

# S P E C I F I C A T I O N S

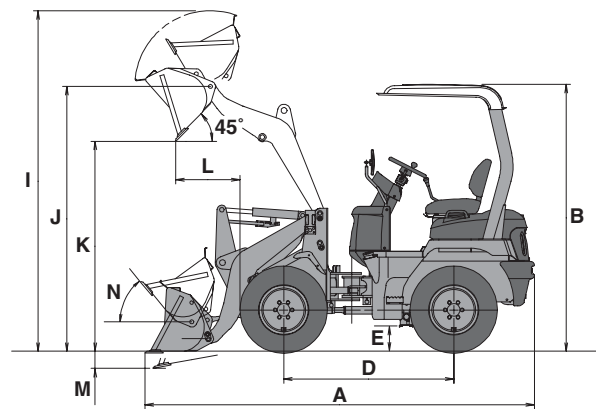
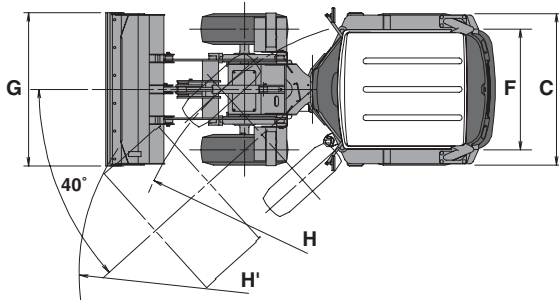
LX15

HITACHI

# LX15

W H E E L L O A D E R

- n **Engine Rated Power** : 16.2 kW (22 PS)
- n **Operating Weight** : Canopy / Cab  
1 915 kg (4 220 lb) / 2 090 kg (4 610 lb)
- n **Backhoe Bucket** : ISO Heaped  
0.3 m<sup>3</sup> (0.4 yd<sup>3</sup>) – 0.5 m<sup>3</sup> (0.7 yd<sup>3</sup>)



Unit : mm (ft in)

	LX15-7
A Overall length	3 440 (11'3")
B Height to top of canopy and cab	2 350 (7'9") / 2 395 (7'10")
C Width over tires	1 335 (4'5")
D Wheel base	1 500 (4'11")
E Ground clearance	215 (8")
F Tread	1 065 (3'6")
G Bucket width	1 350 (4'5")
H Turning radius (centerline of outside tire)	2 545 (8'4")
H' Loader clearance circle, bucket in carry position	2 970 (9'9")
I Overall operating height	3 005 (9'10")
J Height to hinge pin, fully raised	2 335 (7'8")
K Dump clearance 45 degree, full height	1 850 (6'1")
L Reach, 45 degree dump, full height	570 (1'10")
Reach, 45 degree dump, 7 ft (2.13 m) clearance	—
M Digging depth (horizontal digging angle)	55 (2")
N Max. roll back at carry position	51 deg.
Tire size	10 - 16.5 - 4PR (L2)

Note: General purpose bucket with bolt on cutting edges.

## STANDARD & OPTIONAL EQUIPMENT

	LX15		LX15		LX15
<b>ENGINE</b>					
Coolant recovery tank	●	Operator warning lights: Brake oil /	●	Wide (daily & livestock) bucket with bolt on cutting edges : 0.5 m <sup>3</sup> (0.7 yd <sup>3</sup> : ISO heaped)	□
Environmentally friendly engine oil drain	●	Engine oil pressure / Alternator voltage (charge)		Quick-coupler and mechanical control system for quick-coupler locking pins, lines, and valves	□
Quick-release fuel filter and water separator	●	Indicator lights: Turn signals / Warning flashers / High beam of driving light /	●	Full line of Hitachi buckets for quick coupler with selection of bolt-on cutting edges	
Glow system (for cold start)	●	Work lights / Park brake / High gear		General purpose bucket with bolt on cutting edges : 0.3 m <sup>3</sup> (0.4 yd <sup>3</sup> : ISO heaped)	□
Double-element air cleaner	□	Parking brake (negative)	●	Light material handling bucket with bolt on cutting edges : 0.4 m <sup>3</sup> (0.5 yd <sup>3</sup> : ISO heaped)	□
Clog prevention net and fan	□	12-volt AM radio (for cab model only)	□	Wide (daily & livestock) bucket with bolt on cutting edges : 0.5 m <sup>3</sup> (0.6 yd <sup>3</sup> : ISO heaped)	□
		12-volt AM/FM radio (for cab model only)	□	Full line of construction utilityforks, pallet forks, and attachments*	
<b>POWER TRAIN</b>		Ride control system (APS: Anti-pitching System)*	□	Lumber and manure fork : Max load 600 kg (1 320 lb) (pin on type)	□
Hydrostatic (HST) transmission, electronic shift control, twist-grip lever, hydrostatic oil cooler, inching pedal, and two speeds forward and reverse	●			Lumber and manure fork : Max load 550 kg (1 210 lb) (for quick coupler)	□
		<b>OPERATOR'S STATION</b>		Manure fork : Max load 600 kg (1 320 lb) (for quick coupler)	□
		Canopy	●	Roll grab : Max load 500 kg (1 100 lb) (pin on type)	□
		FRP roof	□	Roll grab : Max load 400 kg (880 lb) (for quick coupler)	□
		ROPS** / FOPS***			
<b>HYDRAULIC SYSTEM</b>		Cab		<b>TIRES</b>	
Automatic bucket return-to-dig control	●	Steel cab (without ROPS / FOPS) /	□	- Bias ply :	
Hydraulic filters, vertical mounting	●	Front windshield washers / Safety grass		10-16.5-4PR (L2)	●
Two-function hydraulic valve with joystick control (mechanical controlled)	●	Vinyl cab with front glass and vinyl shielding	□	Tire chain (H type)	□
Three-function hydraulic valve with joystick control and auxiliary lever for third function (mechanical controlled)	□	Heater / Defroster (Cab model only)	□	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	●	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	□
		Seat, vinyl covered, adjustable for fore-aft position, backrest tilt		1 spare standard tire and galvanized rim	□
		Rubber floor mat		1 spare galvanized rim	□
		Steering wheel, textured with spinner knob			
		Rear view mirrors, outside (2)		<b>OTHERS</b>	
		Handholds, steps, and slip resistant		Vandal protection, includes lockable engine enclosure, and fuel fill	●
				Counter weight, built-in	●
		<b>LOADER LINKAGE</b>		Power steering	●
		Z-bar loader linkage provides "high bucket breakout"	●	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*			
		General purpose bucket with bolt on cutting edges : 0.3 m <sup>3</sup> (0.4 yd <sup>3</sup> : ISO heaped)	●		
		Light material handling bucket with bolt on cutting edges : 0.4 m <sup>3</sup> (0.5 yd <sup>3</sup> : ISO heaped)	□		

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 D1105-K2A
Type .....	4-cycle water-cooled, direct injection
No. of cylinders .....	3
Rated power	
DIN 6 271, net .....	16.2 kW (23 PS) at 2 500 min <sup>-1</sup> (2 500 rpm)
SAE J1349, net .....	16.2 kW (22 hp) at 2 500 min <sup>-1</sup> (2 500 rpm)
Bore and stroke .....	78 mm (3.07") x 78.4 mm (3.08")
Piston displacement .....	1.123 L (68.5 in <sup>3</sup> )
Electrical system .....	12 volt with 0.48 kW, 40 A alternator
Starting system .....	12 V x 1.4 kW electric motor.
Batteries .....	1 x 12 V / 490 CCA, 123-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 .....	6.2 (3.9)
Travel range .....	15 (9.3)
	* With 10-16.5-4PR (L2) tires



## 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 .....	±8° ; total 16°
Final drives .....	Heavy duty, planetary final drive



## TIRES (tubeless, nylon body)

Standard .....	10-16.5-4PR (L2)
----------------	------------------



## 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 42° ; total 84°
Relief pressure .....	17.2 MPa (175 kgf/cm <sup>2</sup> , 2 490 psi)
Cylinders .....	Double-acting piston type
No. x Bore x Stroke .....	1 x 50 mm (2.0") x 233 mm (9.2")
Minimum turning radius at the centerline of outside tire .....	2.545 m (8'4")



## 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 23 L/min (6.1 US gal, 5.1 Imp gal/min) @ 2 500 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 55 mm (2.2") x 385 mm (15.2")
	Bucket : 1 x 60 mm (2.4") x 262 mm (10.3")
Filters .....	Full-flow 15 micron return filter in reservoir
Hydraulic cycle times	
Lift boom Raise .....	4.6 s
Lower .....	3.2 s
Bucket dump .....	1.0 s



## SERVICE REFILL CAPACITIES

Fuel tank .....	33 L ( 8.7 US gal, 7.3 Imp gal)
Engine coolant .....	5.5 L ( 1.5 US gal, 1.2 Imp gal)
Engine oil .....	5.6 L ( 1.5 US gal, 1.2 Imp gal)
Front axle differential & wheel hubs .....	3.5 L ( 0.9 US gal, 0.8 Imp gal)
Rear axle differential & wheel hubs .....	3.5 L ( 0.9 US gal, 0.8 Imp gal)
Hydraulic reservoir .....	25 L ( 6.6 US gal, 5.5 Imp gal)



## DIMENSIONS

Bucket type			Standard boom		
			General purpose	Light material handling	Wide(dairy&livestock)
			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> )	0.3 (0.4)	0.4 (0.5)	0.5 (0.7)
	ISO struck	m <sup>3</sup> (yd <sup>3</sup> )	0.24 (0.3)	0.35 (0.5)	0.43 (0.6)
Bucket width		mm (ft-in)	1 350 (4'5")	1 405 (4'7")	1 570 (5'2")
Working range					
	Dump clearance 45 degree, full height	mm (ft-in)	1 850 (6'1")	1 765 (5'9")	1 665 (5'6")
	Reach, 45 degree dump, full height	mm (ft-in)	570 (1'10")	650 (2'2")	755 (2'6")
	Reach, 45 degree dump, 7 ft (2.13 m) clearance	mm (ft-in)			
	Digging depth (horizontal digging angle)	mm (ft-in)	55 (2.2")	55 (2.2")	55 (2.2")
	Overall height, bucket on ground(with FRP canopy)	mm (ft-in)	2 350 (7'9")	2 350 (7'9")	2 350 (7'9")
	Overall height, bucket on ground(with Steel cab)	mm (ft-in)	2 395 (7'10")	2 395 (7'10")	2 395 (7'10")
	Overall operating height	mm (ft-in)	3 005 (9'10")	3 085 (10'1")	3 030 (9'11")
	Overall length (Bucket on ground)	mm (ft-in)	3 440 (11'3")	3 555 (11'8")	3 695 (12'1")
	Loader clearance circle, bucket in carry position	mm (ft-in)	2 970 (9'9")	3 025 (9'11")	3 140 (10'4")
Static tipping load *	Straight	kgf (lbf)	1 350 (2 980)	1 290 (2 840)	1 250 (2 760)
	Full 42 degree turn	kgf (lbf)	1 100 (2 430)	1 050 (2 310)	1 020 (2 250)
Breakout force		kN	21	16	13
		kgf (lbf)	2 100 (4 630)	1 650 (3 640)	1 300 (2 870)
Operating weight *		kgf (lbf)	1 915 (4 220)	1 935 (4 270)	1 960 (4 320)

Bucket type			Standard boom with quick-coupler		
			General purpose	Light material handling	Wide(dairy&livestock)
			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> )	0.3 (0.4)	0.4 (0.5)	0.5 (0.7)
	ISO struck	m <sup>3</sup> (yd <sup>3</sup> )	0.24 (0.3)	0.35 (0.5)	0.43 (0.6)
Bucket width		mm (ft-in)	1 350 (4'5")	1 405 (4'7")	1 570 (5'2")
Working range					
	Dump clearance 45 degree, full height	mm (ft-in)	1 765 (5'9")	1 680 (5'6")	1 580 (5'2")
	Reach, 45 degree dump, full height	mm (ft-in)	650 (2'2")	740 (2'5")	840 (2'9")
	Reach, 45 degree dump, 7 ft (2.13 m) clearance	mm (ft-in)			
	Digging depth (horizontal digging angle)	mm (ft-in)	55 (2.2")	55 (2.2")	55 (2.2")
	Overall height, bucket on ground(with FRP canopy)	mm (ft-in)	2 350 (7'9")	2 350 (7'9")	2 350 (7'9")
	Overall height, bucket on ground(with Steel cab)	mm (ft-in)	2 395 (7'10")	2 395 (7'10")	2 395 (7'10")
	Overall operating height	mm (ft-in)	3 085 (10'1")	3 170 (10'5")	3 115 (10'3")
	Overall length (Bucket on ground)	mm (ft-in)	3 555 (11'8")	3 675 (12'1")	3 815 (12'6")
	Loader clearance circle, bucket in carry position	mm (ft-in)	3 000 (9'10")	3 060 (10'0")	3 175 (10'5")
Static tipping load *	Straight	kgf (lbf)	1 240 (2 730)	1 180 (2 600)	1 150 (2 540)
	Full 42 degree turn	kgf (lbf)	1 000 (2 200)	950 (2 090)	930 (2 050)
Breakout force		kN	16	13	10
		kgf (lbf)	1 600 (3 530)	1 300 (2 870)	1 050 (2 310)
Operating weight *		kgf (lbf)	1 965 (4 330)	1 985 (4 380)	2 005 (4 420)

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 10-16.5-4PR (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.

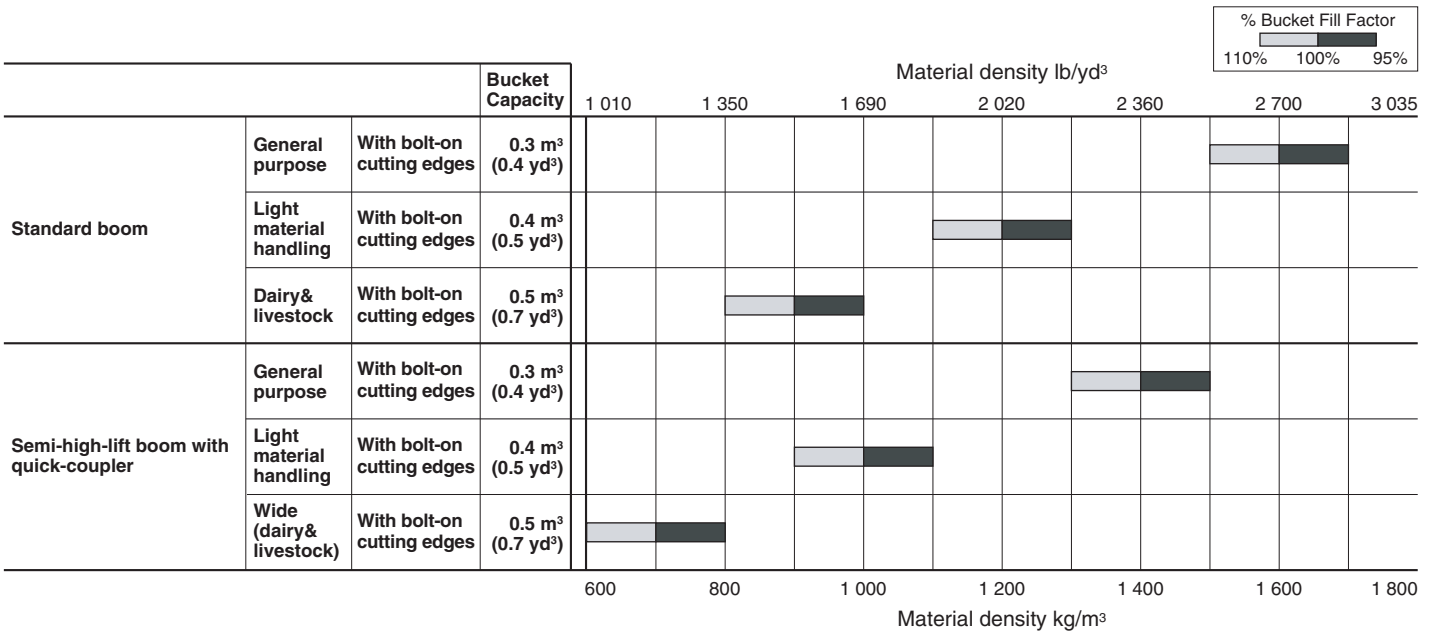


## WEIGHT CHANGES

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 )	2 090	4 608	1 560	3 439	1 280	2 822
Canopy with front curved glass ( add to FRP roof canopy )	1 965	4 332	1 390	3 064	1 140	2 513
Vinyl cab with front glass ( add to FRP roof canopy )	1 975	4 354	1 400	3 086	1 150	2 535
Lumber and pallet fork (pin on type)	1 960	4 321	880	1 940	710	1 565
Lumber and pallet fork (for quick coupler)	2 005	4 420	790	1 742	630	1 389
Manure fork (pin on type)						
Manure fork (for quick coupler)	1 925	4 244	810	1 786	660	1 455
Roll grab (pin on type)						
Roll grab (for quick coupler)	1 950	4 299	820	1 808	670	1 477



## BUCKET SELECTION GUIDE



 **Hitachi Construction Machinery Co., Ltd.**

**Head Office:** 5-1 Koraku 2-chome, Bunkyo-ku,  
Tokyo 112-8563, Japan

**Telephone:** (03)3830-8050

**Facsimile:** (03)3830-8202

*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-E096P

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

Printed in Japan