

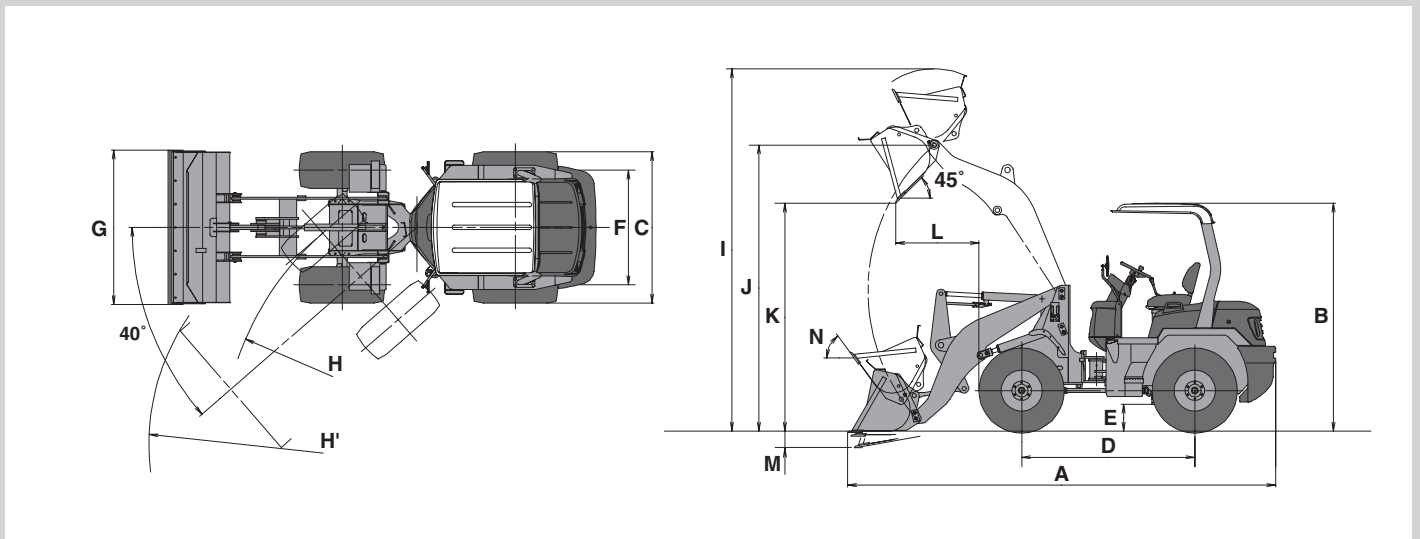
LX40

HITACHI

LX40

W H E E L L O A D E R

- **Engine Rated Power** : 27.2 kW (37 PS)
- **Operating Weight** : Canopy / Cab
3 565 kg (7 860 lb) / 3 740 kg (8 250 lb)
- **Backhoe Bucket** : ISO Heaped
0.6 m³ (0.8 yd³) – 0.9 m³ (1.2 yd³)



Unit : mm (ft in)

	LX40-7
A Overall length	4 695 (15'5")
B Height to top of canopy and cab	2 495 (8'2") / 2 540 (8'4")
C Width over tires	1 655 (5'5")
D Wheel base	1 900 (6'3")
E Ground clearance	295 (6'0")
F Tread	1 260 (4'2")
G Bucket width	1 690 (5'7")
H Turning radius (centerline of outside tire)	3 220 (10'7")
H' Loader clearance circle, bucket in carry position	3 920 (12'10")
I Overall operating height	3 975 (13'1")
J Height to hinge pin, fully raised	3 140 (10'4")
K Dump clearance 45 degree, full height	2 500 (8'2")
L Reach, 45 degree dump, full height	915 (3'0")
Reach, 45 degree dump, 7 ft (2.13 m) clearance	1 245 (4'1")
M Digging depth (horizontal digging angle)	55 (2")
N Max. roll back at carry position	54 deg.
Tire size	15.5 / 60 - 18 - 8PR (L2)

Note: General purpose bucket with bolt on cutting edges.

STANDARD & OPTIONAL EQUIPMENT

	LX40		LX40		LX40
ENGINE		Indicator lights: Turn signals / Warning flashers / Park brake / High gear	●	Light material handling bucket with bolt on cutting edges : 0.7 m ³ (0.9 yd ³ : ISO heaped)	□
Coolant recovery tank	●	Parking brake (negative)	●	Light material handling bucket with bolt on cutting edges : 0.8 m ³ (1.0 yd ³ : ISO heaped)	□
Environmentally friendly engine oil drain	●	12-volt AM radio (for cab model only)	□	Wide (daily & livestock) bucket with bolt on cutting edges : 0.9 m ³ (1.2 yd ³ : ISO heaped)	□
Quick-release fuel filter and water separator	●	12-volt AM/FM radio (for cab model only)	□	Quick-coupler and mechanical control system for quick-coupler locking pins, lines, and valves	□
Glow system (for cold start)	●	Ride control system (APS: Anti-pitching System)*	□	Full line of Hitachi buckets for quick coupler with selection of bolt-on cutting edges	
Double-element air cleaner	□			General purpose bucket with bolt on cutting edges : 0.6 m ³ (0.8 yd ³ : ISO heaped)	□
Clog prevention net and fan	□			Light material handling bucket with bolt on cutting edges : 0.7 m ³ (0.9 yd ³ : ISO heaped)	□
		OPERATOR'S STATION		Light material handling bucket with bolt on cutting edges : 0.8 m ³ (1.0 yd ³ : ISO heaped)	□
POWER TRAIN		Canopy		Wide (daily & livestock) bucket with bolt on cutting edges : 0.9 m ³ (1.2 yd ³ : ISO heaped)	□
Hydrostatic (HST) transmission, electronic shift control, twist-grip lever, hydrostatic oil cooler, inching pedal, and two speeds forward and reverse	●	FRP roof	●	Full line of construction utility forks, pallet forks, and attachments*	
		ROPS** / FOPS***	□	Lumber and manure fork : Max load 950 kg (2 090 lb) (pin on type)	□
		With front curved glass, 2 pillars and wiper	□	Lumber and manure fork : Max load 900 kg (1 980 lb) (for quick coupler)	□
		Cab		Roll grab : Max load 800 kg (1 760 lb) (pin on type)	□
		Steel cab (without ROPS / FOPS) /	□	Roll grab : Max load 700 kg (1 540 lb) (for quick coupler)	□
		Front windshield washers / Safety grass			
HYDRAULIC SYSTEM		grass		TIRES	
Automatic bucket return-to-dig control	●	ROPS** / FOPS*** / Multi-plane isolation	□	- Bias ply :	
Hydraulic filters, vertical mounting	●	mounted for noise/vibration reduction / Front and rear windshield washers / Safety grass		15.5/60-18-8PR (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	□
		Air conditioning (for cab, factory or dealer installed)		Spare rim	□
		Seat belt, 50mm (2 in.)		Solid tires with rims per machine	□
ELECTRICAL		Seat belt, 76 mm (3 in.), with retractor*		Spare solid tire with rim	□
12-volt electrical system	●	Seat, vinyl covered, adjustable for fore-aft position		Standard tires and galvanized rims per machine	□
Standard batteries (1), 12 volt with 490 CCA, 123-min. rated reserve	●	Seat, vinyl covered, mechanical suspension, adjustable for weight-height, fore-aft position, backrest tilt	□	1 spare standard tire and galvanized rim	□
Alternator, 40 amps and 12 volts	●	Seat, vinyl covered, adjustable for fore-aft position, backrest tilt		1 spare galvanized rim	□
Alternator, high capacity, 60 amps and 12 volts	□	Rubber floor mat			
Lights	●	Steering wheel, textured with spinner knob		OTHERS	
Driving with guards / Turn signals and flashers / Stop, tail and buck-up lights / Conform to SAE 99	●	Rear view mirrors, outside (2)		Vandal protection, includes lockable engine enclosure, and fuel fill	●
Work lights on cab, front (2) (Cab model only)	□	Handholds, steps, and slip resistant		Counter weight, built-in	●
Work lights, rear (1) or (2) (Cab model only)	□			Power steering	●
Horn, with push button in center of steering wheel	●			Lifting lig (4-point support)	□
Conforms to SAE J994, J1446		LOADER LINKAGE			
Buckup alarm	●	Z-bar loader linkage provides "high bucket breakout"	●		
Monitor and alarm system, multi-function electronic	●	High-lift boom*	□		
Audible and visual warning include					
Analog instruments: Engine coolant temperature / Fuel level / Hour-meter	●	BUCKETS AND ATTACHMENTS			
Operator warning lights: Brake oil / Engine oil pressure / Alternator voltage (charge)	●	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 : 0.6 m ³ (0.8 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 D1503-DI-T-K2A
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger
No. of cylinders	3
Rated power	
DIN 6 271, net	27.2 kW (37 PS) at 2 500 min ⁻¹ (2 500 rpm)
SAE J1349, net	27.2 kW (36 hp) at 2 500 min ⁻¹ (2 500 rpm)
Bore and stroke	83 mm (3.27") x 92.4 mm (3.64")
Piston displacement	1.499 L (91.4 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	8 (5.0)
Travel range	15 (9.3)
	* With 15.5 / 60-18-8PR (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	15.5/60-18-8PR (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 41° ; total 82°
Relief pressure	17.2 MPa (175 kgf/cm ² , 2 490 psi)
Cylinders	Double-acting piston type
No. x Bore x Stroke	1 x 55 mm (2.2") x 228 mm (9.0")
Minimum turning radius at the centerline of outside tire	3.22 m (10'7")



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 47 L/min (12.4 US gal , 10.3 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 70 mm (2.8") x 531 mm (20.9")
	Bucket : 1 x 70 mm (2.8") x 450 mm (17.7")
Filters	Full-flow 15 micron return filter in reservoir
Hydraulic cycle times	
Lift boom Raise	5.0 s
Lower	3.2 s
Bucket dump	1.2 s



SERVICE REFILL CAPACITIES

Fuel tank	50 L (13.2 US gal, 11 Imp gal)
Engine coolant	6.1 L (1.6 US gal, 1.3 Imp gal)
Engine oil	5.6 L (1.5 US gal, 1.2 Imp gal)
Front axle differential & wheel hubs	4.5 L (1.2 US gal, 1.0 Imp gal)
Rear axle differential & wheel hubs	4.5 L (1.2 US gal, 1.0 Imp gal)
Hydraulic reservoir	42 L (11.1 US gal, 9.2 Imp gal)



DIMENSIONS

Bucket type			Standard boom				High-lift boom
			General purpose	Light material handling	Light material handling	Wide(dairy&livestock)	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 ³ (yd ³)	0.6 (0.8)	0.7 (0.9)	0.8 (1.0)	0.9 (1.2)	
	ISO struck	m ³ (yd ³)	0.52 (0.7)	0.6 (0.8)	0.65 (0.9)	0.75 (1.0)	
Bucket width		mm (ft-in)	1 690 (5'7")	1 690 (5'7")	1 890 (6'2")	1 890 (6'2")	
Working range							
Dump clearance 45 degree, full height		mm (ft-in)	2 500 (8'2")	2 415 (7'11")	2 415 (7'11")	2 350 (7'9")	
Reach, 45 degree dump, full height		mm (ft-in)	915 (3'0")	1 000 (3'3")	1 000 (3'3")	1 060 (3'6")	
Reach, 45 degree dump, 7 ft (2.13 m) clearance		mm (ft-in)	1 245 (4'1")	1 270 (4'2")	1 270 (4'2")	1 280 (4'2")	
Digging depth (horizontal digging angle)		mm (ft-in)	55 (2.2")	55 (2.2")	55 (2.2")	55 (2.2")	
Overall height, bucket on ground(with FRP canopy)		mm (ft-in)	2 495 (8'2")	2 495 (8'2")	2 495 (8'2")	2 495 (8'2")	2495 (8'2")
Overall height, bucket on ground(with ROPS canopy)		mm (ft-in)	2 630 (8'8")	2 630 (8'8")	2 630 (8'8")	2 630 (8'8")	
Overall height, bucket on ground(with Steel cab)		mm (ft-in)	2 540 (8'4")	2 540 (8'4")	2 540 (8'4")	2 540 (8'4")	
Overall operating height		mm (ft-in)	3 975 (13'0")	4 010 (13'2")	4 010 (13'2")	4 040 (13'3")	
Overall length (Bucket on ground)		mm (ft-in)	4 695 (15'5")	4 815 (15'10")	4 815 (15'10")	4 905 (16'1")	
Loader clearance circle, bucket in carry position		mm (ft-in)	3 920 (12'10")	3 950 (12'12")	4 040 (13'3")	4 065 (13'4")	
Static tipping load *	Straight	kgf (lbf)	2 480 (5 470)	2 420 (5 340)	2 330 (5 140)	2 300 (5 070)	
	Full 41 degree turn	kgf (lbf)	1 920 (4 230)	1 870 (4 120)	1 770 (3 900)	1 770 (3 900)	
Breakout force		kN	33	28	28	25	
		kgf (lbf)	3 400 (7 500)	2 850 (6 280)	2 850 (6 280)	2 500 (5 510)	
Operating weight *		kgf (lbf)	3 565 (7 860)	3 585 (7 900)	3 605 (7 950)	3 620 (7 980)	

Bucket type			Standard boom with quick-coupler			
			General purpose	Light material handling	Light material handling	Wide(dairy&livestock)
			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 ³ (yd ³)	0.6 (0.8)	0.7 (0.9)	0.8 (1.0)	0.9 (1.2)
	ISO struck	m ³ (yd ³)	0.52 (0.7)	0.6 (0.8)	0.65 (0.9)	0.75 (1.0)
Bucket width		mm (ft-in)	1 690 (5'7")	1 690 (5'7")	1 890 (6'2")	1 890 (6'2")
Working range						
Dump clearance 45 degree, full height		mm (ft-in)	2 405 (7'11")	2 320 (7'7")	2 320 (7'7")	1 891 (6'2")
Reach, 45 degree dump, full height		mm (ft-in)	1 010 (3'4")	1 095 (3'7")	1 095 (3'7")	1 892 (6'2")
Reach, 45 degree dump, 7 ft (2.13 m) clearance		mm (ft-in)	1 270 (4'2")	1 285 (4'3")	1 285 (4'3")	1 893 (6'3")
Digging depth (horizontal digging angle)		mm (ft-in)	55 (2.2")	55 (2.2")	55 (2.2")	55 (2.2")
Overall height, bucket on ground(with FRP canopy)		mm (ft-in)	2 495 (8'2")	2 495 (8'2")	2 495 (8'2")	2 495 (8'2")
Overall height, bucket on ground(with ROPS canopy)		mm (ft-in)	2 630 (8'8")	2 630 (8'8")	2 630 (8'8")	2 630 (8'8")
Overall height, bucket on ground(with Steel cab)		mm (ft-in)	2 540 (8'4")	2 540 (8'4")	2 540 (8'4")	2 540 (8'4")
Overall operating height		mm (ft-in)	4 065 (13'4")	4 100 (13'5")	4 100 (13'5")	4 130 (13'7")
Overall length (Bucket on ground)		mm (ft-in)	4 830 (15'10")	4 950 (16'3")	4 950 (16'3")	5 040 (16'6")
Loader clearance circle, bucket in carry position		mm (ft-in)	3 955 (12'12")	3 990 (13'1")	4 080 (13'5")	4 105 (13'6")
Static tipping load *	Straight	kgf (lbf)	2 290 (5 050)	2 260 (4 980)	2 160 (4 760)	2 130 (4 700)
	Full 41 degree turn	kgf (lbf)	1 760 (3 880)	1 710 (3 770)	1 630 (3 590)	1 630 (3 590)
Breakout force		kN	27	23	23	21
		kgf (lbf)	2 750 (6 060)	2 350 (5 180)	2 300 (5 070)	2 100 (4 630)
Operating weight *		kgf (lbf)	3 655 (8 060)	3 675 (8 100)	3 690 (8 140)	3 705 (8 170)

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 15.5/60-18-8PR (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.

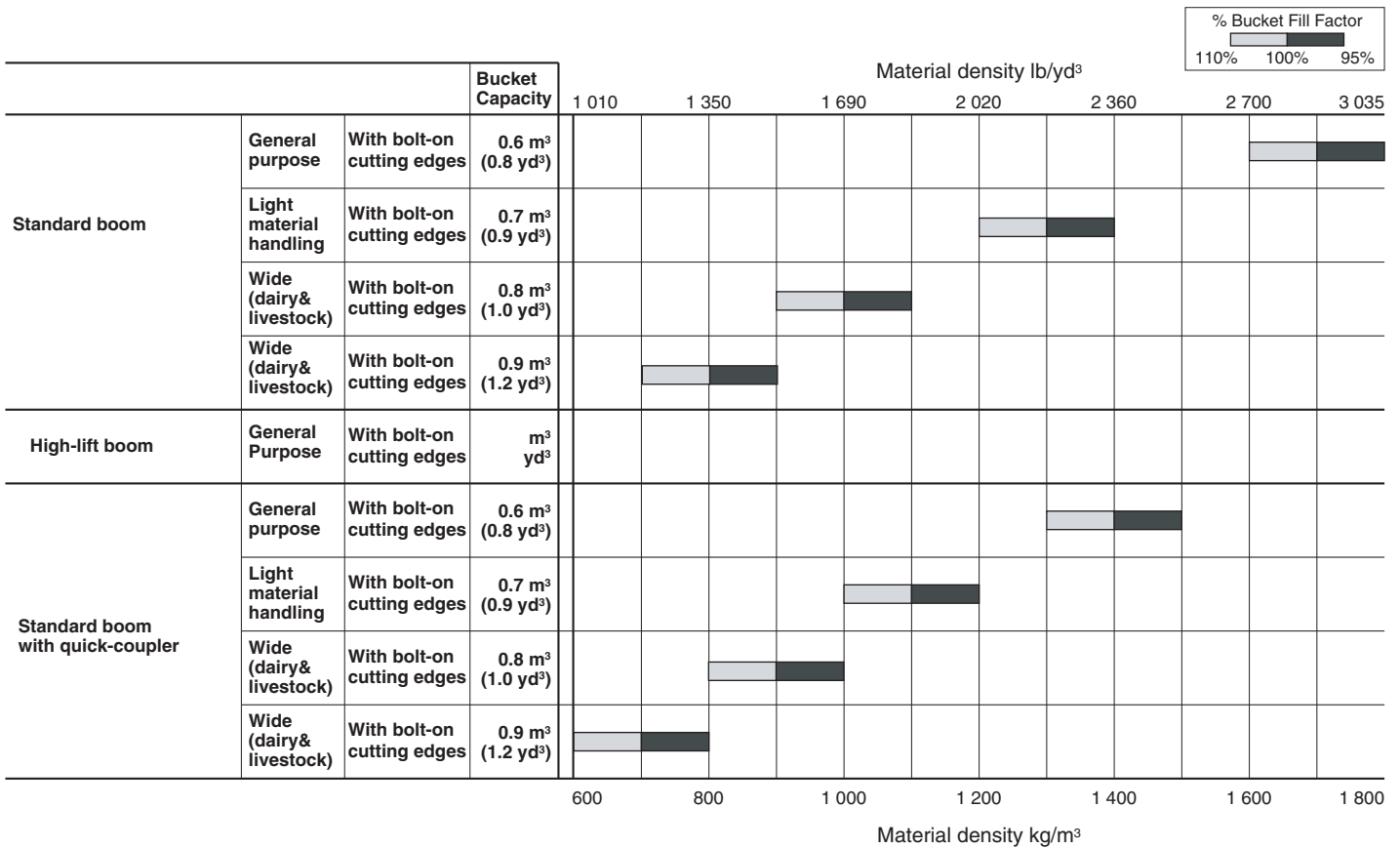


WEIGHT CHANGES

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)	3 740	8 245	2 640	5 820	2 050	4 519
ROPS canopy (in lieu of FRP roof canopy)	3 655	8 058	2 620	5 776	2 030	4 475
Canopy with front curved glass (add to FRP roof canopy)	3 615	7 970	2 510	5 534	1 940	4 277
Vinyl cab with front glass (add to FRP roof canopy)	3 625	7 992	2 520	5 556	1 950	4 299
Lumber and pallet fork (pin on type)	3 540	7 804	1 890	4 167	1 460	3 219
Lumber and pallet fork (for quick coupler)	3 625	7 992	1 790	3 946	1 370	3 020
Manure fork (pin on type)						
Manure fork (for quick coupler)	3 575	7 881	1 680	3 704	1 290	2 844
Roll grab (pin on type)						
Roll grab (for quick coupler)	3 635	8 014	1 600	3 527	1 220	2 690



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-E099P

'02.06 (KA/KA, MT₃)