

R2900G Underground Mining Loader

Technical Specifications

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

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Engine		
Engine Model	Cat® C15	
Rated Power	1,800 rpm	
Engine Power – VR Engine – ISO 14396:2002	299 kW	401 hp
Engine Power – Tier 3 Engine – ISO 14396:2002	299 kW	401 hp
Bore	137.2 mm	5.4 in
Stroke	171.5 mm	6.8 in
Displacement	15.2 L	927.9 in ³

- Power ratings apply at a rated speed of 1,800 rpm when tested under the reference conditions for the specified standard.
- All rating conditions are based on ISO/TR14396:2002, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (0.295 in Hg), and 25° C (77° F). Performance measured using fuel to EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15° C (7.05-7.09 lb/gal @ 59° F) and fuel inlet temperature 40° C (104° F).
- No engine derating required up to 591 m (1,938 ft) altitude.
- Optional Ventilation Reduction Package available.
- Optional Tier 3 engine package emits equivalent to U.S. EPA Tier 3 and EU Stage IIIA.

Operating Specifications		
Rated Payload	17 200 kg	37,920 lb
Gross Machine Mass	70 350 kg	155,095 lb
Static Tipping Load Straight Ahead Lift Arms Horizontal	39 923 kg	88,015 lb
Static Tipping Load Full Turn Lift Arms Horizontal	34 069 kg	75,109 lb
Breakout Force (SAE)	27 346 kg	60,298 lb
Weights		

Weights		
Operating Mass*	50 209 kg	110,692 lb
Front Axle	23 057 kg	50,832 lb
Rear Axle	27 152 kg	59,860 lb
Operating Mass + Rated Payload*	67 409 kg	148,611 lb
Front Axle	50 220 kg	110,716 lb
Rear Axle	17 189 kg	37,895 lb

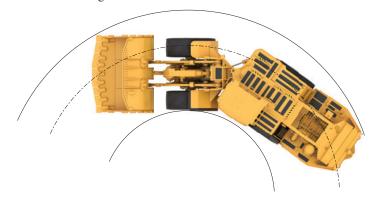
^{*}Calculated weight.

Transmission		
Forward 1	5.4 km/h	3.4 mph
Forward 2	9.7 km/h	6.0 mph
Forward 3	17.3 km/h	10.7 mph
Forward 4	29.8 km/h	18.5 mph
Reverse 1	6.6 km/h	4.1 mph
Reverse 2	11.8 km/h	7.3 mph
Reverse 3	21.0 km/h	13.0 mph
Reverse 4	35.5 km/h	22.0 mph

Hydraulic Cycle Time	
Raise	9.2 Seconds
Dump	3.4 Seconds
Lower, Empty, Float Down	3.1 Seconds
Total Cycle Time	15.7 Seconds

Bucket Capacities		
Dump Bucket – 1	6.3 m ³	8.2 yd ³
Dump Bucket – 2	7.2 m ³	9.4 yd³
Dump Bucket – 3	8.3 m ³	10.9 yd³
Dump Bucket – 4	8.9 m ³	11.6 yd³

Turning Dimensions			
Outside Clearance Radius	7323 mm	288.3 in	_
Inner Clearance Radius	3383 mm	133.2 in	
Axle Oscillation	8°		
Articulation Angle	42.5°		

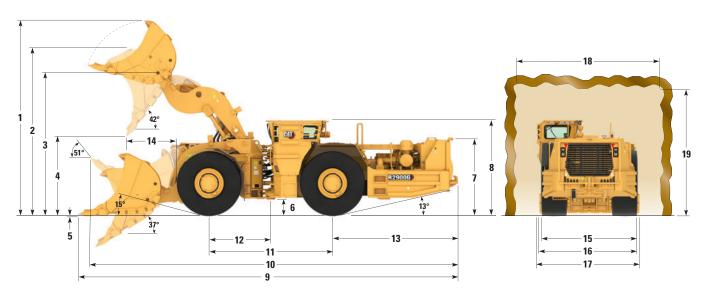


Tires		
Tire Size	29.5 × 29	
Service Refill Capacities		
Engine Crankcase	34 L	9 gal
Transmission	62 L	16.4 gal
Hydraulic Tank	140 L	37 gal
Cooling System	75 L	19.8 gal
Front Differential and Final Drives	119 L	31.4 gal
Rear Differential and Final Drives	127 L	33.5 gal
Front Differential and Final Drives (with Axle Oil Cooling System)	159 L	42 gal
Rear Differential and Final Drives (with Axle Oil Cooling System)	167 L	44.1 gal
Fuel Tank (Dual)	1425 L	376.4 gal

Brakes	ISO 3450, AS2958.1, CAN-CSA424.30-M90
Cab/Falling Object Protective	ISO 3449, SAE J231,
Structure (FOPS)	AS2294.3, EN13627
Cab/Rollover Protective	ISO 3471, SAE J1040,
Structure (ROPS)	AS2294.2, EN13510

Dimensions

All dimensions are approximate.

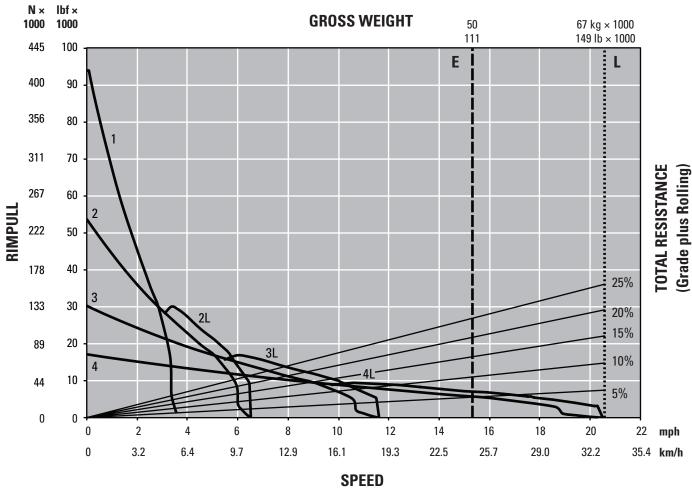


		8806 Bucket		4899 Bucket		4892 Bucket		4893 Bucket
Bucket Capacity	6.3 m ³	8.2 yd ³	7.2 m^3	9.4 yd ³	8.3 m ³	10.9 yd ³	8.9 m ³	11.6 yd ³
	mm	in	mm	in	mm	in	mm	in
Bucket Width over Cutting Edge	3054	120.2	3054	120.2	3154	124.2	3354	132.0
1 Height – Bucket Raised	6014	236.8	6179	243.3	6232	245.4	6232	245.4
2 Height – Max Dump	5427	213.7	5427	213.7	5427	213.7	5427	213.7
3 Height – Max Lift Bucket Pin	4539	178.7	4539	178.7	4539	178.7	4539	178.7
4 Height – Dump Clearance at Max Lift	2868	112.9	2868	112.9	2735	107.7	2724	107.2
5 Height – Digging Depth	52	2.0	52	2.0	65	2.6	65	2.6
6 Height – Ground Clearance	465	18.3	465	18.3	465	18.3	465	18.3
7 Height – Top of Hood	2371	93.3	2371	93.3	2371	93.3	2371	93.3
8 Height – Top of ROPS	2886	113.6	2886	113.6	2886	113.6	2886	113.6
9 Length – Overall (Digging)	11 302	445.0	11 302	445.0	11 507	453.0	11 525	453.7
10 Length – Overall (Tramming)	10 949	431.1	10 949	431.1	11 073	435.9	11 083	436.3
11 Length – Wheelbase	3780	148.8	3780	148.8	3780	148.8	3780	148.8
12 Length – Front Axle to Hitch	1890	74.4	1890	74.4	1890	74.4	1890	74.4
13 Length – Rear Axle to Bumper	3572	140.6	3572	140.6	3572	140.6	3572	140.6
14 Length – Reach	1656	65.2	1656	65.2	1803	71.0	1817	71.5
15 Width – Overall Tire	2898	114.1	2898	114.1	2898	114.1	2898	114.1
16 Width – Machine without Bucket	3010	118.5	3010	118.5	3010	118.5	3010	118.5
17 Width – Machine with Bucket	3176	125.0	3176	125.0	3272	128.8	3472	136.7
18 Recommended Clearance Width	4500	177.2	4500	177.2	4500	177.2	4500	177.2
19 Recommended Clearance Height	4500	177.2	4500	177.2	4500	177.2	4500	177.2

Gradeability/Speed/Rimpull

To determine gradeability performance: Read from gross weight down to the percent of total resistance. Total resistance equals actual percent grade plus rolling resistance. As a general guide use 2% for rolling resistance in underground applications or refer to the Caterpillar Performance Handbook. From the total resistance point, read horizontally to the curve with the highest obtainable gear, then down to maximum speed. Usable rimpull will depend upon traction available and weight on drive wheels.

———— Typical Field Empty Weight
..... Loaded Weight



KEY

1 - 1st Gear

2 - 2nd Gear

2L - 2nd Gear (Lockup Clutch)

3 - 3rd Gear

3L - 3rd Gear (Lockup Clutch)

4 - 4th Gear

4L - 4th Gear (Lockup Clutch)

KEY

E – Empty 50 209 kg (110,692 lb)

L - Loaded 67 409 kg (148,611 lb)

R2900G Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
POWER TRAIN		
Brakes, full hydraulic enclosed wet multiple-disc (SAFR)	✓	
Engine		
- Cat C15 six cylinder diesel	✓	
– Air-to-air aftercooler (ATAAC)	✓	
Engine Options		
– Engine, Ventilation Reduction (VR)		✓
- VR engine, Flow Thru Ready		✓
– Engine, Tier 3		✓
Exhaust		
– Particulate filter, Flow Thru		✓
- Particulate filter, Wall Flow		✓
– Exhaust, purifier, muffler	✓	
Filter, engine, remote mounted	✓	
Fuel adapters		
Standard fill, dual, rubber coated, double steel braided fuel lines	✓	
Standard fill, dual, stainless steel covered, single braided fuel lines		✓
Fast fill, dual, rubber coated, double steel braided fuel lines		✓
Fast fill, dual, stainless steel covered, single braided fuel lines		✓
Fuel priming pump	✓	
Park Brake Switch Engagement (choose between): - Push to Apply - Pull to Apply	✓	
Pre-cleaner, engine air intake	✓	
Secondary Steering System		✓
Torque converter, lock-up clutch (LUC)	✓	
Transmission		
- Electronic Clutch Pressure Control (ECPC)	✓	
– Auto planetary powershift (4F/4R)	✓	
- Transmission neutralizer	✓	

	Standard	Option
LECTRICAL		
Alarm, reversing	✓	
Alternator, 95 amp	✓	
Battery disconnect switch, ground level	✓	
Battery disconnect switch, in cab		✓
Batteries, low maintenance	✓	
Diagnostic connector	✓	
Engine shutdown switch	✓	
Lighting		
- External, front, rear, stop light, dual halogen	✓	
 Cat LED work lights 		✓
- Truck loading light		✓
Receptacle Group, auxiliary start	✓	
Starter, electric, 24-volt	✓	
Starting and charging system	✓	
PERATOR ENVIRONMENT		
Automatic Brake Application (ABA)	✓	
Cab		
Cab, enclosed, ROPS/FOPS		✓
- Cab, open, ROPS/FOPS	✓	
Camera, color rear facing		✓
Caterpillar Electronic Monitoring System (CEMS), dash instrumental panels	✓	
Duct, air, flow diverter		✓
Horns, electric	✓	
Idle timer (enclosed cab)		✓
Instrumentation/gauges		
- Speedometer/tachometer	✓	
– Fuel level	✓	
 Hydraulic oil temperature 	✓	
- Engine coolant temperature	✓	
– Brake pressure		✓
Operator presence system	✓	
Light, warning, residual brake	✓	
Mounting, ROPS	✓	
Pilot hydraulic implement controls (single joystick)	✓	
Seat		
- Seat, suspension, vinyl	✓	
- Seat, suspension, tee, vinyl		✓
– Seat, suspension, air, vinyl		✓
- Seat covers, tee, air and standard		✓
Seat belt, retractable	✓	

(continued on next page)

R2900G Standard and Optional Equipment

Standard and Optional Equipment (continued)

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

	Standard	Optional
ECHNOLOGY PRODUCTS		
Command for Underground*		✓
Vital Information Management System (VIMS) Gen 3		✓
Payload system, Loadrite		✓
Remote Control Interface (excludes transmitter and receiver) – RCT		✓
TIRES, RIMS, AND WHEELS		
Tires arrangements: tires must be selected from the Mandatory Attachments section, choose between: - Tire, 29.5 × R29 VSMS 2 Bridgestone - Tire, 29.5 × R29 VSDL L5 Bridgestone	✓	
Rims (set of four): five piece, tubeless	✓	
Rim identification numbering		✓
Spare rim (tubeless)		✓
THER STANDARD AND OPTIONAL EQUIPMEN	NT	
Brake axle cooling	✓	
Brake Release Arrangements		
- Recovery hook		✓
- Recovery bar		✓
Cap, radiator, manual release	✓	
Catalytic exhaust purifier/muffler	✓	
Dump bucket	✓	
Buckets		
- Various sizes, dump (6.3 m³/8.2 yd³ to 8.9 m³/11.6 yd³)		✓
- Light materials, dump, uninstalled (10.5 m ³ /13.7 yd ³ , 11.6 m ³ /15.2 yd ³)		✓
Bucket lip		
- Modular weld-on		✓
– Bolt-on lips		✓
– Durilock TM		✓
 Lip weldings – full weld edge or tack weld edge and corners 	✓	
Ground Engaging Tools		
– Cutting edge, Cat weld-on		√
- Cutting edge, bolt-on half arrow		✓
- Cutting edge, shrouds, Durilock		✓
– MAWPS – bucket lip protection		✓
– Heel shrouds		✓
– Wear bars		✓

Taster fill and evacuation systems - Engine, Fast Fill - Radiator, Fast Fill - Hydraulic, Fast Fill - Hydraulic, Fast Fill - Transmission, Fast Fill - Transmission Fast Fill - Transmission System - Foam, water based - Foam, water based - Arctic coolant - Arctic fuel - Arctic fuel - Guard, light and window - Guards, engine and transmission - Handholds - Handrails - Lift arm positioner for return to dig - Lubrication System - Automatic - Centralized - Mine Transfer - Radiator grill, swing out - Reversible steering - Reflective tape - Ride Control System - Recovery bar - Service tools - Collet jacking bolts - Recovery bar - Service oil sample - Valve, hydraulic, standard - Vandalism protection - Dual pane - Wear protection bars - Cab/ROPS - Hydraulic tank - Radiator		Standard	Optional	
- Engine, Fast Fill - Radiator, Fast Fill - Hydraulic, Fast Fill - Transmission, Fast Fill - Foam, water based - Fire Suppression System - Foam, water based - Fluids - Arctic coolant - Arctic fuel - Transmission - Handholds - Handrails - Centralized - Automatic - Centralized - Centralized - Automatic - Centralized - Fadiator grill, swing out - Reversible steering - Reflective tape - Ride Control System - Automatic - Collet jacking bolts - Collet jacking bolts - Recovery bar - Service tools - Collet jacking bolts - Recovery bar - Service oil sample - Valve, hydraulic, standard - Vandalism protection - Vandalism protection - Vandalism protection - Dual pane - Dual pane - Wear protection bars - Cab/ROPS - Hydraulic tank	OTHER STANDARD AND OPTIONAL EQUIPMENT (continued)			
- Radiator, Fast Fill - Hydraulic, Fast Fill - Transmission, Fast Fill - Fenders, front, rear - Firewall - Fire Suppression System - Foam, water based - Fluids - Arctic coolant - Arctic fuel - Arctic fuel - Arctic fuel - Guard, light and window - Guards, engine and transmission - Handholds - Handrails - Lift arm positioner for return to dig - Lubrication System - Automatic - Centralized - Mine Transfer - Radiator grill, swing out - Reversible steering - Ride Control System - Ride Control System - Collet jacking bolts - Collet jacking bolts - Recovery bar - Service oil sample - Valve, drain, transmission oil filter - Valve, hydraulic, standard - Vandalism protection - Windows - Single pane - Dual pane - Wear protection bars - Cab/ROPS - Hydraulic tank	Faster fill and evacuation systems			
- Hydraulic, Fast Fill - Transmission, Fast Fill - Transmission, Fast Fill - Transmission, Fast Fill - Fenders, front, rear - Firewall - Foam, water based - Foam, water based - Arctic coolant - Arctic fuel - Arctic fuel - Guard, light and window - Guards, engine and transmission - Handholds - Automatic - Centralized - Automatic - Centralized - Mine Transfer - Radiator grill, swing out - Reversible steering - Collet jacking bolts - Collet jacking bolts - Recovery bar - Service oil sample - Valve, hydraulic, standard - Vandalism protection - Windows - Single pane - Dual pane - Wear protection bars - Cab/ROPS - Hydraulic tank	– Engine, Fast Fill		✓	
- Transmission, Fast Fill Draw bar attachment, bolt-on Fenders, front, rear Firewall - Foam, water based - Foam, water based - Arctic coolant - Arctic fuel Guard, light and window Guards, engine and transmission Handholds + Handrails Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System - Collet jacking bolts - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	– Radiator, Fast Fill		✓	
Draw bar attachment, bolt-on Fenders, front, rear Firewall Fire Suppression System - Foam, water based Fluids - Arctic coolant - Arctic fuel Guard, light and window Guards, engine and transmission Handholds Handrails Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	– Hydraulic, Fast Fill		✓	
Fenders, front, rear Firewall Fire Suppression System - Foam, water based - Fluids - Arctic coolant - Arctic fuel Guard, light and window Guards, engine and transmission Handholds - Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System - Collet jacking bolts - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	- Transmission, Fast Fill		✓	
Fire Suppression System - Foam, water based - Fluids - Arctic coolant - Arctic fuel Guard, light and window Guards, engine and transmission Handholds - Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System - Collet jacking bolts - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Draw bar attachment, bolt-on		✓	
Fire Suppression System - Foam, water based - Fluids - Arctic coolant - Arctic fuel Guard, light and window Guards, engine and transmission Handholds - Automatis - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System - Collet jacking bolts - Recovery bar Service oil sample Valve, hydraulic, standard Vandalism protection Windows - Single pane - Cab/ROPS - Hydraulic tank V	Fenders, front, rear	✓		
Fluids - Arctic coolant - Arctic fuel Guard, light and window Guards, engine and transmission Handholds Handrails Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System - Collet jacking bolts - Collet jacking bolts - Recovery bar Service oil sample Valve, hydraulic, standard Vandalism protection Windows - Single pane - Cab/ROPS - Hydraulic tank V	Firewall	✓		
Fluids - Arctic coolant - Arctic fuel Guard, light and window Guards, engine and transmission Handholds - Automatis - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System - Collet jacking bolts - Collet jacking bolts - Recovery bar Service oil sample Valve, hydraulic, standard Vandalism protection Windows - Single pane - Cab/ROPS - Hydraulic tank Valve, drain, transmission Valve, hydraulic tank Valvanulic tank Valvanulic tank	Fire Suppression System			
- Arctic coolant - Arctic fuel Guard, light and window Guards, engine and transmission Handholds Handrails Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System - Collet jacking bolts - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	- Foam, water based		✓	
- Arctic fuel Guard, light and window Guards, engine and transmission Handholds Handrails Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System - Collet jacking bolts - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Fluids			
Guard, light and window Guards, engine and transmission Handholds Handrails Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	- Arctic coolant		✓	
Guards, engine and transmission Handholds Handrails Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	- Arctic fuel		✓	
Handholds Handrails Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Guard, light and window		✓	
Handrails Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Guards, engine and transmission	✓		
Lift arm positioner for return to dig Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank		✓		
Lubrication System - Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Handrails		✓	
- Automatic - Centralized Mine Transfer Radiator grill, swing out Reversible steering Reflective tape Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Lift arm positioner for return to dig	✓		
- Centralized ✓ Mine Transfer ✓ Radiator grill, swing out ✓ Reversible steering ✓ Reflective tape ✓ Ride Control System ✓ Service tools - Collet jacking bolts ✓ - Recovery bar ✓ Service oil sample ✓ Valve, drain, transmission oil filter ✓ Valve, hydraulic, standard ✓ Vandalism protection ✓ Windows - Single pane ✓ - Dual pane ✓ Wear protection bars - Cab/ROPS ✓ - Hydraulic tank ✓	Lubrication System			
Mine Transfer ✓ Radiator grill, swing out ✓ Reversible steering ✓ Reflective tape ✓ Ride Control System ✓ Service tools ✓ - Collet jacking bolts ✓ - Recovery bar ✓ Service oil sample ✓ Valve, drain, transmission oil filter ✓ Valve, hydraulic, standard ✓ Vandalism protection ✓ Windows ✓ - Dual pane ✓ Wear protection bars ✓ - Cab/ROPS ✓ - Hydraulic tank ✓	- Automatic		✓	
Radiator grill, swing out Reversible steering Reflective tape Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	- Centralized		✓	
Reversible steering Reflective tape Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Mine Transfer		✓	
Reflective tape Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Radiator grill, swing out	✓		
Ride Control System Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Reversible steering		✓	
Service tools - Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Reflective tape		✓	
- Collet jacking bolts - Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank ✓	Ride Control System		✓	
- Recovery bar Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	Service tools			
Service oil sample Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank	- Collet jacking bolts		✓	
Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank ✓	- Recovery bar		✓	
Valve, drain, transmission oil filter Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank ✓	Service oil sample	✓		
Valve, hydraulic, standard Vandalism protection Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank ✓	Valve, drain, transmission oil filter	✓		
Windows - Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank ✓		✓		
- Single pane - Dual pane Wear protection bars - Cab/ROPS - Hydraulic tank ✓	Vandalism protection		✓	
 Dual pane Wear protection bars Cab/ROPS ✓ Hydraulic tank ✓ 				
 Dual pane Wear protection bars Cab/ROPS ✓ Hydraulic tank ✓ 	Single pane	✓		
Wear protection bars - Cab/ROPS - Hydraulic tank ✓			✓	
- Cab/ROPS ✓ - Hydraulic tank ✓				
− Hydraulic tank			✓	
			√	
	- Radiator		✓	

^{*}Please consult with your Regional Commercial or Technology Representative prior to upgrading your machine to Command for Underground.

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

AEXQ3471 (05-2022) (Global)

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