

6030
Hydraulic Shovel

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	2 × Cat C27	
Rated Speed	1,800 min ⁻¹	1,800 rpm
Total Rated Gross Power – SAE J1995*	1141 kW	1,529 hp
Total Rated Net Power – SAE J1349	1125 kW	1,508 hp
Total Rated Net Power – ISO 9249	1128 kW	1,511 hp
No. of Cylinders (each engine)	12	
Bore	137.7 mm	5.42 in
Stroke	152.4 mm	6.0 in
Displacement	27 L	1,648 in ³
Aspiration	Turbocharge air-to-air aft	

- Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 2.
- * Excludes all fan losses.

Diesel Engines – Highly Regulated			
Make and Model	2 × Cat C27		
Rated Speed	1,800 min ⁻¹	1,800 rpm	
Total Rated Gross Power – SAE J1995*	1209 kW	1,620 hp	
Total Rated Net Power – SAE J1349	1192 kW	1,597 hp	
Total Rated Net Power – ISO 9249	1194 kW	1,600 hp	
No. of Cylinders (each engine)	12		
Bore	137.7 mm	5.42 in	
Stroke	152.4 mm	6.0 in	
Displacement	27 L	1,648 in ³	
Aspiration	Turbocharge air-to-air aft		

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- * Excludes all fan losses.

Electrical System	
System Voltage	24 V
Batteries in Series/Parallel Installation	4 × 210 Ah – 12 V each 420 Ah – 24 V

Operating Weights		
6030 with TriPower TM Face Shovel Attachment (FS)		
Standard Track Pads	1000 mm	3 ft 3 in
Operating Weight*	294 300 kg	648,810 lb
Ground Pressure	21.9 N/cm ²	31.7 psi
6030 with Backhoe Attachment (BH	H)	
Standard Track Pads	1000 mm	3 ft 3 in
Operating Weight*	296 500 kg	653,660 lb
Ground Pressure	22.1 N/cm ²	32.0 psi

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

Service Refill Capacities		
Fuel Tank Capacity	2 × 2540 L	2 × 671 gal
Hydraulic Oil Tank Capacity	2500 L	660 gal
Total Volume of Hydraulic Oil	3500 L	925 gal
Engine Oil	2 × 99 L	2 × 26.2 gal
Engine Oil Expansion Tank (option)	2 × 260 L	2 × 68.7 gal
Engine Coolant	2 × 150 L	2 × 39.6 gal
Pump Transmission Gearbox including Cooling Circuit	2 × 25 L	2 × 6.6 gal
Pump Pre-Chambers at Pump Transmission Gearbox	2 × 6 L	2 × 1.6 gal
Swing Gearbox	2 × 38 L	2 × 10 gal
Travel Gearbox	2 × 94 L	2 × 24.8 gal
Grease Tank Capacity	450 L	119 gal
Hydraulic System		

Hydraulic System		
Main Pumps	4 × variable swash plate pumps	
Maximum Oil Flow	4 × 552 L/min	4 × 146 gal/min
Maximum Pressure, Attachment	310 bar	4,495 psi
Maximum Pressure, Travel	360 bar	5,220 psi
Swing Pumps	2 × reversible swash plate double pumps	
Maximum Oil Flow	4 × 197 L/min	4 × 52 gal/min
Maximum Pressure	350 bar	5,080 psi

Oil Flow of Cooling Pumps	2 × 467	2 × 123
3 F	L/min	gal/min
Number of Fans	2	
Diameter of Fans	1220 mm	48 in
Fan Speed	Thermostatically controlled	
Cooling System	Fully indep	endent
Swing System		
Swing Drives	2 compact p transmissio piston moto	ns with axial
Parking Brakes	Wet multiple-disc brake, spring-loaded/hydraulically released	
Maximum Swing Speed	4.6 rpm	
Swing Ring	Triple-race roller bearing with sealed internal gearing	
Swing Circuit	Closed-loop with torque control	
Undercarriage		
Travel Speed (2 stages)		
1st Stage – Maximum	1.4 km/h	0.87 mph
2nd Stage – Maximum	2.7 km/h	1.68 mph
Maximum Tractive Force	1637 kN	367,880 lbf
Gradeability of Travel Drives	64% approx	kimate
Track Pads (each side)	44	
Bottom Rollers (each side)	7	
Support Rollers (each side)	2 plus a skid plate in between	
Travel Drives (each side)	1 planetary with 2 two- piston moto	-

spring loaded/hydraulically

released

Operator Environment		
Operator's Eye Level – Approximately	6.5 m	21 ft 4 in
Internal Dimensions of Cab		
Length	2200 mm	7 ft 3 in
Width	1600 mm	5 ft 3 in
Height	2150 mm	7 ft 1 in
Spectator Sound Power Level (L _{WA})* ISO 6395:2008	114.9 dB(A)	
Operator Sound Pressure Level (L _{PA})* ISO 6396:2008	78 dB(A)	
Operator Protective Guard (Front and Top Guards)	ISO 10262:19	998 Level II
* Measurement was conducted at 70%	of the maximu	ım 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).

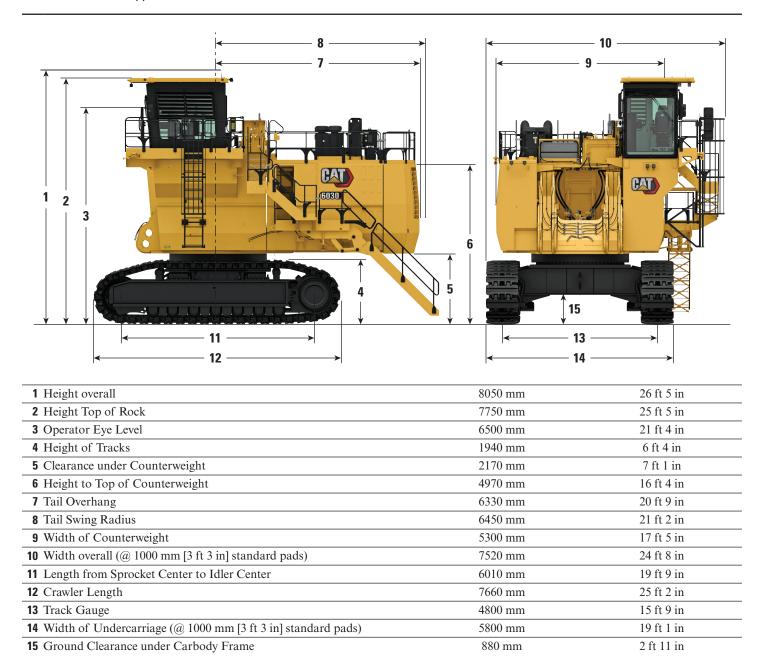
Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.8 kg (6.2 lb) of refrigerant, which has a CO_2 equivalent of 4.004 t (4.4136 U.S. tons) per engine.

Optimal Pass Match with Cat Mining Trucks				
777G 785G 789				
	91 t (100 ton)	136 t (150 ton)	181 t (200 ton)	
6030	3	5	6	

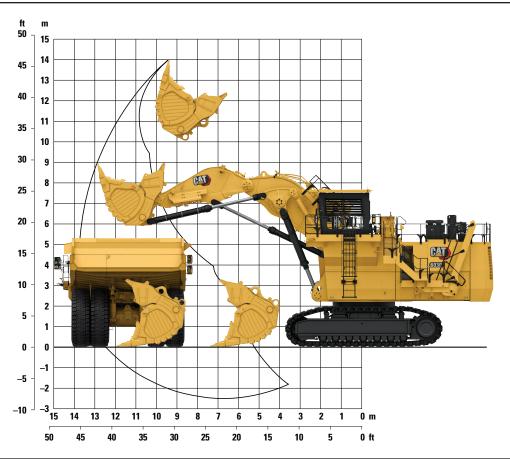
Dimensions

All dimensions are approximate.



Working Range – TriPower Face Shovel Attachment (FS)

All dimensions are approximate.



Boom	6.2 m	20 ft 4 in
Stick	4.4 m	14 ft 5 in
Digging Forces (ISO)		
Maximum Crowd Force	1298 kN	291,700 lbf
Maximum Crowd Force at Ground Level	1215 kN	273,050 lbf
Maximum Breakout Force	954 kN	214,390 lbf

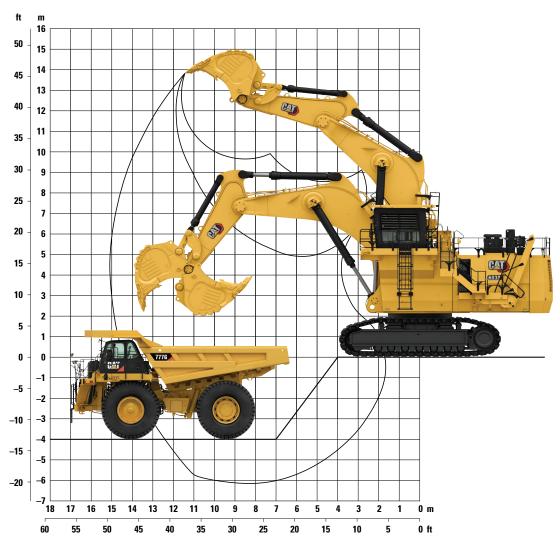
13.9 m	45 ft 7 in
13.7 m	44 ft 11 in
2.5 m	8 ft 2 in
10.7 m	35 ft 1 in
4.9 m	16 ft 1 in
	13.7 m 2.5 m 10.7 m

Face Shovel Options								
Туре	Heavy Rock Bucket		Heavy Rock Bucket		Heavy Rock Bucket		Standard Rock Bucket	
Capacity Heaped 2:1 (ISO 7546)	12.0 m³	15.7 yd³	13.5 m ³	17.7 yd³	15.0 m ³	19.6 yd³	16.5 m ³	21.6 yd³
Total Width	3935 mm	154.9 in	3935 mm	154.9 in	3935 mm	154.9 in	3935 mm	154.9 in
Opening Width	1706 mm	67.2 in	1706 mm	67.2 in	1706 mm	67.2 in	1706 mm	67.2 in
G.E.T. System	C95		C95		C95		C95	
Number of Teeth		6		6		6		6
Wear Package	Heavy Duty	y – Abrasion	Heavy Duty	y – Abrasion	Heavy Duty	y – Abrasion	Heavy Du	ty – Impact
Weight including Heaviest Tip Option	26 036 kg	57,400 lb	26 942 kg	59,397 lb	27 177 kg	59,915 lb	27 516 kg	60,662 lb
Maximum Material Density (loose)	2.6 t/m³	4,380 lb/yd³	2.2 t/m³	3,710 lb/yd³	2.0 t/m³	3,370 lb/yd ³	1.8 t/m³	3,030 lb/yd³

Additional bucket capacities and wear packages are available upon request.

Working Range – Backhoe Attachment (BH)

All dimensions are approximate.



Boom	8.5 m	27 ft 11 in
Stick	4.0 m	13 ft 1 in
Digging Forces (ISO)		
Maximum Tearout Force	944 kN	212,150 lbf
Maximum Breakout Force	880 kN	197,760 lbf

Working Range		
Maximum Digging Height	13.8 m	45 ft 3 in
Maximum Digging Reach	15.1 m	49 ft 6 in
Maximum Digging Depth	6.2 m	20 ft 4 in

Backhoe Options								
Туре	Heavy Rock Bucket		Heavy Rock Bucket		Standard Rock Bucket		Light Duty Bucket	
Capacity Heaped 1:1 (ISO 7451)	12.0 m ³	15.7 yd³	15.0 m ³	19.6 yd³	17.0 m ³	22.2 yd³	18.0 m ³	23.5 yd³
Total Width	3520 mm	138.6 in	3950 mm	155.5 in	4240 mm	166.9 in	4430 mm	174.4 in
G.E.T. System	C85		C85		C85		C85	
Number of Teeth	5		5		6		6	
Wear Package	Heavy Duty – Abrasion		Heavy Duty – Abrasion		Heavy Duty - Impact		Light Duty	
Weight including Heaviest Tip Option	15 706 kg	34,626 lb	17 255 kg	38,041 lb	19 082 kg	42,069 lb	19 413 kg	42,798 lb
Maximum Material Density (loose)	2.6 t/m³	4,380 lb/yd ³	2.0 t/m³	3,370 lb/yd ³	1.8 t/m³	3,030 lb/yd ³	1.65 t/m ³	2,780 lb/yd

Additional bucket capacities and wear packages are available upon request.

6030 Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
CAT POWER TRAIN		
2 × Cat C27 engines	✓	
Aftertreatment system (used in HRC only): – Diesel Oxidation Catalyst (DOC) – NO _x Reduction System (NRS) – Non-DEF solution	√	
Air-to-Air After Cooling (ATAAC)	✓	
Turbocharger	✓	
Advanced Combustion Emissions Reduction Technology	✓	
Hydraulically driven radiator fan	✓	
Electronically controlled fan speed	✓	
Micro processed engine management	✓	
Heavy-duty air filters	✓	
Two-stage fuel filter with series filtration	✓	
High-capacity water separator	✓	
Starting aid – automatic ether	✓	
Exhaust manifold and turbo heat shields	✓	
24 V electric starter	✓	
Automatic engine idle shut down	✓	
HYDRAULICS		
Cat pump managing system with: - Electronic load limit control - Flow on demand - Automatic zero flow regulation - Automatic engine RPM reduction	✓	
Pressure cut-off for main pumps	✓	
Cooling of pump transmission gear oil	✓	
Closed loop swing circuit	✓	
Pressure testing points	✓	
Full-flow high-pressure filters (100 μm), main pumps	✓	
High pressure filters (100 μm), closed swing circuit	✓	
Full-flow filters (10 μm), return circuit	✓	
Full-flow filters (10 μm), cooling return circuit	✓	
Pressure filters (40 μm and 6 μm), servo circuit	✓	
Transmission oil filters (40 μm)	✓	
Boom float valves	✓	

	Standard	Optional
ELECTRICAL SYSTEM		
4 maintenance-free batteries	✓	
Battery isolation relays	✓	
Lockable battery isolator switch	✓	
Lockable starter isolator switch	✓	
14 LED high-brightness working flood	✓	
11 LED service lights	✓	
2 electric horns (1 cab module, 1 oil cooler module)	✓	
UNDERCARRIAGE		
HD tracks with cast double-grouser track pads	✓	
800 mm (2 ft 7 in) wide track pads		✓
1000 mm (3 ft 3 in) wide track pads	✓	
1200 mm (3 ft 11 in) wide track pads		✓
Belly plate for additional undercarriage protection		✓
HD fixed axle rollers	✓	
HD fixed axle idlers	✓	
Automatic hydraulic retarder valve	✓	
Acoustic travel alarm (forward and reverse)	✓	
Hinged travel motor covers	✓	
Hardened running surfaces of sprockets, idlers, rollers, pad links, teeth contact areas	√	
Fully hydraulic self-adjusting track tensioning system with piston accumulators	√	
AUTOMATIC LUBRICATION SYSTEM		
Rectangular grease container, 450 L (120 gal) capacity (fill via service station)	√	
Round grease container, 200 L (53 gal) capacity (insert barrel or fill via service station)		✓
Lubricated pinion in swing ring	✓	
Grease filters (200 µm)	✓	
	(continued on	next page)

6030 Standard and Optional Equipment

Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optio
OPERATOR ENVIRONMENT			FRONT ATTACHMENT		
Single HVAC system	✓		TriPower Face Shovel attachment:		✓
Dual HVAC system		✓	-Horizontal automatic constant-angle		
Pneumatically cushioned and multi- adjustable comfort seat with: - Seat heating - Lumbar support - 2-point safety belt - Head and arm rests	✓		bucket guidance - Vertical automatic constant-angle bucket guidance - Automatic roll-back limiter to prevent material spillage - Kinematic assistance to hydraulic forces		
Independently adjustable seat consoles with integrated joysticks	✓		- Constant boom momentum throughout the whole lift arc		
Electronic-Hydraulic Servo Control	✓		-Crowd force assistance		
FM/AM radio with USB and AUX input	✓		Guards for shovel cylinders at FS stick	✓	
Fold-away auxiliary seat with 2-point	✓		Backhoe attachment		•
safety belt Sliding side window	✓		Frontless base machine (no boom, no stick, no linkage or kinematics)		٧
Parallel intermittent wiper/washer	✓		Service access holes in boom and stick (FS and BH)	✓	
Roller blinds at all windows	✓			√	
External sun shields at side and rear windows	✓		Boom and stick thermally stress relieved after welding	v	
Cat Board Control system:	✓		Catwalks with rails at boom (FS and BH)	✓	
-305 mm (12 in) color touchscreen			CAT TECHNOLOGY		
-On-screen documentation in .pdf			Cat Product Link™ Elite (Cellular)	\checkmark	
On-screen troubleshooting assistanceOn-screen graphic charts of			Cat Product Link Elite (Satellite)		٧
logged data			Cat Product Link Elite (No radio)		٧
- Fault memory of related conditions			Cat MineStar TM Solutions Ready		٧
-USB, LAN (TCP/IP) and CAN BUS			COLD WEATHER		
interfaces for data export Control and Monitoring Platform (CAMP)	✓		Cold Weather Package (400 V, 50 Hz): - Auxiliary heating system for cab - Fuel preheater		V
45° stairway from engine bay to operator cab	✓		Engine coolant tank heaterEngine oil heater with thermostat		
2 heated mirrors on LH side	✓		-Hydraulic oil heater with thermostat		
Camera monitoring system (two cameras and additional color display)		✓	- External power source required, ca 50 kW, 400 V three phase, 50 Hz		
Level indicators for length- and crosswise inclination	✓		Cold Weather Package (208 V, 60 Hz): - Auxiliary heating system for cab - Fuel preheater		٧
Document storage	✓		- Engine coolant tank heater - Engine oil heater with thermostat - Hydraulic oil heater with thermostat - External power source required,		

(continued on next page)

ca 50 kW, 208 V three phase, 60 Hz $\,$

6030 Standard and Optional Equipment

Standard and Optional Equipment (continued)

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

	Standard	Optional
SERVICE AND MAINTENANCE		
Engine oil exchange interval – 500 hours	✓	
Engine oil exchange interval –		✓
1,000 hours		
Hydraulic oil change interval –	✓	
10,000 hours		
S·O·S SM sampling ports	✓	
Retractable ground level service station	✓	
with quick couplings for:		
-Diesel fuel		
 Engine coolant – left/right engines 		
Pump transmission gear oil –		
left/right engines		
Engine oil – left/right engines		
Hydraulic oil		
- Grease		
Cat battery charging connector	\checkmark	
Indicator lights for fuel tanks and grease	✓	

	Standard	Optional
SAFETY AND SECURITY		
Emergency stop switches: 1 in cab, 3 in engine module, 1 pull rope accessible from ground level	✓	
Operator Protective Guard (Front Guard)		✓
Operator Protective Guard (Top Guard)	✓	
All-round safety glass	✓	
Armored windshield	✓	
Hydraulically operated 45° access stairway	✓	
Emergency egress ladder	✓	
MISCELLANEOUS		
ISO or ANSI decals	✓	



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