

# ZW100 ZW120

G Type

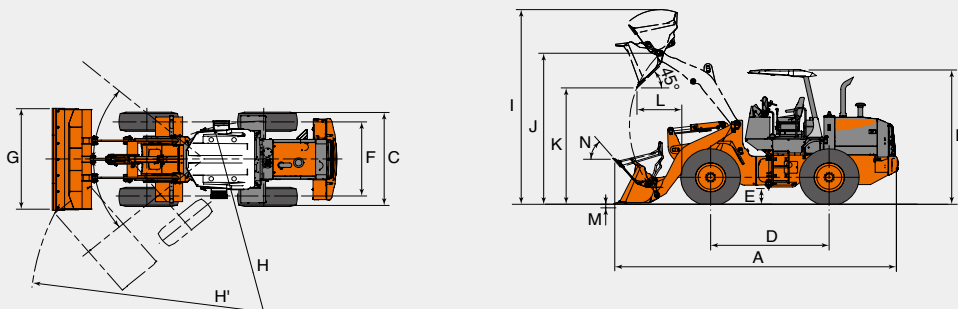


## WHEEL LOADER

- **Model Code:** ZW100-G / ZW120-G
- **Operating Weight:** ZW100-G: 6 530-7 100 kg  
ZW120-G: 7 560-8 640 kg
- **Bucket Capacity:** ISO Heaped: ZW100-G: 1.1-1.6 m<sup>3</sup>  
ZW120-G: 1.3-1.8 m<sup>3</sup>
- **Max. Engine Output:** ZW100-G: 62 kW (83 HP)  
ZW120-G: 68 kW (91 HP)

# SPECIFICATION

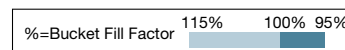
## DIMENSIONS & SPECIFICATIONS



Bucket type			ZW100-g				ZW120-g			
			Standard Lift Arm		High Lift Arm		Standard Lift Arm		High Lift Arm	
			General purpose with bolt-on cutting edges				General purpose with bolt-on cutting edges			
Bucket capacity	ISO heaped	m³	1.3	1.6	1.1	1.3	1.5	1.8	1.3	1.5
	ISO struck	m³	1.1	1.3	0.9	1.1	1.2	1.5	1.1	1.2
A Overall length		mm	6 235	6 365	6 650	6 720	6 370	6 495	6 875	6 955
B Overall height, bucket on ground (with canopy)		mm	3 090				3 160			
Overall height, bucket on ground (with ROPS/FOPS cab)		mm	3 130				3 200			
C Width over tires		mm	2 180				2 320			
D Wheel base		mm	2 600				2 725			
E Ground clearance		mm	365				370			
F Tread		mm	1 725				1 820			
G Bucket width		mm	2 340				2 480			
H Turning radius (centerline of outside tire)		mm	4 440				4 690			
H' Loader clearance circle, bucket in carry position		mm	5 220	5 250	5 390	5 410	5 440	5 470	5 600	5 620
I Overall operating height		mm	4 530	4 605	4 600	4 745	4 650	4 730	4 905	4 990
J Height to hinge pin, fully raised		mm	3 515		3 725		3 560		3 900	
K Dump clearance 45 degree, full height		mm	2 710	2 620	2 965	2 915	2 730	2 645	3 130	3 070
L Reach, 45 degree dump, full height		mm	1 000	1 085	1 260	1 310	980	1 065	1 095	1 155
M Digging depth (horizontal digging angle)		mm	80		290		70		220	
N Max. roll back at carry position		deg	50				49			
Static tipping load*	straight	kgf	4 800	4 720	3 810	3 780	5 480	5 390	5 260	5 180
	Full 40 degree turn	kgf	4 140	4 050	3 260	3 230	4 710	4 620	4 510	4 450
Breakout force		kN(kgf)	61 (6 222)	53 (5 406)	63 (6 426)	58 (5 916)	79 (8 058)	68 (6 936)	86 (8 772)	78 (7 956)
Operating weight (with canopy)*		kg	6 530	6 570	6 650	6 690	7 560	7 650	8 200	8 230
Operating weight (with ROPS/FOPS cab)*		kg	6 950	6 990	7 070	7 100	7 980	8 070	8 610	8 640

Notes: 1. All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7131:1997 and ISO 7546:1983  
2. Static tipping load and operating weight marked with \* include 16.9-24-10PR(L2):ZW100, 18.4-24-10PR(L2):ZW120 tires (no ballast) with lubricants, coolant, full fuel tank and operator.  
Machine stability and operating weight depend on counterweight, tire size and other attachments.

## BUCKET SELECTION GUIDE



ZW100-G : General purpose bucket with bolt-on cutting edges	Bucket Capacity m³	Material density kg/m³							
		800		1 000		1 200	1 400	1 600	1 800
Standard lift arm	1.3						<div></div>		
	1.6				<div></div>				
High lift arm	1.1						<div></div>		
	1.3					<div></div>			

ZW120-G : General purpose bucket with bolt-on cutting edges	Bucket Capacity m³	Material density kg/m³							
		800		1 000		1 200	1 400	1 600	1 800
Standard lift arm	1.5						<div></div>		
	1.8				<div></div>				
High lift arm	1.3						<div></div>		
	1.5					<div></div>			

ENGINE		ZW100-G	ZW120-G
Model		KUBOTA V3800-DI-T	KUBOTA V3800-DI-TI
Type		4-cycle water-cooled,direct injection	
Aspiration		Turbo charger	
No. of cylinders		4	
Maximum power	SAE J1349, with Fan net	62 kW (83 HP) at 2 100 min <sup>-1</sup> (2 100 rpm)	68 kW (91 HP) at 2 100 min <sup>-1</sup> (2 100 rpm)
	ISO 9249, with Fan net	62 kW (83 HP) at 2 100 min <sup>-1</sup> (2 100 rpm)	68 kW (91 HP) at 2 100 min <sup>-1</sup> (2 100 rpm)
Bore and stroke		100 mm x 120 mm	
Piston displacement		3.769 L	
Batteries		12V× 662 CCA, 159-min.rated reserve	
Air cleaner		Double stage dry type	

POWER TRAIN		ZW100-G	ZW120-G
Transmission controls		Hydrostatic (HST) transmission automatically controls power and 2-speed	
Travel speed : Forward & Reverse		34.5 km/h with 16.9-24-10PR tires	34.5 km/h with 18.4-24-10PR tires

AXLE AND FINAL DRIVE		ZW100-G	ZW120-G
Drive system		Four-wheel drive system	
Front & rear axle		Semi-floating	
Front		Fixed to the front frame	
Rear		Center pivot	
Oscillation angle		total 24° (±12°)	
Final drives		Heavy-duty, planetary final drive	

TIRES (tubeless, nylon body)		ZW100-G	ZW120-G
Standard		16.9-24-10PR (L2)	18.4-24-10PR (L2)
Optional		15.5-25-8PR (L2)*	17.5-25-12PR (L2)*

BRAKES		ZW100-G	ZW120-G
Service brakes		Inboard mounted fully hydraulic wet disk	
Parking brake		Spring applied hydraulic released wet disk	

STEERING SYSTEM		ZW100-G	ZW120-G
Type		Articulated frame steering	
Steering mechanism		Full hydraulic power steering with orbitrol®	
Steering angle		Each direction 40°; total 80°	
Cylinders		Double-acting piston type	
No. x Bore x Stroke		2 × 60 mm × 395 mm	2 × 60 mm × 395 mm
Minimum turning radius at the centerline of outside tire		4 440 mm	4 690 mm

HYDRAULIC SYSTEM		ZW100-G	ZW120-G
Arm and bucket are controlled by mechanical single control lever			
Arm controls		Four position valve; Raise, hold, lower, float	
Bucket controls		Two position valve; Roll back, dump	
Main pump	(Load & steer)	Gear type 108 L/min 2 100 min <sup>-1</sup> (rpm) at 20.6 MPa (210 kgf/cm <sup>2</sup> )	Gear type 117 L/min 2 100 min <sup>-1</sup> (rpm) at 20.6 MPa (210 kgf/cm <sup>2</sup> )
Relief pressure setting		20.6 MPa (210 kgf/cm <sup>2</sup> )	
Hydraulic cylinders Type		Two arm and one bucket, double acting type	
No. x Bore x Stroke		Arm: 2 × 90 mm × 760 mm Bucket : 1 × 110 mm × 421 mm	Arm: 2 × 105 mm × 710 mm Bucket : 1 × 125 mm × 445 mm
Filters		Full-flow 10 micron return filter before reservoir	
Hydraulic cycle times	Arm raise	5.0 s	5.7 s
	Arm lower	3.0 s	2.7 s
	Bucket dump	1.0 s	1.2 s

SERVICE REFILL CAPACITIES		ZW100-G	ZW120-G
Fuel tank		130 L	150 L
Engine coolant		14 L	
Engine oil		18 L	
Front axle differential & wheel hubs		10 L	14 L
Rear axle differential & wheel hubs		10 L	14 L
Hydraulic reservoir tank		75 L	80 L

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\*When the optional tires are selected, the weights and the heights are changed as follows:

15.5-25-8PR (L2)      Operational weight: -60 kg,      Height:-5 mm  
18.4-24-10PR (L2)      Operational weight: -10 kg,      Height:-5 mm

## STANDARD AND OPTIONAL EQUIPMENT

Section	Components	ZW100-G	ZW120-G
<b>Cabs</b>			
	Canopy	○	○
	ROPS/FOPS cab	●	●
<b>Front attachments</b>			
	High lift arm	●	●
	Quick coupler (hydraulic/mechanical)	●	●
	Lift arm kickout	●	●
	Bucket cylinder rod guard	●	●
<b>Forks</b>			
	Lumber fork (pin/coupler)	●	●
	Lumber fork (pin) for high lift arm	●	●
<b>Undercarriage</b>			
	Torque proportioning differential (TPD)	○	○
	Limited slip differential (LSD)	●	●
	Electric parking brake	○	○
	Emergency steering system	●	●
	Underguard	●	●
	Ride control	●	●
<b>Miscellaneous</b>			
	Wide fin radiator	●	●
	Suction fan & radiator dust screen	●	●
	Precleaner	●	●
	Backup buzzer	○	○
	Loud backup buzzer	●	●
	Rear under-mirror	●	●
	Anti-corrosive paint (pipes & electric wiring connectors)	●	●
	Air cleaner for double elements	○	○
	Lifting lugs	●	●
	Full rear fender	●	●
	Large capacity alternator	○	○
	Air condenser dust screen	●	●

## CAB AND CANOPY SPECIFICATIONS

○: Standard equipment ●: Optional equipment ×: No setting

Section	Components	ROPS/FOPS Cab	Canopy
<b>Operator station</b>			
	Full auto air conditioner	○	×
	Seat belt (2 inches)	×	○
	Seat belt (2 inches)*	○	×
	Seat belt (3 inches)*	●	×
	Tilttable steering column	○	○
	Sun visor	○	×
	AM/FM stereo radio	○	×
	Ashtray, cigar lighter	×	×
	Drink holder	○	×
	Large tray	○	×
	Hot & cool box	○	×
	Front windshield wiper (2-speed, intermittent) w/washer	○	×
	Rear windshield wiper w/washer	○	×
	Floor mat	○	○
	Quick shift switch (QSS)	○	○
	Implement lever lock	○	○
	Forward/rearward lever lock	○	○
	Hazard lamp	○	○
	Working light switch	○	○
	Door locks (inside/out)	○	×
	Room mirrors (2)	○	×
	Outer mirror	○	○
	12-V PTO (power take off)	●	×
	Immobilizer	●	●
<b>Operator seat</b>			
	Mechanical suspension seat (cloth-covered)	○	×
	Mechanical suspension seat (vinyl-covered)	●	●
	Air suspension seat w/headrest	●	×
	Fixed seat (vinyl-covered)	●	○
<b>Lights</b>			
	Headlights	○	○
	Rear combination lamps	○	○
	Backup light	○	○
	Front working lights (2)	○	×
	Extra front working lights (2) mounted on cab	●	×
	Rear working lights (2) built in rear grille	○	○
	Extra rear working lights (2) mounted on cab	●	×
<b>Valves, levers (cable-operated)</b>			
	2-spool valve w/mono lever	○	○
	3-spool valve w/mono lever + 1 lever	●	●
	4-spool valve w/mono lever + 1 lever	●	●
<b>Valves, levers (pilot-controlled)</b>			
	2-spool valve w/mono lever	●	×
	3-spool valve w/mono lever + 1 lever	●	×
	4-spool valve w/mono lever + 1 lever	●	×
	Global e-service	●	×

\*Retractable type for cab model with suspension seat

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