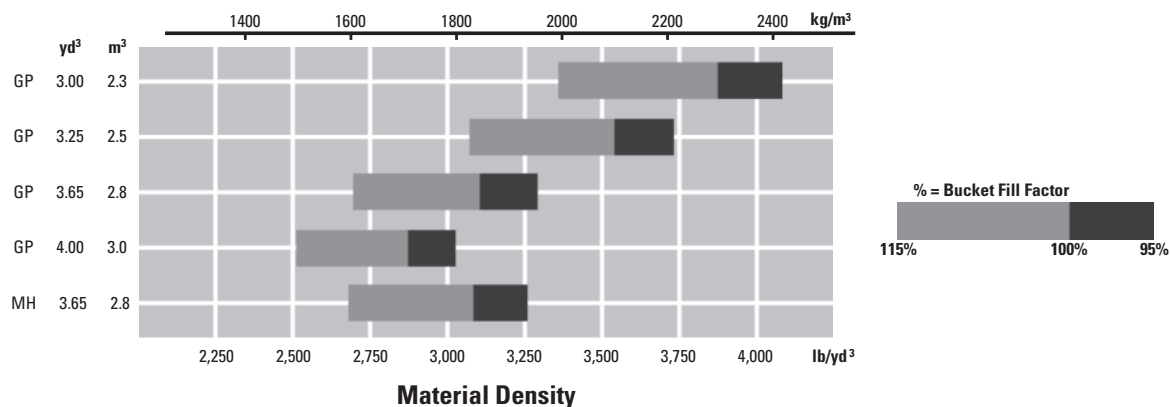


938H Wheel Loader

Operation Specifications

		General Purpose Buckets					
		Bolt-on edges			Teeth and segments		
		Bolt-on edges	Teeth and segments	Teeth	Bolt-on edges	Teeth and segments	Teeth
Rated capacity	m ³	2.30	2.30	2.10	2.50	2.50	2.30
	yd ³	3.00	3.00	2.75	3.25	3.25	3.00
Struck capacity	m ³	1.97	1.97	1.87	2.11	2.11	2.01
	yd ³	2.58	2.58	2.45	2.76	2.76	2.63
Width	mm	2700	2777	2777	2700	2777	2777
	ft/in	8'10"	9'1"	9'1"	8'10"	9'1"	9'1"
Dump clearance at full lift and 45° discharge	mm	2890	2786	2786	2849	2744	2744
	ft/in	9'5"	9'1"	9'1"	9'4"	9'0"	9'0"
Reach at full lift and 45° discharge	mm	993	1098	1098	1019	1123	1123
	ft/in	3'3"	3'7"	3'7"	3'4"	3'8"	3'8"
Reach with lift arms horizontal and bucket level	mm	2189	2336	2336	2239	2386	2386
	ft/in	7'2"	7'7"	7'7"	7'4"	7'9"	7'9"
Digging depth	mm	50	50	25	50	50	25
	in	1.9	1.9	0.9	1.9	1.9	0.9
Overall length	mm	7193	7351	7351	7243	7401	7401
	ft/in	23'7"	24'1"	24'1"	23'9"	24'3"	24'3"
Overall height with bucket at full raise	mm	5140	5140	5140	5188	5188	5188
	ft/in	16'10"	16'10"	16'10"	17'0"	17'0"	17'0"
Loader clearance circle with bucket in carry position	mm	11 946	12 105	12 105	11 971	12 131	12 131
	ft/in	39'2"	39'8"	39'8"	39'3"	39'9"	39'9"
Static tipping load, straight	kg	11 834	11 737	11 959	11 755	11 658	11 878
	lb	26,081	25,867	26,357	25,909	25,694	26,179
Static tipping load, articulated at full 40° turn	kg	10 302	10 205	10 415	10 229	10 131	10 339
	lb	22,706	22,492	22,954	22,544	22,329	22,787
Breakout force	kN	141.9	141.1	152.7	134.9	134.2	144.7
	lb	31,877	31,703	34,297	30,317	30,143	32,508
Operating weight	kg	14 952	15 027	14 932	14 986	15 061	14 966
	lb	32,955	33,120	32,911	33,028	33,194	32,984
Reach at 2134 mm (7'0") height, 45° dumped	mm	1508	1563	1563	1516	1567	1567
	ft/in	4'11"	5'1"	5'1"	4'11"	5'1"	5'1"
Clearance at full raise and dump, on stops	mm	2821	2706	2706	2786	2671	2671
	ft/in	9'3"	8'10"	8'10"	9'1"	8'9"	8'9"
Dump angle at full raise and dump, on stops	degrees		51.2	51.2	51.2	50.5	50.5

Pin-On Bucket Selection Guide



938H Wheel Loader

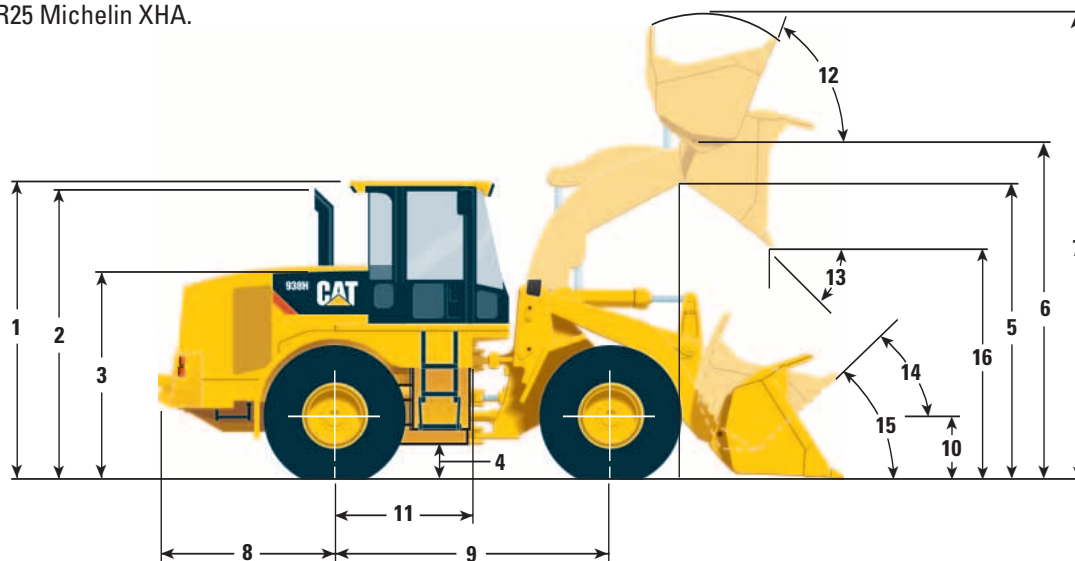
						Material Handling Buckets			General Purpose Buckets – Quick Coupler		
Bolt-on edges	Teeth and segments	Teeth	Bolt-on edges	Teeth and segments	Teeth	Bolt-on edges	Teeth and segments	Teeth	Bolt-on edges	Teeth and segments	Teeth
2.80 3.65	2.80 3.65	2.70 3.50	3.00 4.00	3.00 4.00	2.85 2.75	2.80 3.65	2.80 3.65	2.70 3.50	2.40 3.15	2.40 3.15	2.30 3.00
2.41 3.15	2.41 3.15	2.30 3.01	2.66 3.48	2.66 3.48	2.55 3.34	2.42 3.17	2.42 3.17	2.32 3.03	2.02 2.64	2.02 2.64	1.92 2.51
2700 8'10"	2777 9'1"	2777 9'1"	2700 8'10"	2777 9'1"	2777 9'1"	2700 8'10"	2777 9'1"	2777 9'1"	2700 8'10"	2777 9'1"	2777 9'1"
2771 9'1"	2664 8'8"	2664 8'8"	2702 8'10"	2597 8'6"	2597 8'6"	2720 8'11"	2607 8'6"	2607 8'6"	2774 9'1"	2669 8'9"	2669 8'9"
1077 3'6"	1179 3'10"	1179 3'10"	1102 3'7"	1206 3'11"	1206 3'11"	1001 3'3"	1096 3'7"	1096 3'7"	1017 3'4"	1120 3'8"	1120 3'8"
2339 7'8"	2486 8'1"	2486 8'1"	2397 7'10"	2544 8'4"	2544 8'4"	2339 7'8"	2486 8'1"	2486 8'1"	2285 7'5"	2432 7'11"	2432 7'11"
50 1.9	50 1.9	25 0.9	110 4.3	110 4.3	85 3.3	50 1.9	50 1.9	25 0.9	109 4.3	109 4.3	84 3.3
7343 24'1"	7501 24'7"	7501 24'7"	7450 24'5"	7608 24'11"	7608 24'11"	7343 24'1"	7502 24'7"	7502 24'7"	7337 24'0"	7496 24'7"	7496 24'7"
5284 17'4"	5284 17'4"	5284 17'4"	5195 17'0"	5195 17'0"	5195 17'0"	5272 17'3"	5272 17'3"	5272 17'3"	5075 16'7"	5075 16'7"	5075 16'7"
12 024 39'5"	12 185 39'11"	12 185 39'11"	12 106 39'8"	12 267 40'2"	12 267 40'2"	12 024 39'5"	12 185 39'11"	12 185 39'11"	12 009 39'4"	12 165 39'10"	12 165 39'10"
11 593 25,551	11 494 25,333	11 711 25,811	11 488 25,320	11 388 25,100	11 602 25,571	11 514 25,376	11 416 25,160	11 627 25,625	11 655 25,688	11 558 25,474	11 773 25,947
10 076 22,207	9977 21,989	10 182 22,441	10 000 22,041	9901 21,821	10 103 22,267	10 008 22,057	9909 21,841	10 109 22,281	10 122 22,310	10 025 22,095	10 228 22,543
122.7 27,576	122.0 27,402	130.8 29,395	117.2 26,320	116.3 26,133	124.5 27,959	122.7 27,576	122.0 27,402	130.8 29,394	129.4 29,063	128.5 28,875	138.2 31,060
15 059 33,190	15 134 33,355	15 039 33,146	14 898 32,835	14 973 33,000	14 878 32,791	15 048 33,165	15 123 33,331	15 028 33,121	15 165 33,424	15 240 33,589	15 145 33,379
1535 5'0"	1579 5'2"	1579 5'2"	1523 4'11"	1566 5'1"	1566 5'1"	1433 4'8"	1462 4'9"	1462 4'9"	1477 4'10"	1523 4'11"	1523 4'11"
2714 8'10"	2599 8'6"	2599 8'6"	2631 8'7"	2516 8'3"	2516 8'3"	2714 8'10"	2599 8'6"	2599 8'6"	2710 8'10"	2596 8'6"	2596 8'6"
49.5	49.5	49.5	50.5	50.5	50.5	45.5	45.5	45.5	50.6	50.6	50.6

938H Wheel Loader

Dimensions

All dimensions are approximate and may vary with work tool.

Tires are 20.5R25 Michelin XHA.



1	Height to top of ROPS	3356 mm	11'0"
2	Height to top of exhaust pipe	3099 mm	10'2"
3	Height to top of hood	2415 mm	7'11"
4	Ground clearance/Standard tire See Chart below for other tires	397 mm	1'3"
5	Lift arm clearance @ maximum lift	3435 mm	11'3"
6	Bucket pin height @ maximum lift	3843 mm	12'7"
	Bucket pin height, optional high lift	4266 mm	13'11"
7	Overall height – bucket raised	5284 mm	17'4"
8	Center line of rear axle to edge of counterweight	1869 mm	6'1"

9	Wheelbase	3020 mm	9'10"
10	Height to center line of axle	688 mm	2'3"
11	Center line of rear axle to hitch	1510 mm	4'11"
12	Rack back @ maximum lift	65°	
13	Dump angle @ maximum lift	50°	
14	Rack back @ carry	50°	
15	Rack back @ ground	42°	
16	Dump clearance @ maximum lift and 45° dump	2771 mm	9'1"

Tires

		Width over tires – maximum (loaded)		Change in vertical dimensions		Change in operating weight without ballast		Change in static tipping load – straight		Change in static tipping load – articulated	
		mm	inches	mm	inches	kg	lb	kg	lb	kg	lb
20.5-R25 XTLA L2	Radial	2603	102	-16	-1	-170	-376	-120	-264	-104	-230
20.5-R25 XHA L3	Radial	2674	105	0	0	0	0	0	0	0	0
20.5 R25 GP2B L3	Radial	2619	103	+6	0	-53	-116	-37	-81	-32	-71
20.5 R25 HRL L3	Radial	2618	103	+23	+1	-48	-107	-34	-75	-30	-65
20.5 R25 RL-2+ L3	Radial	2609	103	+12	0	+13	+28	+9	+20	+8	+17
650/65R-25 XLD L3	Radial (Low Profile)	2733	108	0	0	+519	+1145	+364	+803	+318	+701
20.5-25 SRG LD L3	Bias (16 PLY)	2558*	101*	+8	0	-242	-533	-170	-374	-148	-326
20.5-25 SRG LD L3	Bias (20 PLY)	2556*	101*	+11	0	-174	-384	-122	-270	-107	-235
20.5-25 RM 99 L3	Bias	2540*	100*	+8	0	-58	-129	-41	-90	-36	-79

*Without bulge.