Cat[®] Underground Mining Hard Rock Vehicles Product Line







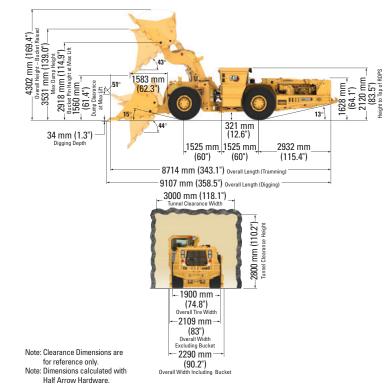




R1300G

R1300G Underground Mining Loader

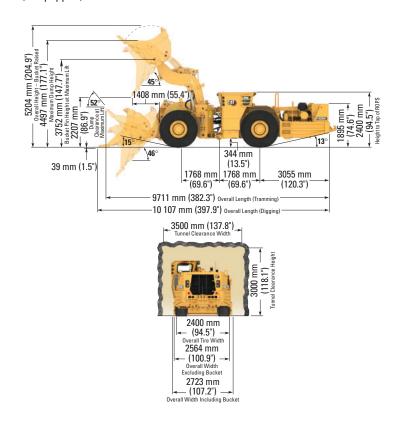
nisoud olluery	n isoud olluergroullu willing Loader					
Engine Power @ 2,200 rp Engine Engine Model Tire Size	m – ISO 143	396:2002 117 kW Cat® 3306E 17.5 × R25	(157 hp) 3 DITA			
Dimensions Nominal Payload Capacit Gross Machine Operating Bucket Capacity (Standar Bucket Width Width (Overall Including Width (Overall Excluding Height (Overall) Length (Tramming) Outer Clearance Radius Inner Clearance Radius Inner Clearance Radius Hydraulic Cycle Time Raise Dump Lower Total Axle Oscillation Articulation Angle Ground Clearance	g Weight rd) Bucket)	6800 kg 29 702 kg 3.1 m ³ 2200 mm 2109 mm 2109 mm 2120 mm 8714 mm 5717 mm 2825 mm Secs 5.0 2.0 2.3 9.3 ± 10° ± 42.5° 321 mm	(14,991 lb) (65,482 lb) (4.1 yd ³) (86.6 in) (90.2 in) (83 in) (83.5 in) (343.1 in) (225.1 in) (111.2 in)			
Speeds Forward 1st 2nd 3rd 4th Speeds Reverse 1st 2nd 3rd 4th Fuel Capacities	Liters	km/h 4.5 7.8 15 26.3 4.5 7.8 14.8 23 US Gallons	(mph) (2.8) (4.8) (9.3) (16.3) (2.8) (4.8) (9.2) (14.3) Imperial Gallons			
Fuel Tank	295	05 Gallons 77.9	64.9			



R1600H

R1600H Underground Mining Loader

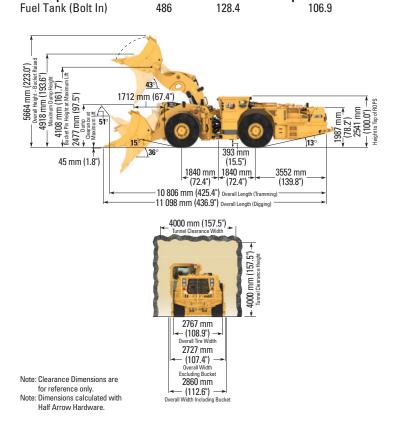
•		0	
Engine Power @ 1,800 rp VR Engine Tier 3 Engine Engine Model Tire Size	om – ISO 14	396:2002 202 kW 202 kW Cat C11 18.00 × R2	(271 hp) (271 hp) 5
Dimensions Nominal Payload Capaci Gross Machine Mass Bucket Capacity (Standa Bucket Width Width (Overall Including Width (Overall Including Height (Overall) Length (Tramming) Outer Clearance Radius Inner Clearance Radius Hydraulic Cycle Time Raise Dump Lower Total Axle Oscillation Articulation Angle Ground Clearance	urd) Bucket)	10 200 kg 44 204 kg 4.8 m ³ 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 yd ³) (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 1st 2nd 3rd 4th		km/h 4.5 9 16.8 27.5 5 11 19 29.3	(mph) (2.8) (5.6) (10.4) (17.1) (3.1) (6.8) (11.8) (18.2)
Fuel Capacities Fuel Tank Secondary Fuel Tank (If Equipped)	Liters 400 330	US Gallons 105.7 87.2	Imperial Gallons 88.0 72.6



R1700

R1700 Underground Mining Loader

Fuel Capacities	Liters		allons	Imperial Gallons
4th			32.5	(20.2)
3rd			18.7	(11.6)
2nd			10.5	(6.5)
1st			5.9	(3.7)
Speeds Reverse			20.Õ	(17.9)
3rd 4th			16.4 28.8	(10.2)
2nd			9.2	(5.7)
1st			4.9	(3)
Speeds Forward			km/h	(mph)
Ground Clearance			393 mm	(15 in)
Articulation Angle			± 44°	
Axle Oscillation			± 8°	
Total			13.2	
Lower			2.9	
Dump			3.3	
Raise			6.8	
Hydraulic Cycle Time			Secs	(120.0 11)
Inside Clearance Radius			3139 mm	(123.5 in)
Outside Clearance Radius			6857 mm	(425 iii) (270 in)
Length (Tramming)			10 806 mm	(100 in) (425 in)
Width (Overall Excluding Bu Height (Overall)	ucket)		2727 mm 2541 mm	(107 in) (100 in)
Width (Overall Including Bu			2860 mm	(113 in)
Bucket Width	(1 - 1 - 1		2830 mm	(111 in)
Bucket Capacity (Standard))		5.7 m ³	(7.5 yd ³)
Gross Machine Mass			62 930 kg	(138,737 lb)
Nominal Payload Capacity -	– Truck Lo	ading		(33,069 lb)
Nominal Payload Capacity -			15 000 kg	(33,069 lb)
Dimensions				
Engine Model Tire Size			26.5 × R25	
VR Engine			269 kW Cat C13	(361 hp)
Tier 3 Engine			269 kW	(361 hp)
Engine Power @ 1,800 rpm	ı – ISO 143	396:200		
EU Stage V Engine			257 kW	(345 hp)
Engine Power @ 2,050 rpm	– ISO 143	396:200)2	



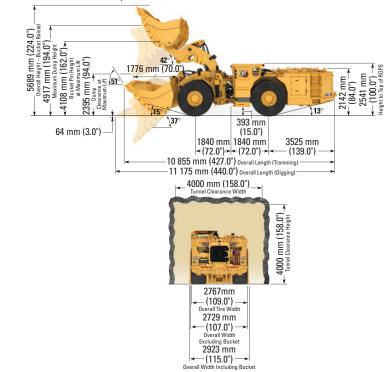
R1700 XE

R1700 XE Underground Mining Loader – Battery Electric

•		
Traction Motor Rated Power – Peak Rated Power – Nominal Rated Torque (peak, nominal =	Cat, Switched Re 250 kW 220 kW	eluctance (335 hp) (295 hp)
@ 12 km/h (7.5 mph) and nominal power) Auxiliary Motor	3200 N·m/660 N·r (2360 lbf·ft/443 lb Cat, Switched Re	f∙ft)
Rated Power (peak, nominal) Rated Torque (peak, nominal = 1,600 equivalent rpm)	226 kW 600 N·m/531 N·m	303 hp
Inverter Rating Battery Chemistry Charging Method	(443 lbf·ft/392 lbf· 350A (nominal D Li-Ion Ultra Fast Charge	C), 715VDC
Tire Size Dimensions Naminal Davidard Conceptu	26.5R25	(22.060 lb)
Nominal Payload Capacity Operating Mass Bucket Capacity (Standard) Bucket Width	15 000 kg 48 743 kg 5.7 m ³ 2830	(33,069 lb) (107,460 lb) (7.5 yd ³) (111 in)
Width (Overall Including Bucket) Width (Overall Excluding Bucket) Height (Overall) Length (Tramming)	2923 2729 2541 10 855 mm	(115 in) (107 in) (100 in) (427 in)
Outside Clearance Radius Inside Clearance Radius Hydraulic Cycle Time	6997 mm 3189 mm Secs	(427 in) (272 in) (124 in)
Raise Dump Lower Total	6.8 3.3 2.9 13.2	
Axle Oscillation Articulation Angle Ground Clearance	± 8° ± 44° 393 mm	(15 in)

Grade Performance

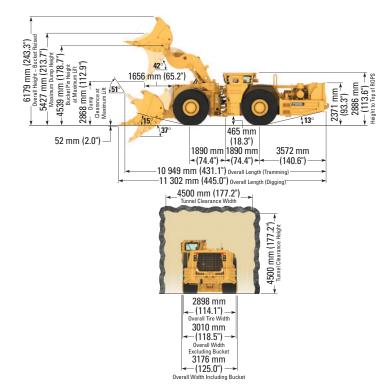
25 Degree Ambient, 2% Rolling Resistance							
Grade (%)	0	5	10	15	20		
Loaded – km/h (mph)	18 (11.2)	14.8 (9.2)	8.6 (5.3)	6.1 (3.8)	4.8 (3)		
Unloaded – km/h (mph)	18 (11.2)	18 (11.2)	11.1 (6.9)	7.9 (4.9)	6.2 (3.9)		



R2900G

R2900G Underground Mining Loader

J		J -	
Engine Power @ 1,800 rp VR Engine Tier 3 Engine Engine Model Tire Size	m - ISO 143	396:2002 299 kW 299 kW Cat C15 29.5 × R29	(401 hp) (401 hp)
Dimensions Nominal Payload Capacit Gross Machine Mass Bucket Capacity (Standa Bucket Width Width (Overall Including Width (Overall Excluding Height (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)	17 200 kg 73 451 kg 7.2 m ³ 3054 mm 3176 mm 3010 mm 2886 mm 10 949 mm 7323 mm 3383 mm Secs 9.2 3.4 3.1 15.7 \pm 8° \pm 42.5° 465 mm	(37,920 lb) (161,932 lb) (9.4 yd ³) (120.4 in) (125.0 in) (118.5 in) (113.6 in) (431.1 in) (288.3 in) (133.2 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 12.0 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 (Dual)	Liters 1425	US Gallons 376.4	Imperial Gallons 313.5



R2900 XE

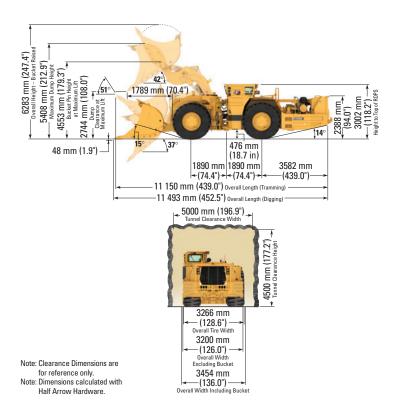
R2900 XE Underground Mining Loader – Diesel Electric

210001 21000110		
Engine Power @ 1,600 rpm Stage V Engine – ISO 1439 Tier 2/Stage II Engine –	16:2002 335 kW	(449 hp)
ISO 14396:2002	333 kW	(447 hp)
Engine Model Transmission Type	Cat C15 Cat swit	ched reluctance
	electric	drive
Tire Size	29.5 × R	29
Dimensions		
Nominal Payload Capacity Gross Machine Mass	18 500 kg 78 089 kg	
Bucket Capacity (Standard)	70 003 kg 7.4 m ³	(9.7 yd ³)
Bucket Width	3054 mm	n (120 in)
Width (Overall Including Bucke Width (Overall Excluding Buck		
Height (Overall)	2860 mm	
Length (Tramming)	11 033 m	
Outside Clearance Radius Inside Clearance Radius	7270 mm 3391 mm	
Hydraulic Cycle Time	Secs	1 (134111)
Raise	9	
Dump	2.8	
Lower Total	3.5 15.3	
Axle Oscillation	± 8°	
Articulation Angle	± 42.5°	
Ground Clearance	405 mm	(16 in)
Speeds Forward (virtual)	km/h	(mph)
1st 2nd	5.8 9.5	(3.6) (5.9)
3rd	17	(10.6)
4th	24.6	(15.3)
5th Speeds Boyerse (virtual)	33.4	(20.8)
5th Speeds Reverse (virtual) 1st	33.4 6	
Speeds Reverse (virtual) 1st 2nd	6 10.1	(3.7) (6.3)
Speeds Reverse (virtual) 1st 2nd 3rd	6 10.1 18	(3.7) (6.3) (11.3)
Speeds Reverse (virtual) 1st 2nd	6 10.1	(3.7) (6.3) (11.3) (16.2)
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th	6 10.1 18 26	(3.7) (6.3) (11.3)
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities	6 10.1 18 26 32.9	(3.7) (6.3) (11.3) (16.2) (20.4)
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Lin Fuel Tank (Bolt In) 6	6 10.1 18 26 32.9 US Gallons	(3.7) (6.3) (11.3) (16.2) (20.4)
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In)	6 10.1 18 26 32.9 US Gallons	(3.7) (6.3) (11.3) (16.2) (20.4)
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In)	6 10.1 18 26 32.9 ters US Gallons 60 174.4	(3.7) (6.3) (11.3) (16.2) (20.4)
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In)	6 10.1 18 26 32.9 ters US Gallons 60 174.4	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In)	6 10.1 18 26 32.9 ters US Gallons 60 174.4	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1st 2nd 3rd 4th 5th Fuel Capacities 1652 mm 1652 mm 1655 mm	6 10.1 18 26 32.9 ters US Gallons 60 174.4	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1st 2nd 3rd 4th 5th Fuel Capacities 1652 mm 1652 mm 1655 mm	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (65.0°) (65.0°) (65.0°) (74.4 (16.0°) (1890 mm (18.0°) 1890 mm (18.90 mm	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 US Gallons 60 174.4	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (5.0°) (5.0°) (5.0°) (5.0°) (16.0°) (1890 mm (890 mm -(74.0°)+(74.0°) +(74.0°) (16.0°) (1890 mm (890 mm (484.0°) Overall Length (7 11 320 mm (446.0°) overall Length (7	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (5.0°) (5.0°) (5.0°) (5.0°) (5.0°) (1800 mm (180°) mm (16.0°) (1800 mm (180°) mm (-(74.0°) + (74.0°) +	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (65.0") (65.0") (10.0") (16.0") (16.0") (16.0") (18.90 mm (170.0") (10.33 mm (434.0") overall Length (1 11 033 mm (434.0") overall Length (1 11 032 mm (446.0") overall Length (1 11 032 mm (446.0") overall Length (1 11 032 mm (446.0") overall Length (1 10 00 mm (177.0") → (1 10 00 mm (170.0") → (1) 00 m	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (65.0") (65.0") (10.0") (16.0") (16.0") (16.0") (18.90 mm (170.0") (10.33 mm (434.0") overall Length (1 11 033 mm (434.0") overall Length (1 11 032 mm (446.0") overall Length (1 11 032 mm (446.0") overall Length (1 11 032 mm (446.0") overall Length (1 10 00 mm (177.0") → (1 10 00 mm (170.0") → (1) 00 m	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (65.0") (65.0") (10.0") (16.0") (16.0") (16.0") (18.90 mm (170.0") (10.33 mm (434.0") overall Length (1 11 033 mm (434.0") overall Length (1 11 032 mm (446.0") overall Length (1 11 032 mm (446.0") overall Length (1 11 032 mm (446.0") overall Length (1 10 00 mm (177.0") → (1 10 00 mm (170.0") → (1) 00 m	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (65.0") (65.0") (10.0") (16.0") (16.0") (16.0") (18.90 mm (170.0") (10.33 mm (434.0") overall Length (1 11 033 mm (434.0") overall Length (1 11 032 mm (446.0") overall Length (1 11 032 mm (446.0") overall Length (1 11 032 mm (446.0") overall Length (1 10 00 mm (177.0") → (1 10 00 mm (170.0") → (1) 00 m	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (65.0') (65.0') (890 mm (170.0') (1890 mm (170.0') (10.0') are (170.0') = √ (10.0') are (170.0') = √ ((3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (5.0°) (65.0°) (65.0°) (16.0°) 1890 mm 1890 mm -(74.0°) → (74.	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (65.0°) (65.0°) (11 000 mm -(74.0°) + (7	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (5.0') (65.0') (65.0') (16.0') (16.0') 1890 mm (170) (16.0') 1890 mm (170) (16.0') 1890 mm (170) (16.0') 1890 mm (170) (16.0') 1300 mm (177.0') (11.033 mm (434.0') overall tength (1 11.033 mm (177.0') (11.033 mm (177.0') (11.033 mm (170.0') (11.033 mm (170.0') (11.033 mm (11.03) (11.033 mm (11.033 mm (11.033) (11.033 mm (11.033) ((3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons
Speeds Reverse (virtual) 1st 2nd 3rd 4th 5th Fuel Capacities Fuel Tank (Bolt In) 1652 mm 1652 mm 1655	6 10.1 18 26 32.9 ters US Gallons 60 174.4 (65.0°) (65.0°) (65.0°) (174.4 (174.4) (1890 mm 1890 mm -(74.0°) → (7	(3.7) (6.3) (11.3) (16.2) (20.4) Imperial Gallons

R3000H

R3000H Underground Mining Loader

5		5	
Engine Power @ 1,800 rp VR Engine Tier 3 Engine Engine Model Tire Size	n – ISO 143	396:2002 299 kW 299 kW Cat C15 35/65 R33	(401 hp) (401 hp)
Dimensions Nominal Payload Capacit Gross Machine Mass Bucket Capacity (Standar Bucket Width Width (Overall Including I Width (Overall Excluding Height (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 m ³ 3354 mm 3454 mm 3200 mm 3002 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) (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



Bucket Capacities

	Siz	e	Wid	th
R1300G	m ³	(yd ³)	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 514-5710 203-1792 (STD) 227-4704 514-5720 260-5198 (EB) 598-8733 (BTB)	m ³ 4.2 4.8 5.6 5.9 4.8 5.3	(yd ³) (5.5) (6.3) (7.3) (7.7) (6.3) (6.9)	mm 2600 2600 2600 2900 2600 2932	(inch) (102.4) (102.4) (102.4) (114.2) (102.4) (102.4) (115.4)
R1700 467-1827 (STD) 467-1828 467-1829 616-0585 467-1830 549-5378 467-1831 (LM) 566-6471 (EB) 561-1775 (BTB) 581-6671 (BTB)	m ³ 5.7 6.1 6.6 7.2 7.5 8.0 8.6 5.8 6.8 7.5	(yd ³) (7.5) (8.0) (8.6) (9.4) (9.8) (10.5) (11.2) (7.6) (8.9) (9.8)	mm 2840 2982 2932 3254 3354 3492 2780 2962 3376	(inch) (112) (117) (115) (115) (128) (132) (137) (109) (117) (133)
R1700 XE	m ³	(yd ³)	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	m ³	(yd ³)	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	m ³	(yd ³)	mm	(inch)
638-3510 (STD)	7.4	9.7	3054	(120)
638-3511	8.6	11.2	3154	(124)
638-3512	9.2	12	3354	(132)
638-3513	9.8	12.8	3454	(136)
R3000H	m ³	(yd ³)	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

GET OPTIONS

Ground Engaging Tools (GET) Options

Cat Modular Segment Welded GET System

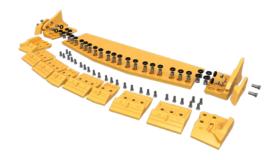
Individual segments are configured to form Lip Assemblies that cover all LHD size classes. Modular Shrouds deliver welded part reliability with the replacement simplicity of a mechanical system. Wear indicators are visible from the topside to help establish maintenance intervals.

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 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, R2900G, R2900 XE and R3000H LHDs, on all dump bucket and bolt-together bucket sizes.



For more information, please refer to

Cat[®] Mining Ground Engaging Tools Product Catalog – PEBJ0030 Cat[®] Mining Ground Engaging Tools Parts Catalog – PEBJ0031

MEC500

MEC500 Mobile Equipment Charger

Weights MEC500 MEC500 with Optional Skid	1656 kg	(3,650 lb)
(pictured below)	2037 kg	(4,490 lb)
Electrical Specifications		
Rated Power (AC Input)	500 kW	
Rated Current (DC Output)	700 Amps	
Voltage Range	400-660 VAC	
Voltage Output	300-1,000 VA	С
Frequency Range	45-65 Hz	
Input Supply (AC Input)	3-Phase Insu	lated Terra (IT)
Cable Output		
Cat Proprietary Connector	700 Amp	



MINESTAR™ FOR UNDERGROUND

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
- $-\operatorname{Tachometer}$
- Indicator lights
- Open operator station (ROPS/FOPS) structure (except R2900 XE and R3000H)
- Operator presence system (except on R1300G)
- Suspension seat with retractable seat belt (depends on selected model)
- Hydraulic implement controls, single joystick
- Pilot hydraulic implement controls (single joystick)
- Stic Steering

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
- Traction Control (R1700 and R2900 XE)
- Electric drive with automatic generator (R2900 XE)
- Single electric drive motor (R2900 XE)
- 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 AEXQ3328.

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·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.

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
- $-\operatorname{Recovery} \operatorname{bar}$
- Buckets
- Cutting edge, Modular Weld-on Half-Arrow (MWOHA)
- Cutting edge, Bolt-On Half-Arrow (BOHA)
- Cutting edge, Cat Durilock $\ensuremath{^{\text{TM}}}$ Shroud System
- -Mechanical Attached Shroud (MAS)
- Mechanically Attached Wear Plate System (MAWPS)
- Heel shrouds
- Dump, Ejector, Bolt-together and Light Material 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 XE)
- 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

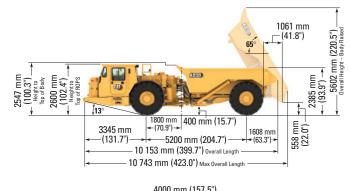
- Idle timer (standard on R2900 XE)
- Lighting
- External lighting system, front, rear, LED work lights
- Lubrication system
- -Automatic
- Centralized
- Mine transfer
- Mine transfer ready rear frame (tack welded)
- Lifting group, mine transfer
- Operator station ROPS/FOPS enclosed (standard on R2900 XE and R3000H)
- $-\operatorname{Air}$ conditioning and heater
- $-\operatorname{\mathsf{Cab}}\nolimits$ pressurizer and filter
- Dome light
- $-\operatorname{Radio}$ 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 R1600H, R1700, R2900 XE and R3000H, which have Product Link[™] system as standard)
- Tee seat
- Tire arrangements
- -Bridgestone VSMS2-VMDL-VSDL
- Wear protection bars
- -Cab/ROPS
- Hydraulic tank
- Radiator
- Windows
- $-\operatorname{Single}$ pane
- Dual pane

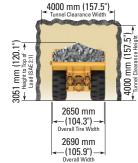
NOTE: Not all features are available in all regions and models. See your Cat dealer for more information.

AD30

AD30 Underground Mining Truck

Engine Power @ 1,800 rpm VR Engine Tier 3 Engine Engine Model Tire Size	n – ISO 14396:20	02 299 kW 299 kW Cat C15 26.5 × R25	(401 hp) (401 hp)
Dimensions Nominal Payload Capacity Nominal Payload Capacity Gross Machine Mass Body Capacity (Standard) Width (Overall) Height (Overall) Length (Overall) Dump Height Outside Clearance Radius Inside Clearance Radius Hydraulic Cycle Time Raise Lower Total Axle Oscillation Articulation Angle Ground Clearance Speeds Forward 1st 2nd 3rd 4th		30 000 kg 27 000 kg 60 000 kg 14.4 m ³ 2690 mm 2600 mm 10 153 mm 5602 mm 8571 mm 5030 mm Secs 10.5 11.2 21.7 \pm 10° \pm 42.5° 400 mm km/h 6.3 11.3 20.8 36.7	(66,138 lb) (59,525 lb) (132,277 lb) (18.8 yd ³) (105.9 in) (102.4 in) (399.7 in) (220.6 in) (337.4 in) (198.0 in) (15.7 in) (mph) (3.9) (7.0) (12.9) (22.8)
Speeds Reverse 1st		7.1	(4.4)
Fuel Capacities Fuel Tank	Liters US 410	Gallons 108	Imperial Gallons 90

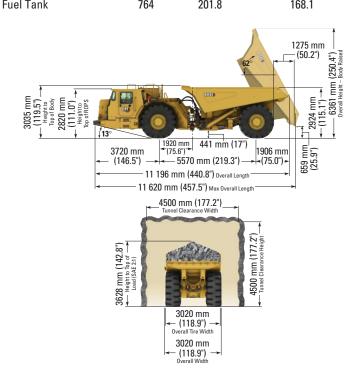




Note: Clearance Dimensions are for reference only.

AD45 Underground Mining Truck

5		•	
Engine Power @ 2,000 r EU Stage V Engine	pm – ISO 143	96:2002 446 kW	(598 hp)
VR Engine		433 kW	(581 hp)
Tier 3/Stage IIIA Equ	ivalent Engin		(581 hp)
Engine Model		Cat C18	(001 11)
Tire Size		29.5 × R29	
Dimensions			
Nominal Payload Capac	ity	45 000 kg	(99,208 lb)
Gross Machine Mass	ity	88 820 kg	(195,815 lb)
Body Capacity (Standar	(h	21.3 m ³	(133,0131b) (27.9 yd ³)
Width (Overall)	u)	3020 mm	(118.9 in)
Height (Overall)		3035 mm	(119.5 in)
Length (Overall)		11 196 mm	
Dump Height		6361 mm	(250.4 in)
Outside Clearance Radi	us	9420 mm	(371.0 in)
Inside Clearance Radius		5310 mm	(209.0 in)
Body Hoist (Stage V Eng		Secs	(20010 111)
Raise	joc,	15	
Lower		21	
Total		36	
Body Hoist (Other Engin	e Models)	Secs	
Raise		14	
Lower		21	
Total		35	
Axle Oscillation		± 10°	
Articulation Angle		± 42.5°	
Ground Clearance		441 mm	(17.4 in)
Speeds Forward		km/h	(mph)
1st		7	(4.4)
2nd		9.5	(5.9)
3rd		12.9	(8.0)
4th		17.3	(10.8)
5th		23.5	(14.6)
6th		31.7	(19.7)
7th		42.4	(26.4)
Speeds Reverse			(4.0)
1st		6.8	(4.2)
2nd		9	(5.6)
Fuel Capacities	Liters	US Gallons	Imperial Gallons
Fuel Tank	764	201.8	168.1



10

AD63

BODY CAPACITIES

AD63 Underground Mining Truck

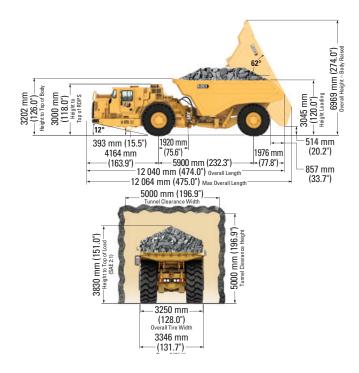
	•	
Engine Power @ 1,800 rpm – ISO 14 Stage V Engine	396:2002 593 kW	(795 hp)
Engine Model	Cat C27	(F <i>)</i>
Tire Size	35 × 65 R33	
Dimensions		
Nominal Payload Capacity	63 000 kg	(138,891 lb)
Gross Machine Mass	118 940 kg	(262,218 lb)
Body Capacity (Standard)	26.9 m ³	(35.2 yd ³)
Width (Overall)	3346 mm	(132.0 in)
Height (Overall)	3202 mm	(126.0 in)

Fuel Capacities Fuel Tank	Liters 900	US Gallons 237.7	Imperial Gallons
			/
1st		8.6	(5.3)
Speeds Reverse		41.0	(20.0)
7th		41.0	(18.9)
6th		22.5 30.3	(14.0)
4th 5th		16.6 22.5	(10.3) (14.0)
3rd		12.4	(7.7)
2nd		9.2	(5.7)
1st		6.5	(4.1)
Speeds Forward		km/h	(mph)
Ground Clearance		393 mm	(15.5 in)
Articulation Angle		± 42.5°	
Axle Oscillation		± 10°	
Total		37	
Lower		24	
Raise		13	
Body Hoist		Secs	
Inside Clearance Radius		5540 mm	(218.1 in)
Outside Clearance Radiu	IS	10 005 mm	(393.9 in)
Dump Height		6969 mm	(274.0 in)
Length (Overall)		12 040 mm	(474.0 in)
Height (Overall)		3202 mm	(126.0 in)



Body Capacities							
All Capacities = (SAE 2:1)	Size		W	Width		Height	
AD30	m ³	(yd³)	mm	(inch)	mm	(inch)	
613-7031	11.3	(14.8)	2690	(105.9)	2285	(90.0)	
613-7034 (STD)	14.4	(18.8)	2690	(105.9)	2385	(93.9)	
613-7037 (WB)	16.8	(21.9)	3040	(119.7)	2295	(90.4)	
613-7036	17.5	(22.9)	2840	(111.8)	2560	(100.8)	
613-7027 (EB)1	15.2	(19.9)	2898	(114.1)	2616	(103.0)	
613-7029 (EB) ²	16.8	(21.9)	2898	(114.1)	2791	(109.9)	
		(=)		(,		(,	
AD45	m ³	(yd³)	mm	(inch)	mm	(inch)	
568-7264	18.0	(23.5)	3000	(118.1)	2720	(107.1)	
568-7256 (STD)	21.3	(27.9)	3000	(118.1)	2925	(115.2)	
568-7260	25.1	(32.8)	3200	(126.0)	3070	(120.9)	
568-7265 (EB) ³	22.9	(29.9)	3200	(126.0)	3177	(125.1)	
000 / 200 (EB)	22.0	(20.0)	0200	(120.0)	0177	(120.17	
AD63	m³	(yd³)	mm	(inch)	mm	(inch)	
592-0787 (STD)	26.9	(35.2)	3290	(129.5)	3045	(119.9)	
592-0789	32.6	(42.6)	3480	(123.3)	3326	(130.9)	
592-0790	33.8	(44.2)	3480	(137.0)	3426	(130.3)	
592-0791	36.6		3480	(137.0)	3473	(134.3) (136.7)	
		(47.9)				• •	
588-8056 (LM)	38.3	(50.1)	3500	(138.0)	3473	(136.7)	
(STD) Standard Body (WB) Wide Body							

(STD) Standard Body (WB) Wide Body (EB) Ejector Body (LM) Light Material Body '613-7028 in the U.S. '2613-7030 in the U.S. '3568-7266 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)
- Suspension seat Cat Comfort TLV2 with retractable seat belt
- Trainer/passenger seat and seat belt
- Turn signal indicators (AD45 and AD63)

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

- $-\operatorname{\mathsf{Ground}}$ level isolation, in cab isolation switch
- Ground level isolation, engine shutdown switch
- Ground level isolation, in cab isolation, engine shutdown switch
- Body
- Dump
- Ejector (except AD63)
- 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)
- -EU Stage V engine (optional on AD45 and standard on AD63)
- Fast fill system
- Coolant
- Engine oil
- Fuel
- Hydraulic oil
- Transmission oil
- Fire suppression system
- Foam, water based
- Fluids
- Arctic fuel
- -Arctic coolant
- Lighting
- $-\operatorname{Headlights}$ with dimmer switch, LED
- Rear work light (cab mounted), LED
- Reversing lights, LED
- Lubrication system
- $-\operatorname{Automatic}$, 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)
- $-\operatorname{Remote}$ display for TPMS
- Reflective tape
- Rims
- Rim identification numbering
- Spare, tubeless
- Seat
- Suspension seat Cat Comfort TLV2, vinyl
- -Suspension seat tee, mechanical
- Cat Advanced Ride Management (ARM) seat with four point seatbelt harness (AD63)
- Seat cover
- Tee and Cat Comfort TLV2
- Seat cover, companion
- Secondary steering system
- Switches
- Engine shutdown, fire suppression activation
- Idle timer
- $-\operatorname{Engine}$ 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.

MODEL VS DRIVE SIZES

















R1300G 3.0 w × 2.8 h 3306B @ 117 kW (157 hp)

R1600H 3.5 w × 3.0 h C11@ 202 kW (271 hp)

R1700 4.0 w × 4.0 h C13@

R1700 XE 4.0 w × 4.0 h **Battery Electric** 15 000 kg (33,069 lb)

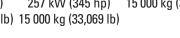
R2900G 4.5 w × 4.5 h C15@ 299 kW (401 hp)

R2900 XE 4.5 w × 4.5 h C15@ 335 kW (449 hp)

R3000H 5.0 w × 4.5 h C15@ 299 kW (401 hp) 17 200 kg (37,920 lb) 18 500 kg (40,785 lb) 20 000 kg (44,092 lb)

6800 kg (14,991 lb) 10 200 kg (22,487 lb) 15 000 kg (33,069 lb)

257 kW (345 hp)





	AD30 4.0w × 4.0h	AD45 4.5w × 4.5h	AD63 5.0w × 5.0h
	C15@	C18@	C27 @
	299 kW (401 hp)	446 kW (598 hp)	593 kW (795 hp)
Dump Body	30 000 kg (66,138 lb)	45 000 kg (99,208 lb)	63 000 kg (138,891 lb)
Ejector Body	27 000 kg (59,525 lb)	40 000 kg (88,185 lb)	

PASS MATCH TABLE

	R1300G	R1600H	R1700 / R1700 XE	R2900 /R2900 XE	R3000H
AD30	5 Pass	3 Pass			
AD45		4/5 Pass	3 Pass	3 Pass	
AD63				3/4 Pass	3 Pass

Guide to Pass Match

- · Pass match table is based on standard bucket and body.
- Bucket and body sizes will change match pass figures.
- · Bucket and body sizes should be matched to material weight.
- Actual pass match will vary depending on the density and the swell factor.
- · Rear loading will depend on bucket and body widths. Recommendation is side loading.

SPECALOGS

Technical Specification References

Loaders

R1300G – AEXQ3477 R1600H – AEXQ3521 R1700 – AEXQ3514 R2900G – AEXQ3471 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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AECQ1050-10

