

## WHEEL LOADER

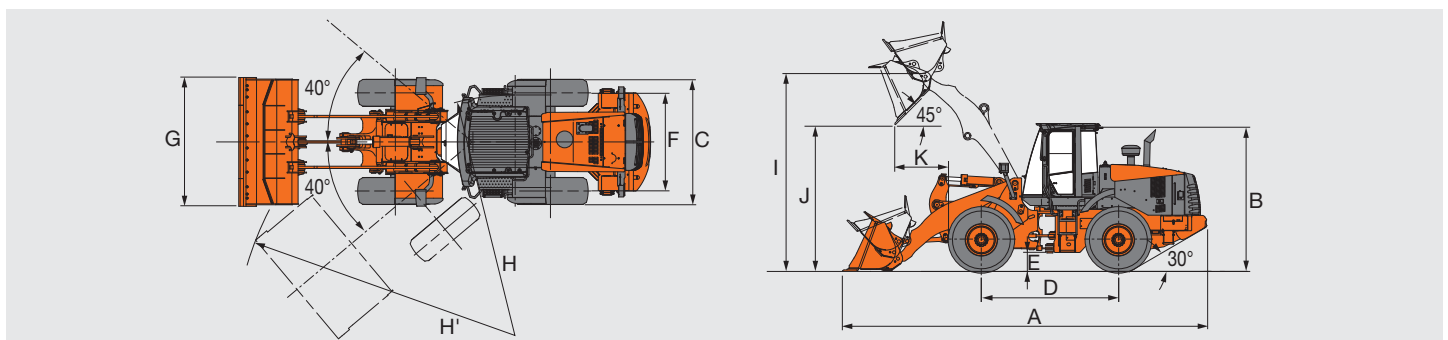
# ZW180 ZW220

# ZW250 ZW310

## HIGH LIFT ARM

### ZW180

#### DIMENSIONS & SPECIFICATIONS

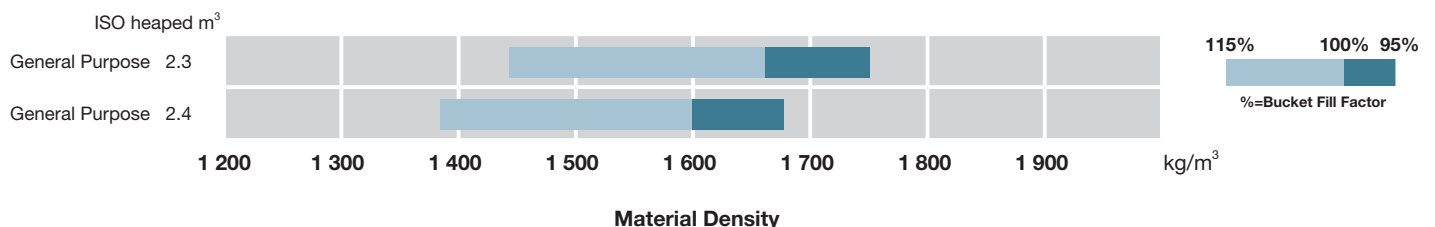


Arm Type			High Lift Arm	
Bucket Type			General Purpose	
			Bolt-on Cutting Edge Round Bottom	Bolt-on Teeth Round Bottom
Bucket capacity	ISO heaped	m <sup>3</sup>	2.4	2.3
	ISO struck	m <sup>3</sup>	2.1	2.0
A	Overall length	mm	8 130	8 270
B	Overall height (Top of cab)	mm		3 285
C	Width over tires	mm		2 490
D	Wheel base	mm		3 050
E	Ground clearance	mm		405
F	Tread	mm		1 930
G	Bucket width	mm		2 535
H	Turning radius (Centerline of outside tire)	mm		5 170
H'	Loader clearance circle, bucket in carry position	mm	6 230	6 270
I	Height to bucket hinge pin, fully raised	mm	4 330	4 330
J	Dumping clearance 45 degree, full height	mm	3 250	3 250
K	Reach, 45 degree dump, full height	mm	1 170	1 280
Static tipping load*	Straight	kN (kgf)	97 (9 850)	98 (10 030)
	Full 40 degree turn	kN (kgf)	83 (8 490)	85 (8 650)
Breakout force		kN (kgf)	115 (11 730)	126 (12 870)
Operating weight*		kg	14 790	14 720

Note: 1. All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997 and ISO 7546:1983.

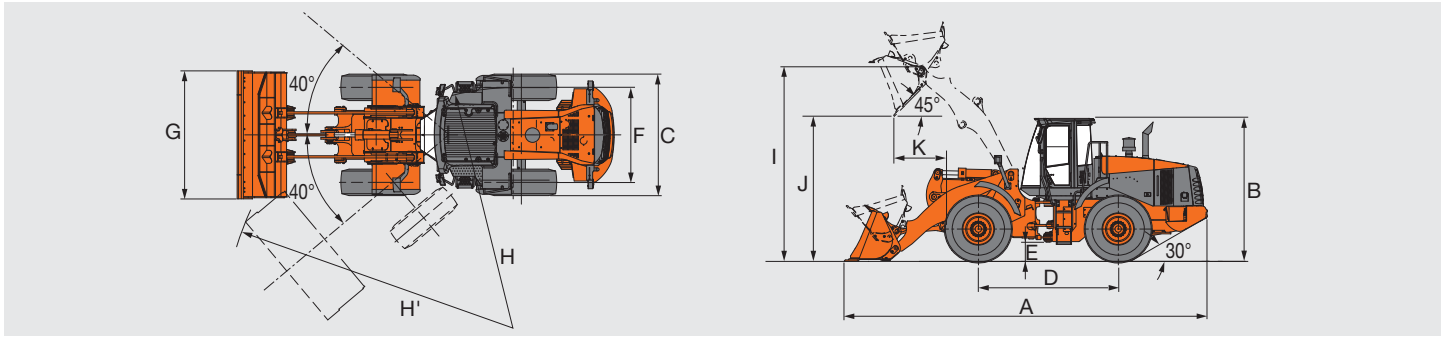
2. Static tipping load and operating weight marked with\* include 20.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator.  
Machine stability and operating weight depend on counterweight, tire size and other attachments.

#### BUCKET SELECTION GUIDE



# ZW220

## DIMENSIONS & SPECIFICATIONS

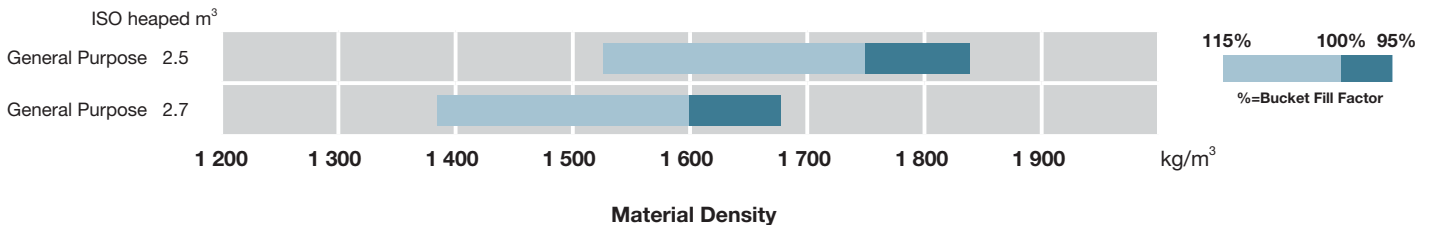


Arm Type			High Lift Arm					
			General Purpose					
Bucket Type			Bolt-on Cutting Edge		Bolt-on Teeth		Weld-on Teeth	
			Round Bottom	Flat Bottom	Round Bottom	Flat Bottom	Round Bottom	Flat Bottom
Bucket capacity	ISO heaped	m <sup>3</sup>	2.7	2.7	2.5	2.5	2.5	2.5
	ISO struck	m <sup>3</sup>	2.3	2.3	2.2	2.2	2.2	2.2
A Overall length	mm		8 560	8 560	8 700	8 700	8 680	8 680
B Overall height (Top of cab)	mm					3 370		
C Width over tires	mm					2 820		
D Wheel base	mm					3 300		
E Ground clearance	mm					445		
F Tread	mm					2 160		
G Bucket width	mm					2 910		
H Turning radius (Centerline of outside tire)	mm					5 620		
H' Loader clearance circle, bucket in carry position	mm		6 770	6 770	6 810	6 810	6 800	6 800
I Height to bucket hinge pin, fully raised	mm		4 495	4 495	4 495	4 495	4 495	4 495
J Dumping clearance 45 degree, full height	mm		3 440	3 440	3 350	3 350	3 370	3 370
K Reach, 45 degree dump, full height	mm		1 180	1 180	1 280	1 280	1 300	1 300
Static tipping load*	Straight	kN (kgf)	116 (11 800)	116 (11 800)	118 (12 000)	118 (12 000)	119 (12 100)	118 (12 000)
	Full 40 degree turn	kN (kgf)	100 (10 200)	99 (10 100)	102 (10 400)	101 (10 300)	102 (10 400)	101 (10 300)
Breakout force	kN (kgf)		154 (15 730)	154 (15 710)	170 (17 300)	169 (17 280)	170 (17 320)	170 (17 300)
Operating weight*	kg		17 940	18 030	17 860	17 950	17 840	17 920

Note: 1. All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997 and ISO 7546:1983.

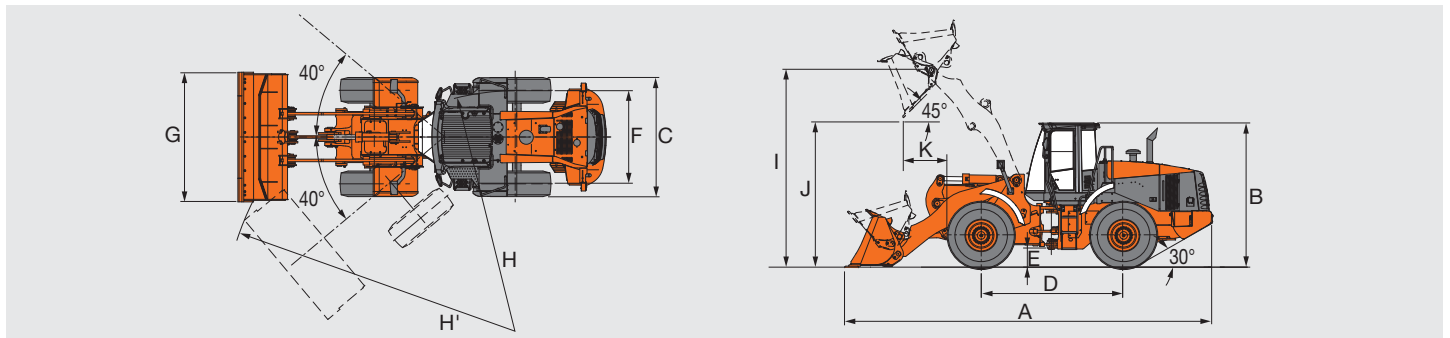
2. Static tipping load and operating weight marked with\* include 23.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

## BUCKET SELECTION GUIDE



# ZW250

## DIMENSIONS & SPECIFICATIONS

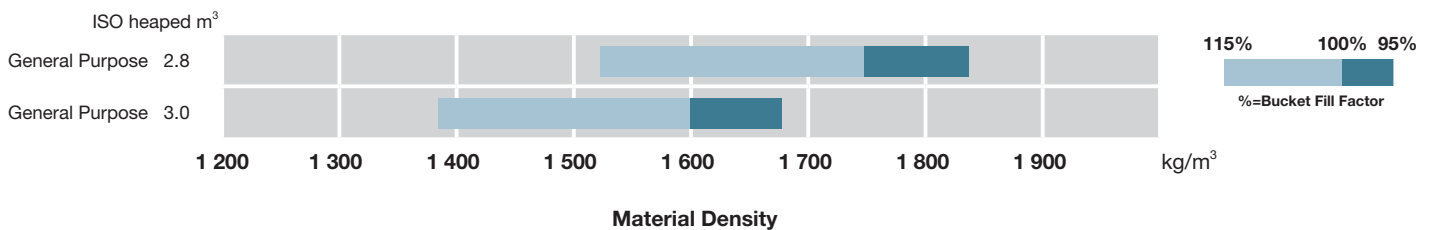


Arm Type			High Lift Arm					
			General Purpose					
Bucket Type			Bolt-on Cutting Edge		Bolt-on Teeth		Weld-on Teeth	
			Round Bottom	Flat Bottom	Round Bottom	Flat Bottom	Round Bottom	Flat Bottom
Bucket capacity	ISO heaped	m <sup>3</sup>	3.0	3.0	2.8	2.8	2.8	2.8
	ISO struck	m <sup>3</sup>	2.6	2.6	2.4	2.4	2.4	2.4
A Overall length		mm	8 670	8 670	8 840	8 840	8 820	8 820
B Overall height (Top of cab)		mm	3 400					
C Width over tires		mm	2 870					
D Wheel base		mm	3 350					
E Ground clearance		mm	420					
F Tread		mm	2 200					
G Bucket width		mm	2 980					
H Turning radius (Centerline of outside tire)		mm	5 715					
H' Loader clearance circle, bucket in carry position		mm	6 880	6 880	6 930	6 930	6 920	6 920
I Height to bucket hinge pin, fully raised		mm	4 645	4 645	4 645	4 645	4 645	4 645
J Dumping clearance 45 degree, full height		mm	3 540	3 540	3 420	3 420	3 450	3 450
K Reach, 45 degree dump, full height		mm	1 040	1 040	1 180	1 180	1 190	1 190
Static tipping load*	Straight	kN (kgf)	130 (13 300)	129 (13 200)	131 (13 400)	130 (13 300)	132 (13 500)	131 (13 400)
	Full 40 degree turn	kN (kgf)	112 (11 400)	111 (11 300)	113 (11 500)	112 (11 400)	114 (11 600)	113 (11 500)
Breakout force		kN (kgf)	163 (16 660)	163 (16 640)	177 (18 090)	177 (18 070)	178 (18 150)	178 (18 130)
Operating weight*		kg	20 390	20 470	20 360	20 440	20 280	20 360

Note: 1. All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997 and ISO 7546:1983.

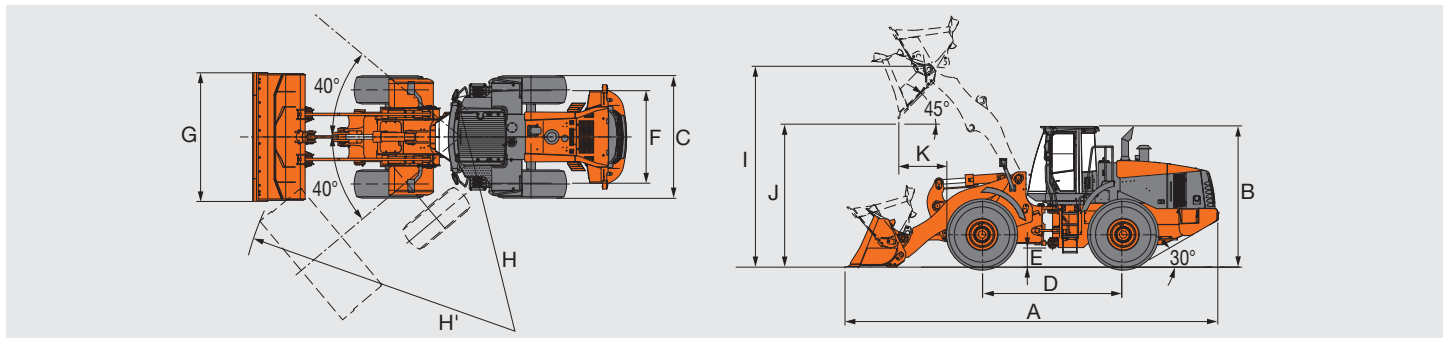
2. Static tipping load and operating weight marked with\* include 23.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

## BUCKET SELECTION GUIDE



# ZW310

## DIMENSIONS & SPECIFICATIONS

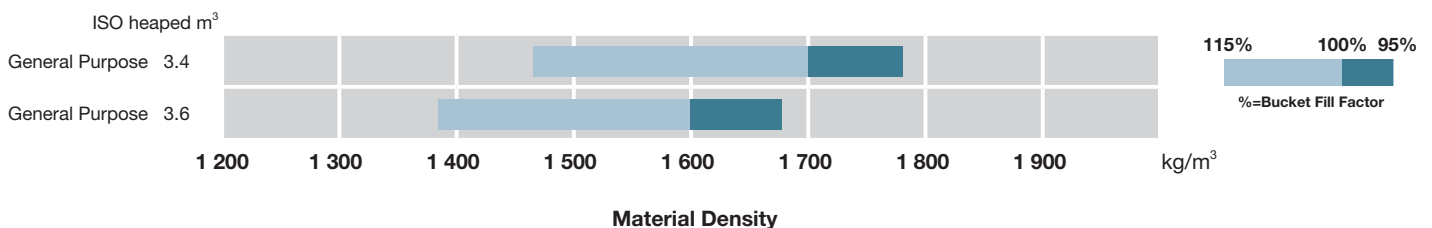


Arm Type			High Lift Arm					
			General Purpose					
Bucket Type			Bolt-on Cutting Edge		Bolt-on Teeth		Weld-on Teeth	
			Round Bottom	Flat Bottom	Round Bottom	Flat Bottom	Round Bottom	Flat Bottom
Bucket capacity	ISO heaped	m <sup>3</sup>	3.6	3.6	3.4	3.4	3.4	3.4
	ISO struck	m <sup>3</sup>	3.1	3.1	2.9	2.9	2.9	2.9
A Overall length		mm	9 180	9 180	9 360	9 360	9 330	9 330
B Overall height (Top of cab)		mm	3 460					
C Width over tires		mm	2 965					
D Wheel base		mm	3 450					
E Ground clearance		mm	480					
F Tread		mm	2 230					
G Bucket width		mm	2 980					
H Turning radius (Centerline of outside tire)		mm	5 860					
H' Loader clearance circle, bucket in carry position		mm	7 070	7 070	7 120	7 120	7 110	7 110
I Height to bucket hinge pin, fully raised		mm	4 845	4 845	4 845	4 845	4 845	4 845
J Dumping clearance 45 degree, full height		mm	3 640	3 640	3 520	3 520	3 540	3 540
K Reach, 45 degree dump, full height		mm	1 210	1 210	1 350	1 350	1 350	1 350
Static tipping load*	Straight	kN (kgf)	154 (15 700)	154 (15 700)	156 (15 900)	155 (15 800)	157 (16 000)	156 (15 900)
	Full 40 degree turn	kN (kgf)	132 (13 500)	132 (13 500)	134 (13 700)	133 (13 600)	135 (13 800)	134 (13 700)
Breakout force		kN (kgf)	177 (18 040)	177 (18 030)	190 (19 410)	190 (19 400)	191 (19 470)	191 (19 460)
Operating weight*		kg	23 510	23 540	23 480	23 520	23 400	23 440

Note: 1. All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997 and ISO 7546:1983.

2. Static tipping load and operating weight marked with \* include 26.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

## BUCKET SELECTION GUIDE



Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

These specifications are subject to change without notice. Before use, read and understand the Operator's Manual for proper operation.