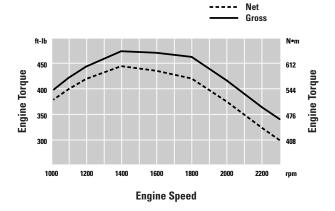
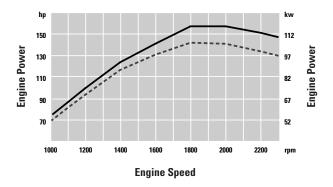
Engine

Model	Cat 3056E DIT ATAAC		
Flywheel Power	97.8 kW	131 hp	
Max. Flywheel Power	107 kW	144 hp	
Caterpillar	98 kW	131 hp	
ISO 9249 (1997)	98 kW	131 hp	
EEC 80/1269	98 kW	131 hp	
SAE J1349:90	98 kW	131 hp	
Bore	100 mm	3.94 in	
Stroke	127 mm	5 in	
Displacement	6 L	366 in ³	

- · Ratings at 2300 RPM.
- Net power shown is the power available at the flywheel when the engine is equipped with air cleaner, fan, muffler and alternator.
- No derating required up to 3000 m (9,843 ft) altitude.
- Auto Derate protects the engine, hydraulic and transmission systems.
- The Caterpillar 3056E DIT ATAAC engine meets Tier 2 off-highway emission regulations.
- · Features:
- Electronically controlled rotary fuel pump
- Three-ring, controlled expansion, lubricated pistons
- Gear-driven water and oil pumps
- One-piece cast iron cylinder heads with two valves per cylinder
- Fuel priming pump and fuel/water separator
- S•0•S sampling port for engine oil
- Replaceable dry liners
- Cast aluminum valve cover
- Radiator is easily accessed for cleaning

Engine Torque





Weights

Operating Weight 12 134 kg 26,751 lb

 Specifications shown are the IT28G with optional counterweight, standard lubricants, full fuel tank, ROPS cab, 2.0 m³ (2.6 yd³) bucket with bolt-on cutting edge, 80 kg (176 lb) operator and 20.5 - 25 12PR (L2) tires.

Steering

Minimum turning radius	5233 mm	206 in
(over tire)		
Steering angle, each direction	40°	
Steering cylinders, two, bore	69.9 mm	2.75 in
Hydraulic output at 2300 engine	104 L/min	27 gal/min
rpm and 6900 kPa (1000 psi)		
Maximum working pressure	20 700 kPa	3,000 psi

- · Fully hydraulic power steering.
- Center-point frame articulation.
- Front and rear wheels track.
- Separate variable displacement piston pump provides steering power at all engine and ground speeds.
- · Tilt steering console.
- · High-impact rubber steering stops.
- Secondary steering system available to meet roading regulations in various countries, and to meet ISO 5010.

Loader Hydraulic System					
Output at 2300 engine rpm and	151.6 L/min	40.3 gal/min			
6900 kPa (1000 psi) with SAE 10W oil at 65°C (150°F)					
Hydraulic cycle time:					
Raise	6.1 Seconds	;			
Dump	1.4 Seconds	1			
Lower, empty, float down	2.8 Seconds				
Total	10.3 Second	s			
Relief valve setting	22 100 kPa	3,200 psi			
Lift cylinders, double acting:					
Bore	120.6 mm	4.75 in			
Stroke	685 mm	27 in			
Tilt cylinder, double acting:					
Bore	101.6 mm	4 in			
Stroke	755 mm	29.7 in			

- · Open-centered system.
- · Fixed displacement vane-type implement pump.
- · Low effort, hydraulic joystick controls.
- Electronic pilot shut-off switch disables implement functions for added safety.
- Hydraulic couplings with 0-ring face seals.
- · Optional heavy-duty oil cooler.
- Improved Ride Control System available to provide improved ride with less spillage from bucket during load & carry operations and better hard bank capability.

Service Refill Capacities									
Fuel tank	216 L	57.1 gal							
Cooling system	42 L	11.1 gal							
Crankcase	21 L	5.5 gal							
Transmission	34.5 L	9.1 gal							
Differentials and final drives:									
Front	26 L	6.9 gal							
Rear	25 L	6.6 gal							
Hydraulic system (including tank)	125 L	33 gal							
Hydraulic tank	70 L	18.5 ga							

Transmission

Standard transmission, max travel speeds:							
Forward 1	7.9 kph	4.9 mph					
Forward 2	12.6 kph	7.8 mph					
Forward 3	25.8 kph	16 mph					
Forward 4	37.7 kph	23.4 mph					
Reverse 1	7.9 kph	4.9 mph					
Reverse 2	12.6 kph	7.8 mph					
Reverse 3	25.8 kph	16 mph					

- Electronically-controlled Caterpillar countershaft transmission with full on-the-go directional and speed change capability.
- High-energy friction materials and thick reaction plates for better tolerance of heat.
- High-contact ratio spur gears are precision ground and heat treated for quiet, reliable operation.
- · Electronic autoshift is standard.
- Button on implement control lever allows downshifting on demand.
- Computer controlled modulation provides smoother transitions.

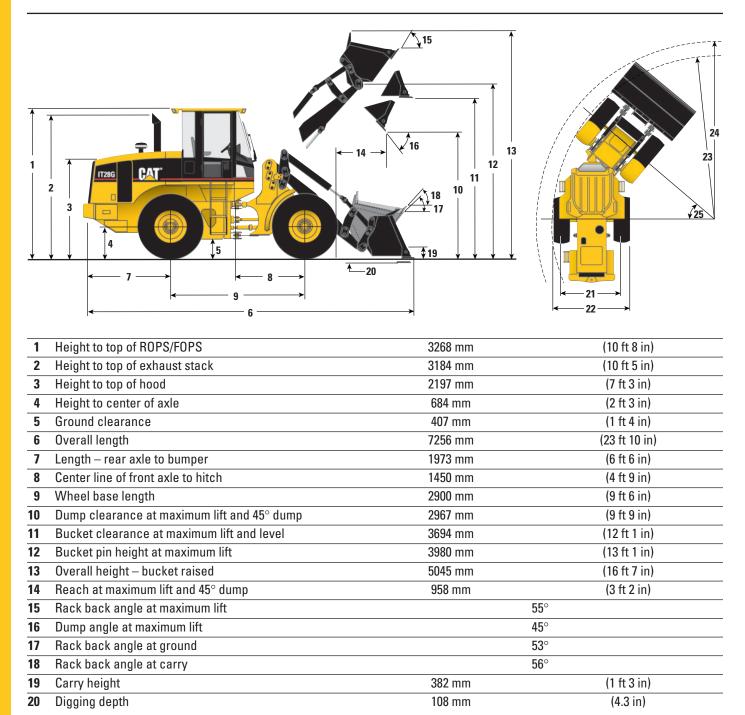
Axles

Features:

- Fixed front, oscillating rear (±11°) allows rear movement of 480 mm (18.9 in).
- Caterpillar axle with fully-enclosed brakes and final drives.
- Patented Duo-Cone Seals between axle and housing.
- Limited Slip Differentials are optional on front, rear or both axles.
- · Rear axle trunnion has remote lubrication fitting.
- Planetary final drives are lubricated from the main oil sump.
- High contact ratio gearset reduces noise levels during meshing.

Dimensions with Bucket

All dimensions are approximate. Dimensions vary with bucket. Refer to Operating Specifications chart.



Dimensions listed are for machines equipped with 20.5-25 12PR (L-2) tires and 1.8 m³ (2.3 yd³) general purpose bucket with bolt-on cutting edge. Refer to Operating Specifications for bucket variations.

		17.5-25 12P	R (L-2) Tires	20.5-25 12PR (L-2) Tires	
21	Overall width over tires	2427 mm	(96 in)	2537 mm	(100 in)
22	Width at tread center	1950 mm	(77 in)	1950 mm	(77 in)
23	Minimum turning radius over tire	5228 mm	(17 ft 2 in)	5233 mm	(17 ft 2 in)
24	Minimum turning radius over bucket	_	_	5662 mm	(18 ft 7 in)
25	Steering angle – left/right	4	40°		0 °
	Change in vertical dimension	–64 mm	(–2.5 in)	_	_

Operating Specifications with Bucket

			General Purpose Buckets						Waste/Ag			
			With Bolt-On With Bolt-On With Bolt-On Cutting Edge Teeth & Segments* Teeth*			On	With Bolt-On Cutting Edge					
	Rated bucket capacity (§)	m^3 yd^3	1.8 2.3	2.0 2.6	2.3 3.0	1.8 2.3	2.0 2.6	2.3 3.0	1.7 2.25	1.9 2.5	2.2 2.9	2.8 3.6
	Struck capacity (§)	m³ yd³	1.5 2.0	1.7 2.25	1.9 2.5	1.5 2.0	1.7 2.25	1.9 2.5	1.5 2.0	1.6 2.1	1.8 2.35	2.3 3.0
	Bucket width	mm ft/in	2549 8'4"	2549 8'4"	2549 8'4"	2549 8'4"	2549 8'4"	2549 8'4"	2532 8'4"	2532 8'4"	2532 8'4"	2550 8'4"
10	Dump clearance at full lift and 45° discharge (§)	mm ft/in	2967 9'9"	2911 9'7"	2849 9'4"	2855 9'4"	2799 9'2"	2737 8'11"	2855 9'4"	2799 9'2"	2737 8'11"	2860 9'5"
14	Reach at full lift and 45° discharge (§)	mm ft/in	958 3'2"	1014 3'4"	1021 3'4"	1052 3'5"	1109 3'8"	1116 3'8"	1052 3'5"	1109 3'8"	1116 3'8"	1222 4'0"
	Reach at 45° discharge and 2130 mm (7'0") clearance (§)	mm ft/in	1537 5'1"	1567 5'2"	1546 5'1"	1578 5'2"	1605 5'3"	1580 5'2"	1578 5'2"	1605 5'3"	1580 5'2"	1754 5'9"
	Reach with lift arms horizontal and bucket level	mm ft/in	2303 7'7"	2383 7'10"	2431 7'11"	2449 8'0"	2529 8'4"	2577 8'5"	2449 8'0"	2529 8'4"	2577 8'5"	2546 8'4"
20	Digging depth (§)	mm in	108 4.3"	108 4.3"	143 5.6"	122 4.8"	122 4.8"	156 6.1"	122 4.8"	122 4.8"	156 6.1"	112 4.4"
6	Overall length	mm ft/in	7256 23'10"	7336 24'1"	7435 24'5"	7402 24'3"	7482 24'7"	7496 24'7"	7380 24'3"	7460 24'6"	7496 24'7"	7504 24'7"
13	Overall height with bucket at full raise (§)	mm ft/in	5045 16'7"	5080 16'8"	5238 17'2"	5045 16'7"	5080 16'8"	5238 17'2"	5045 16'7"	5080 16'8"	5238 17'2"	5352 17'7"
24	Loader clearance radius with bucket in carry position (§)	mm ft/in	5662 18'7"	5680 18'8"	5770 18'11"	5712 18'9"	5731 18'10"	5831 19'2"	5712 18'9"	5731 18'10"	5831 19'2"	5845 19'2"
	Static tipping load straight (§) kg lb	8619 19,002	8530 18,805	8093 17,842	8532 18,810	8456 18,642	8014 17,668	8710 19,202	8628 19,022	8196 18,069	8351 18,411
	Static tipping load full 40° turn (§)	kg lb	7469 16,466	7388 16,288	6973 15,373	7381 16,272	7313 16,122	6894 15,199	7550 16,645	7476 16,482	7065 15,576	7214 15,904
	Breakout force (§)	kg lb	11 492 25,340	10 631 23,441	9640 21,253	11 419 25,179	10 567 23,300	9565 21,087	12 306 27,135	11 340 25,005	10 246 22,589	8889 19,597
	Operating weight	kg lb	12 116 26,711		12 312 27,143	12 185 26,863	12 194 26,883	12 374 27,280		12 109 26,696	12 288 27,090	12 178 26,848

Specifications shown are for machine with optional counterweight, standard lubricants, full fuel tank, ROPS cab, 80 kg (176 lb) operator and 20.5-25 12PR (L-2) tires.

^{*} Dimensions are measured to the tip of the bucket teeth to provide accurate clearance data. SAE standards specifies the cutting edge.

^(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers (SAE), including SAE Standards J732 JUN92 and J742 FEB85 governing loader ratings.