



Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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Diesel Engines – Lesser Regulated		
Make and Model	Cat [®] C32B	
Rated Speed	1,800 min ⁻¹	1,800 rpm
Gross Power – J1995:2014	776 kW	1,040 hp
Net Power – SAE J1349:2011	770 kW	1,032 hp
Net Power – ISO 9249:2007	774 kW	1,037 hp
No. of Cylinders	12	
Bore	145 mm	5.71 in
Stroke	162 mm	6.38 in
Displacement	32 L	1,959 in ³
Aspiration	Turbocharge aftercooled	d and air-to-air

- Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 2.
- Net power tested per SAE J1349 is the power available at the flywheel when the engine is equipped with alternator, cooling, air intake, and exhaust systems, with maximum fan losses.
- Net power tested per ISO 9249 is the power available at the flywheel when the engine is equipped with alternator, cooling, air intake, and exhaust systems, with minimum fan losses.

Diesel Engines – Highly Regulated

Make and Model	Cat C32B	
Rated Speed	1,800 min ⁻¹	1,800 rpm
Gross Power – J1995:2014	771 kW	1,033 hp
Net Power – SAE J1349:2011	761 kW	1,019 hp
Net Power – ISO 9249:2007	764 kW	1,024 hp
No. of Cylinders	12	
Bore	145 mm	5.71 in
Stroke	162 mm	6.38 in
Displacement	32 L	1,959 in ³
Aspiration	Turbocharge aftercooled	ed and air-to-air

• Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.

- Net power tested per SAE J1349 is the power available at the flywheel when the engine is equipped with alternator, cooling, air intake, and exhaust systems, with maximum fan losses.
- Net power tested per ISO 9249 is the power available at the flywheel when the engine is equipped with alternator, cooling, air intake, and exhaust systems, with minimum fan losses.

Electrical System

System Voltage	24 V
Batteries in Series/Parallel Installation	6 × 210 Ah – 12 V each
	630 Ah – 24 V in total

Operating Weights

Standard Track Pads	950 mm	3 ft 1 in
Operating Weight*	232 050 kg	511,583 lb
Ground Pressure	18.9 N/cm ²	27.4 psi

*Operating weights include: base machine, front attachment, standard track pads, standard rock bucket, 100% fuel and lubricants.

Service Refill Capacities

Fuel Tank Capacity	3277 L	865 gal
Hydraulic Oil Tank Capacity	2800 L	740 gal
Total Volume of Hydraulic Oil	3500 L	925 gal
Engine Oil	109 L	28.8 gal
Engine Coolant	165 L	43.6 gal
Pump Transmission Gearbox including Cooling Circuit	25 L	6.6 gal
Swing Gearbox	2 × 26 L	2×6.7 gal
Travel Gearbox	2 × 48 L	2 × 12.6 gal
Grease Tank Capacity	205 L	54 gal

Hydraulic System

Main Pumps	6 × variable s plate pumps	wash
Maximum Total Oil Flow	2350 L/min	621 gal/min
Maximum Swing Oil Flow	783 L/min	216 gal/min
Maximum Pressure, Attachment	310 bar	4,495 psi
Maximum Pressure, Travel	310 bar	4,495 psi

Hydraulic Oil Cooling	
Oil Flow of Cooling Pumps	800 L/min 211 gal/min
Diameter of Fans	1500 mm 4 ft 11 in
Fan Speed	Thermostatically controlled
Cooling System	Fully independent
Swing System	
Swing Drives	2 compact planetary transmissions with axial piston motors
Parking Brake	Wet multiple-disc brake, springloaded/hydraulically released
Maximum Swing Speed	4.2 rpm
Swing Ring	Triple-race roller bearing with sealed internal gearing
Swing Circuit	Open Loop with auto slow down when joysticks in neutral
Undercarriage	

5		
Travel Speed (two stages)		
1st Stage – Maximum	1.1 km/h	0.68 mph
2nd Stage – Maximum	2.4 km/h	1.49 mph
Maximum Tractive Force	1183 kN	265,900 lbf
Gradeability of Travel Drives	54% approx	ximate
Track Pads (each side)	45	
Bottom Rollers (each side)	8	
Support Rollers (each side)	3	
Travel Drives (each side)	1 planetary with 2 two- piston mote	e
Parking Brake	1	le-disc brake, ed/hydraulically

Operator Environment		
Operator's Eye Level – Approximately	5.5 m	18 ft 1 in
Internal Dimensions of Cab		
Length	2230 mm	7 ft 4 in
Width	1625 mm	5 ft 4 in
Height	2070 mm	6 ft 9 in
Spectator Sound Power Level (L _{WA}) ISO 6395:2008*	116 dB(A)	
Operator Sound Pressure Level (L _{PA}) ISO 6396:2008*	69 dB(A)	
Optional Sound Suppression		
Spectator Sound Power Level (L _{WA}) ISO 6395:2008*	114 dB(A)	
Operator Sound Pressure Level (L _{PA}) ISO 6396:2008*	67 dB(A)	
Operator Protective Guard (Top Guard)	ISO 10262:19	998 Level II
* Measurement was conducted at 70% of	of the maximu	m engine

* Measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurement was taken with the cab doors and windows closed.

NOTE: The dynamic sound power level and sound pressure level uncertainty is +/- 2 dB(A).

Air Conditioning System

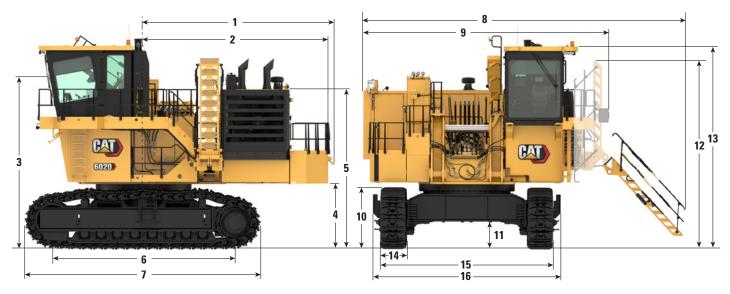
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 3.2 kg (7.05 lb) of refrigerant, which has a CO₂ equivalent of 4.576 t (5.044 U.S. tons) per engine.

Loading and Hauling System – Pass Match

	775	777	785
6020	3	4-5	6-7

Dimensions

All dimensions are approximate.

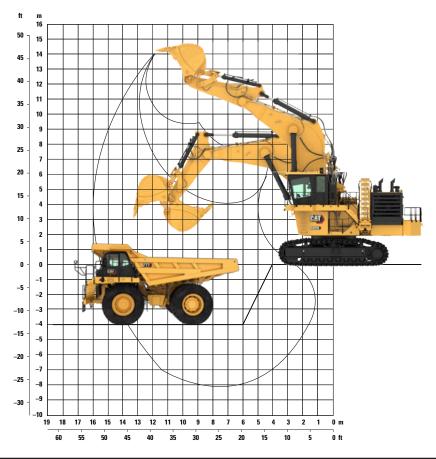


1	6045 mm	19 ft 10 in
2	5905 mm	19 ft 4 in
3	5500 mm	17 ft 11 in
4	2095 mm	6 ft 10 in
5	5750 mm	18 ft 10 in
6	5810 mm	19 ft 1 in
7	7520 mm	24 ft 8 in
8	9900 mm	32 ft 6 in

9	7955 mm	26 ft 1 in
10	1960 mm	6 ft 5 in
11	890 mm	2 ft 11 in
12	6430 mm	21 ft 1 in
13	6920 mm	22 ft 8 in
14	800 mm	2 ft 7 in
15	5500 mm	18 ft 1 in
16	6040 mm	19 ft 10 in

Working Range

All dimensions are approximate.



Boom	8.7	28 ft 7 in	Working Range		
Stick	3.9 m	12 ft 10 in	Maximum Digging Depth	8.1 m	26 ft 7 in
Digging Forces (ISO)			Maximum Digging Reach	15.9 m	52 ft 2 in
Maximum Tearout Force	650 kN	146,125 lbf	Maximum Digging Height	13.9 m	45 ft 7 in
Maximum Breakout Force	730 kN	164,050 lbf			

Backhoes								
Туре	Iron Ore Bucket		Heavy Rock Bucket		Standard Rock Bucket		Light Material Bucket	
Ground Engaging Tools (GET) System	Cat C85		Cat C85		Cat C85		Cat M75	
Capacity Heaped 1:1 (ISO 7451:2007)	9.0 m ³	11.8 yd ³	11.0 m ³	14.4 yd ³	12.0 m ³	15.7 yd ³	13.7 m ³	17.9 yd ³
Total Width	2826 mm	9 ft 3 in	3450 mm	11 ft 4 in	3450 mm	11 ft 4 in	3388 mm	11 ft 1 in
Inner Width	2376 mm	7 ft 10 in	3000 mm	9 ft 10 in	3000 mm	9 ft 10 in	3000 mm	9 ft 10 in
Number of Teeth	5		6		6		6	
Weight in Standard Configuration	10 850 kg	23,920 lb	12 330 kg	27,180 lb	12 740 kg	28,090 lb	12 271 kg	27,053 lb
Maximum Material Density (loose)	2.6 t/m ³	4,380 lb/yd3	2.0 t/m ³	3,370 lb/yd3	1.8 t/m ³	3,030 lb/yd3	1.65 t/m ³	2,780 lb/yd3

Standard and Optional Equipment

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

	Standard	Optional
CAT POWER TRAIN		
Cat C32B engine	\checkmark	
Aftertreatment system (used in Tier 4 Final/Stage V only): – Diesel Oxidation Catalyst (DOC) – NOx Reduction System (NRS) – Non-Diesel Exhaust Fluid (DEF) solution	~	
Air-to-Air After Cooling (ATAAC)	\checkmark	
Turbocharger	\checkmark	
Hydraulically driven radiator fan	\checkmark	
Electronically controlled fan speed	\checkmark	
Micro processed engine management	\checkmark	
Cat Clean Emission Module (CEM) air filters	\checkmark	
Two-stage fuel filter with series filtration	\checkmark	
High-capacity water separator	\checkmark	
Exhaust manifold and turbo heat shields	\checkmark	
Starting aid – automatic ether		\checkmark
Dual 24 V electric starters	\checkmark	
Automatic engine idle shut down	\checkmark	
Automatic fuel priming	\checkmark	
HYDRAULICS		
Hydraulic Optimization	\checkmark	
Cat Hydraulic Hose assemblies	\checkmark	
 Pump managing system with: Electronic load limit control Flow on demand Automatic zero flow regulation Automatic engine RPM reduction Reduced oil flow at high hydraulic oil or engine temperature 	~	
Pressure cut-off for main pumps	\checkmark	
Cooling of pump transmission gear oil	\checkmark	
Open loop swing circuit	\checkmark	
Pressure testing points	\checkmark	
Full-flow high-pressure filters (100 μm), main pumps	\checkmark	
Full-flow filters (10 µm), return circuit	✓	
Pressure filters (6 µm), servo circuit	\checkmark	
Transmission oil filters (40 µm)	\checkmark	
Full-flow filters (10 µm), cooling return circuit	\checkmark	
Boom float valve	\checkmark	

	Standard	Optional
ELECTRICAL SYSTEM		
6 batteries	\checkmark	
Lockable battery isolator switch	\checkmark	
Lockable starter isolator switch	\checkmark	
9 LED high-brightness working flood lights	√	
7 LED service lights	\checkmark	
Travel alarm – forward and reverse	\checkmark	
Electric Horn	\checkmark	
UNDERCARRIAGE		
Forged double-grouser track pads	\checkmark	
950 mm (3 ft 1 in) wide track pads	\checkmark	
750 mm (2 ft 4 in) wide track pads*		\checkmark
1200 mm (3 ft 9 in) wide track pads**		\checkmark
HD Fixed axle carrier and load rollers	\checkmark	
Automatic hydraulic retarder valve	\checkmark	
Undercarriage guard (belly plate)		\checkmark
Hinged travel motor covers	\checkmark	
Hardened running surfaces of sprockets, idlers, rollers, pad links, and teeth contact areas	√	
Fully hydraulic self-adjusting track tensioning system with piston accumulator	~	
AUTOMATIC LUBRICATION SYSTEM		
Grease filters (200 μm) *750 mm track pads result in an operating weight	✓	507.070 lb)

*750 mm track pads result in an operating weight of 230 003 kg (507,070 lb) and 23.6 N/cm² (34.3 psi) of ground pressure.

**1200 mm track pads result in an operating weight of 236 530 kg (521,459 lb) and 15.2 N/cm² (22.0 psi) of ground pressure.

(continued on next page)

Standard and Optional Equipment (continued)

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

	Standard	Optional
OPERATOR ENVIRONMENT		
Single HVAC System	\checkmark	
Dual HVAC system		\checkmark
In-floor window with removable grate	\checkmark	
Pneumatically cushioned and multi- adjustable comfort seat with: – Lumbar support – Head and arm rests – Safety switch for automatic motion shutdown	✓	
Independently adjustable seat consoles with integrated joysticks	\checkmark	
Electronic-Hydraulic Servo Control	\checkmark	
Elevated full-size trainer seat with 2-point safety belt and laptop desk	\checkmark	
Additional fold-away auxiliary seat with 2-point safety belt	\checkmark	
Three cup holders	\checkmark	
FM/AM radio with USB and Auxiliary input	\checkmark	
Parallel intermittent wiper/washer	\checkmark	
Roller blinds at all windows	\checkmark	
Monitoring system with 254 mm (10 in) color touchscreen	\checkmark	
Powered 45° access stairway	\checkmark	
One mirror on Left Hand (LH) side	\checkmark	
Camera Monitoring System 2.0 (right and rear cameras, 254 mm [10 in] HD color technology display, and harnesses)		~
Document storage	✓	
Control and Monitoring Platform (CAMP) 45°	\checkmark	
Cat Board Control system: - 254 mm (10 in) color touchscreen - On-screen troubleshooting assistance - On-screen graphic charts of logged data - Fault memory of related conditions - USB, LAN (TCP/IP) and CAN BUS interfaces for data export	~	
Sound Suppression - Spectator Sound Power Level (LWA) ISO 6395:2008* 114 dB(A) - Operator Sound Pressure Level (LPA) ISO 6396:2008* 67 dB(A)		✓

*Measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurement was taken with the cab doors and windows closed.

NOTE: The dynamic sound power level and sound pressure level uncertainty is $\pm 2 \mbox{ dB}(A).$

	Standard	Optional
FRONT ATTACHMENT		
Backhoe attachment		\checkmark
Frontless base machine (no boom, no stick, no linkage or kinematics)		~
Internal service access in boom	\checkmark	
Boom and stick thermally stress relieved after welding	~	
Catwalks with rails at boom	\checkmark	
Wear Package (as per bucket selection)	\checkmark	
CAT TECHNOLOGY		
Cat Product Link [™] Elite (Cellular)		\checkmark
Cat Product Link Elite (Satellite)		\checkmark
Cat Product Link Elite (Dual)		\checkmark
Cat Product Link Elite (No radio)		\checkmark
Cat Minestar [™] Solutions Ready	\checkmark	

(continued on next page)

Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
COLD WEATHER OPTIONS			SAFETY AND SECURITY		-
Cold Weather Package (400 V, 50 Hz): – Engine coolant heater – Engine oil heater with thermostat		✓	Emergency stop switches in cab, engine module, 1 pull rope accessible from ground	√	
-Hydraulic oil heater with thermostat			Operator Protective Guard (Top Guard)	\checkmark	
 External power source required, Recommended for temperatures 			All-round safety glass	\checkmark	
$-10^{\circ} \text{ C} (14^{\circ} \text{ F})$			Emergency egress ladder	\checkmark	
Cold Weather Package (208 V, 60 Hz):		\checkmark	MISCELLANEOUS		
 Engine coolant heater Engine oil heater with thermostat Hydraulic oil heater with thermostat External power source required, Recommended for temperatures -10° C (14° F) 			ISO or American National Standards Institute (ANSI) decals	✓	
SERVICE AND MAINTENANCE					
Engine oil exchange interval – 500 hours	√				
Hydraulic oil exchange interval – 10,000 hours	√				
Scheduled Oil Sampling (S·O·S SM) ports	\checkmark				
Ground level service station with quick couplings for: - Diesel fuel - Engine coolant - Pump transmission gear oil - Engine oil - Hydraulic oil - Grease	~				
Cat battery charging connector	\checkmark	<u> </u>			
Dirt wiper at swivel		✓			
Indicator lights	√				
Cat CEM air filters with precleaner dust ejection system	\checkmark				



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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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AEXQ3642-01 (12-2024) Replaces AEXQ3642-00 Build Number: 04B (Global)

