Cat® Underground Mining Hard Rock Vehicles Product Line











R1300G R1600H

R1300G Underground Mining Loader

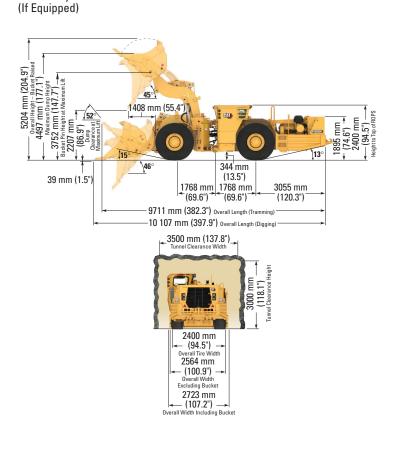
Engine Power @ 2,200 rpm - ISO 14396:2002

Engine Model Tire Size	100 1 1	117 kW Cat® 3306 17.5 × R2	
Dimensions Nominal Payload Capacit		6800 kg	(14,991 lb)
Gross Machine Operating Bucket Capacity (Standar		29 702 kg 3.1 m³	(65,482 lb) (4.1 yd³)
Bucket Width	u,	2200 mm	(86.6 in)
Width (Overall Including I		2290 mm	(90.2 in)
Width (Overall Excluding	Bucket)	2109 mm	(83 in)
Height (Overall)		2120 mm	(83.5 in)
Length (Tramming) Outer Clearance Radius		8714 mm 5717 mm	(343.1 in) (225.1 in)
Inner Clearance Radius		2825 mm	(111.2 in)
Hydraulic Cycle Time		Secs	,
Raise		5.0	
Dump		2.0 2.3	
Lower Total		2.3 9.3	
Axle Oscillation		± 10°	
Articulation Angle		± 42.5°	
Ground Clearance		321 mm	(12.6 in)
Speeds Forward		km/h	(mph)
1st		4.5	(2.8)
2nd 3rd		7.8 15	(4.8) (9.3)
aru 4th		26.3	(16.3)
Speeds Reverse		20.0	(10.0)
1st		4.5	(2.8)
2nd		7.8	(4.8)
3rd		14.8	(9.2)
4th	124	23	(14.3)
Fuel Capacities Fuel Tank	Liters 295	US Gallons 77.9	Imperial Gallons 64.9

4302 mm (169.4") Overal Height - Bucket Raised 3831 mm (139.0") 2918 mm (149") - 2918 mm (149") - 200 mm Height at Max Lift 1560 mm - (61.4") - (61.4") - (61.4") - (61.4") - (61.4") - (61.4") \43° 1583 mm (62.3") 321 mm (12.6") 34 mm (1.3") Digging Depth 1525 mm 1525 mm 2932 mm (115.4") (60") (60") 8714 mm (343.1") Overall Length (Tramming) 9107 mm (358.5") Overall Length (Digging) 3000 mm (118.1") -2800 mm (110.2")-Tunnel Clearance Height - 1900 mm (74.8") erall Tire Width -2109 mm -(83") Overall Width Excluding Bucket Note: Clearance Dimensions are 2290 mm for reference only. (90.2") Overall Width Including Bucket Note: Dimensions calculated with Half Arrow Hardware.

R1600H Underground Mining Loader

	,	3	
Engine Power @ 1,800 rp VR Engine Tier 3 Engine Engine Model Tire Size	m – ISO 14	396:2002 202 kW 202 kW Cat C11 18.00 × R25	(271 hp) (271 hp)
Dimensions Nominal Payload Capaci Gross Machine Mass Bucket Capacity (Standa Bucket Width Width (Overall Including Width (Overall Excluding Height (Overall) Length (Tramming) Outer Clearance Radius Inner Clearance Radius Hydraulic Cycle Time Raise Dump Lower Total Axle Oscillation Articulation Angle Ground Clearance	rd) Bucket)	10 200 kg 44 204 kg 4.8 m³ 2600 mm 2723 mm 2564 mm 2400 mm 9711 mm 6638 mm 3291 mm Secs 7.6 1.6 2.0 11.2 ± 10° ± 42.5° 344 mm	(22,487 lb) (97,453 lb) (6.3 yd³) (102.4 in) (107.2 in) (100.9 in) (94.5 in) (382.3 in) (261.3 in) (129.6 in)
Speeds Forward 1st 2nd 3rd 4th Speeds Reverse		km/h 4.5 9 16.8 27.5	(mph) (2.8) (5.6) (10.4) (17.1)
1st 2nd 3rd 4th Fuel Capacities Fuel Tank	Liters 400	5 11 19 29.3 US Gallons	(3.1) (6.8) (11.8) (18.2) Imperial Gallons
Secondary Fuel Tank	330	87.2	72.6



R1700 Underground Mining Loader

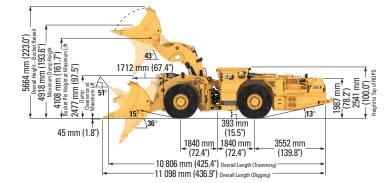
Engine Power @ 2,050 rpm - ISO 1439	6:2002	
EU Stage V Engine	257 kW	(345 hp)
Engine Power @ 1,800 rpm - ISO 1439	6:2002	-
Tier 3 Engine	269 kW	(361 hp)
VR Engine	269 kW	(361 hp)
Engine Model	Cat C13	
Tire Size	$26.5 \times R25$	

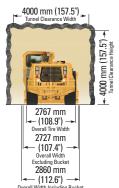
Engine Model	Cat C13	
Tire Size	$26.5 \times R25$	
Dimensions		
Nominal Payload Capacity – Tramming	15 000 kg	(33,069 lb)
Nominal Payload Capacity - Truck Load		(33,069 lb)
Gross Machine Mass	62 930 kg	(138,737 lb)
Bucket Capacity (Standard)	5.7 m ³	(7.5 yd^3)
Bucket Width	2830 mm	(111 in)
Width (Overall Including Bucket)	2860 mm	(113 in)
Width (Overall Excluding Bucket)	2727 mm	(107 in)
Height (Overall)	2541 mm	(100 in)
Length (Tramming)	10 806 mm	(425 in)
Outside Clearance Radius	6857 mm	(270 in)
Inside Clearance Radius	3139 mm	(123.5 in)
Hydraulic Cycle Time	Secs	(1-010 111)
Raise	6.8	
Dump	3.3	
Lower	2.9	
Total	13.2	
Axle Oscillation	± 8°	
Articulation Angle	± 44°	
Ground Clearance	393 mm	(15 in)
Speeds Forward	km/h	(mph)
1st	4.9	(3)
2nd	9.2	(5.7)
3rd	16.4	(10.2)
4th	28.8	(17.9)
Speeds Reverse		
1st	5.9	(3.7)
2nd	10.5	(6.5)
3rd	18.7	(11.6)
4th	32.5	(20.2)
F 10 11 11 11	100 11	

Fuel Capacities Fuel Tank (Bolt In)

	32.5
Liters	US Gallons
486	128.4

Imperial Gallons 106.9





Note: Clearance Dimensions are for reference only. Note: Dimensions calculated with Half Arrow Hardware.

R1700 XE Underground Mining Loader – Battery Electric

Cat, Switched Reluctance

(335 hp)

(295 hp)

250 kW

220 kW

26.5R25

,	
(2360 lbf·ft/44	⋅3 lbf⋅ft)
Cat, Switche	d Reluctance
226 kW 303 hp	
600 N·m/531	N⋅m
(443 lbf-ft/392	! lbf·ft)
350A (nomina	al DC), 715VDC
Li-lon	
Ultra Fast Ch	arge Onboard
	226 kW 600 N·m/531 (443 lbf·ft/392 350A (nomina Li-Ion

Dimensions

Tire Size

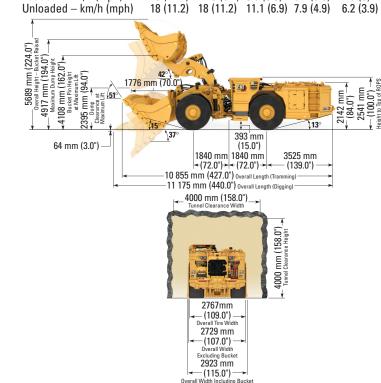
Traction Motor Rated Power – Peak

Rated Power - Nominal

Dimensions		
Nominal Payload Capacity	15 000 kg	(33,069 lb)
Operating Mass	48 743 kg	(107,460 lb)
Bucket Capacity (Standard)	5.7 m ³	(7.5 yd^3)
Bucket Width	2830	(111 in)
Width (Overall Including Bucket)	2923	(115 in)
Width (Overall Excluding Bucket)	2729	(107 in)
Height (Overall)	2541	(100 in)
Length (Tramming)	10 855 mm	(427 in)
Outside Clearance Radius	6997 mm	(272 in)
Inside Clearance Radius	3189 mm	(124 in)
Hydraulic Cycle Time	Secs	
Raise	6.8	
Dump	3.3	
Lower	2.9	
Total	13.2	
Axle Oscillation	± 8°	
Articulation Angle	± 44°	
Ground Clearance	393 mm	(15 in)

Grade Performance

25 Degree Ambient, 2% Rolling Resistance
Grade (%) 0 5 10 15 20
Loaded – km/h (mph) 18 (11.2) 14.8 (9.2) 8.6 (5.3) 6.1 (3.8) 4.8 (3)



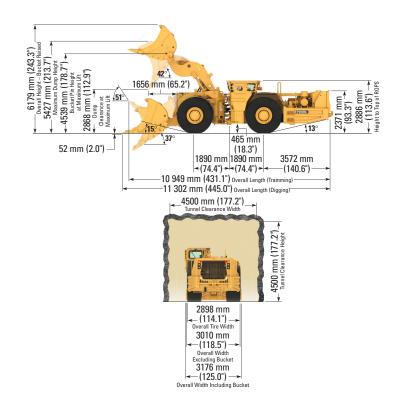
R2900G R2900

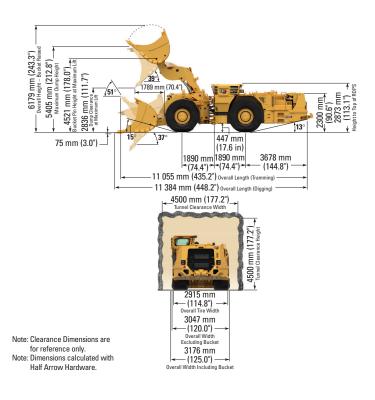
R2900G Underground Mining Loader

Engine Power @ 1,800 rpi		206-2002	
VR Engine	11 - 130 143	299 kW	(401 hp)
Tier 3 Engine		299 kW	(401 hp)
Engine Model		Cat C15	(
Tire Size		29.5 × R29	
Dimensions			
Nominal Payload Capacit	V	17 200 kg	(37,920 lb)
Gross Machine Mass	,	73 451 kg	(161,932 lb)
Bucket Capacity (Standar	rd)	7.2 m ³	(9.4 yd³)
Bucket Width		3054 mm	(120.4 in)
Width (Overall Including		3176 mm	(125.0 in)
Width (Overall Excluding	Bucket)	3010 mm	(118.5 in)
Height (Overall)		2886 mm	(113.6 in)
Length (Tramming) Outer Clearance Radius		10 949 mm 7323 mm	(,
Inner Clearance Radius		3383 mm	(288.3 in) (133.2 in)
Hydraulic Cycle Time		Secs	(133.2 111)
Raise		9.2	
Dump		3.4	
Lower		3.1	
Total		15.7	
Axle Oscillation		± 8°	
Articulation Angle		± 42.5°	(40.0 :)
Ground Clearance		465 mm	(18.3 in)
Speeds Forward		km/h	(mph)
1st		5.1	(3.2)
2nd		9.7	(6.0)
3rd		17.3	(10.7)
4th		30.4	(18.9)
Speeds Reverse		0.0	(4.1)
1st 2nd		6.6 12.0	(4.1) (7.5)
3rd		21.5	(13.4)
4th		32.8	(20.4)
Fuel Capacities	Liters	US Gallons	Imperial Gallons
Fuel Tank (Dual)	1425	376.4	313.5
rasi rain (Daai)	1 120	070.1	010.0

R2900 Underground Mining Loader

Engine Power @ 2,000 rp EU Stage V Engine Engine Power @ 1,800 rp VR Engine Tier 3 Engine Engine Model Tire Size		293 kW	(393 hp) (401 hp) (401 hp)
Dimensions Nominal Payload Capacity Gross Machine Mass Bucket Capacity (Standa Bucket Width Width (Overall Including Width (Overall Excluding Height (Overall) Length (Tramming) Outside Clearance Radius Inside Clearance Radius Hydraulic Cycle Time Raise Dump Lower Total Axle Oscillation Articulation Angle Ground Clearance	rd) Bucket) Bucket)	17 200 kg 73 816 kg 7.2 m³ 3054 mm 3176 mm 3047 mm 2873 mm 11 055 mm 7323 mm 3401 mm Secs 9.2 3.4 3.1 15.7 ± 8° ± 42.5° 447 mm	(37,920 lb) (162,736 lb) (9.4 yd³) (120.4 in) (125.0 in) (125.0 in) (113.0 in) (435.0 in) (288.3 in) (133.9 in)
Speeds Forward 1st 2nd 3rd 4th Speeds Reverse 1st 2nd 3rd 4th		km/h 5.1 9.7 17.3 30.4 6.6 12 21.5 32.8	(mph) (3.2) (6.0) (10.7) (18.9) (4.1) (7.5) (13.4) (20.4)
Fuel Capacities Fuel Tank (Bolt In)	Liters 630	US Gallons 166	Imperial Gallons





R3000H

R2900 XE Underground Mining Loader – Diesel Electric*

Engine Power @ 1,600 rpm Stage V Engine – ISO 14396:2002 Tier 2/Stage II Engine –	335 kW	(449 hp)
ISO 14396:2002	333 kW	(447 hp)
Engine Model	Cat C15	-
Transmission Type	Cat switche electric driv	d reluctance re
Tire Size	$29.5 \times R29$	

Dimensions		
Nominal Payload Capacity	18 500 kg	(40,785 lb)
Gross Machine Mass	78 089 kg	(172,157 lb)
Bucket Capacity (Standard)	7.4 m ³	(9.7 yd³)
Bucket Width	3054 mm	(120 in)
Width (Overall Including Bucket)	3090 mm	(122 in)
Width (Overall Excluding Bucket)	3028 mm	(119 in)
Height (Overall)	2860 mm	(113 in)
Length (Tramming)	11 033 mm	(434 in)
Outside Clearance Radius	7270 mm	(286 in)
Inside Clearance Radius	3391 mm	(134 in)
Hydraulic Cycle Time	Secs	(101111)
Raise	9	
Dump	2.8	
Lower	3.5	
Total	15.3	
Axle Oscillation	± 8°	
Articulation Angle	± 42.5°	
Ground Clearance	405 mm	(16 in)
Speeds Forward (virtual)	km/h	(mph)
1st	5.8	(3.6)
2nd	9.5	(5.9)
3rd	17	(10.6)
4th	24.6	(15.3)
5th	33.4	(20.8)
Speeds Reverse (virtual)		
1st	6	(3.7)

Fuel Capacities Liters US Gallons Imperial Gallons Fuel Tank (Bolt In) 660 174.4 ---

10.1

18

26

32.9

(6.3)

(11.3)

(16.2)

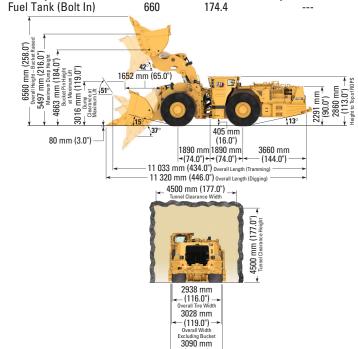
(20.4)

2nd

3rd

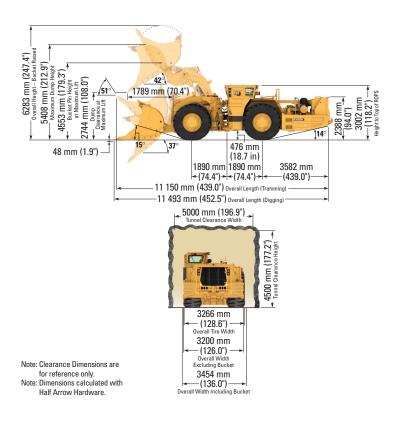
4th

* Available 2023



R3000H Underground Mining Loader

Engine Power @ 1,800 rp VR Engine Tier 3 Engine Engine Model Tire Size	m – ISO 14	396:2002 299 kW 299 kW Cat C15 35/65 R33	(401 hp) (401 hp)
Dimensions Nominal Payload Capacir Gross Machine Mass Bucket Capacity (Standa Bucket Width Width (Overall Including Width (Overall Excluding Height (Overall) Length (Tramming) Outside Clearance Radius Inside Clearance Radius Hydraulic Cycle Time Raise Dump Lower Total Axle Oscillation Articulation Angle Ground Clearance	rd) Bucket) Bucket)	20 000 kg 82 000 kg 8.9 m³ 3354 mm 3454 mm 3200 mm 11 150 mm 7536 mm 3247 mm Secs 8.8 1.85 3.54 14.2 ± 8° ± 42.5° 476 mm	(44,092 lb) (180,779 lb) (11.6 yd³) (132.0 in) (136.0 in) (126.0 in) (118.2 in) (439.0 in) (296.7 in) (127.8 in)
Speeds Forward 1st 2nd 3rd 4th Speeds Reverse 1st 2nd 3rd 4th		km/h 4.9 9.1 16.4 28.2 6.6 11.5 20.5 31.3	(mph) (3) (5.7) (10.2) (17.5) (4.1) (7.1) (12.7) (19.4)
Fuel Capacities Fuel Tank (Dual)	Liters 1539	US Gallons 406.5	Imperial Gallons 338.5



BUCKET CAPACITIES

Ground Engaging Tools (GET) Options Cat Modular Segment Welded GET System

GET OPTIONS

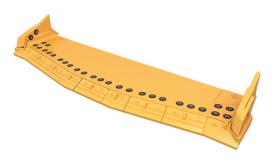
Individual segments are configured to form Lip Assemblies that cover all LHD size classes. Modular Shrouds deliver welded part reliability with the replacement simplicity of a mechanical system. Wear indicators are visible from the topside to help establish maintenance intervals.

Available for all LHD models, on all bucket sizes.

Cat Bolt-On Half-Arrow (BOHA) GET

The bolt-on half arrow (BOHA) system delivers best-in-class lip protection with fewer parts than competitive systems. Reducing maintenance cost through better protection, and fewer parts to manage. BOHA segments have superior hardness vs. welded components.

Available for all LHD models, on all dump bucket sizes.



Cat Durilock™ Shroud System

With Cat Infinite™ Retention

The Cat Durilock™ Shrouds adapt to your ever-changing mining environment in minutes without having to change the base edge or retention system. Infinite™ secures the three shroud systems for maintenance free retention.

Available for R1700/R1700G, R2900/R2900G and R3000H LHDs, on all dump bucket sizes.



For more information, please refer to Cat[®] Mining Ground Engaging Tools Product Catalog – PEBJ0030 Cat[®] Mining Ground Engaging Tools Parts Catalog – PEBJ0031



Bucket Capacities

Bucket Capacities				
	5	Size	Wi	dth
R1300G	m^3	(yd³)	mm	(inch)
513-7350	2.5	(3.3)	2010	(79.1)
186-9278	2.8	(3.7)	2010	(79.1)
243-6143 (STD)	3.1	(4.1)	2200	(86.6)
243-6224	3.4	(4.4)	2400	(94.5)
157-3624 (EB)	2.4	(3.1)	2200	(86.6)
R1600H	m³	(yd³)	mm	(inch)
514-5710	4.2	(5.5)	2600	(102.4)
203-1792 (STD)	4.8	(6.3)	2600	(102.4)
227-4704	5.6	(7.3)	2600	(102.4)
514-5720	5.9	(7.7)	2900	(114.2)
260-5198 (EB)	4.8	(6.3)	2600	(102.4)
598-8733 (BTB)	5.3	(6.9)	2932	(115.4)
R1700	m³	(yd³)	mm	(inch)
467-1827 (STD)	5.7	(7.5)	2840	(112)
467-1828	6.1	(8.0)	2982	(117)
467-1829	6.6	(8.6)	2932	(115)
616-0585	7.2	(9.4)	2932	(115)
467-1830	7.5	(9.8)	3254	(128)
549-5378	8.0	(10.5)	3354	(132)
467-1831 (LM)	8.6	(11.2)	3492	(137)
467-1746 (EB)	5.8	(7.6)	2780	(109)
561-1775 (BTB)	6.8	(8.9)	2962	(117)
581-6671 (BTB)	7.5	(9.8)	3376	(133)
R1700 XE	m³	(yd³)	mm	(inch)
467-1827 (STD)	5.7	(7.5)	2840	(112)
467-1828	6.1	(8.0)	2982	(117)
467-1829	6.6	(8.6)	2932	(115)
467-1830	7.5	(9.8)	3254	(128)
561-1775 (BTB)	6.8	(8.9)	2962	(117)
R2900G/R2900	m³	(yd³)	mm	(inch)
303-8806	6.3	(8.2)	3054	(120.2)
249-4899 (STD)	7.2	(9.4)	3054	(120.2)
249-4892	8.3	(10.9)	3154	(124.2)
249-4893	8.9	(11.6)	3354	(132.0)
R2900 XE	m³	(yd³)	mm	(inch)
506-8521 (STD)	7.4	9.7	3054	(120)
506-8522	8.6	11.2	3154	(124)
506-8523	9.2	12	3354	(132)
506-8524	9.8	12.8	3454	(136)
R3000H	m³	(yd³)	mm	(inch)
356-1320 (STD)	8.9	(11.6)	3354	(132.0)
524-6458	9.5	(12.4)	3476	(136.9)
372-1680	10.5	(13.7)	3454	(136.0)
372-1695 (LM)	11.6	(15.2)	3754	(147.8)

(STD) Standard Bucket (EB) Ejector Bucket (LM) Light Material Bucket (BTB) Bolt-Together Bucket

MINESTAR™ FOR UNDERGROUND

MEC500 Mobile Equipment Charger

Weights

MEC500 1656 kg (3,650 lb)
MEC500 with Optional Skid (pictured below) 2037 kg (4,490 lb)

Electrical Specifications

Rated Power (AC Input)
Rated Current (DC Output)
Voltage Range
Voltage Output
Frequency Range
Input Supply (AC Input)

500 kW
700 Amps
400-660 VAC
300-1,000 VAC
45-65 Hz
3-Phase Insulated Terra (IT)

Cable Output

Cat Proprietary Connector 700 Amp



Cat® MineStar™ is the mining industry's most comprehensive and thoroughly integrated suite of technology offerings. MineStar has been delivering results for many years and is proven on mine sites around the world—the majority of them surface operations. As more miners pivot from open pit to underground mines, Caterpillar has expanded our technology portfolio to ensure we're able to support them just as we've done on the surface for decades. No matter the size, type or complexity of your underground operation, Cat MineStar can help you deal with the challenges you face every day: Controlling costs. Extending equipment life. Working more productively. And keeping people safe.

Cat MineStar Solutions have the ability to track, monitor, automate and manage all types of assets—from people to production machines to light vehicles on site. Offerings can be deployed individually or integrated to create a comprehensive technology system that is scalable and configurable to the needs of your operation. And they work with any brand of equipment, sharing data across existing machines, systems and technologies. We'll work alongside you to develop a customized technology roadmap, helping you with the change management that is key to the successful adoption of technology. Whether you integrate a single technology or a multi-purpose solution, you can expect a safer, more productive and more efficient operation.

For more information visit: https://www.cat.com/minestar

LOADER STANDARD EQUIPMENT

ELECTRICAL

- Alternator
- · Auxiliary battery receptacle
- · Battery disconnect switch, ground level
- · Diagnostic connector
- · Electric starting, 24V
- · Engine shutdown switch
- External lighting, front, rear (halogen or LED depending on selected model)
- · Low maintenance batteries
- Reversing alarm
- · Starting and charging system

OPERATOR ENVIRONMENT

- Cat Electronic Monitoring System (Cat EMS)
- Electric horns
- Gauges
- Engine coolant temperature
- Hydraulic oil temperature
- Fuel level
- -Speedometer
- Tachometer
- · Indicator lights
- Open operator station (ROPS/FOPS) structure (except R3000H)
- Operator presence system (except on R1300G)
- Suspension seat with retractable seat belt (depends on selected model)
- · Hydraulic implement controls, single joystick

POWER TRAIN

- Cat engine (model varies depending on selected loader)
- · Engine air intake pre-cleaner
- Electric fuel priming pump (except R1300G)
- · Long life coolant
- · Planetary auto shift transmission
- · Radiator, cross flow
- SAFR™ full hydraulic enclosed wet, multiple-disc brakes, oil-cooled
- Transmission neutralizer
- Torque converter

OTHER STANDARD EQUIPMENT

- · Brake lights
- Bucket, dump (size varies depending on selected loader)
- Bucket positioner, return to dig (optional on R1300G)
- · Catalytic exhaust purifier/muffler group
- · Decals, international pictographics
- · Engine and transmission belly guards
- · Fenders, front, rear
- · Fire wall
- Fuel system manual shut off tap
- Handholds
- Operator and maintenance manual, English and other applicable local languages to select
- · Protective wear bars
- S·O·SSM port
- Coolant
- Engine oil
- Hydraulic oil
- Transmission oil
- Swing out radiator grill
- · Ventilated hood and covers
- Tires and rims: A tire must be selected from the mandatory attachments section of the machine price list. Base machine price includes a standard tubeless rim allowance only.

NOTE: Additional equipment may be standard on selected models. Consult model specalog for more information.

For R1700 XE battery electric loader standard and optional equipment, please refer to R1700 XE technical specification AEX03328.

LOADER OPTIONAL EQUIPMENT

- · Battery and engine shutdown switch
- Ground level isolation, in cab isolation switch
- Ground level isolation, engine shutdown switch
- Ground level isolation, in cab isolation, engine shutdown switch
- · Brake pressure gauges
- Brake release arrangements
- Recovery hook
- Recovery bar
- · Buckets
- Cutting edge, Cat weld on
- Cutting edge, half arrow, flat
- Cutting edge, Bolt-On Half-Arrow (BOHA)
- Cutting edge, Cat Durilock™ Shroud System
- Mechanical Attached Shroud (MAS)
- Mechanically Attached Wear Plate System (MAWPS)
- Heel shrouds
- Ejector and dump buckets
- Lip fully welded or tack welded
- -Wear bars
- -Wear liner
- · Cover, anti vandalism for shipping
- · Drawbar attachment, bolt-on
- · Dual fuel tanks (selected models only)
- Engine options (except R1300G)
- Engine, Ventilation Reduction (VR)
- Engine, Tier 3
- Engine, EU Stage V (R1700 and R2900)
- · Fast fill system
- Coolant
- Engine oil
- Fuel (single or dual tanks)
- Hydraulic oil
- Transmission oil
- Fire suppression system
- -Ansul
- Foam, water based
- Fluids
- Arctic fuel
- Arctic coolant
- · Guard, rear side quarter window
- · Handrails, fold down
- · Hydraulic system
- Ejector bucket ready
- Alternate implement/pilot control configuration

- · Idle timer
- Lighting
- External lighting system, front, rear, LED work lights
- · Lubrication system
- Automatic
- Centralized
- · Mine transfer
- Mine transfer ready rear frame (tack welded)
- Lifting group, mine transfer
- · Operator station ROPS/FOPS enclosed (standard on R3000H)
- Air conditioning and heater
- Cab pressurizer and filter
- Dome light
- Radio ready compartment for radio and speakers
- · Park brake switch engagement
- Push to apply
- Pull to apply
- · Payload monitoring system
- · Reflective tape
- Remote control interface (excludes transmitter and receiver)
- · Reversible steering
- · Ride control system
- Rim
- -Tube type
- Spare (tube or tubeless)
- Rim identification numbering
- · Seat covers
- Tee and standard
- · Secondary steering system
- Technology
- Cat[®] MineStar[™] Fleet, Detect, Health and Command
- Vital Information Management System (VIMS) Gen 3 (except R1700 and R2900, which have Product Link™ system as standard)
- Tee seat
- Tire arrangements
- Bridgestone VSMS STMS VSDL
- Wear protection bars
- -Cab/ROPS
- Hydraulic tank
- Radiator
- Windows
- Single pane
- Dual pane

 ${\tt NOTE: Not all \ features \ are \ available \ in \ all \ regions \ and \ models. \ See \ your \ Cat \ dealer \ for \ more \ information.}$

AD30 AD45

AD30 Underground Mining Truck

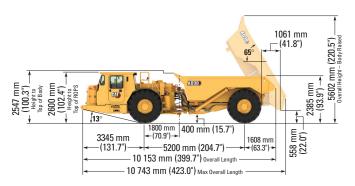
Engine Power @ 1,800 rpm – ISO	14396:2002	
VR Engine	299 kW	(401 hp)
Tier 3 Engine	299 kW	(401 hp)
Engine Model	Cat C15	•
Tire Size	$26.5 \times R25$	

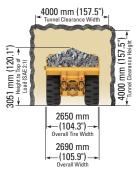
Dimensions

Dimensions		
Nominal Payload Capacity (Dump Body)	30 000 kg	(66,138 lb)
Nominal Payload Capacity (Ejector Body)	27 000 kg	(59,525 lb)
Gross Machine Mass	60 000 kg	(132,277 lb)
Body Capacity (Standard)	14.4 m³	(18.8 yd ³)
Width (Overall)	2690 mm	(105.9 in)
Height (Overall)	2600 mm	(102.4 in)
Length (Overall)	10 153 mm	(399.7 in)
Dump Height	5602 mm	(220.6 in)
Outside Clearance Radius	8571 mm	(337.4 in)
Inside Clearance Radius	5030 mm	(198.0 in)
Hydraulic Cycle Time	Secs	
Raise	10.5	
Lower	11.2	
Total	21.7	
Axle Oscillation	± 10°	
Articulation Angle	± 42.5°	
Ground Clearance	400 mm	(15.7 in)
Speeds Forward	km/h	(mph)
1st	6.3	(3.9)
2nd	11.3	(7.0)
3rd	20.8	(12.9)
4th	36.7	(22.8)

Speeds Reverse		
1st	7.1	(4.4)

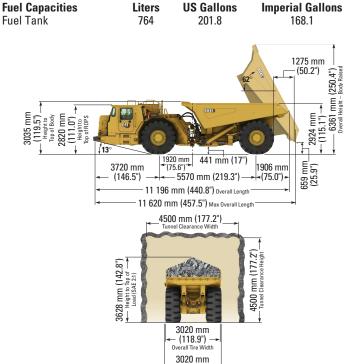
Fuel Capacities	Liters	US Gallons	Imperial Gallons
Fuel Tank	410	108	90





AD45 Underground Mining Truck

Engine Power @ 2,000 rpm – ISO 14396:2 EU Stage V Engine VR Engine Tier 3/Stage IIIA Equivalent Engine Engine Model Tire Size	002 446 kW 433 kW 433 kW Cat C18 29.5 × R29	(598 hp) (581 hp) (581 hp)
Dimensions Nominal Payload Capacity Gross Machine Mass Body Capacity (Standard) Width (Overall) Height (Overall) Length (Overall) Dump Height	45 000 kg 88 820 kg 21.3 m³ 3020 mm 3035 mm 11 196 mm 6361 mm	(99,208 lb) (195,815 lb) (27.9 yd³) (118.9 in) (119.5 in) (440.8 in) (250.4 in)
Outside Clearance Radius Inside Clearance Radius Body Hoist (Stage V Engine Model) Raise Lower	9420 mm 5310 mm Secs 15 21	(371.0 in) (209.0 in)
Total Body Hoist (Other Engine Models) Raise Lower Total	36 Secs 14 21 35	
Axle Oscillation Articulation Angle	± 10° ± 42.5°	
Ground Clearance Speeds Forward	441 mm km/h	(17.4 in) (mph)
1st 2nd 3rd	7 9.5 12.9	(4.4) (5.9) (8.0)
4th 5th 6th	17.3 23.5 31.7	(10.8) (14.6) (19.7)
7th Speeds Reverse	42.4	(26.4)
1st 2nd	6.8 9	(4.2) (5.6)



(118.9") Overall Width

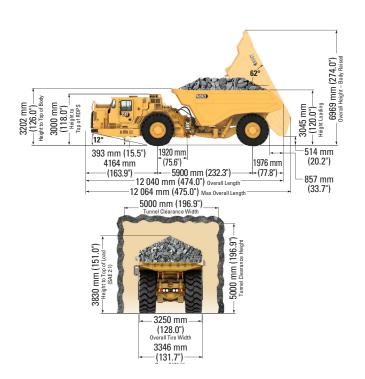
BODY CAPACITIES

AD63 Underground Mining Truck

Engine Power @ 1,800 rpm - ISO	14396:2002	
Stage V Engine	593 kW	(795 hp)
Engine Model	Cat C27	
Tire Size	$35 \times 65 \text{ R}33$	

Dimensions		
Nominal Payload Capacity	63 000 kg	(138,891 lb)
Gross Machine Mass	118 940 kg	(262,218 lb)
Body Capacity (Standard)	26.9 m ³	(35.2 yd ³)
Width (Overall)	3346 mm	(132.0 in)
Height (Overall)	3202 mm	(126.0 in)
Length (Overall)	12 040 mm	(474.0 in)
Dump Height	6969 mm	(274.0 in)
Outside Clearance Radius	10 005 mm	(393.9 in)
Inside Clearance Radius	5540 mm	(218.1 in)
Body Hoist	Secs	
Raise	13	
Lower	24	
Total	37	
Axle Oscillation	± 10°	
Articulation Angle	± 42.5°	
Ground Clearance	393 mm	(15.5 in)
Speeds Forward	km/h	(mph)
1st	6.5	(4.1)
2nd	9.2	(5.7)
3rd	12.4	(7.7)
4th	16.6	(10.3)
5th	22.5	(14.0)
6th	30.3	(18.9)
7th	41.0	(25.5)
Speeds Reverse		(= 0)
1st	8.6	(5.3)

Fuel Capacities	Liters	US Gallons	Imperial Gallons
Fuel Tank	900	237.7	





Douy	capacines

All Capacities = (SAE 2:1)	Size		Width		Height	
AD30	m^3	(yd^3)	mm	(inch)	mm	(inch)
246-0806	11.3	(14.8)	2690	(105.9)	2285	(90.0)
246-0811 (STD)	14.4	(18.8)	2690	(105.9)	2385	(93.9)
379-9770 (WB)	16.8	(21.9)	3040	(119.7)	2295	(90.4)
246-0790	17.5	(22.9)	2840	(111.8)	2560	(100.8)
262-1149 (EB) ²	15.2	(19.9)	2898	(114.1)	2616	(103.0)
380-0092 (EB) ³	16.8	(21.9)	2898	(114.1)	2791	(109.9)
AD45	m^3	(yd^3)	mm	(inch)	mm	(inch)
313-2819	18.0	(23.5)	3000	(118.1)	2720	(107.1)
268-1102 (STD)	21.3	(27.9)	3000	(118.1)	2925	(115.2)
274-4050	25.1	(32.8)	3200	(126.0)	3070	(120.9)
568-7265 (EB) ⁴	22.9	(29.9)	3200	(126.0)	3177	(125.1)
AD63	m^3	(yd^3)	mm	(inch)	mm	(inch)
311-4729 (STD)	26.9	(35.2)	3290	(129.5)	3045	(119.9)
308-5385	32.6	(42.6)	3480	(137.0)	3326	(130.9)
311-4727	33.8	(44.2)	3480	(137.0)	3426	(134.9)
311-4728	36.6	(47.9)	3480	(137.0)	3473	(136.7)
533-2302 (LM)	38.3	(50.1)	3500	(138.0)	3473	(136.7)

(STD) Standard Body (WB) Wide Body (EB) Ejector Body (LM) Light Material Body 1526-6516 in the U.S. '351-1325 in the U.S. '380-0093 in the U.S. '568-7266 in the U.S.

TRUCK STANDARD EQUIPMENT

ELECTRICAL

- 12V power supply in cab
- Alternator
- · Auxiliary battery receptacle
- Battery disconnect switch, ground level
- Circuit breaker, 80-amp
- · Diagnostic connector
- Electric starting, 24V
- · Engine shutdown switch, ground level
- · Lighting (halogen or LED on selected models)
- Brake and tail light, LED
- Headlights with dimmer switch
- Rear work light (cab mounted)
- Reversing lights
- Low maintenance batteries
- Reversing alarm
- · Starting and charging system

OPERATOR ENVIRONMENT

- Cat Electronic Monitoring System (Cat EMS)
- Electric horns
- Gauges
- Engine coolant temperature
- Transmission coolant temperature
- Hydraulic oil temperature
- Fuel level
- Speedometer
- Tachometer
- · Indicator lights
- Alert warning light
- Body up position warning
- Brake drag indicator
- High beam
- Residual brake pressure warning
- Retarder application
- Turn signal
- · Low hydraulic level warning
- Open operator station ROPS/FOPS structure (except AD63)
- · Operator presence system (auto park brake)
- Rearview mirrors
- Tilt/telescopic steering wheel (tilt only on AD22)

POWER TRAIN

- · Cat engine (model varies depending on selected truck)
- · Automatic brake retarder control (manual on AD22)
- Auto shift transmission
- Electric fuel priming pump (manual on AD22)
- · Exhaust, turbo compartment shielding
- · Four wheel drive
- · Long life coolant
- · Programmable ground speed limiting
- · Programmable gear block out with tray up
- · Radiator cap manual release
- · Radiator, cross flow
- · SAFR full hydraulic enclosed wet, multiple-disc brakes, oil-cooled
- Torque converter, standard with automatic lockup

OTHER STANDARD EQUIPMENT

- Body, Dump (size varies depending on selected truck)
- · Catalytic exhaust purifier/muffler group
- · Centralized lubrication points
- · Decals, international pictographics
- · Dual fuel tank (AD45 and AD63 only)
- · Engine and transmission belly guards
- Fenders, front, rear flaps
- · Fire wall
- Front axle suspension (AD45 and AD63 only)
- · Frame lifting lugs
- · Front and rear tow pin
- · Front rubber bumpers (AD45 and AD63 only)
- Fuel system manual shut off tap
- Hand hold (access on/off top deck)
- · Hitch, articulated and oscillated
- Operator and maintenance manual, English and other applicable local languages to select
- Secondary steering system (AD63 only)
- S·O·S port
- Coolant
- Engine oil
- Hydraulic oil
- Transmission oil
- · Swing out radiator grill
- · Ventilated hood and covers
- Tires and rims: A tire must be selected from the mandatory attachments section of the machine price list. Base machine price includes a standard tubeless rim allowance only.

NOTE: Additional equipment may be standard on selected models. Consult model specalog for more information.

TRUCK OPTIONAL EQUIPMENT

- · Battery shutdown
- Ground level isolation, in cab isolation switch
- Ground level isolation, engine shutdown switch
- Ground level isolation, in cab isolation, engine shutdown switch
- Body
- Dump
- Ejector
- · Body liners
- Brake pressure gauges
- · Camera, color rear facing
- · Cover, anti vandalism for shipping
- · Engine options
- Diesel particulate filter (for use with VR engine only)
- Engine, Ventilation Reduction (VR) (except AD63)
- -Tier 3 (except AD63)
- · Fast fill system
- Coolant
- Engine oil
- Fuel
- Hydraulic oil
- Transmission oil
- Fire suppression system
- Ansul, dry powder
- Foam, water based
- Fluids
- Arctic fuel
- Arctic coolant
- Lighting
- Headlights with dimmer switch, LED
- Rear work light (cab mounted), LED
- Reversing lights, LED
- · Lubrication system
- Automatic, dump or ejector body
- Centralized, ejector body

- · Mine transfer
- Mine transfer ready front frame (tack welded)
- Mine transfer ready dump body (tack welded)
- Mine transfer ready ejector body (tack welded)
- Operator station ROPS/FOPS enclosed (standard on AD63)
- Air conditioning
- Cab pressurizer and filter
- Dome light
- Heater
- Radio ready compartment for radio and speakers
- Sun visor
- -Window, sliding cab door
- · Park brake switch engagement
- Push to apply
- Pull to apply
- Payload
- Truck Payload Measurement System (TPMS)
- Remote display for TPMS
- · Reflective tape
- Rims
 - Rim identification numbering
- Spare, tubeless
- Seat
- Suspension seat Cat Comfort TLV2, vinyl
- Suspension seat tee, mechanical
- · Seat cover
- Tee and Cat Comfort TLV2
- Seat cover, companion
- · Secondary steering system
- Switches
- Engine shutdown, fire suppression activation
- Idle timer
- Engine shutdown, fire suppression activation/idle timer
- · Technology
- Cat® MineStar™ -- Fleet, Detect, Health and Command
- Vital Information Management System (VIMS) Gen 3 (except AD45 and AD63, which have Product Link™ system as standard)
- Tire arrangements
- Tire Bridgestone VSNT VSDL

NOTE: Not all features are available in all regions and models. See your Cat dealer for more information.

SPECALOGS

Technical Specification References

Loaders

R1300G - AEXQ3477

R1600H - AEXQ3521

R1700 - AEXQ3514

R2900G - AEXQ3471

R2900 - AEHQ8287

R2900 XE - AEXQ3327

R3000H-AEXQ3478

R1700 XE and MEC500 - AEXQ3328

Trucks

AD30 - AEXQ3472

AD45 - AEXQ3473

AD63 - AEXQ3458

Ground Engaging Tools

Cat® Mining Ground Engaging Tools Product Catalog – PEBJ0030

Cat® Mining Ground Engaging Tools Parts Catalog – PEBJ0031

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

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Featured machines in photos may include additional equipment.

See your Caterpillar dealer for available options.