

Cat®
302.6

Mini Excavator

Features:

The Cat® 302.6 Mini Excavator is designed to provide stability and performance expectations without the need for an optional counterweight.

OPERATOR COMFORT

- Choose either a canopy or a sealed and pressurized cab which can be equipped with air conditioning, adjustable wrist rests, and a suspension seat to help keep you working comfortably all day long.

SIMPLE TO OPERATE

- Controls are easy to use and the intuitive Next Generation LCD monitor provides easy to read machine information. An advanced touchscreen monitor is also available.

STICK STEER TRAVEL MODE

- Moving around the jobsite is even easier with Cat Stick Steer and cruise control. Easily switch from traditional travel controls with levers and pedals to joystick controls to move the machine and to operate the blade or linkage. Stick steer provides operators with a more ergonomic operating position and is available as standard on this machine.

BIG PERFORMANCE IN A COMPACT DESIGN

- Strong lift and dig performance helps you get the job done faster. Increased stability when working over the front and side of the machine.* Dig-to-blade and dozer blade float features allow for easy cleanup.

** Compared to the identified predecessor model and configuration.*

SAFETY ON THE JOB SITE

- The Cat mini excavator is designed to help keep you safe on the job. Courtesy work lights and a hi-visibility retractable seatbelt with seatbelt reminder system are just a couple of the safety features we've built into the machines.

SIMPLE SERVICE FOR LESS DOWNTIME

- Maintenance is quick and easy on the Cat mini excavator. Routine check points are easy to access at ground level through the side doors. The tilt up cab or canopy lets you reach additional service areas when needed.

OPERATING EFFICIENCY

- Equipped with features such as auto idle, auto engine shutdown and efficient hydraulics with a variable displacement pump, the Cat mini excavator was designed with reducing your operating costs in mind. Standard VisionLink™ technology monitors fuel costs, sends maintenance reminders, service alerts, and provides daily information on the machine's location.

UNMATCHED DEALER SUPPORT

- Your independent Cat dealer is here to help you reach your business goals. From providing equipment solutions to operator training, a worldwide parts network, service needs and beyond, your Cat dealer is ready to help.

CAT®

Specifications

Engine

Engine Model	Cat C1.1 Turbo	
Net Power		
ISO 9249:2007 (80/1269/EEC)	17.6 kW	23.6 hp
ISO 9249:2007 (DIN)	23.9 mhp (PS)	
Gross Engine Power		
ISO 14396:2002	18.4 kW	24.7 hp
ISO 14396:2002 (DIN)	25 mhp (PS)	
Bore	77 mm	3.0 in
Stroke	81 mm	3.2 in
Displacement	1.1 L	69 in3

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- 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 at rated speed of 2,400 rpm power when the engine is installed with the factory configured fan, air intake system, exhaust system, and alternator with a minimum alternator load.

Weights

Minimum Operating Weight with Canopy*	2550 kg	5623 lb
Maximum Operating Weight with Canopy**	2920 kg	6439 lb
Minimum Operating Weight with Cab*	2660 kg	5865 lb
Maximum Operating Weight with Cab**	3030 kg	6681 lb
EU: CE Plate Weight with Canopy***	2585 kg	5700 lb
EU: CE Plate Weight with Cab***	2695 kg	5942 lb

*Minimum Weight is based on rubber tracks, operator, full fuel tank, standard stick and blade, no extra counterweight and excludes bucket.

**Maximum Weight is based on steel tracks, operator, full fuel tank, long stick and blade, extra counterweight and excludes bucket.

***CE Plate Weight is based on the most common EU configuration. Includes 75 kg (165 lb) operator and full fuel tank, no extra counterweight, excludes bucket.

Weight Increase from Minimum Configuration

Cab	125 kg	276 lb
Counterweight (light)	100 kg	221 lb
Counterweight (extra)	250 kg	551 lb
Long Stick	15 kg	33 lb
Steel Tracks	100 kg	221 lb

Travel System

Travel Speed - High	4.8 km/h	3.0 mph
Travel Speed - Low	2.7 km/h	1.7 mph
Maximum Traction Force - High Speed	15.6 kN	3507 lbf
Maximum Traction Force - Low Speed	26.9 kN	6047 lbf
Ground Pressure - Minimum Weight	24.4 kPa	3.5 psi
Ground Pressure - Maximum Weight	28.9 kPa	4.2 psi
Gradeability (maximum)	30 degrees	

Service Refill Capacities

Cooling System	4.0 L	1.1 gal
Engine Oil	4.0 L	1.1 gal
Fuel Tank	45 L	11.9 gal
Hydraulic Tank	18 L	4.8 gal
Hydraulic System	35 L	9.2 gal

Hydraulic System

Flow sharing hydraulics with variable displacement piston pump

Pump Flow @ 2,400 rpm	100 L/min	26 gal/min
Operating Pressure - Equipment	245 bar	3553 psi
Operating Pressure - Travel	245 bar	3553 psi
Operating Pressure - Swing	197 bar	2857 psi
Auxiliary Circuit - Primary		
Flow	65 L/min	17 gal/min
Pressure	245 bar	3553 psi
Auxiliary Circuit - Secondary		
Flow	25 L/min	7 gal/min
Pressure	245 bar	3553 psi
Digging Force - Stick (standard)	13.8 kN	3102 lbf
Digging Force - Stick (long)	12.3 kN	2765 lbf
Digging Force - Bucket	23.3 kN	5238 lbf

Swing System

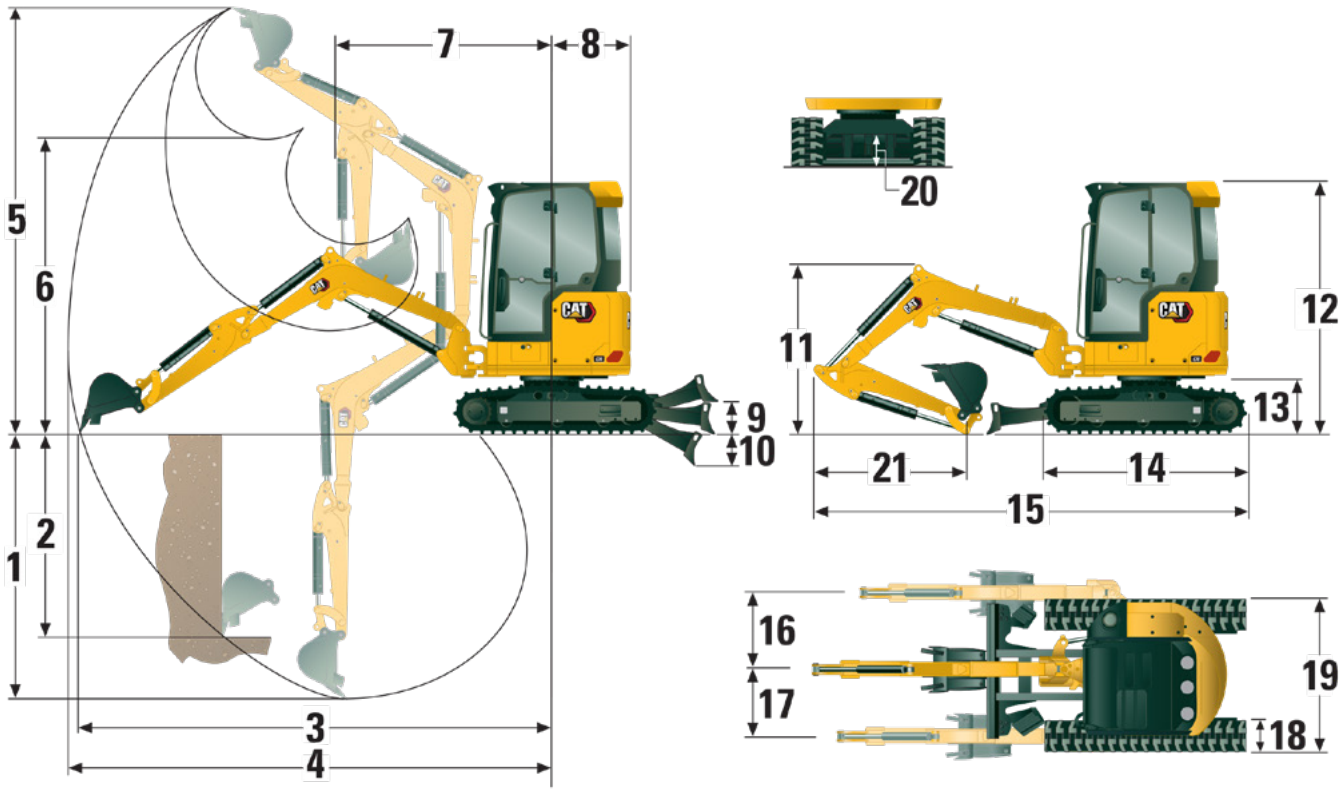
Machine Swing Speed	9 rpm
Boom Swing - Left	75 degrees
Boom Swing - Right	50 degrees

Blade

Width (straight)	1570 mm	61.8 in
Height (straight)	320 mm	12.6 in

Certification – Canopy

Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
Tip Over Protective Structure (TOPS)	ISO 12117:1997
Top Guard	ISO 10262:1998 (Level I)



Dimensions

		Standard Stick	Long Stick
1	Dig Depth	2510 mm (98.8 in)	2710 mm (106.7 in)
2	Vertical Wall	1870 mm (73.6 in)	2040 mm (80.3 in)
3	Maximum Reach at Ground Level	4310 mm (169.7 in)	4510 mm (177.6 in)
4	Maximum Reach	4460 mm (175.6 in)	4650 mm (183.1 in)
5	Maximum Dig Height	4220 mm (166.1 in)	4330 mm (170.5 in)
6	Maximum Dump Clearance	2960 mm (116.5 in)	3080 mm (121.3 in)
7	Boom in Reach	1980 mm (78.0 in)	2000 mm (78.7 in)
8	Tail Swing without Counterweight	975 mm (38.4 in)	975 mm (38.4 in)
8a	Tail Swing with Counterweight (light)	1045 mm (41.1 in)	1045 mm (41.1 in)
8b	Tail Swing with Counterweight (extra)	1090 mm (42.9 in)	1090 mm (42.9 in)
9	Maximum Blade Height	370 mm (14.6 in)	370 mm (14.6 in)
10	Maximum Blade Depth	395 mm (15.6 in)	395 mm (15.6 in)
11	Boom Height in Shipping Position	1580 mm (62.2 in)	1680 mm (66.1 in)
12	Overall Shipping Height	2490 mm (98.0 in)	2490 mm (98.0 in)
13	Swing Bearing Height	560 mm (22.0 in)	560 mm (22.0 in)
14	Overall Undercarriage Length	2010 mm (79.1 in)	2010 mm (79.1 in)
15	Overall Shipping Length	4060 mm (159.8 in)	4100 mm (161.4 in)
16	Boom Swing Right	635 mm (25.0 in)	635 mm (25.0 in)
17	Boom Swing Left	455 mm (17.9 in)	455 mm (17.9 in)
18	Track Belt/Shoe Width	300 mm (11.8 in)	300 mm (11.8 in)
19	Track Width	1570 mm (61.8 in)	1570 mm (61.8 in)
20	Ground Clearance	310 mm (12.2 in)	310 mm (12.2 in)
21	Stick Length	1060 mm (41.7 in)	1260 mm (49.6 in)

Cab

Lift Capacities - Minimum Configuration

Lift Point Height			Lift Point Radius 2.0 m (6.6 ft)			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	m (ft)
			Blade Up	Blade Down		Blade Up	Blade Down		
2.0 m (6.6 ft)	Standard Stick	kg (lb)				470 (1036)	513 (1131)	397 (875)	3.67 (12'00)
	Long Stick	kg (lb)				420 (926)	420 (926)	363 (800)	3.87 (12'07)
1.5 m (4.9 ft)	Standard Stick	kg (lb)				444 (979)	517 (1140)	375 (827)	3.79 (12'04)
	Long Stick	kg (lb)	1232 (2716)	1392 (3069)	995 (2194)	408 (899)	423 (933)	344 (758)	3.98 (13'00)
1.0 m (3.3 ft)	Standard Stick	kg (lb)				434 (957)	536 (1182)	366 (807)	3.83 (12'06)
	Long Stick	kg (lb)	1171 (2582)	1851 (4081)	940 (2072)	399 (880)	437 (963)	336 (741)	4.01 (13'01)
0 m (0 ft)	Standard Stick	kg (lb)	1138 (2509)	1699 (3746)	910 (2006)	460 (1014)	637 (1404)	387 (853)	3.64 (11'11)
	Long Stick	kg (lb)	1126 (2482)	1673 (3688)	899 (1982)	420 (926)	512 (1129)	353 (778)	3.84 (12'07)

Minimum weight includes cab, rubber tracks, operator, full fuel tank, no extra counterweight and blade without bucket.

Lift Capacities - Maximum Configuration

Lift Point Height			Lift Point Radius 2.0 m (6.6 ft)			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	m (ft)
			Blade Up	Blade Down		Blade Up	Blade Down		
2.0 m (6.6 ft)	Standard Stick	kg (lb)				513 (1131)	513 (1131)	511 (1127)	3.67 (12'00)
	Long Stick	kg (lb)				420 (926)	420 (926)	420 (926)	3.87 (12'07)
1.5 m (4.9 ft)	Standard Stick	kg (lb)				517 (1140)	517 (1140)	484 (1067)	3.79 (12'04)
	Long Stick	kg (lb)	1392 (3069)	1392 (3069)	1242 (2738)	423 (933)	423 (933)	423 (933)	3.98 (13'00)
1.0 m (3.3 ft)	Standard Stick	kg (lb)				536 (1182)	536 (1182)	474 (1045)	3.83 (12'06)
	Long Stick	kg (lb)	1519 (3349)	1851 (4081)	1188 (2619)	437 (963)	437 (963)	437 (963)	4.01 (13'01)
0 m (0 ft)	Standard Stick	kg (lb)	1486 (3276)	1699 (3746)	1159 (2555)	606 (1336)	637 (1404)	501 (1105)	3.64 (11'11)
	Long Stick	kg (lb)	1474 (3250)	1673 (3688)	1147 (2529)	512 (1129)	512 (1129)	460 (1014)	3.84 (12'07)

Maximum weight includes cab, steel tracks, operator, full fuel tank, extra counterweight and blade without bucket.

Canopy

Lift Capacities - Minimum Configuration

Lift Point Height			Lift Point Radius 2.0 m (6.6 ft)			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	m (ft)
			Blade Up	Blade Down		Blade Up	Blade Down		
2.0 m (6.6 ft)	Standard Stick	kg (lb)				442 (974)	513 (1131)	374 (825)	3.67 (12'00)
	Long Stick	kg (lb)				404 (891)	420 (926)	341 (752)	3.87 (12'07)
1.5 m (4.9 ft)	Standard Stick	kg (lb)				417 (919)	517 (1140)	352 (776)	3.79 (12'04)
	Long Stick	kg (lb)	1164 (2566)	1392 (3069)	941 (2075)	382 (842)	423 (933)	323 (712)	3.98 (13'00)
1.0 m (3.3 ft)	Standard Stick	kg (lb)				407 (897)	536 (1182)	344 (758)	3.83 (12'06)
	Long Stick	kg (lb)	1103 (2432)	1851 (4081)	886 (1953)	374 (825)	437 (963)	315 (694)	4.01 (13'01)
0 m (0 ft)	Standard Stick	kg (lb)	1069 (2357)	1699 (3746)	856 (1887)	432 (952)	637 (1404)	363 (800)	3.64 (11'11)
	Long Stick	kg (lb)	1058 (2332)	1673 (3688)	845 (1863)	393 (866)	512 (1129)	330 (728)	3.84 (12'07)

Minimum weight includes canopy, rubber tracks, operator, full fuel tank, no extra counterweight and blade without bucket.

Lift Capacities - Maximum Configuration

Lift Point Height			Lift Point Radius 2.0 m (6.6 ft)			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	m (ft)
			Blade Up	Blade Down		Blade Up	Blade Down		
2.0 m (6.6 ft)	Standard Stick	kg (lb)				513 (1131)	513 (1131)	488 (1076)	3.67 (12'00)
	Long Stick	kg (lb)				420 (926)	420 (926)	420 (926)	3.87 (12'07)
1.5 m (4.9 ft)	Standard Stick	kg (lb)				517 (1140)	517 (1140)	462 (1019)	3.79 (12'04)
	Long Stick	kg (lb)	1392 (3069)	1392 (3069)	1190 (2623)	423 (933)	423 (933)	423 (933)	3.98 (13'00)
1.0 m (3.3 ft)	Standard Stick	kg (lb)				536 (1182)	536 (1182)	452 (996)	3.83 (12'06)
	Long Stick	kg (lb)	1451 (3199)	1851 (4081)	1136 (2504)	437 (963)	437 (963)	418 (922)	4.01 (13'01)
0 m (0 ft)	Standard Stick	kg (lb)	1417 (3124)	1699 (3746)	1107 (2441)	578 (1274)	637 (1404)	478 (1054)	3.64 (11'11)
	Long Stick	kg (lb)	1406 (3100)	1673 (3688)	1096 (2416)	512 (1129)	512 (1129)	438 (966)	3.84 (12'07)

Maximum weight includes canopy, steel tracks, operator, full fuel tank, extra counterweight and blade without bucket.

Standard and Optional Equipment

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

	Standard	Optional
ENGINE		
Engine, Cat C1.1 Turbo (U.S. EPA Tier 4 Final/ EU Stage V)	✓	
Engine idle, automatic	✓	
Engine shutdown, automatic	✓	
Fuel Water Separator	✓	
Power on Demand (region dependent)	✓	
Travel, two speed	✓	
HYDRAULICS		
Accumulator	✓	
Brake, automatic swing	✓	
Displacement piston pump, variable	✓	
Hydraulic lines, auxiliary	✓	
Hydraulic flow, one and two way auxiliary	✓	
Hydraulic lines quick disconnects, auxiliary	✓	
Continuous Auxiliary Flow	✓	
Hydraulic lines, 2nd auxiliary		✓
Hydraulic lines, 3rd auxiliary		✓
Hydraulic lines, quick coupler (region dependent)		✓
Pump, Smart Tech Electronic	✓	
OPERATOR ENVIRONMENT		
Cab or Canopy, tilt-up	✓	
Cab with air conditioning		✓
Cab with heater		✓
Coat hook	✓	
Cruise control, travel	✓	
Cup holder	✓	
Floor mat, washable	✓	
Horn, signaling/warning	✓	
Hydraulic lockout, all controls	✓	
Light, boom, LED	✓	
Light, interior (cab only)	✓	
Lights, LED front		✓
Lights, LED front and rear		✓
Machine Security		
- Standard key with pass code	✓	
- Push to Start with key fob/pass code		✓
Mirrors, left and right (standard on cab in Europe)		✓

	Standard	Optional
OPERATOR ENVIRONMENT (Continued)		
Monitor, Next Generation Color LCD (IP66) - Fuel level and coolant temperature gauges - Hour meter with wake up switch - Jog dial (cab only) - Maintenance and machine monitoring - Multiple languages - Numeric security code - Performance and machine adjustments	✓	
Monitor, Next Generation Advanced (includes standard monitor features and the following) - High definition camera capable (IP68 & IT69K) - Site reference system - Touchscreen		✓
Pattern changer control (region dependent)		✓
Radio, Bluetooth®, auxiliary, microphone, USB (charging only) (cab only)		✓
ROPS - ISO 12117-2:2008	✓	
Seat, fabric suspension (cab only)	✓	
Seat, vinyl suspension (canopy only)	✓	
Seat, non-suspension (canopy only, region dependent)		✓
Seatbelt, (75 mm/3 in) hi-visibility, retractable with reminder	✓	
Skylight	✓	
Stick steer mode	✓	
Storage pocket	✓	
Top Guard - ISO 10262: 1998 Level 1	✓	
TOPS - ISO 12117:1997	✓	
Travel pedals and hand levers	✓	
Utility space for mobile phone	✓	
Wrist rests, adjustable	✓	
UNDERCARRIAGE		
Belt, rubber (300 mm/11.8 in)	✓	
Blade, dozer	✓	
Blade float, dozer	✓	
Tie downs on track frame	✓	
Track, steel (300 mm/11.8 in)		✓

Standard and Optional Equipment

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

	Standard	Optional
BOOM, STICK AND LINKAGES		
Attachments including couplers, thumbs, buckets, augers and hammers		✓
Boom, one piece (2085 mm/82.1 in)	✓	
Check valve, boom lowering (standard in Europe)		✓
Check valve, stick lowering (standard in Europe)		✓
Front shovel capable	✓	
- Pin on	✓	
- Dual Lock™ manual coupler		✓
Lifting eye, certified (region dependent		✓
Stick, long (1260/49.6 in) (optional in Europe)	✓	
Stick, standard (1060 mm/41.7 in) (standard in Europe)		✓
Thumb ready (region dependent)	✓	

	Standard	Optional
ELECTRICAL		
Alarm, travel	✓	
Battery disconnect	✓	
Battery, maintenance free, 12V	✓	
Power socket, 12V	✓	
VisionLink™ (Product Link PLE643)	✓	

	Standard	Optional
GUARDING		
Front guard, mounting bosses	✓	
Front guard, polycarbonate half height (canopy only)		✓
Front guard, polycarbonate - ISO 10262:1998 Level I, EN356 P5A		✓

	Standard	Optional
OTHER		
Beacon		✓
Bio Oil Capable		✓
Eco Drain	✓	
Water Jacket Heater		✓
Counterweight, light (100 kg/200 lb)		✓
Counterweight, extra (250 kg/550 lb)		✓

302.6 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 C1.1 Turbo 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) 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.
  *While Caterpillar 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.

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 < 100 PPM
  – Cadmium < 1 PPM
  – Chromium < 5 PPM
  – Lead < 5 PPM

Sound Performance

Operator Sound Pressure* – 78 dB(A) ISO 6396:2008
Exterior Sound Power Level** – 94 dB(A) ISO 6395:2008
*The declared dynamic operator sound pressure levels per IS0 6396:2008. The measurements were conducted with the cab doors and windows closed.
**The labeled sound power level for the CE and UK marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC and UK Noise Regulation 2001 No. 1701.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants.
- Cat Bio HYDO™ Advanced is a 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
  –Power On Demand provides full time efficiency and power when you need it and is transparent to the operator
  –Auto idle and auto engine shutdown
  –Extended maintenance intervals reduce fluid and filter consumption
  –Remote Flash and Remote Troubleshoot (if equipped)

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	67.30
Rubber	11.06
Iron	10.02
Nonferrous Metal	3.06
Fluid	2.15
Other	2.11
Plastic	1.79
Mixed-Metal & Nonmetal	1.09
Mixed Metal	0.79
Uncategorized	0.69
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 – 93%

The data provided above was based on the product configuration as provided by the individual product group.

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

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

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