

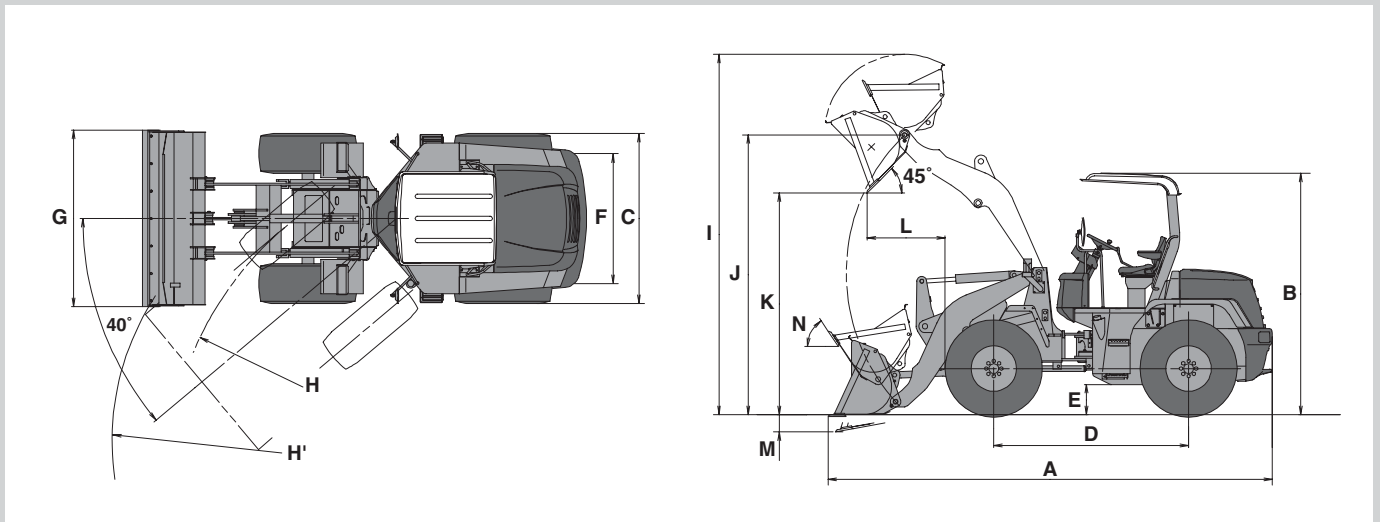
LX50

HITACHI

# LX50

W H E E L L O A D E R

- **Engine Rated Power** : 44.1 kW (60 PS)
- **Operating Weight** : Canopy / Cab  
4 695 kg (10 350 lb) / 4 845 kg (10 680 lb)
- **Backhoe Bucket** : ISO Heaped  
0.6 m<sup>3</sup> (0.8 yd<sup>3</sup>) – 1.2 m<sup>3</sup> (1.6 yd<sup>3</sup>)



Unit : mm (ft in)

	LX50-7
A Overall length	5 015 (16'5")
B Height to top of canopy and cab	2 725 (8'11") / 2 720 (8'11")
C Width over tires	1 920 (6'4")
D Wheel base	2 200 (7'3")
E Ground clearance	340 (1'1")
F Tread	1 470 (4'10")
G Bucket width	1 990 (6'6")
H Turning radius (centerline of outside tire)	3 770 (12'4")
H' Loader clearance circle, bucket in carry position	4 445 (14'7")
I Overall operating height	4 065 (13'4")
J Height to hinge pin, fully raised	3 160 (10'4")
K Dump clearance 45 degree, full height	2 500 (8'2")
L Reach, 45 degree dump, full height	880 (2'11")
Reach, 45 degree dump, 7 ft (2.13 m) clearance	1 185 (3'11")
M Digging depth (horizontal digging angle)	65 (3")
N Max. roll back at carry position	53 deg.
Tire size	17.5 / 65 - 20 - 10PR (L2)

Note: General purpose bucket with bolt on cutting edges.

## STANDARD & OPTIONAL EQUIPMENT

	LX50		LX50		LX50
<b>ENGINE</b>		Operator warning lights: Brake oil /	●	General purpose bucket with bolt on cutting edges : 0.9 m <sup>3</sup> (1.2 yd <sup>3</sup> : ISO heaped)	●
Coolant recovery tank	●	Engine oil pressure / Alternator voltage (charge)		Light material handling bucket with bolt on cutting edges : 1.0 m <sup>3</sup> (1.3 yd <sup>3</sup> : ISO heaped)	□
Environmentally friendly engine oil drain	●	Indicator lights: Turn signals / Warning flashers / High beam of driving light /	●	Wide (daily & livestock) bucket with bolt on cutting edges : 1.2 m <sup>3</sup> (1.6 yd <sup>3</sup> : ISO heaped)	□
Quick-release fuel filter and water separator	●	Work lights / Park brake / High gear		Quick-coupler and hydraulic control system for quick-coupler locking pins, includes all controls in the cab, lines, and valves	□
Glow system (for cold start)	●	Parking brake (negative)	●	Quick-coupler and mechanical control system for quick-coupler locking pins, lines, and valves	□
Double-element air cleaner	●	24-volt AM radio (for cab model only)	□	Full line of Hitachi buckets for quick coupler with selection of bolt-on cutting edges	
Clog prevention net and fan	□	24-volt AM/FM radio (for cab model only)	□	General purpose bucket with bolt on cutting edges : 0.9 m <sup>3</sup> (1.2 yd <sup>3</sup> : ISO heaped)	□
		Ride control system (APS: Anti-pitching System)	□	Light material handling bucket with bolt on cutting edges : 1.0 m <sup>3</sup> (1.3 yd <sup>3</sup> : ISO heaped)	□
<b>POWER TRAIN</b>				Wide (daily & livestock) bucket with bolt on cutting edges : 1.2 m <sup>3</sup> (1.6 yd <sup>3</sup> : ISO heaped)	□
Hydrostatic (HST) transmission, electronic shift control, twist-grip lever, hydrostatic oil cooler, inching pedal, and two speeds forward and reverse	●	<b>OPERATOR'S STATION</b>		Full line of construction utilityforks, pallet forks, and attachments*	
		Canopy		Lumber and manure fork : Max load 1 500 kg (3 300 lb) (pin on type)	□
		FRP roof / Multiplane isolation mount for noise/vibration reduction	●	Lumber and manure fork : Max load 1 400 kg (3 080 lb) (for quick coupler)	□
		ROPS** / FOPS***	□	Roll grab : Max load 1 300 kg (2 860 lb) (pin on type)	□
		With front curved glass, 2 pillars and wiper	□	Roll grab : Max load 1 200 kg (2 640 lb) (for quick coupler)	□
		Cab			
		Steel cab (without ROPS / FOPS) / Multi-plane isolation mounted for noise / vibration reduction / Front windshield washers / Safety grass	□	<b>TIRES</b>	
		ROPS** / FOPS*** / Multi-plane isolation mounted for noise / vibration reduction / Front windshield washers / Safety grass	□	- Bias ply :	
		Vinyl cab with front glass and vinyl shielding	□	17.5/65-20-10PR (L2)	●
		Heater / Defroster (Cab model only)	□	Tire chain (H type)	□
		Air conditioning (for cab, factory or dealer installed)	□	Spare tire with rim	□
		Seat belt, 50mm (2 in.)	□	Spare rim	□
		Seat belt, 76 mm (3 in.), with retractor*	□	Solid tires with rims per machine	□
		Seat, vinyl covered, adjustable for fore-aft position, backrest tilt	●	Spare solid tire with rim	□
		Seat, vinyl covered, mechanical suspension, adjustable for weight-height, fore-aft position, backrest tilt	□	Standard tires and galvanized rims per machine	□
		Rubber floor mat	□	1 spare standard tire and galvanized rim	□
		Steering wheel, textured with spinner knob	□	1 spare galvanized rim	□
		Rear view mirrors, outside (2)	●		
		Handholds, steps, and slip resistant	●	<b>OTHERS</b>	
				Vandal protection, includes lockable engine enclosure, and fuel fill	●
		<b>LOADER LINKAGE</b>		Counter weight, built-in	●
		Z-bar loader linkage provides "high bucket breakout" High-lift boom*	●	Power steering	●
			□	Lifting lig (4-point support)	□
		<b>BUCKETS AND ATTACHMENTS</b>			
		Full line of Hitachi pin on buckets with selection of bolt-on cutting edges, and bolt-on teeth*			

Note: ● Standard equipment □ Optional or special equipment

\* : Contact your Hitachi dealer for further information.

\*\* : ROPS (Roll Over Protective Structure) Conforms to ISO 3471;1994.

\*\*\* : FOPS (Falling Objects Protective Structure) Conforms to ISO 3449; 1992 Level II.



## ENGINE

Model .....	Kubota V3300-DI-KA
Type .....	4-cycle water-cooled, direct injection
No. of cylinders .....	4
Rated power	
DIN 6 271, net .....	44.1 kW (60 PS) at 2 200 min <sup>-1</sup> (2 200 rpm)
SAE J1349, net .....	44.1 kW (59 hp) at 2 200 min <sup>-1</sup> (2 200 rpm)
Bore and stroke .....	98 mm (3.86") x 110 mm (4.33")
Piston displacement .....	3.318 L (202.4 in <sup>3</sup> )
Electrical system .....	24 volt with 1.44 kW, 60 A alternator
Starting system .....	24 V x 3.2 kW electric motor.
Batteries .....	2 x 12 V / 306 CCA, 78-min. rated reserve
Air cleaner .....	Single stage dry type with restriction indicator



## POWER TRAIN

Transmission .....	Hydrostatic transmission automatically controls power and speed with electrically controlled.
Travel speed* : km/h (mph)	
	Forward & Reverse
Low - hold .....	12 (7.5)
Travel range .....	34 (21.1)
	<i>* With 17.5 / 65-20-10PR (L2) tires</i>



## AXLE AND FINAL DRIVE

Drive system .....	Four-wheel drive system
Front & rear axle .....	Semi-floating
	Front : fixed to the front frame
	Rear : Center pivot
Reduction and differential gear .....	conventional
Oscillation angle .....	±11° ; total 22°
Final drives .....	Heavy duty, planetary final drive



## TIRES (tubeless, nylon body)

Standard .....	17.5/65-20-10PR (L2)
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## BRAKES

Service brakes .....	Inboard mounted fully hydraulic 4 wheel wet disk.
Parking brake .....	Spring applied hydraulic released wet disk.



## STEERING SYSTEM

Type .....	Articulated frame steering
Steering mechanism .....	Full hydraulic power steering with orbitrol
Steering angle .....	Each direction 40° ; total 80°
Relief pressure .....	17.2 MPa (175 kgf/cm <sup>2</sup> , 2 490 psi)
Cylinders .....	Two double-acting piston type
No. x Bore x Stroke .....	2 x 45 mm (1.8") x 340 mm (13.4")
Minimum turning radius at	
the centerline of outside tire .....	3.77 m (12'4")



## HYDRAULIC SYSTEM

Boom and bucket are controlled by mechanical single control lever	
Boom controls .....	Four position valve ; Raise, hold, lower, float
Bucket controls with automatic bucket	
return-to-dig control .....	Three position valve ; Roll back, hold, dump
Main pump	
(Load & steer) .....	Gear type 78.7 L/min (20.8 US gal , 17.3 Imp gal/min)
	@ 2 200 min <sup>-1</sup> (rpm) at 20.6 MPa (210 kgf/cm <sup>2</sup> , 2 990 psi)
Relief pressure setting .....	20.6 MPa (210 kgf/cm <sup>2</sup> , 2 990 psi)
Hydraulic cylinders	
Type .....	Two boom and one bucket, double acting type
No. x Bore x Stroke .....	Boom : 2 x 85 mm (3.3") x 552 mm (9.7")
	Bucket : 1 x 80 mm (3.1") x 457 mm (6.0")
Filters .....	Full-flow 15 micron return filter in reservoir
Hydraulic cycle times	
Lift boom Raise .....	5.0 s
Lower .....	3.5 s
Bucket dump .....	1.0 s



## SERVICE REFILL CAPACITIES

Fuel tank .....	75 L (19.8 US gal, 16.5 Imp gal)
Engine coolant .....	12 L ( 3.2 US gal, 2.6 Imp gal)
Engine oil .....	13.2 L ( 3.5 US gal, 2.9 Imp gal)
Front axle differential & wheel hubs .....	9.5 L ( 2.5 US gal, 2.1 Imp gal)
Rear axle differential & wheel hubs .....	9.5 L ( 2.5 US gal, 2.1 Imp gal)
Hydraulic reservoir .....	73 L (19.3 US gal, 16.1 Imp gal)



## DIMENSIONS

Bucket type			Standard boom			Semi-high-lift boom		Semi-high-lift boom with quick-coupler	
			General purpose	Light material handling	Dairy & livestock	General purpose	General purpose	General purpose	Light material handling
			With bolt-on cutting edges	With bolt-on cutting edges	With bolt-on cutting edges	With bolt-on cutting edges	With bolt-on cutting edges	With bolt-on cutting edges	With bolt-on cutting edges
Bucket capacity	ISO heaped	m <sup>3</sup> (yd <sup>3</sup> )	0.9 (1.2)	1.0 (1.3)	1.2 (1.6)	0.8 (1.0)	0.9 (1.2)	0.8 (1.0)	0.9 (1.2)
	ISO struck	m <sup>3</sup> (yd <sup>3</sup> )	0.7 (0.9)	0.85 (1.1)	1.05 (1.4)	0.65 (0.9)	0.7 (0.9)	0.65 (0.9)	0.7 (0.9)
Bucket width		mm (ft-in)	1 990 (6'6")	1 990 (6'6")	1 990 (6'6")	1 990 (6'6")	1 990 (6'6")	1 990 (6'6")	1 990 (6'6")
Working range									
	Dump clearance 45 degree, full height	mm (ft-in)	2 500 (8'2")	2 415 (7'11")	2 345 (7'8")	2 735 (8'12")	2 705 (8'10")	2 625 (8'7")	2 595 (8'6")
	Reach, 45 degree dump, full height	mm (ft-in)	880 (2'11")	970 (3'2")	1 040 (3'5")	910 (2'12")	940 (3'1")	1 020 (3'4")	1 050 (3'5")
	Reach, 45 degree dump, 7 ft (2.13 m) clearance	mm (ft-in)	1 185 (3'11")	1 210 (3'12")	1 225 (4'0")	1 395 (4'7")	1 410 (4'8")	1 440 (4'9")	1 450 (4'9")
	Digging depth (horizontal digging angle)	mm (ft-in)	65 (2.6")	65 (2.6")	65 (2.6")	65 (2.6")	65 (2.6")	65 (2.6")	65 (2.6")
	Overall height, bucket on ground (with FRP canopy)	mm (ft-in)	2 725 (8'11")	2 725 (8'11")	2 725 (8'11")	2 725 (8'11")	2 725 (8'11")	2 725 (8'11")	2 725 (8'11")
	Overall height, bucket on ground (with ROPS canopy)	mm (ft-in)	2 855 (9'4")	2 855 (9'4")	2 855 (9'4")	2 855 (9'4")	2 855 (9'4")	2 855 (9'4")	2 855 (9'4")
	Overall height, bucket on ground (with Steel cab)	mm (ft-in)	2 720 (8'11")	2 720 (8'11")	2 720 (8'11")	2 720 (8'11")	2 720 (8'11")	2 720 (8'11")	2 720 (8'11")
	Overall height, bucket on ground (with ROPS cab)	mm (ft-in)							
	Overall operating height	mm (ft-in)	4 065 (13'4")	4 065 (13'4")	4 190 (13'9")	4 230 (13'11")	4 270 (14'0")	4 330 (14'2")	4 370 (14'4")
	Overall length (Bucket on ground)	mm (ft-in)	5 015 (16'5")	5 135 (16'10")	5 235 (17'2")	5 225 (17'2")	5 265 (17'3")	5 385 (17'8")	5 425 (17'10")
	Loader clearance circle, bucket in carry position	mm (ft-in)	4 445 (14'7")	4 505 (14'9")	4 530 (14'10")	4 560 (14'12")	4 570 (14'12")	4 605 (15'1")	4 615 (15'2")
Static tipping load *	Straight	kgf (lbf)	3 400 (7 500)	3 350 (7 390)	3 270 (7 210)	2 960 (6 530)	2 950 (6 500)	2 840 (6 260)	2 820 (6 220)
	Full 40 degree turn	kgf (lbf)	2 900 (6 390)	2 850 (6 280)	2 820 (6 220)	2 570 (5 670)	2 560 (5 640)	2 470 (5 450)	2 470 (5 450)
Breakout force		kN	47	39	34	47	44	36	33
		kgf (lbf)	4 750 (10 470)	4 000 (8 820)	3 500 (7 720)	4 800 (10 580)	4 500 (9 920)	3 700 (8 160)	3 400 (7 500)
Operating weight *		kgf (lbf)	4 695 (10 350)	4 715 (10 390)	4 755 (10 480)	4 755 (10 480)	4 765 (10 510)	4 890 (10 780)	4 905 (10 810)

Bucket type			Standard boom with quick-coupler			High-lift boom	
			General purpose	Light material handling	Dairy & livestock	General purpose	General purpose
			With bolt-on cutting edges	With bolt-on cutting edges	With bolt-on cutting edges	With bolt-on cutting edges	With bolt-on cutting edges
Bucket capacity	ISO heaped	m <sup>3</sup> (yd <sup>3</sup> )	0.9 (1.2)	1.0 (1.3)	1.2 (1.6)	0.6 (0.8)	0.8 (1.0)
	ISO struck	m <sup>3</sup> (yd <sup>3</sup> )	0.7 (0.9)	0.85 (1.1)	1.05 (1.4)	0.5 (0.7)	0.65 (0.9)
Bucket width		mm (ft-in)	1 990 (6'6")	1 990 (6'6")	1 990 (6'6")	1 990 (6'6")	1 990 (6'6")
Working range							
	Dump clearance 45 degree, full height	mm (ft-in)	2 390 (7'10")	2 305 (7'7")	2 235 (7'4")	2 925 (9'7")	2 875 (9'5")
	Reach, 45 degree dump, full height	mm (ft-in)	990 (3'3")	1 075 (3'6")	1 145 (3'9")	1 135 (3'9")	1 185 (3'11")
	Reach, 45 degree dump, 7 ft (2.13 m) clearance	mm (ft-in)	1 220 (4'0")	1 235 (4'1")	1 240 (4'1")	1 695 (5'7")	1 755 (5'9")
	Digging depth (horizontal digging angle)	mm (ft-in)	65 (2.6")	65 (2.6")	65 (2.6")		
	Overall height, bucket on ground (with FRP canopy)	mm (ft-in)	2 725 (8'11")	2 725 (8'11")	2 725 (8'11")		
	Overall height, bucket on ground (with ROPS canopy)	mm (ft-in)	2 855 (9'4")	2 855 (9'4")	2 855 (9'4")		
	Overall height, bucket on ground (with Steel cab)	mm (ft-in)	2 720 (8'11")	2 720 (8'11")	2 720 (8'11")		
	Overall height, bucket on ground (with ROPS cab)	mm (ft-in)					
	Overall operating height	mm (ft-in)	4 165 (13'8")	4 165 (13'8")	4 300 (14'1")	4 230 (13'11")	4 375 (14'4")
	Overall length (Bucket on ground)	mm (ft-in)	5 175 (16'12")	5 295 (17'4")	5 395 (17'8")	5 510 (18'1")	5 580 (18'4")
	Loader clearance circle, bucket in carry position	mm (ft-in)	4 515 (14'10")	4 550 (14'11")	4 580 (15'0")	4 705 (15'5")	4 730 (15'6")
Static tipping load *	Straight	kgf (lbf)	3 700 (8 160)	3 200 (7 050)	2 800 (6 170)		
	Full 40 degree turn	kgf (lbf)	3 130 (6 900)	3 080 (6 790)	3 000 (6 610)		
Breakout force		kN	27	27	27		
		kgf (lbf)	2 780 (6 130)	2 730 (6 020)	2 710 (5 970)		
Operating weight *		kgf (lbf)	4 835 (10 660)	4 850 (10 690)	4 900 (10 800)		

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 17.5/65-20-10PR (L2) tires (no ballast) with lubricants, coolant, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

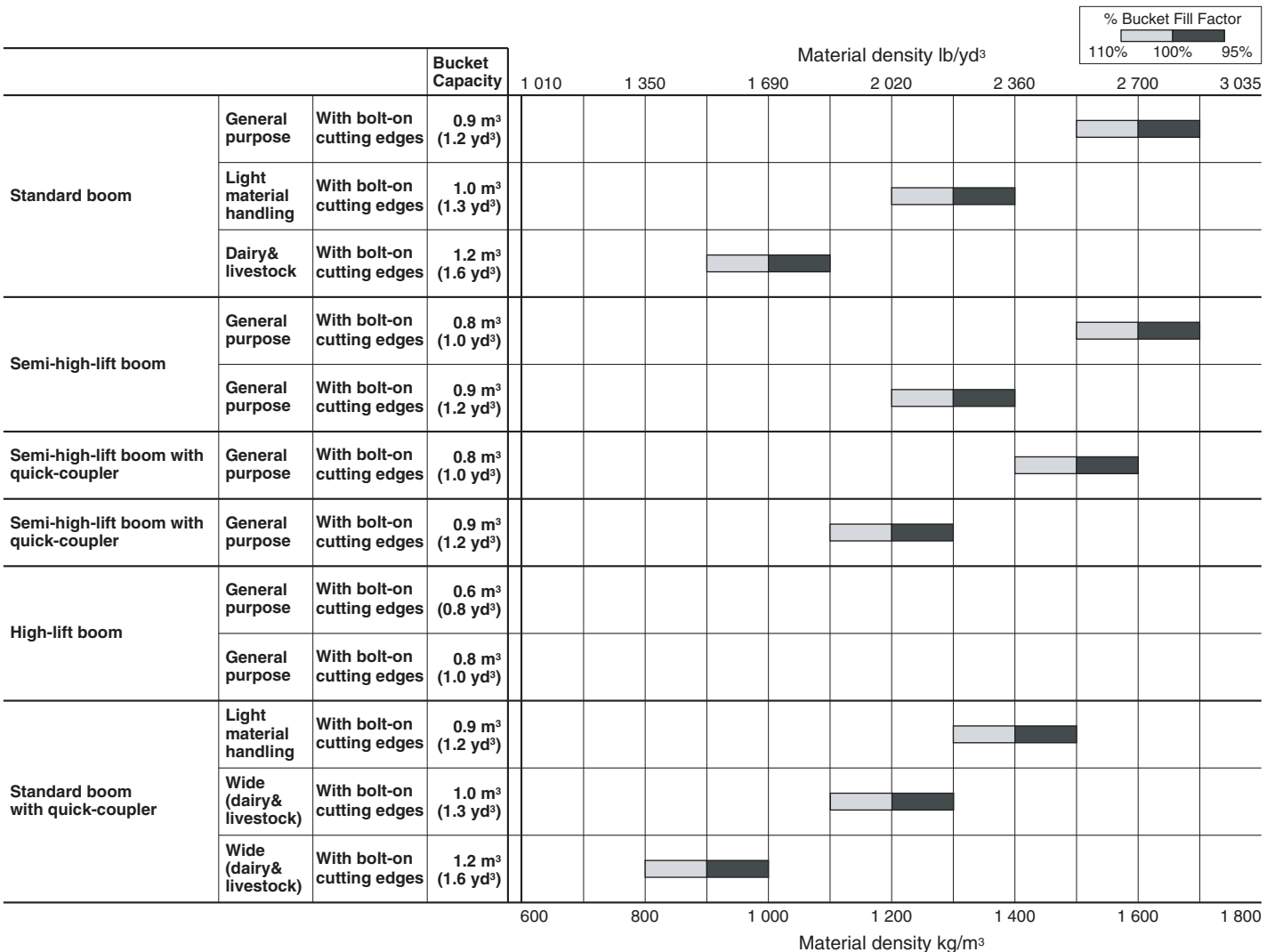


**WEIGHT CHANGES**

Tires and Options	Change in operating weight		Change in tipping load			
			Straight		Full turn	
	kg	lb	kg	lb	kg	lb
Steel cab (in lieu of FRP roof canopy )	4 845	10 681	3 530	7 782	3 010	6 636
ROPS canopy (in lieu of FRP roof canopy )	4 885	10 769	3 600	7 937	3 080	6 790
ROPS cab (in lieu of FRP roof canopy )						
Canopy with front curved glass ( add to FRP roof canopy )	4 745	10 461	3 430	7 562	2 920	6 437
Vinyl cab with front glass ( add to FRP roof canopy )	4 755	10 483	3 440	7 584	2 930	6 459
Lumber and pallet fork (pin on type)	4 715	10 395	2 380	5 247	2 070	4 563
Lumber and pallet fork (for quick coupler)	4 835	10 659	2 260	4 982	2 040	4 497
Manure fork (pin on type)						
Manure fork (for quick coupler)						
Roll grab (pin on type)						
Roll grab (for quick coupler)	4 770	10 516	2 050	4 519	1 790	3 946



**BUCKET SELECTION GUIDE**



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*These specifications are subject to change without notice.*

*Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features.*

KL-E100P

'02.06 (KA/KA, MT<sub>3</sub>)