	GSH425-950	○	○
	GSH520-500	●	●
	GSH520-600	●	●
	GSH520-750	●	●
	GSH525-750	○	○

(continued on next page)

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 | † Allowed usage on machine less than 50% | No Match

CAT PIN GRABBER COUPLER ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	4.7 mt (10,400 lb)
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 GC	✓†	✓
	H120 GC S	✓†	✓
	H120 S	✓†	✓
	H130 GC	✓†*	✓
	H130 GC S	✓†	✓
	H130 S	✓†	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓
	MP318 Demolition Jaw	✓	✓
	MP318 Pulverizer Jaw	✓*	✓
	MP318 Shear Jaw	✓	✓
	MP318 Universal Jaw	✓	✓
Demolition and Sorting Grapples	G318	✓	✓
	G318 WH-800	✓	✓
	G318 WH-1100	✓*	✓*
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓*	
Pulverizers	P218 Secondary Pulverizer	✓	✓
	P318 Primary Pulverizer	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓
Mulchers	HM4015	✓	✓
	HM4815	✓	✓

S70 DEDICATED COUPLER ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	4.7 mt (10,400 lb)
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 GC S	✓†	✓
	H120 S	✓†	✓
	H130 S	✓†	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓
	MP318 Demolition Jaw	✓	✓
	MP318 Pulverizer Jaw	✓	✓
	MP318 Shear Jaw	✓	✓
	MP318 Universal Jaw	✓	✓
Demolition and Sorting Grapples	G318	✓	✓
	G318 WH-800	✓	✓
	G318 WH-1100	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓*	✓
Pulverizers	P218 Secondary Pulverizer	✓	✓
	P318 Primary Pulverizer	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓

(continued on next page)

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 | † Allowed usage on machine less than 50% | No Match

HCS70 DEDICATED COUPLER ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	4.7 mt (10,400 lb)
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 S	✓†	✓
	H130 S	✓†	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓
	MP318 Demolition Jaw	✓	✓
	MP318 Pulverizer Jaw	✓	✓
	MP318 Shear Jaw	✓	✓
	MP318 Universal Jaw	✓	✓
Demolition and Sorting Grapples	G318	✓	✓
	G318 WH-800	✓	✓
	G318 WH-1100	✓*	✓*
Mobile Scrap and Demolition Shears	S3025 Flat Top		
Pulverizers	P218 Secondary Pulverizer	✓	✓
	P318 Primary Pulverizer	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓

HCS70/55 DEDICATED COUPLER ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	4.7 mt (10,400 lb)
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 S	✓†	✓
	H130 S	✓†	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓
	MP318 Demolition Jaw	✓	✓
	MP318 Pulverizer Jaw	✓*	✓
	MP318 Shear Jaw	✓	✓
	MP318 Universal Jaw	✓	✓
Demolition and Sorting Grapples	G318	✓	✓
	G318 WH-800	✓	✓
	G318 WH-1100	✓*	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top		
Pulverizers	P218 Secondary Pulverizer	✓*	✓
	P318 Primary Pulverizer	✓*	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓

(continued on next page)

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 | † Allowed usage on machine less than 50% | No Match

TRS18 (PIN-ON TOP/S70 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.

Counterweight		**4.2 mt (9,300 lb)**	**4.7 mt (10,400 lb)**
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 GC S	✓†	✓
	H120 S	✓†	✓
Compactors (Vibratory Plate)	CVP75	✓	✓
	CVP110	✓	✓

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.

TRS18 (S70 TOP/S70 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.

Counterweight		**4.2 mt (9,300 lb)**	**4.7 mt (10,400 lb)**
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 GC S	✓†*	✓*
	H120 S	✓†	✓
Compactors (Vibratory Plate)	CVP75	✓	✓
	CVP110	✓	✓

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.

TRS18 (PIN-ON TOP/HCS70 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.

Counterweight		**4.2 mt (9,300 lb)**	**4.7 mt (10,400 lb)**
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 S	✓†	✓
Compactors (Vibratory Plate)	CVP75	✓	✓
	CVP110	✓	✓

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.

(continued on next page)

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 | † Allowed usage on machine less than 50% | No Match

TRS18 (HCS70 TOP/HCS70 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.

Counterweight		**4.2 mt (9,300 lb)**	**4.7 mt (10,400 lb)**
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 S	✓†*	✓*
Compactors (Vibratory Plate)	CVP75	✓	✓
	CVP110	✓	✓

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.

TRS18 (PIN-ON TOP/HCS70/55 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.

Counterweight		**4.2 mt (9,300 lb)**	**4.7 mt (10,400 lb)**
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 S	✓†	✓
Compactors (Vibratory Plate)	CVP75	✓	✓
	CVP110	✓	✓

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.

TRS18 (HCS70/55 TOP/HCS70/55 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.

Counterweight		**4.2 mt (9,300 lb)**	**4.7 mt (10,400 lb)**
Boom Type		**Reach**	**HD Reach**
Stick Length		**R2.9 (9'6")**	**HD R2.9 (9'6") TRS**
Hydraulic Hammers	H115 S	✓	✓
	H120 S		
Compactors (Vibratory Plate)	CVP75	✓	✓
	CVP110	✓	✓

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

Counterweight		**4.2 mt (9,300 lb)**	**4.7 mt (10,400 lb)**
Boom Type		**Reach**	**HD Reach**
Mobile Scrap and Demolition Shears	S2050	✓	✓
	S3035 Flat Top	✓	✓

Thumb Specifications

✓ Match ☐ No Match

Bucket Type	Tooth Quantity	Width mm	Width in	Pro Plus Pin-on	Pro Plus Cat Pin Grabber	Pro Pin-on	Pro Cat Pin Grabber	Stiff Link Pin-on	Stiff Link Cat Pin Grabber	Utility Pin-on	Utility Cat Pin Grabber
General Duty	5	902	36	✓	✓	✓	✓	✓	✓	✓	✓
	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48	✓	✓	✓	✓	✓	✓	✓	✓
	7	1350	54	✓	✓	✓	✓	✓	✓	✓	✓
Heavy Duty	5	902	36	✓	✓	✓	✓	✓	✓	✓	✓
	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48	✓	✓	✓	✓	✓	✓	✓	✓
	7	1350	54	✓	✓	✓	✓	✓	✓	✓	✓
Heavy Duty Power	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48				✓	✓	✓	✓	✓
Severe Duty	5	902	36	✓	✓	✓	✓	✓	✓	✓	✓
	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48	✓	✓	✓	✓	✓	✓	✓	✓
Pin Grabber Performance Buckets	5	902	36		✓					✓	✓
	5	1056	42		✓		✓			✓	✓
	6	1208	48		✓					✓	✓
	7	1350	54							✓	✓

Standard and Optional Equipment

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

	Standard	Optional
CAB		
ROPS	✓	
High-resolution 254 mm (10") LCD touchscreen monitor	✓	
Auto bi-level air conditioner	✓	
Jog dial and shortcut keys for monitor control	✓	
Keyless push-to-start engine control	✓	
Height-adjustable console	✓	
Tilt-up left-side console	✓	
Heated air-suspension seat	✓	
51 mm (2") seat belt	✓	
Monitor integrated Bluetooth® radio with USB/Auxiliary ports	✓	
12V DC outlets	✓	
Document storage	✓	
Overhead storage and rear storage with nets	✓	
Beverage holder	✓	
Cup holder	✓	
Openable two-piece front window	✓	
Rear window emergency exit	✓	
Radial wiper with washer	✓	
Openable polycarbonate skylight hatch	✓	
LED dome light	✓	
Floor welcome light	✓	
Roof sunscreen	✓	
Roller front sunscreen	✓	
Roller rear sunscreen		✓
Washable floor mat	✓	
Beacon ready	✓	
Cat Stick Steer		✓

	Standard	Optional
ENGINE		
Cat® C4.4 twin turbo diesel engine	✓	
Three selectable power modes: Power, Smart, Eco	✓	
Auto engine speed control	✓	
Auto engine idle shutdown	✓	
Work up to 3000 m (9,842.5 ft) above sea level without engine power de-rating	✓	
52° C (125° F) high-ambient cooling capacity	✓	
Cold starting capability for –32° C (–25° F)	✓	
Double element air filter with integrated pre-cleaner	✓	
Electric fuel priming pump	✓	
Electric cooling fans with auto-reverse function	✓	
HYDRAULIC SYSTEM		
Boom and stick regeneration circuits	✓	
Electronic main control valve	✓	
Auto hydraulic oil warm up	✓	
Auto Dig Boost[1]	✓	
Auto heavy lift[2]	✓	
Auto two-speed travel	✓	
Boom and stick drift reduction valve	✓	
Element type main hydraulic filter	✓	
Slider joysticks	✓	
Tandem type electronic main pump	✓	
Medium pressure auxiliary circuit		✓
Hydraulic efficiency monitoring		✓
Advanced tool control		✓
Quick coupler circuit for Cat pin grabber		✓
Fine swing control		✓

[1]Requires heavy lift valve; not available for Super Long Reach.
[2]Not available for Super Long Reach.

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
790 mm (31 in) triple grouser track shoes	✓	
Tie-down points on base frame	✓	
Segmented track guiding guards	✓	
Full-length track guiding guards		✓
Bottom guards	✓	
HD bottom guards		✓
Swivel guard	✓	
Travel motor guards	✓	
HD travel motor guards		✓
Grease lubricated track links	✓	
4.2 mt (9,300 lb) counterweight	✓	
4.7 mt (10,400 lb) counterweight for Super Long Reach		✓
Semi-HD swing frame	✓	
Base frame with HD track rollers and standard carrier rollers	✓	
Storage tray in pump compartment	✓	
BOOM, STICKS AND LINKAGES		
5.7 m (18'8") Reach boom		✓
5.7 m (18'8") HD Reach boom		✓
2.9 m (9'6") Reach stick		✓
2.9 m (9'6") HD Thumb Ready Reach stick		✓
8.85 m (29'0") Super Long Reach boom		✓
6.28 m (20'7") Super Long Reach stick		✓
Bucket linkage, B1-family with lifting eye, Cat Grade	✓	
Bucket linkage, A-family with lifting eye, SLR		✓
ELECTRICAL SYSTEM		
1,000 CCA maintenance-free batteries (×2)	✓	
Centralized electrical disconnect switch	✓	
Programmable time-delay LED working lights	✓	
LED chassis light, Left Hand (LH) and Right Hand (RH) boom lights for Reach and SLR, cab lights	✓	
Premium surround lighting package		✓

	Standard	Optional
CAT TECHNOLOGY		
VisionLink®	✓[3]	
VisionLink Productivity		✓
Remote Flash	✓	
Remote Troubleshoot	✓	
Cat Grade Connectivity		✓
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓	
Cat Grade 2D[4]	✓	
Cat Grade 2D with Attachment Ready Option (ARO)		✓
Cat Grade 3D single GNSS		✓
Cat Grade 3D dual GNSS		✓
Laser catcher		✓
Cat Assist:[4] – Grade Assist – Boom Assist – Bucket Assist – Swing Assist – Lift Assist	✓	
Cat Payload:[4] – Static weigh – Semiautomatic calibration – Payload/cycle information – USB reporting capability	✓	
Work tool recognition (PL161)	✓	
Work tool tracking (PL161)	✓	
Cat Tilt Rotator (TRS) Integration		✓
Operator Coaching		✓

[3]Connect subscription only. Additional subscriptions are available. Contact your Cat dealer for availability.

[4]Optional on machines equipped with a Super Long Reach boom and stick.

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
SERVICE AND MAINTENANCE		
Scheduled Oil Sampling (S·O·S℠) ports	✓	
QuickEvac™ maintenance ready		✓
Grouped location for engine oil and fuel filters	✓	
Ground-level second dipstick for engine oil	✓	
Radiator screen		✓
Integrated vehicle health management system	✓	

	Standard	Optional
SAFETY AND SECURITY		
Cat Command (remote control)		✓
2D E-Fence:[4] – E-ceiling – E-floor – E-swing – E-wall – E-cab avoidance	✓	
Auto hammer stop	✓	
Rearview and right-side-view cameras	✓	
360° visibility		✓
Neutral lever (lock out) for all controls	✓	
Anti-skid plate and countersunk bolts on service platform	✓	
Ground-level accessible secondary engine shutoff switch in cab	✓	
Lockable disconnect switch	✓	
Swing alarm		✓
RH handrail and handhold (ISO 2867:2011 compliant)	✓	
Travel alarm	✓	
Inspection lighting		✓

[4]Optional on machines equipped with a Super Long Reach boom and stick.

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB
- Lower radial wiper
- Rain protector plus cab light cover
- Laminated P5A glass front windshield
- LH/RH electrical pedal for tool control
- Armrest kit
- Seat with 4-point seatbelt capability
- Dual exit rear window kit
- 75 mm (3") retractable seat belt
- Auxiliary relay

ELECTRICAL
- Premium surround working lights

GUARDS
- Swivel guard
- Side rubber bumper guard
- Falling object guard system
- Mesh guard full front
- Mesh guard half front
- Full protecting vandalism guard

MAINTENANCE
- Jump start wiring
- Duct ready kit

SAFETY AND SECURITY
- Cat Detect – People Detection
- Cat Command – Remote control kit
- Seat belt indicator
- Bluetooth receiver
- Bluetooth key fob

OTHER ATTACHMENTS
- Delayed engine shutdown kit
- Upper cover for antennae
- Removable mast for antennae
- Power clam kit
- Grease gun holder

320 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® C4.4 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

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

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

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

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg (1.9 lb) of refrigerant which has a CO_2 equivalent of 1.216 metric tonnes (1.340 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 (external) – 99 dB(A)

ISO 6396 (inside cab) – 70 dB(A)

- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Advanced hydraulic systems balance power and efficiency
  - Smart mode matches machine power to digging requirements automatically
  - Eco mode minimizes fuel consumption for light applications
  - Increase operating efficiency up to 45% with standard Cat technologies
  - Cut maintenance costs with extended service intervals
  - The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	82.98%
Iron	5.36%
Nonferrous Metal	2.57%
Mixed Metal	1.57%
Mixed-Metal and Nonmetal	1.02%
Plastic	1.29%
Rubber	0.19%
Mixed Nonmetallic	0.22%
Fluid	3.18%
Other	1.62%
Uncategorized	0.00%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following value in the table may vary.

Recyclability – 97%

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

AEXQ2161-07 (09-2023)
Replaces AEXQ2161-06
Build Number: 07G
(N Am)