

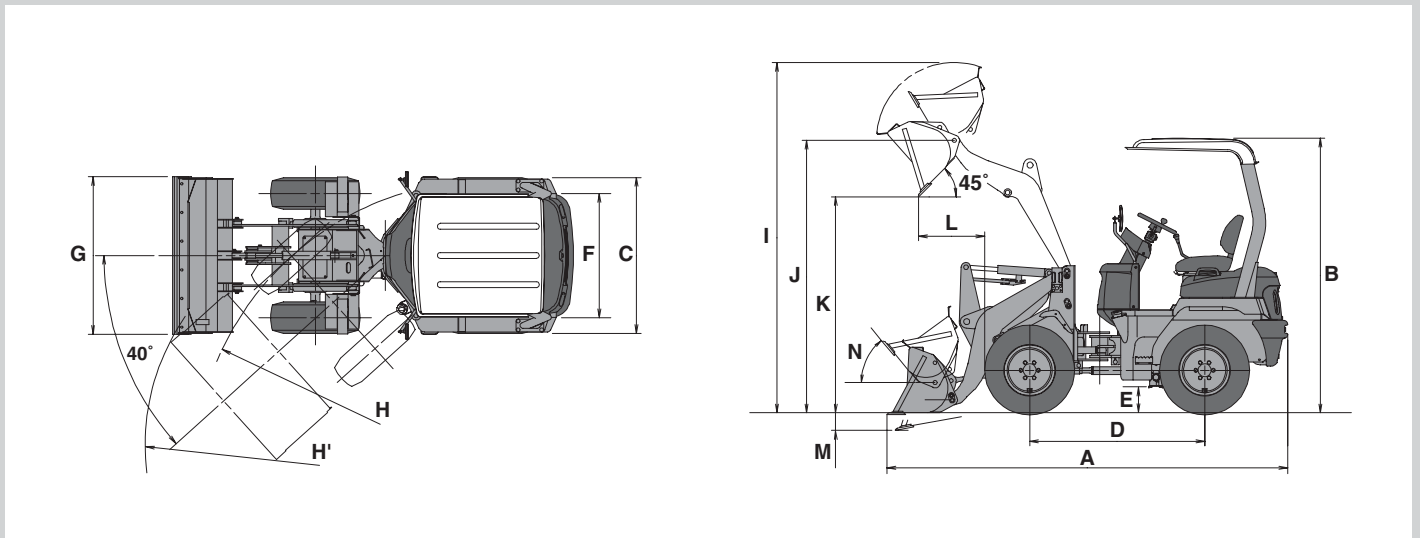
LX15

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 m³ (0.4 yd³) – 0.5 m³ (0.7 yd³)



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
ENGINE					
Coolant recovery tank	●	Operator warning lights: Brake oil /	●	Wide (daily & livestock) bucket with bolt on cutting edges : 0.5 m ³ (0.7 yd ³ : 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 ³ (0.4 yd ³ : ISO heaped)	□
Double-element air cleaner	□	Parking brake (negative)	●	Light material handling bucket with bolt on cutting edges : 0.4 m ³ (0.5 yd ³ : 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 ³ (0.6 yd ³ : ISO heaped)	□
		12-volt AM/FM radio (for cab model only)	□	Full line of construction utilityforks, pallet forks, and attachments*	
POWER TRAIN		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)	□
		OPERATOR'S STATION		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***	□		
HYDRAULIC SYSTEM		Cab		TIRES	
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)		OTHERS	
		Handholds, steps, and slip resistant		Vandal protection, includes lockable engine enclosure, and fuel fill	●
				Counter weight, built-in	●
		LOADER LINKAGE		Power steering	●
		Z-bar loader linkage provides "high bucket breakout"	●	Lifting lig (4-point support)	□
		BUCKETS AND ATTACHMENTS			
		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 ³ (0.4 yd ³ : ISO heaped)	●		
		Light material handling bucket with bolt on cutting edges : 0.4 m ³ (0.5 yd ³ : 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 ⁻¹ (2 500 rpm)
SAE J1349, net	16.2 kW (22 hp) at 2 500 min ⁻¹ (2 500 rpm)
Bore and stroke	78 mm (3.07") x 78.4 mm (3.08")
Piston displacement	1.123 L (68.5 in ³)
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)
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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 42° ; total 84°
Relief pressure	17.2 MPa (175 kgf/cm ² , 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 ⁻¹ (rpm) at 20.6 MPa (210 kgf/cm ² , 2 990 psi)
Relief pressure setting	20.6 MPa (210 kgf/cm ² , 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 ³ (yd ³)	0.3 (0.4)	0.4 (0.5)	0.5 (0.7)
	ISO struck	m ³ (yd ³)	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 ³ (yd ³)	0.3 (0.4)	0.4 (0.5)	0.5 (0.7)
	ISO struck	m ³ (yd ³)	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.

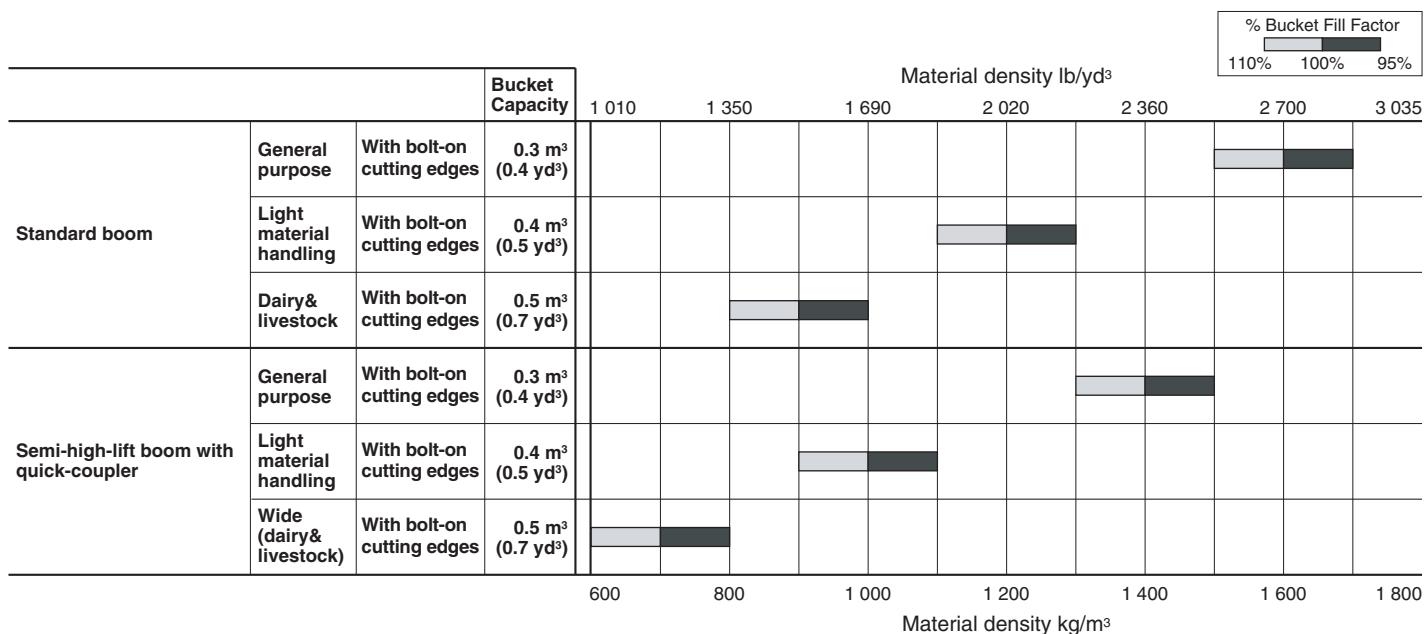


WEIGHT CHANGES

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



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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-E096P

'02.06 (KA/KA, MT₃)