

UNDERGROUND MINING EQUIPMENT

Loaders and Haulers for Hard Rock Mining

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Features, all models:

- Rugged design for underground application.
- Engineered for productivity, reliability, safety and machine rebuildability.
- Extensive use of steel castings and forgings.
- Cat heavy duty diesel engines and power trains.
- Computerized machine function monitoring.
- Four wheel enclosed wet disc brakes.
- Remote control options on loaders.
- Payload control system option on loaders.
- Ride control system optional on loaders.
- Fully enclosed air conditioned operator stations available.
- Operator Stations are ROPS/FOPS certified.

Product Line:

- Five models of Load-Haul-Dump (LHD) machines, with rated bucket payloads ranging from 6800 kg (14,991 lb) to 20 000 kg (44,100 lb).
- Three models of articulated dump trucks, with payload capacities of 30 000 kg (66,140 lb) to 55 000 kg (121,247 lb).
- Three models of articulated ejector trucks, with payload capacities of 27 000 kg (59,500 lb) to 50 000 kg (110,231 lb).



MODEL	R1300G		R1600G	
Bucket Size Minimum	2.4 m ³	3.1 yd³	4.2 m ³	5.5 yd³
Bucket Size Maximum	3.4 m ³	4.4 yd³	5.9 m ³	7.7 yd³
Tramming Capacity	6800 kg	14,991 lb	10 200 kg	22,487 lb
Length (Tramming)	8613 mm	28'3"	9711 mm	31'10"
Width Bucket(Standard)	2318 mm	7'6"	2723 mm	8'11"
Width over Tires	1900 mm	6'2"	2400 mm	7'10"
Height (Overall)	2120 mm	6'11"	2400 mm	7'10"
Operating Weight	20 875 kg	46,021 lb	29 800 kg	65,698 lb
Engine Power	123 kW	165 hp	201 kW	270 hp
Engine Model	3306 DITA		3176C EUI ATAAC	
Tire Size	17.5x25 20 Ply STMS L5S		18x25 28 Ply STMS L5S	
Outer Clearance Radius	5741 mm	18'10"	6638 mm	21'9"
Inner Clearance Radius	2914 mm	9'7"	3291 mm	10'7"
Articulation Angle	±42.5°		±42.5°	
Oscillation Angle	±10°		±10°	
Bucket Raise Time	5.0 Sec.		7.6 Sec.	
Bucket Lower Time	2.3 Sec.		2.0 Sec.	
Bucket Tip Time	2.0 Sec.		1.6 Sec.	
Bucket Total Time	9.3 Sec.		11.2 Sec.	
Travel Speeds	km/h	mph	km/h	mph
Forward 1	5.0	3.1	4.9	3.1
2	9.0	5.6	8.7	5.4
3	17.0	10.6	15.2	9.4
4	24.0	14.9	22.1	13.7
Reverse 1	5.0	3.1	5.7	3.5
2	9.0	5.0	9.9	6.1
3	15.0	9.3	17.1	10.6
4	23.0	14.3	23.8	14.8
Maximum Bucket Pin Height	2918 mm	9'7"	3752 mm	12'4"
Maximum Bucket Dump Angle	43°		45°	
Break Out Force SAE	12 480 kg	27,518 lb	19 280 kg	42,505 lb
Static Tipping (Load)	20 351 kg	44,866 lb	28 100 kg	61,950 lb
Service Brake	Inboard oil cooled fluid applied fully enclosed wet disc brakes on all wheels.		Caterpillar oil cooled, fluid applied spring release fully enclosed wet disc brakes on all wheels.	
Park Brake	SAFR™ Spring Applied Fluid Released wet disc brakes on all wheels.		Spring applied hydraulic released, all wheels.	
Fuel Capacity	295 L	77.9 U.S. gal	400 L	106 U.S. gal



MODEL	R1700G		R2900G		R2900G XTRA	
Bucket Size Minimum	4.6 m ³	6 yd ³	7.2 m	9.4 yd ³	8.9 m	11.6 yd ³
Bucket Size Maximum	8.8 m ³	11.4 yd ³	8.9 m ³	11.6 yd ³	11.6 m ³	15.2 yd ³
Tramming Capacity	14 000 kg*	30,870 lb*	17 200 kg	37,920 lb	20 000 kg	44,092 lb
Length (Tramming)	10 589 mm	34'9"	10 949 mm	35'11"	11 083 mm	37'10"
Width Bucket (Standard)	2894 mm	9'6"	3176 mm	10'5"	3472 mm	11'5"
Width over Tires	2650 mm	8'8"	2898 mm	9'5"	3142 mm	10'3"
Height (Overall)	2557 mm	8'5"	2886 mm	9'5"	2988 mm	9'8"
Operating Weight	38 500 kg	84,880 lb	50 209 kg	110,692 lb	55 575 kg	122,522 lb
Engine Power	241/263 kW	323/353 hp	321/333 kW	430/447 hp	321/333 kW	430/447 hp
Engine Model	C11 ACERT ATAAC		C15 ACERT ATAAC		C15 ACERT ATAAC	
Tire Size	26.5x25 32 Ply STMS L5S		29.5x29 34 Ply STMS L5S		35x65 R33	
Outer Clearance Radius	6878 mm	22'7"	7323 mm	24'0"	7511 mm	24'6"
Inner Clearance Radius	3229 mm	10'7"	3383 mm	11'1"	3289 mm	10'10"
Articulation Angle	±44°		±42.5°		±42.5°	
Oscillation Angle	±8°		±8°		±8°	
Bucket Raise Time	6.8 Sec.		9.2 Sec.		9.2 Sec.	
Bucket Lower Time	2.4 Sec.		3.1 Sec.		3.1 Sec.	
Bucket Tip Time	2.9 Sec.		3.4 Sec.		3.4 Sec.	
Bucket Total Time	12.1 Sec.		15.7 Sec.		15.7 Sec.	
Travel Speeds	km/h	mph	km/h	mph	km/h	mph
Forward 1	4.7	2.9	5.0	3.1	5.0	3.1
2	8.3	5.2	8.8	5.5	8.8	5.5
3	14.3	8.9	15.2	9.4	15.2	9.4
4	24.1	15.0	25.3	15.7	25.3	15.7
Reverse 1	5.4	3.3	6.2	3.9	6.2	3.9
2	9.4	5.8	10.9	6.8	10.9	6.8
3	16.4	10.2	18.6	11.6	18.6	11.6
4	25.3	15.7	26.4	16.4	26.4	16.4
Maximum Bucket Pin Height	4104 mm	13'6"	4539 mm	14'9"	4541 mm	14'9"
Maximum Bucket Dump Angle	46°		42°		42°	
Break Out Force SAE	20 100 kg	44,321 lb	27 346 kg	60,298 lb	27 346 kg	60,298 lb
Static Tipping (Load)	35 434 kg	78,119 lb	39 923 kg	88,015 lb	56 205 kg	123,911 lb
Service Brake	Spring Applied Fluid Released (SAFR™) fully enclosed wet disc brakes at all wheels. Front and rear circuits.		Spring Applied Fluid Released (SAFR™) fully enclosed wet disc brakes at all wheels. Front and rear circuits.		Spring Applied Fluid Released (SAFR™) fully enclosed wet disc brakes at all wheels. Front and rear circuits.	
Park Brake	SAFR™ Inboard spring applied fluid released, enclosed wet disc @ all wheels. Front and rear circuits.		SAFR™ Spring Applied Fluid Released wet discs on all wheels.		SAFR™ Spring Applied Fluid Released wet discs on all wheels.	
Fuel Capacity	550 L	145 U.S. gal	854 L	225.6 U.S. gal	1425 L	376.4 U.S. gal
Dump Clearance	2443 mm	8'0"	2868 mm	9'5"	2726 mm	8'11"

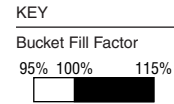
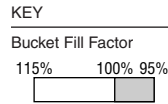
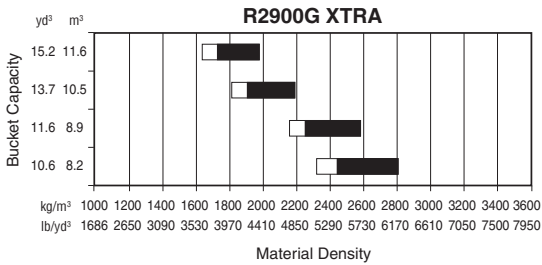
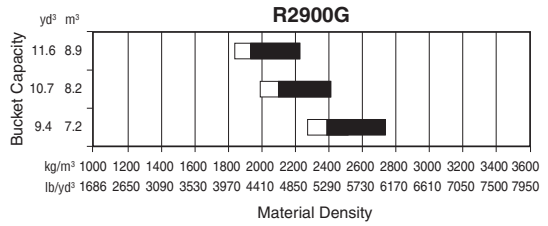
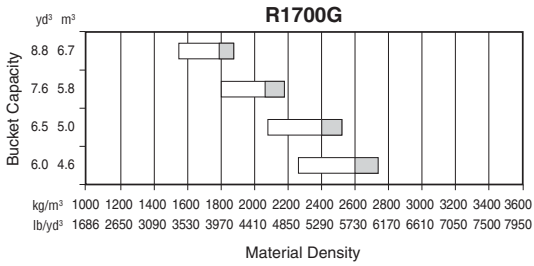
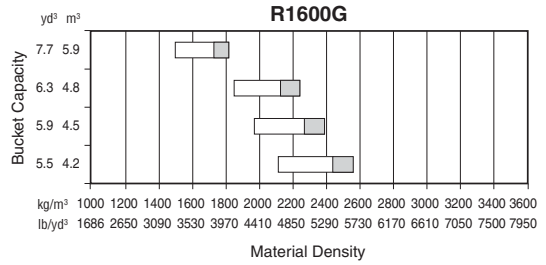
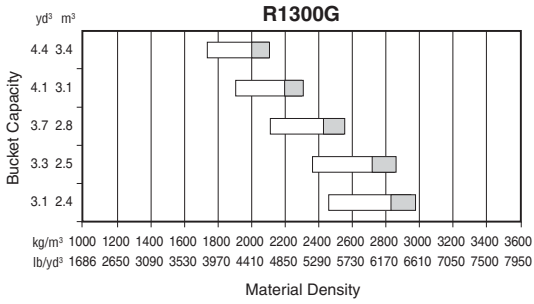
*14 000 kg (30,870 lb) tramming only, 12 500 kg (27,558 lb) truck loading.

NOTE: R1700G and R2900G XTRA: For Load, Haul, Carry only @ rated load. Not truck loading @ rated load.

Model	R1300G		R1600G		R1700G	
Rated payload	6800 kg	14,991 lb	10 200 kg	22,487 lb	14 000 kg	30,865 lb
Bucket capacity	3.1 m ³	4.1 yd³	4.8 m ³	6.3 yd³	5.7 m ³	7.5 yd³
Overall width	2318 mm	7'7"	2723 mm	8'11"	2894 mm	9'6"
Overall height	2120 mm	6'11"	2400 mm	7'10"	2557 mm	8'5"
Length (tramming)	8613 mm	28'3"	9711 mm	31'10"	10 589 mm	34'9"
Operating weight	20 875 kg	46,021 lb	29 800 kg	65,698 lb	38 500 kg	84,893 lb
Loaded weight	27 675 kg	61,013 lb	40 000 kg	88,185 lb	52 500 kg	115,743 lb
Ground clearance	328 mm	12.9"	344 mm	13.5"	429 mm	16.9"
Axle oscillation	±10°		±10°		±8°	

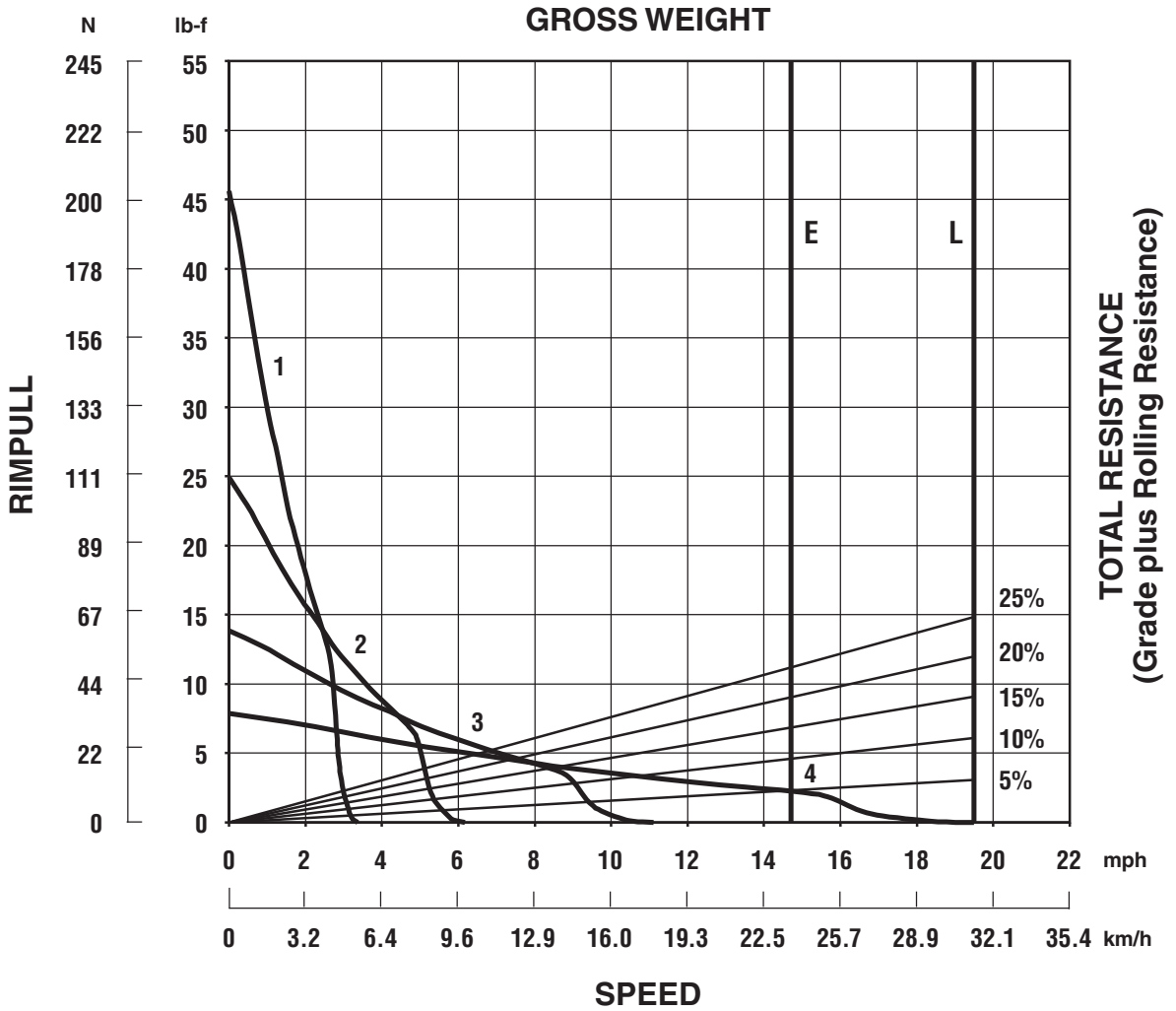
Model	R2900G		R2900G XTRA	
Rated payload	17 200 kg	37,920 lb	20 000 kg	44,092 lb
Bucket capacity	7.2 m ³	9.4 yd³	8.9 m ³	11.6 yd³
Overall width	3176 mm	10'5"	3472 mm	11'5"
Overall height	2886 mm	9'6"	2988 mm	9'8"
Length (tramming)	10 949 mm	35'11"	11 083 mm	36'4"
Operating weight	50 209 kg	110,692 lb	55 575 kg	122,522 lb
Loaded weight	67 409 kg	148,612 lb	75 575 kg	166,614 lb
Ground clearance	465 mm	18.3"	466 mm	18.4"
Axle oscillation	±8°		±8°	

Model	Bucket Type	SAE Capacity	
		m³	yd³
R1300G	Standard	2.4	3.1
	Standard	2.8	3.7
	Standard	3.1	4.1
	Standard	3.4	4.4
	Ejector	2.5	3.3
	R1600G	Standard	4.2
Standard		4.8	6.3
Standard		5.6	7.3
High Penetration		4.2	5.5
High Penetration		4.8	6.3
High Penetration		5.9	7.7
Ejector		4.8	6.3
R1700G	Standard	4.6	6.0
	Standard	5.0	6.5
	Standard	5.7	7.5
	Standard	6.6	8.6
	Standard	7.3	9.5
	High Penetration	5.0	6.5
	High Penetration	5.7	7.5
	High Penetration	6.6	8.6
	High Penetration	7.3	9.5
	Light Material	8.8	11.4
	Ejector	5.6	7.3
R2900G and R2900G XTRA	Standard	7.2	9.4
	Standard	8.3	10.9
	Standard	8.9	11.6
	High Penetration	7.2	9.4
	High Penetration	8.3	10.9
	High Penetration	8.9	11.6
	Light Material	10.5	13.7
	Light Material	11.6	15.2



Turning Dimensions

Model	R1300G	R1600G	R1700G	R2900G	R2900G XTRA
Turn radius (outside)	5741 mm 18'10"	6638 mm 21'9"	6878 mm 22'7"	7323 mm 24'0"	7511 mm 24'8"
Turn radius (inside)	2914 mm 9'7"	3291 mm 10'10"	3229 mm 10'7"	3383 mm 11'1"	3289 mm 10'8"
Articulation angle	±42.5°	±42.5°	±44°	±42.5°	±42.5°

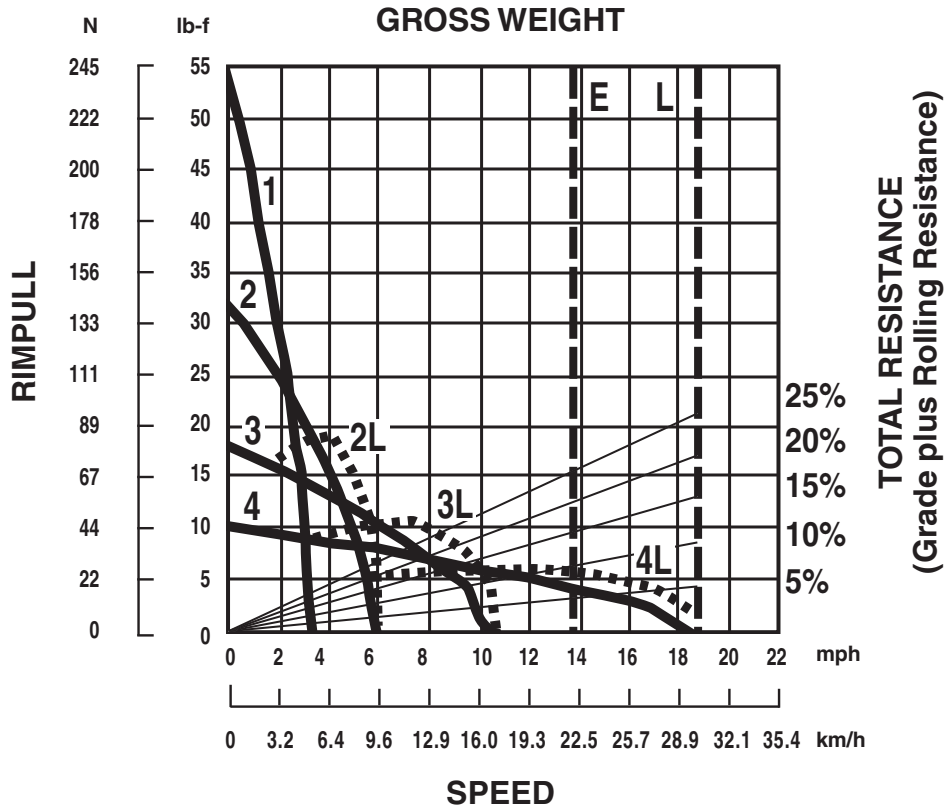


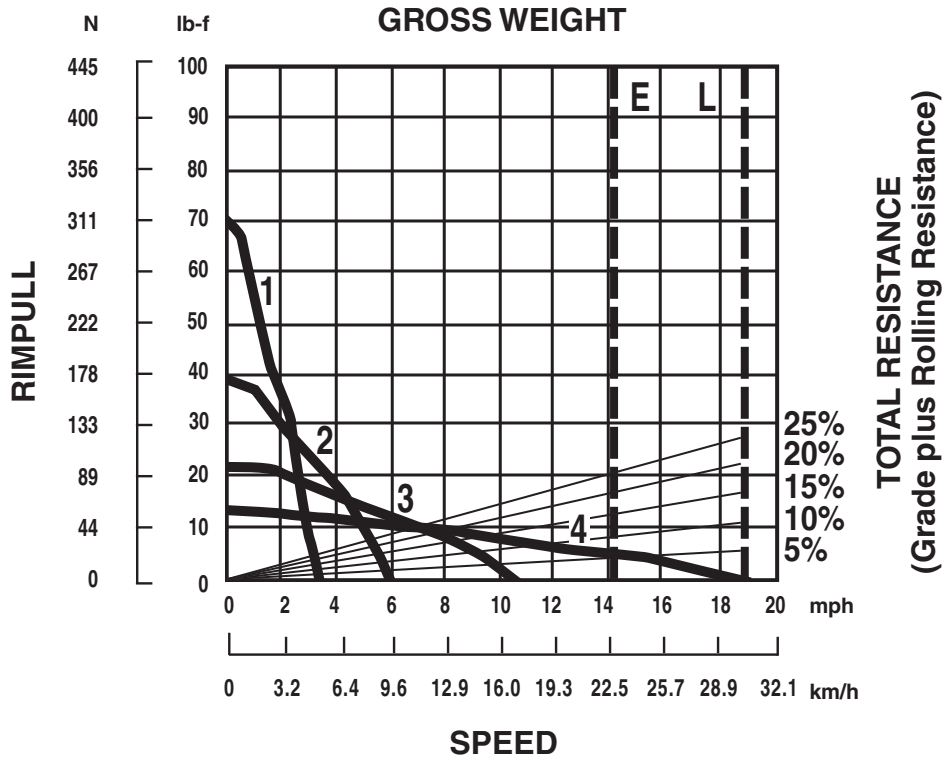
KEY

- 1 — 1st Gear
- 2 — 2nd Gear
- 3 — 3rd Gear
- 4 — 4th Gear

KEY

- E — Empty 20 950 kg (46,187 lb)
- L — Loaded 27 750 kg (61,178 lb)



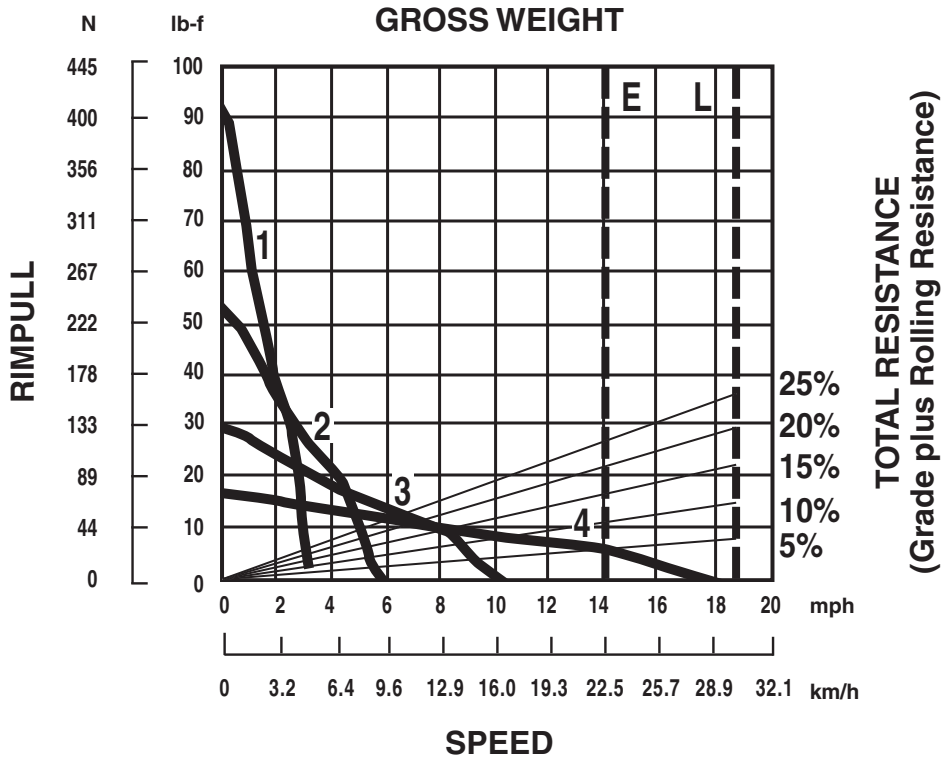


KEY

1 — 1st Gear
 2 — 2nd Gear
 3 — 3rd Gear
 4 — 4th Gear

KEY

E — Empty 38 500 kg (84,878 lb)
 L — Loaded 51 000 kg (112,436 lb)

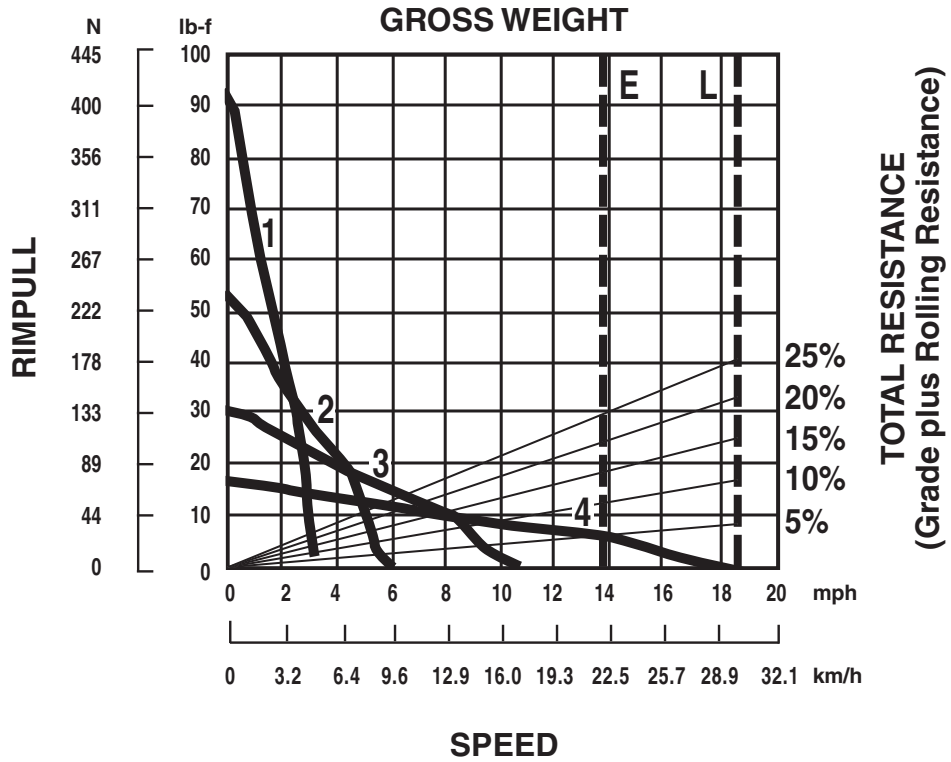


KEY

- 1 — 1st Gear
- 2 — 2nd Gear
- 3 — 3rd Gear
- 4 — 4th Gear

KEY

- E — Empty 50 209 kg (110,711 lb)
- L — Loaded 67 409 kg (148,637 lb)



KEY

1 — 1st Gear
2 — 2nd Gear
3 — 3rd Gear
4 — 4th Gear

KEY

E — Empty 55 575 kg (122,522 lb)
L — Loaded 75 575 kg (166,614 lb)



MODEL	AD30		AD45B		AD55B	
Engine Power	304 kW	408 hp	438 kW	587 hp	579/600 kW	776/805 hp
Engine Model	C15 ACERT ATAAC		C18 DI ATAAC		C27 ACERT	
Tare Weight	28 870 kg	63,658 lb	39 359 kg	86,772 lb	50 000 kg	110,231 lb
Max. Capacity (Dump)	30 000 kg	66,150 lb	45 000 kg	99,208 lb	55 000 kg	121,254 lb
Capacity M3 (SAE) 2:1 Heaped	14.4 m ³	18.8 yd ³	21.3 m ³	27.9 yd ³	26.9 m ³	35.2 yd ³
Distribution Loaded Front	44.2%		45.6%		50.4%	
Distribution Loaded Rear	55.8%		54.4%		49.6%	
Outside Clearance Radius (Standard Dump Body)	8571 mm	28'1"	9291 mm	30'6"	10 005 mm	32'10"
Inside Clearance Radius (Standard Dump Body)	5030 mm	16'6"	5310 mm	17'5"	5540 mm	18'2"
Height	2600 mm	8'6"	2817 mm	9'6"	3278 mm	10'11"
Length	10 153 mm	33'4"	11 194 mm	36'9"	12 064 mm	39'8"
Loading Height	2385 mm	7'10"	2925 mm	9'7"	3045 mm	10'0"
Width	2690 mm	8'10"	3000 mm	9'10"	3346 mm	11'0"
Oscillation Angle	±10°		±10°		±10°	
Articulation Angle	±42.5°		±42.5°		±42.5°	
Tray Height Raised (Dump)	5602 mm	18'5"	6357 mm	20'10"	6969 mm	22'1"
Dump Time	10.5 Sec.		16 Sec.		12 Sec.	
Travel Speeds	km/h	mph	km/h	mph	km/h	mph
Forward 1	6.8	4.2	8.0	4.9	6.6	4.1
2	12.3	7.6	10.9	6.8	9.3	5.8
3	22.3	13.8	15.1	9.4	12.5	7.5
4	40.8	25.4	20.6	12.8	19.8	10.4
5	—	—	28.1	17.4	22.7	14.1
6	—	—	38.1	23.7	30.7	19.1
7	—	—	52.0	32.3	41.5	25.8
Reverse 1	7.8	4.8	7.5	4.6	8.7	5.4
2	—	—	10.1	6.3	—	—
Tire Size	26.5xR25 VSNT E4		29.5x29 2 ★★ Radials		35x65 R33	
Service Brake	Cat oil cooled hydraulic applied wet disc all wheels.		Cat oil cooled hydraulic applied wet disc all wheels.		Integrated braking system — oil cooled multiple disc brakes combine service, secondary, parking brake and retarder functions in the same system.	
Park Brake	SAFR™ Spring Applied Fluid Released wet disc brakes on all wheels.		Spring applied hydraulic released all wheels.			
Fuel Capacity	500 L	132.1 U.S. gal	764 L	201.8 U.S. gal	960 L	253 U.S. gal

Articulated Trucks

Model	AD30		AD45B		AD55B	
Heaped capacity*	14.4 m ³	18.8 yd³	21.3 m ³	27.9 yd³	26.9 m ³	35.2 yd³
Overall width	2690 mm	8'10"	3000 mm	9'10"	3346 mm	11'0"
Overall height	2600 mm	8'5"	3036 mm	9'11"	3278 mm	10'11"
Overall length	10 153 mm	33'4"	11 194 mm	36'6"	12 064 mm	39'8"
Empty weight	30 000 kg	66,140 lb	40 500 kg	89,303 lb	50 000 kg	110,231 lb
Loaded weight	60 000 kg	132,280 lb	85 500 kg	188,528 lb	105 000 kg	231,485 lb
Ground clearance	400 mm	15.7"	441 mm	17.0"	393 mm	15.0"
Frame oscillation	±10°		±10°		±10°	

*2:1 per SAE.

Body Selection

Model	SAE Body Capacity	
AD30 Dump	11.3 m ³	14.8 yd³
	14.4 m ³	18.8 yd³
	17.5 m ³	22.9 yd³
AD30 Ejector	15.2 m ³	19.9 yd³
AD45B Dump	21.3 m ³	27.9 yd³
	25.1 m ³	32.8 yd³
AD45B Ejector	22.9 m ³	30.0 yd³
AD55B	26.9 m ³	35.2 yd³
AD55B Ejector	26.9 m ³	35.2 yd³

Turning Dimensions

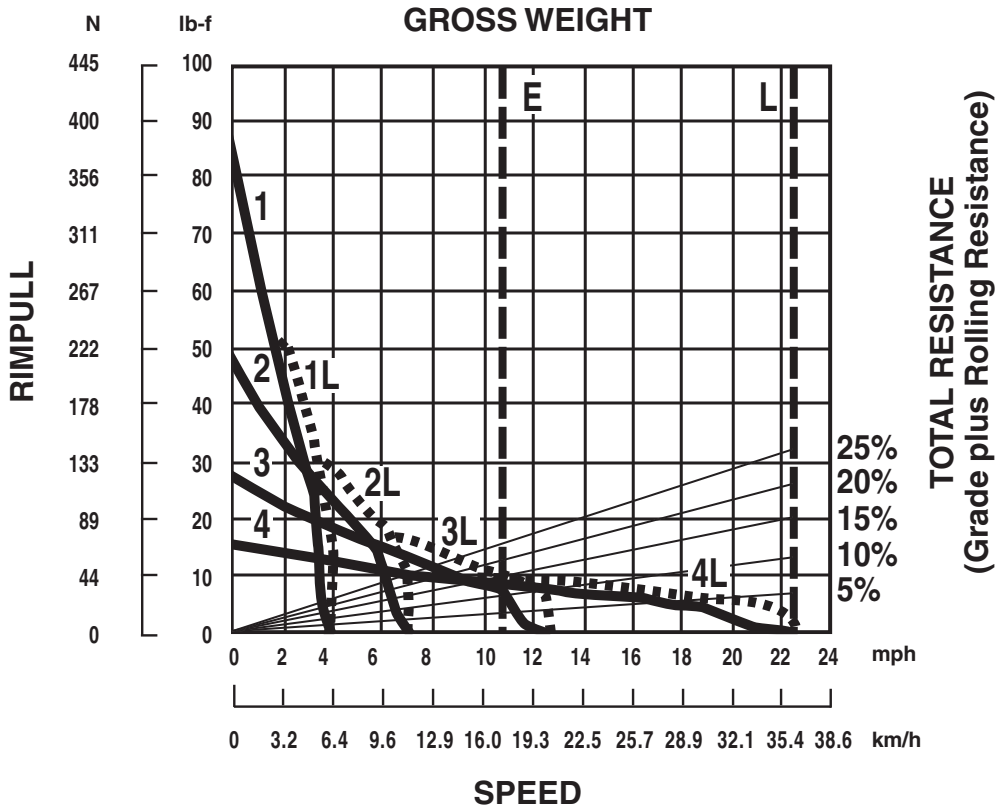
Articulated Trucks

Model	AD30		AD45B		AD55B*	
Turn radius (outside)	8571 mm	28'1"	9291 mm	30'6"	10 005 mm	32'10"
Turn radius (inside)	5030 mm	16'5"	5310 mm	17'5"	5540 mm	18'2"
Articulation angle	±42.5°		±42.5°		±42.5°	

*Standard dump body.

Ejector

Model	AD30		AD45B		AD55B	
Turn radius (outside)	8571 mm	28'1"	9291 mm	30'6"	10 005 mm	32'10"
Turn radius (inside)	4935 mm	16'2"	5210 mm	17'1"	5540 mm	18'2"
Articulation angle	±42.5°		±42.5°		±42.5°	

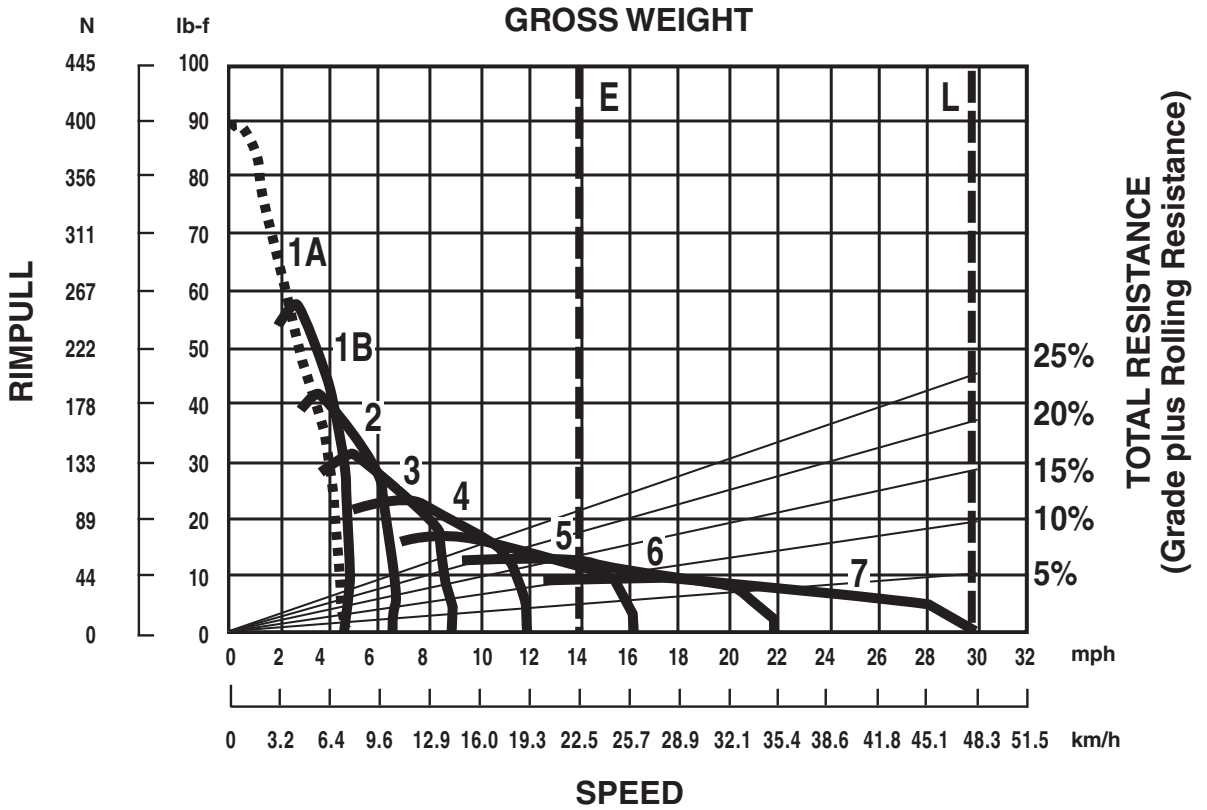


KEY

- 1 — 1st Gear
- 2 — 2nd Gear
- 3 — 3rd Gear
- 4 — 4th Gear

KEY

- E — Empty 28 870 kg (63,647 lb)
- L — Loaded 60 000 kg (132,277 lb)

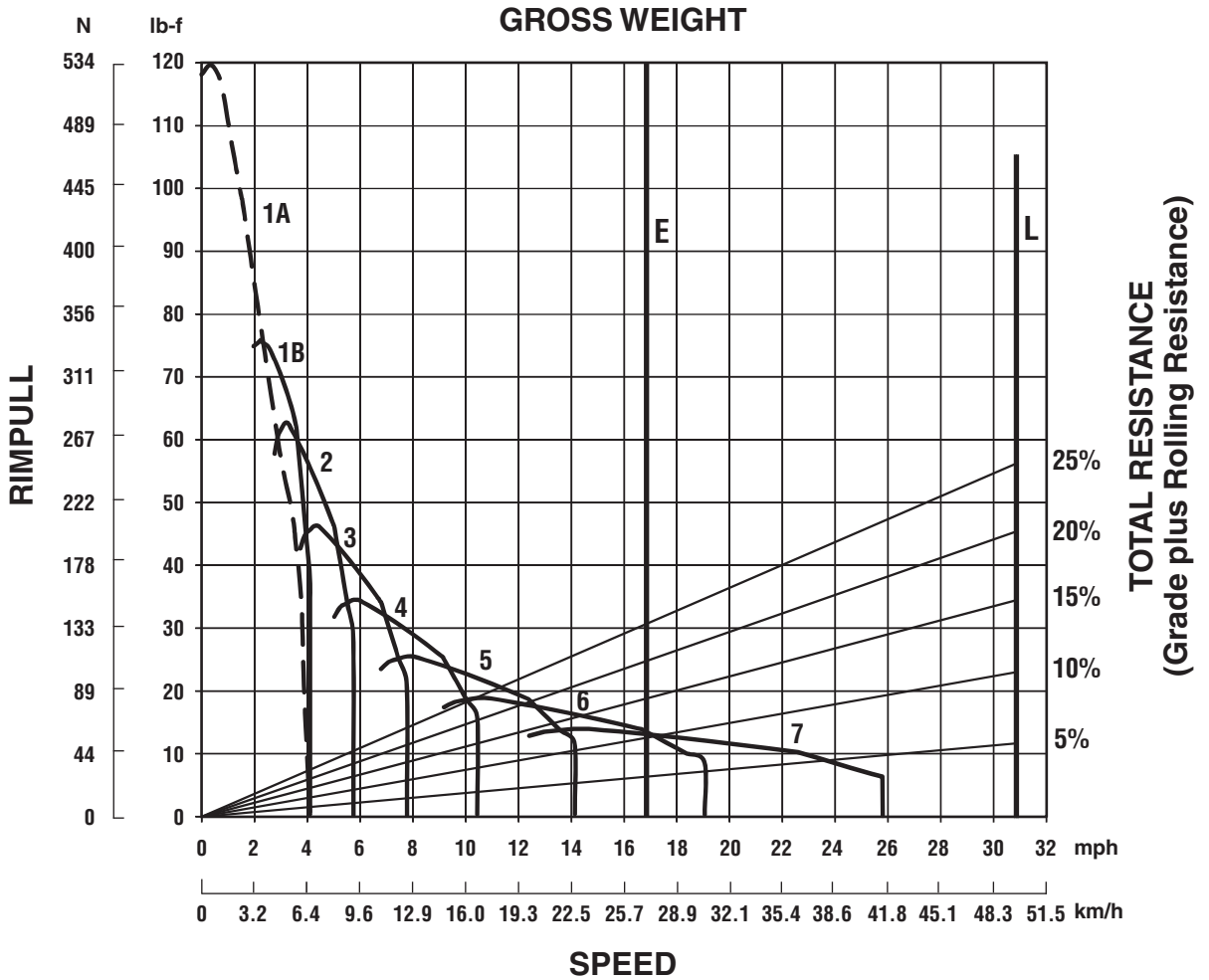


KEY

- 1A — 1st Gear Torque Converter Drive
- 1B — 1st Gear Direct Drive
- 2 — 2nd Gear Direct Drive
- 3 — 3rd Gear Direct Drive
- 4 — 4th Gear Direct Drive
- 5 — 5th Gear Direct Drive
- 6 — 6th Gear Direct Drive
- 7 — 7th Gear Direct Drive

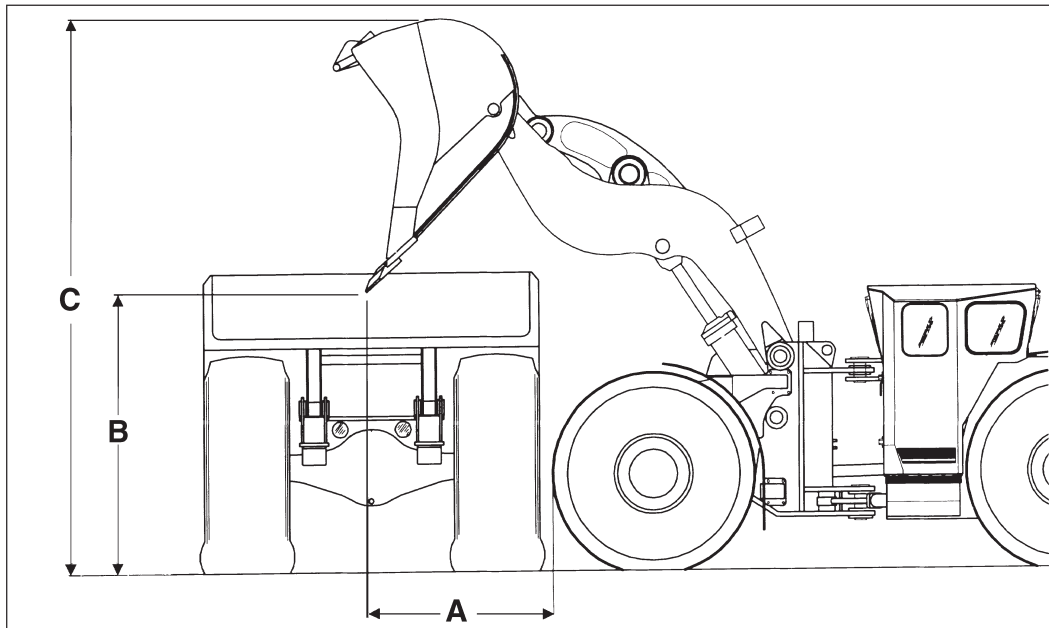
KEY

- E — Empty 40 000 kg (88,185 lb)
- L — Loaded 85 000 kg (187,393 lb)



- KEY**
- 1A — 1st Gear Torque Converter Drive
 - 1B — 1st Gear Direct Drive
 - 2 — 2nd Gear Direct Drive
 - 3 — 3rd Gear Direct Drive
 - 4 — 4th Gear Direct Drive
 - 5 — 5th Gear Direct Drive
 - 6 — 6th Gear Direct Drive
 - 7 — 7th Gear Direct Drive

- KEY**
- E — Empty 50 000 kg (110,000 lb)
 - L — Loaded 105 000 kg (231,000 lb)



Loader	Target	A		B		C	
R1300G	AD30	1583 mm	5'2"	1560 mm	5'1"	3531 mm	11'7"
R1600G	AD30	1408 mm	4'7"	2207 mm	7'3"	4497 mm	14'9"
R1600G	AD45B	1500 mm	4'11"	2207 mm	7'3"	4497 mm	14'9"
R1700G	AD30	1837 mm	6'0"	2320 mm	7'7"	4899 mm	16'0"
R1700G	AD45B	1741 mm	5'9"	2443 mm	8'0"	4902 mm	16'1"
R1700G	AD55B	1685 mm	5'6"	2444 mm	8'0"	4899 mm	16'0"
R2900G	AD45B	1656 mm	5'5"	2868 mm	9'5"	5427 mm	17'9"
R2900G	AD55B	1725 mm	5'8"	2868 mm	9'5"	5427 mm	17'9"

NOTE: R1700G rated payload 14 000 kg (**30,870 lb**) is for tramming only. Truck loading capacity is 12 500 kg (**27,563 lb**).

R2900G XTRA rated payload 20 000 kg (**44,100 lb**) is for tramming only. Truck loading capacity is 17 200 kg (**37,926 lb**).