

993K Wheel Loader

Dimensions

All dimensions are approximate.



	Standard Lift Linkage, 50/65-51 (311-1938), 13.8 m ³ (18 yd ³) (303-3280)		High Lift Linkage, 50/65-51 (311-1938), 13.8 m ³ (18 yd ³) (303-3280)	
1 Ground to Top of Exhaust Stacks	5555 mm	18.2 ft	5555 mm	18.2 ft
2 Ground to Top of ROPS	6069 mm	19.9 ft	6069 mm	19.9 ft
3 Ground to Top of Hood	4373 mm	14.3 ft	4373 mm	14.3 ft
4 Ground to Center of Rear Axle	1461 mm	4.8 ft	1461 mm	4.8 ft
5 Ground to Bumper Clearance	1389 mm	4.6 ft	1389 mm	4.6 ft
6 Ground to Lower Hitch Clearance	721 mm	2.4 ft	721 mm	2.4 ft
7 Reach at Maximum Lift, Dump Position	2602 mm	8.5 ft	2711 mm	8.9 ft
8 Clearance at Maximum Lift, Dump Position	4669 mm	15.3 ft	5314 mm	17.4 ft
9 B-Pin Height at Maximum Lift	7116 mm	23.3 ft	7761 mm	25.5 ft
10 Maximum Overall Height, Bucket Raised	9903 mm	32.5 ft	10 547 mm	34.6 ft
11 Rear Axle Center Line to Bumper	4475 mm	14.7 ft	4475 mm	14.7 ft
12 Wheel Base	5890 mm	19.3 ft	5890 mm	19.3 ft
13 Maximum Overall Length	15 264 mm	50.1 ft	15 909 mm	52.2 ft
14 Front Axle Centerline to Bucket Tip	5449 mm	17.9 ft	6094 mm	20.0 ft

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Operating Specifications – Standard Lift

Tires: 50/65-51 Part No.: 311-1938 SLR: 1461 mm (57.5 in)

Bucket Type		Rock						Coal
Ground Engaging Tools		Teeth & Segment						Teeth & Segment
Cutting Edge Type		Spade						Straight
Bucket Part No.		303-3270	303-3310	303-3260	303-3330	303-3280	303-3290	310-8990
Struck Capacity	m ³	10.0	10.0	10.0	10.0	11.0	12.0	20.0
	yd ³	13.1	13.1	13.1	13.1	14.4	15.7	26.2
Heaped Capacity	m ³	13.0	13.0	12.0	12.0	14.0	14.0	24.0
	yd ³	17.0	17.0	15.7	15.7	18.3	18.3	31.4
Width	mm	5080	5160	5080	5160	5080	5080	6300
	ft	16.7	16.9	16.7	16.9	16.7	16.7	20.7
Dump Clearance at Full Lift and 45° Discharge	mm	4768	4835	4858	4883	4669	4669	4614
	ft	15.6	15.9	15.9	16.0	15.3	15.3	15.1
Reach at Lift and 45° Discharge	mm	2503	2507	2413	2459	2602	2602	2605
	ft	8.2	8.2	7.9	8.1	8.5	8.5	8.5
Reach with Lift Arms Horizontal and Bucket Level	mm	4922	4878	4794	4810	5062	5062	5103
	ft	16.1	16.0	15.7	15.8	16.6	16.6	16.7
Digging Depth	mm	132	117	132	117	132	132	154
	ft	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Overall Length	mm	15 124	15 068	14 996	15 000	15 264	15 264	15 323
	ft	49.6	49.4	49.2	49.2	50.1	50.1	50.3
Overall Height with Bucket at Full Raise	mm	9903	9876	9794	9794	9903	10 032	10 030
	ft	32.5	32.4	32.1	32.1	32.5	32.9	32.9
Loader Clearance Turning Radius (SAE CARRY)	mm	11 012	11 016	11 013	10 998	11 049	11 049	11 746
	ft	36.1	36.1	36.1	36.1	36.2	36.2	38.5
Full Dump Angle	deg	–50	–50	–50	–50	–50	–50	–50
Static Tipping Load – Straight (no tire squash)	kg	83 096	81 703	83 263	82 300	81 931	82 147	78 089
	lb	183,194	180,124	183,563	181,440	180,626	181,102	172,157
Static Tipping Load – Straight (with tire squash)	kg	79 105	77 736	79 312	78 354	77 962	78 114	73 991
	lb	174,396	171,378	174,853	172,741	171,877	172,212	163,122
Static Tipping Load – Full Turn (articulated 40°) (no tire squash)	kg	71 976	70 608	72 159	71 193	70 886	71 056	67 100
	lb	158,680	155,664	159,084	156,953	156,276	156,651	147,930
Static Tipping Load – Full Turn (articulated 40°) (with tire squash)	kg	64 192	62 859	64 431	63 471	63 141	63 220	59 190
	lb	141,519	138,580	142,046	139,929	139,202	139,376	130,491
Static Tipping Load – Full Turn (articulated 43°) (no tire squash)	kg	70 327	68 963	70 513	69 546	69 248	69 411	65 470
	lb	155,045	152,037	155,454	153,322	152,665	153,025	144,337
Static Tipping Load – Full Turn (articulated 43°) (with tire squash)	kg	61 906	62 065	63 762	63 342	59 853	59 704	56 337
	lb	147,606	148,378	152,242	151,492	142,546	142,221	134,559
Breakout Force	kN	718	734	762	761	674	673	638
	lb-f	161,390	165,010	171,372	171,035	151,499	151,252	143,361
Operating Weight	kg	132 251	133 234	131 988	132 788	132 702	132 877	135 859
	lb	291,564	293,731	290,984	292,748	292,558	292,944	299,518
Weight Distribution at SAE Carry (unloaded) – Front	kg	76 930	78 615	76 482	77 858	77 770	78 022	83 099
	lb	169,601	173,315	168,614	171,647	171,453	172,008	183,203
Weight Distribution at SAE Carry (unloaded) – Rear	kg	55 322	54 620	55 506	54 930	54 933	54 856	52 760
	lb	121,963	120,416	122,370	121,101	121,105	120,936	116,316
Weight Distribution at SAE Carry (loaded) – Front	kg	120 265	121 981	119 797	121 151	121 280	121 508	127 036
	lb	265,139	268,922	264,106	267,091	267,377	267,880	280,065
Weight Distribution at SAE Carry (loaded) – Rear	kg	39 202	38 469	39 408	38 854	38 638	38 585	36 040
	lb	86,426	84,810	86,879	85,658	85,182	85,065	79,454

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Operating Specifications – High Lift

Tires: 50/65-51 Part No.: 311-1938 SLR: 1461 mm (57.5 in)

Bucket Type		Rock						Coal
Ground Engaging Tools		Teeth & Segment						Teeth & Segment
Cutting Edge Type		Spade						Straight
Bucket Part No.		303-3270	303-3310	303-3260	303-3330	303-3280	303-3290	310-8990
Struck Capacity	m ³	10.0	10.0	10.0	10.0	11.0	12.0	20.0
	yd ³	13.1	13.1	13.1	13.1	14.4	15.7	26.2
Heaped Capacity	m ³	13.0	13.0	12.0	12.0	14.0	14.0	24.0
	yd ³	17.0	17.0	15.7	15.7	18.3	18.3	31.4
Width	mm	5080	5160	5080	5160	5080	5080	6300
	ft	16.7	16.9	16.7	16.9	16.7	16.7	20.7
Dump Clearance at Full Lift and 45° Discharge	mm	5413	5480	5503	5528	5314	5314	5259
	ft	17.8	18.0	18.1	18.1	17.4	17.4	17.3
Reach at Lift and 45° Discharge	mm	2612	2616	2522	2568	2711	2711	2714
	ft	8.6	8.6	8.3	8.4	8.9	8.9	8.9
Reach with Lift Arms Horizontal and Bucket Level	mm	5438	5394	5310	5326	5578	5578	5619
	ft	17.8	17.7	17.4	17.5	18.3	18.3	18.4
Digging Depth	mm	199	184	199	184	199	199	221
	ft	0.7	0.6	0.7	0.6	0.7	0.7	0.7
Overall Length	mm	15 769	15 714	15 641	15 646	15 909	15 909	15 965
	ft	19.5	19.4	19.1	19.1	20.0	20.0	20.2
Overall Height with Bucket at Full Raise	mm	10 547	10 521	10 439	10 439	10 547	10 677	10 675
	ft	34.6	34.5	34.2	34.2	34.6	35.0	35.0
Loader Clearance Turning Radius (SAE CARRY)	mm	11 308	11 311	11 309	11 292	11 348	11 348	12 043
	ft	37.1	37.1	37.1	37.0	37.2	37.2	39.5
Full Dump Angle	deg	–50	–50	–50	–50	–50	–50	–50
Static Tipping Load – Straight (no tire squash)	kg	69 659	68 341	69 856	68 908	68 656	68 775	64 946
	lb	153,571	150,665	154,006	151,916	151,360	151,624	143,182
Static Tipping Load – Straight (with tire squash)	kg	66 576	65 274	66 804	65 860	65 583	65 656	61 751
	lb	146,775	143,904	147,277	145,196	144,586	144,747	136,137
Static Tipping Load – Full Turn (articulated 40°) (no tire squash)	kg	59 871	58 572	60 081	59 130	58 927	59 011	55 261
	lb	131,994	129,130	132,455	130,359	129,911	130,096	121,830
Static Tipping Load – Full Turn (articulated 40°) (with tire squash)	kg	53 578	52 304	53 828	53 252	52 657	52 674	48 854
	lb	118,119	115,310	118,670	117,400	116,089	116,126	107,705
Static Tipping Load – Full Turn (articulated 43°) (no tire squash)	kg	58 420	57 124	58 631	57 680	57 484	57 563	53 825
	lb	128,794	125,936	129,259	127,163	126,730	126,904	118,664
Static Tipping Load – Full Turn (articulated 43°) (with tire squash)	kg	52 300	52 185	53 770	52 882	50 628	50 476	47 250
	lb	115,302	115,048	118,542	116,585	111,616	111,280	104,168
Breakout Force	kN	717	733	761	760	673	672	637
	lb-f	161,143	164,740	171,125	170,765	151,274	151,004	143,158
Operating Weight	kg	133 217	134 200	132 954	133 754	133 668	133 843	136 825
	lb	293,694	295,861	293,114	294,878	294,688	295,074	301,648
Weight Distribution at SAE Carry (unloaded) – Front	kg	81 114	82 919	80 637	82 111	82 005	82 276	87 684
	lb	178,825	182,804	177,774	181,024	180,790	181,388	193,311
Weight Distribution at SAE Carry (unloaded) – Rear	kg	52 104	51 282	52 317	51 643	51 663	51 567	49 141
	lb	114,869	113,057	115,340	113,854	113,898	113,686	108,337
Weight Distribution at SAE Carry (loaded) – Front	kg	123 719	125 558	123 225	124 686	124 768	125 014	130 818
	lb	272,753	276,808	271,665	274,884	275,066	275,609	288,404
Weight Distribution at SAE Carry (loaded) – Rear	kg	34 446	33 590	34 677	34 017	33 848	33 777	30 956
	lb	75,941	74,054	76,450	74,994	74,623	74,465	68,245

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Changes in Specifications due to Tire Size*

Dimensional Changes

		50/65-51 (311-1938)	50/65R51 (311-2443)	50/65-51 (322-9665)	50/65R51 (311-2445)
Dump Clearance at Full Lift and 45° Discharge	mm	0	-51	0	-20
	in	0	-2.01	0	-0.79
Reach at Full Lift and 45° Discharge	mm	0	0	0	-2
	in	0	0	0	-0.08
Reach with Lift Arms Horizontal and Bucket Level	mm	0	0	0	-2
	in	0	0	0	-0.08
Digging Depth	mm	0	+51	0	+20
	in	0	+2.01	0	+0.79
Overall Length	mm	0	+41	0	+16
	in	0	+1.61	0	+0.63
Overall Height with Bucket at Full Raise	mm	0	-51	0	-20
	in	0	-2.01	0	-0.79
Total Width (Width over Tires)	mm	0	+18	0	+13
	in	0	+0.71	0	+0.51

Weight Changes

		50/65-51 (311-1938)	50/65R51 (311-2443)	50/65-51 (322-9665)	50/65R51 (311-2445)
Static Tipping Load – Straight (no tire squash)	kg	0	0	0	-583
	lb	0	0	0	-1,285
Static Tipping Load – Straight (with tire squash)	kg	0	-850	0	-2319
	lb	0	-1,874	0	-5,113
Static Tipping Load – Full Turn (articulated 40°) (no tire squash)	kg	0	0	0	-515
	lb	0	0	0	-1,135
Static Tipping Load – Full Turn (articulated 40°) (with tire squash)	kg	0	-1000	0	-3398
	lb	0	-2,205	0	-7,491
Static Tipping Load – Full Turn (articulated 43°) (no tire squash)	kg	0	0	0	-505
	lb	0	0	0	-1,113
Static Tipping Load – Full Turn (articulated 43°) (with tire squash)	kg	0	-730	0	-1774
	lb	0	-1,609	0	-3,911
Operating Weight	kg	0	0	0	-760
	lb	0	0	0	-1,676

*50/65-51 used as baseline tire; 303-3280 bucket.