

R3000H 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	
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	927.6 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 3050 m (10,006 ft) altitude for equivalent Tier 3 engines, and 3506 m (11,502 ft) for VR engines.
- Optional Ventilation Reduction package available.
- Optional engine with emissions equivalent to U.S. EPA Tier 3 and EU stage IIIA is also available.

Operating Specifications		
Nominal Payload Capacity	20 000 kg	44,092 lb
Gross Machine Mass	82 000 kg	180,779 lb
Static Tipping Load Straight Ahead Lift Arms Horizontal	47 264 kg	104,199 lb
Static Tipping Full Turn Ahead Lift Arms Horizontal	40 003 kg	88,191 lb
Breakout Force (SAE)	28 020 kg	61,773 lb

Weights		
Operating Mass*	58 263 kg	128,448 lb
Front Axle	24 747 kg	54,558 lb
Rear Axle	33 499 kg	73,853 lb
Operating Mass + Rated Payload*	78 263 kg	172,540 lb
Front Axle	56 784 kg	125,187 lb
Rear Axle	21 462 kg	47,316 lb

^{*}Calculated weight.

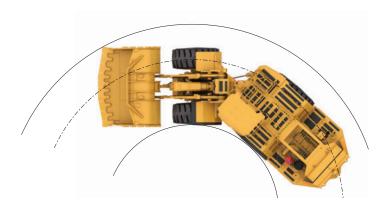
Transmission		
Forward 1	4.9 km/h	3 mph
Forward 2	9.1 km/h	5.7 mph
Forward 3	16.4 km/h	10.2 mph
Forward 4	28.2 km/h	17.5 mph
Reverse 1	6.6 km/h	4.1 mph
Reverse 2	11.5 km/h	7.1 mph
Reverse 3	20.5 km/h	12.7 mph
Reverse 4	31.3 km/h	19.4 mph

Hydraulic Cycle Time	
Raise	8.8 Seconds
Dump	1.85 Seconds
Lower, Empty, Float Down	3.54 Seconds
Total Cycle Time	14.2 Seconds

Bucket Capacities		
Dump Bucket – 1 (Standard Bucket)	8.9 m ³	11.6 yd³
Dump Bucket – 2	9.5 m ³	12.4 yd³
Dump Bucket – 3	10.5 m ³	13.7 yd³
Light Material Bucket	11.6 m ³	15.2 yd³

Turning Dimensions		
Outside Clearance Radius**	7536 mm	296.7 in
Inner Clearance Radius**	3247 mm	127.8 in
Axle Oscillation	8°	
Articulation Angle	42.5°	

^{**}Clearance dimensions are for reference only.



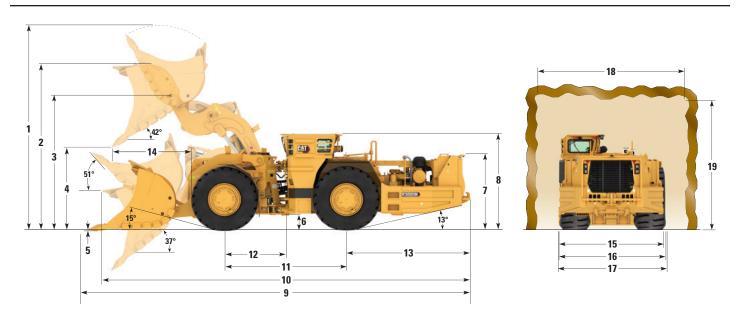
Tires		
Tire Size	35/65 R33	
Service Refill Capacities		
Engine Crankcase	34 L	9 gal
Transmission	62 L	16.4 gal
Hydraulic Tank	140 L	37 gal
Cooling System	75 L	19.8 gal
Front Differential and Final Drives	119 L	31.4 gal
Rear Differential and Final Drives	127 L	33.5 gal
Front Differential and Final Drives (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	1539 L	406.5 gal

Standards

Rollover Protective Structure (ROPS)/ Falling Object Protective Structure (FOPS) Certified Cab

Dimensions

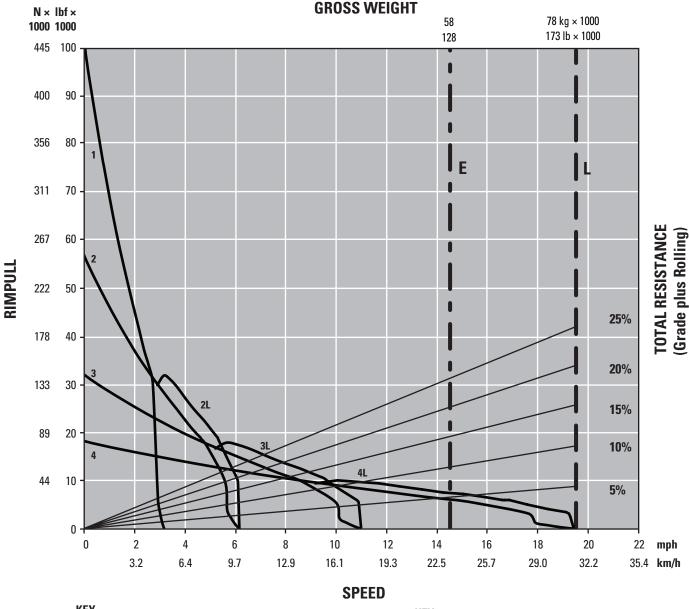
All dimensions are approximate.



	356-	1320	524-	6458	372-	1680	372-	1695
	Dump	Bucket	Dump	Bucket	Dump	Bucket	Dump	Bucket
Bucket Capacity	8.9 m ³	11.6 yd ³	9.5 m ³	12.4 yd ³	10.5 m ³	13.7 yd³	11.6 m ³	15.2 yd ³
	mm	in	mm	in	mm	in	mm	in
Bucket Width over Cutting Edge	3354	132.0	3476	136.9	3454	136.0	3754	147.8
1 Height – Bucket Raised	6283	247.4	6283	247.4	6344	249.8	6344	249.8
2 Height – Max Dump	5408	212.9	5445	214.4	5408	212.9	5429	213.7
3 Height – Max Lift Bucket Pin	4553	179.3	4553	179.3	4553	179.3	4553	179.3
4 Height – Dump Clearance at Max Lift	2744	108.0	2741	107.9	2553	100.3	2635	103.7
5 Height – Digging Depth	48.4	1.9	50	2.0	178	7.0	178	7.0
6 Height – Ground Clearance	476	18.7	476	18.7	476	18.7	476	18.7
7 Height – Top of Hood	2388	94.0	2388	94.0	2388	94.0	2388	94.0
8 Height – Top of ROPS	3002	118.2	3002	118.2	3002	118.2	3002	118.2
9 Length – Overall (Digging)	11 493	452.5	11 506	453.4	11 632	458.0	11 500	452.8
10 Length – Overall (Tramming)	11 150	439.0	11 163	439.5	11 341	446.5	11 260	443.3
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	3582	141.0	3582	141.0	3582	141.0	3582	141.0
14 Length – Reach	1789	70.4	1812	71.3	1822	71.7	1719	67.7
15 Width – Machine without Bucket	3200	126.0	3200	126.0	3200	126.0	3200	126.0
16 Width – Overall Tire	3266	128.6	3266	128.6	3266	128.6	3266	128.6
17 Width – Machine with Bucket	3454	136.0	3576	140.8	3554	139.9	3854	151.7
18 Recommended Clearance Width	5000	196.9	5000	196.9	5000	196.9	5000	196.9
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.



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 58 263 kg (128,448 lb)

L - Loaded 78 263 kg (172,540 lb)

R3000H 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 Spring Applied, Fluid Released (SAFR TM)	✓	
Engine:		
– Cat C15 6 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 Aid	✓	
Park Brake Switch Engagement, Choose Between: - Push to Apply - Pull to Apply	√	
Precleaner, Engine Air Intake	✓	
Secondary Steering System		✓
Torque Converter with Automatic Lock-Up Clutch	✓	
Transmission, Automatic Planetary Powershift (4F/4R)	✓	
Transmission Neutralizer	✓	

	Standard	Optional
ELECTRICAL		
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, Halogen	✓	
- Stop, Dual, Halogen	✓	
- Cat LED Worklights		✓
Receptacle Group, Auxiliary Start	✓	
Starter, Electric, 24-Volt	✓	
Starting and Charging System	✓	

(continued on next page)

R3000H Standard and Optional Equipment

Standard and Optional Equipment (continued)

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

	Standard	Optional
OPERATOR ENVIRONMENT		
Automatic Brake Application (ABA)	✓	
Cab Enclosed:		
- ROPS/FOPS Certified	✓	
– Air Conditioning	✓	
- Cab Pressurizer and Filter	✓	
– Dome Light	✓	
– Heater	✓	
Radio Ready Compartment for Radio and Speakers	✓	
 Salt Resistant Air Conditioner 	✓	
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	✓	
Low Hydraulic Level Warning	✓	
Pilot Hydraulic Implement Controls (single joystick)	✓	
Seat:		
- Seat, Suspension, Vinyl	✓	
- Seat, Suspension, Tee, Vinyl		✓
- Seat, Suspension, Air, Vinyl		✓
– Seat Cover		✓
Seat Belt, Retractable	\checkmark	

	Standard	Optional
TECHNOLOGY 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	\checkmark	
Must Be Selected From the		
Mandatory Attachments Section,		
Choose Between:		
- Tire, 35/65 R33, VSNT, Bridgestone		
- Tire, 35/65 R33, VSDL, Bridgestone		
Rims (set of four):		
- Five Piece, Tubeless	✓	
Rim Identification Numbering		✓
Spare Rim, Tubeless		✓

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

(continued on next page)

R3000H Standard and Optional Equipment

Standard and Optional Equipment (continued)

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

	Standard	Optional
OTHER STANDARD AND OPTIONAL EQUIPMENT	NT	
Brake Axle Cooling	✓	
Brake Light	✓	
Brake Release Arrangements:		
– Recovery Hook		✓
– Recovery Bar		✓
Cap, Radiator, Manual Release	✓	
Catalytic Exhaust Purifier/Muffler	✓	
Dump Bucket (8.9 m³/11.6 yd³)	✓	
Buckets:		
- Various Sizes, Dump (9.5 m³/12.4 yd³, 10.5 m³/13.7 yd³)		✓
- Light Materials, Dump (11.6 m³/15.2 yd³)		✓
– Light Materials, Dump, Uninstalled (11.5 m³/15.0 yd³)*		✓
Bucket Lip:		
– Modular Weld-On	✓	
– Bolt On Lips		✓
– Durilock		✓
 Lip Weldings – Full Weld Edge or Tack Weld Edge and Corners 	✓	
Ground Engaging Tools (GET):		
- Cutting Edge, Cat Weld-On		✓
- Cutting Edge, Bolt-On Half Arrow		✓
- Cutting Edge, Shrouds, Durilock		✓
Mechanically Attached Wear Plate System (MAWPS) – Bucket Lip Protection		√
– Heel Shrouds		✓
– Wear Bars		✓
- Liners		✓
– Overflow Guard		✓
Faster Fill and Evacuation Systems:		
– Engine, Fast Fill		✓
– Radiator, Fast Fill		✓
– Hydraulic, Fast Fill		✓
– Transmission, Fast Fill		✓
Decals, International Picto Graphics	✓	
Draw Bar Attachment, Bolt-On		✓

There Standard and Optional Equipment (continued) Fenders, Front, Rear Firewall Fire Suppression System: - Foam, Water Based Fluids: - Arctic Coolant - Arctic Fuel Fuel Systems: - Dual Fuel Tanks - Fuel System Manual Shut Off Taps Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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 - Radiator - Radiator - Radiator - Radiator - Cab/RoPS - Radiator		Standard	Optional
Fire Suppression System: - Foam, Water Based - Fluids: - Arctic Coolant - Arctic Fuel Fuel Systems: - Dual Fuel Tanks - Fuel System Manual Shut Off Taps Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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 V	OTHER STANDARD AND OPTIONAL EQUIPMI	ENT (continued)
Fire Suppression System: - Foam, Water Based Fluids: - Arctic Coolant - Arctic Fuel Fuel Systems: - Dual Fuel Tanks - Fuel System Manual Shut Off Taps Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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	Fenders, Front, Rear	✓	
Fluids: - Arctic Coolant - Arctic Fuel Fuel Systems: - Dual Fuel Tanks - Fuel System Manual Shut Off Taps Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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	Firewall	✓	
Fluids: - Arctic Coolant - Arctic Fuel Fuel Systems: - Dual Fuel Tanks - Fuel System Manual Shut Off Taps Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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	Fire Suppression System:		
- Arctic Fuel - Arctic Fuel Fuel Systems: - Dual Fuel Tanks - Fuel System Manual Shut Off Taps Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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	- Foam, Water Based		✓
- Arctic Fuel Fuel Systems: - Dual Fuel Tanks - Fuel System Manual Shut Off Taps Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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	Fluids:		
Fuel Systems: - Dual Fuel Tanks - Fuel System Manual Shut Off Taps Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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 Coolant		✓
- Dual Fuel Tanks - Fuel System Manual Shut Off Taps Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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		✓
- Fuel System Manual Shut Off Taps Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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	Fuel Systems:		
Guard, Light and Window Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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	– Dual Fuel Tanks	✓	
Guards, Engine and Transmission Handholds (Access On/Off Top Deck) 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	- Fuel System Manual Shut Off Taps	✓	
Handholds (Access On/Off Top Deck) 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		✓
Handholds (Access On/Off Top Deck) 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	✓	
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		✓	
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	Lift Arm Positioner for Return to Dig	✓	
- 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			
Mine Transfer ✓ Radiator Grill, Swing Out ✓ Reversible Steering ✓ Reflective Tape ✓ Ride Control System ✓ Service Tools: ✓ - Collet Jacking Bolts ✓ - Recovery Bar ✓ Valve, Orain, Transmission Oil Filter ✓ Valve, Hydraulic, Standard ✓ Vandalism Protection ✓ Windows: ✓ - Single Pane ✓ - Dual Pane ✓ Wear Protection Bars: ✓ - Cab/ROPS ✓ - Hydraulic Tank ✓	<u> </u>		✓
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		✓
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	Radiator Grill, Swing Out	✓	
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			√
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			✓
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			√
- 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 ✓			
- 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 Oil Sample Valve, Drain, Transmission Oil Filter Valve, Hydraulic, Standard Vandalism Protection Windows: - Single Pane - Dual Pane Wear Protection Bars: - Cab/ROPS - Hydraulic Tank			✓
Valve, Drain, Transmission Oil Filter Valve, Hydraulic, Standard Vandalism Protection Windows: - Single Pane - Dual Pane Wear Protection Bars: - Cab/ROPS - Hydraulic Tank ✓		✓	
Valve, Hydraulic, Standard Vandalism Protection Windows: - Single Pane - Dual Pane Wear Protection Bars: - Cab/ROPS - Hydraulic Tank ✓		✓	
Vandalism Protection Windows: - Single Pane - Dual Pane Wear Protection Bars: - Cab/ROPS - Hydraulic Tank ✓		✓	
Windows: - Single Pane - Dual Pane Wear Protection Bars: - Cab/ROPS - Hydraulic Tank ✓			√
- Single Pane - Dual Pane Wear Protection Bars: - Cab/ROPS - Hydraulic Tank ✓			
- Dual Pane ✓ Wear Protection Bars: ✓ - Cab/ROPS ✓ - Hydraulic Tank ✓		✓	
Wear Protection Bars: - Cab/ROPS - Hydraulic Tank ✓			✓
- Cab/ROPS ✓ - Hydraulic Tank ✓			
– Hydraulic Tank ✓			✓
<u> </u>			√
	- Radiator		√

^{*}Only for use with Chilean Dealers

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

AEXQ3478 (06-2022) (Global)

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