LX30 HITACHI

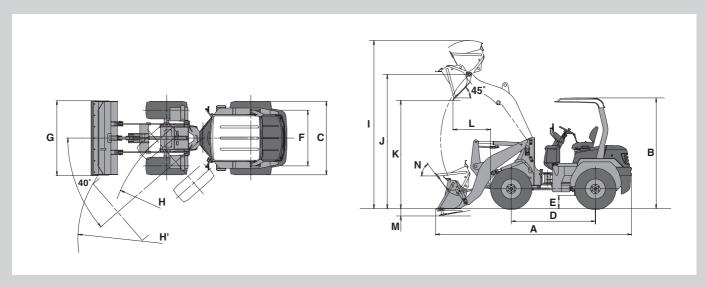


●Engine Rated Power: 27.2 kW (37 PS) ●Operating Weight: Canopy / Cab

3 265 kg (7 200 lb) / 3 440 kg (7 590 lb)

■Backhoe Bucket : ISO Heaped

0.5 m³ (0.7 yd³) - 0.8 m³ (1.0 yd³)



Unit: mm (ft in)

		LX30-7
Α	Overall length	4 425 (14'6")
В	Height to top of canopy and cab	2 495 (8'2") / 2 540 (8'4")
С	Width over tires	1 655 (5'5")
D	Wheel base	1 900 (6'3")
Е	Ground clearance	295 (6'0")
F	Tread	1 260 (4'2")
G	Bucket width	1 690 (5'7")
Н	Turning radius (centerline of outside tire)	3 220 (10'7")
H'	Loader clearance circle, bucket in carry position	3 845 (12'7")
1	Overall operating height	3 795 (12'5")
J	Height to hinge pin, fully raised	3 030 (9'11")
K	Dump clearance 45 degree, full height	2 455 (8'1")
L	Reach, 45 degree dump, full height	845 (2'9")
	Reach, 45 degree dump, 7 ft (2.13 m) clearance	1 120 (3'8")
М	Digging depth (horizontal digging angle)	50 (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

	LX30		LX30		LX30
ENGINE		Indicator lights: Turn signals / Warning	•	Light material handling bucket with bolt on	
Coolant recovery tank	•	flashers / Park brake / High gear		cutting edges: 0.7 m3 (0.9 yd3: ISO heaped)	
Environmentally friendly engine oil drain		Parking brake (negative)	•	Wide (daily & livestock) bucket with bolt on	
Quick-release fuel filter and water separator		12-volt AM radio (for cab model only)		cutting edges : 0.8 m³ (1.0 yd³ : ISO heaped)	
Glow system (for cold start)		12-volt AM/FM radio (for cab model only)		Quick-coupler and mechanical control system	
Double-element air cleaner		Ride control system (APS: Anti-pitching System)*		for quick-coupler locking pins, lines, and valves	
Clog prevention net and fan				Full line of Hitachi buckets for quick coupler	
31		OPERATOR'S STATION		with selection of bolt-on cutting edges	
POWERTRAIN		Canopy		General purpose bucket with bolt on cutting	
Hydrostatic (HST) transmission, electronic		FRP roof	•	edges: 0.5 m³ (0.7 yd³: ISO heaped)	
shift control, twist-grip lever, hydrostatic		ROPS** / FOPS***		Light material handling bucket with bolt on	
oil cooler, inching pedal, and two speeds		With front curved glass, 2 pillars and wiper		cutting edges: 0.6 m³ (0.8 yd³: ISO heaped)	
forward and reverse		Cab		Light material handling bucket with bolt on	
iorward and reverse		Steel Cab (without ROPS / FOPS) /		cutting edges: 0.7 m³ (0.9 yd³: ISO heaped)	
HYDRAULIC SYSTEM		1 '			
		Front windshield washers / Safety grass		Wide (daily & livestock) bucket with bolt on	
Automatic bucket return-to-dig control		grass		cutting edges: 0.8 m³ (1.0 yd³: ISO heaped)	
Hydraulic filters, vertical mounting		ROPS** / FOPS*** / Multi-plane isolation		Full line of construction utilityforks, pallet forks,	
Two-function hydraulic valve with joystick		mounted for noise/vibration reduction / Front		and attachments*	
control (mechanical controlled)		and rear windshield washers / Safety grass		Lumber and manure fork : Max load 850 kg	
Three-function hydraulic valve with joystick		Vinyl cab with front glass and vinyl shielding		(1 870 lb) (pin on type)	_
control and auxiliary lever for third function		Heater / Defroster (Cab model only)		Lumber and manure fork : Max load 800 kg	
(mechanical controlled)		Air conditioning (for cab,factory or dealer installed)		(1 760 lb) (for quick coupler)	l _
		Seat belt, 50mm (2 in.)	•	Roll grab : Max load 700 kg	
ELECTRICAL		Seat belt, 76 mm (3 in.), with retractor*		(1 540 lb) (pin on type)	_
12-volt electrical system		Seat, vinyl covered, adjustable for fore-aft		Roll grab : Max load 600 kg	
Standard batteries (1), 12 volt with 490 CCA,		position		(1 320 lb) (for quick coupler)	
123-min. rated reserve		Seat, vinyl covered, mechanical suspension,			1
Alternator, 40 amps and 12 volts		adjustable for weight-height, fore-aft position,		TIRES	
Alternator, high capacity, 60 amps and 12 volts		backrest tilt		- Bias ply :	
Lights		Seat, vinyl covered, adjustable for fore-aft		15.5/60-18-8PR (L2)	
Driving with guards / Turn signals and		position, backrest tilt		Tire chain (H type)	
flashers / Stop, tail and buck-up lights /		Rubber floormat		Spare tire with rim	
Conform to SAE 99		Steering wheel, textured with spinner knob		Spare rim	
Work lights on cab, front (2) (Cab model only)		Rear view mirrors, outside (2)	•	Solid tires with rims per machine	
Work lights, rear (1) or (2) (Cab model only)		Handholds, steps, and slip resistant	•	Spare solid tire with rim	
Horn, with push button in center of steering				Standard tires and galvanized rims per machine	
wheel		LOADER LINKAGE		1 spare standard tire and galvanized rim	
Conforms to SAE J994, J1446		Z-bar loader linkage provides "high bucket breakout"		1 spare galvanized rim	
Buckup alarm	•	High-lift boom*			
Monitor and alarm system, multi-function				OTHERS	
electronic		BUCKETS AND ATTACHMENTS		Vandal protection, includes lockable engine	•
Audible and visual warning include		Full line of Hitachi pin on buckets with		enclosure, and fuel fill	
Analog instruments: Engine coolant tem-	•	selection of bolt-on cutting edges, and		Counter weight, built-in	•
perature / Fuel level / Hour-meter		bolt-on teeth*		Power steering	
Operator warning lights: Brake oil /		General purpose bucket with bolt on cutting		Lifting lig (4-point support)	
Engine oil pressure / Alternator voltage		edges: 0.5 m³ (0.7 yd³: ISO heaped)		3 .9 (
(charge)		Light material handling bucket with bolt on			
(ondigo)		cutting edges : 0.6 m³ (0.8 yd³ : 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.



TypeAspiration	Kubota D1503-DI-T-K2A4-cycle water-cooled,direct injectionTurbocharger
Rated power	3
	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	
Piston displacement	
Electrical system	12 volt with 0.48 kW, 40 A alternator
Batteries	1 x 12 V / 490 CCA, 123-min. rated reserve
Air cleaner	Single stage dry type with restriction indicator



Transmission	Hydrostatic transmission automatically controls
	power and speed with electrically controlled.
Travel speed* : km/h (mp	h)

navei speeu	. KIII/II (IIIpII)
I ow - hold	

Low - Hold	8 (3.0)
Travel range	
	* With 15.5 / 60.19.9DD /I.2) tires

Forward & Reverse



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)



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/cm², 2 490 psi)
Cylinders	Double-acting piston type
No. x Bore x Stroke	
Minimum turning radius at	
the centerline of outside tire	



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 controlThree position valve; Roll back, hold, dump
Main pump
(Load & steer) Gear type 41.2 L/min (10.9 US gal , 9.0 Imp gal/min)
@2 500 min-1 (rpm) at 20.6 MPa (210 kgf/cm ² , 2 990 psi)
Relief pressure setting
Hydraulic cylinders
TypeTwo boom and one bucket, double acting type
No. x Bore x Stroke Boom : 2 x 65 mm (2.6") x 593 mm (23.3")
Bucket: 1 x 70 mm (2.8") x 431 mm (17.0")
Filters Full-flow 15 micron return filter in reservoir
Hydraulic cycle times
Lift boom Raise
Lower 3.2 s
Bucket dump
·



SERVICE REFILL CAPACITIES

Fuel tank	i iiiip yai)
Engine coolant 6.1 L (1.6 US gal, 1.3	3 Imp gal)
Engine oil	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	2 Imp gal)



		Standard boom				High-lift boom	
Bucket type			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	m³ (yd³)	0.5 (0.7)	0.6 (0.8)	0.7 (0.9)	0.8 (1.0)	
	ISO struck	m³ (yd³)	0.42 (0.5)	0.52 (0.7)	0.6 (0.8)	0.65 (0.9)	
Bucket width		mm (ft·in)	1 690 (5'7")	1 690 (5'7")	1 690 (5'7")	1 890 (6'2")	
Working range							
Dump clearance	45 degree, full height	mm (ft·in)	2 445 (8'0")	2 390 (7'10")	2 305 (7'7")	2 305 (7'7")	
Reach, 45 degree	e dump, full height	mm (ft·in)	845 (2'9")	900 (2'11")	985 (3'3")	985 (3'3")	
Reach, 45 degree of	dump, 7 ft (2.13 m) clearance	mm (ft·in)	1 120 (3'8")	1 135 (3'9")	1 150 (3'9")	1 150 (3'9")	
Digging depth (ho	orizontal digging angle)	mm (ft·in)	50 (2.0")	50 (2.0")	50 (2.0")	50 (2.0")	
Overall height, bucke	et on ground(with FRP canopy)	mm (ft·in)	2 495 (8'2")	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, buck	ket 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)	3 795 (12'5")	3 865 (12'8")	3 895 (12'9")	3 895 (12'9")	
Overall length (Bucket on ground) mm (ft-in)		4 425 (14'6")	4 505 (14'9")	4 625 (15'2")	4 625 (15'2")		
Loader clearance circle, bucket in carry position mm (ft-in)		3 845 (12'7")	3 865 (12'8")	3 900 (12'10")	3 985 (13'1")		
Static tipping load *	Straight	kgf (lbf)	2 060 (4 540)	2 040 (4 500)	2 000 (4 410)	1 980 (4 370)	
	Full 41 degree turn	kgf (lbf)	1 700 (3 750)	1 680 (3 700)	1 640 (3 620)	1 630 (3 590)	
Breakout force		kN kgf (lbf)	36 3 650 (8 050)	31 3 200 (7 050)	26 2 650 (5 840)	26 2 650 (5 840)	
Operating weight *		kgf (lbf)	3 265 (7 200)	3 280 (7 230)	3 300 (7 280)	3 320 (7 320)	

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	m³ (yd³)	0.5 (0.7)	0.6 (0.8)	0.7 (0.9)	0.8 (1.0)		
	ISO struck	m³ (yd³)	0.42 (0.5)	0.52 (0.7)	0.6 (0.8)	0.65 (0.9)		
Bucket width		mm (ft·in)	1 690 (5'7")	1 690 (5'7")	1 690 (5'7")	1 890 (6'2")		
Working range								
Dump clearance 45 degree, full height		mm (ft·in)	2 350 (7'9")	2 295 (7'6")	2 210 (7'3")	2 210 (7'3")		
Reach, 45 degree dump, full height mm		mm (ft·in)	940 (3'1")	995 (3'3")	1 080 (3'7")	1 080 (3'7")		
Reach, 45 degree dump, 7 ft (2.13 m) clearance r		mm (ft·in)	1 145 (3'9")	1 155 (3'9")	1 165 (3'10")	1 165 (3'10")		
Digging depth (horizontal digging angle)		mm (ft·in)	50 (2.0")	50 (2.0")	50 (2.0")	50 (2.0")		
Overall height, bucket on ground(with FRP canopy) n		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)	3 885 (12'9")	3 955 (12'12")	3 990 (13'1")	3 990 (13'1")		
Overall length (Bucket on ground) m		mm (ft·in)	4 560 (14'12")	4 640 (15'3")	4 760 (15'7")	4 760 (15'7")		
Loader clearance circle, bucket in carry position		mm (ft·in)	3 880 (12'9")	3 905 (12'10")	3 935 (12'11")	4 025 (13'2")		
Static tipping load *	Straight	kgf (lbf)	1 900 (4 190)	1 880 (4 140)	1 830 (4 030)	1 820 (4 010)		
	Full 41 degree turn	kgf (lbf)	1 530 (3 370)	1 510 (3 330)	1 480 (3 260)	1 470 (3 240)		
Breakout force		kN kgf (lbf)	28 2 850 (6 280)	25 2 550 (5 620)	22 2 200 (4 850)	21 2 150 (4 740)		
Operating weight *		kgf (lbf)	3 350 (7 390)	3 365 (7 420)	3 385 (7 460)	3 400 (7 500)		

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.



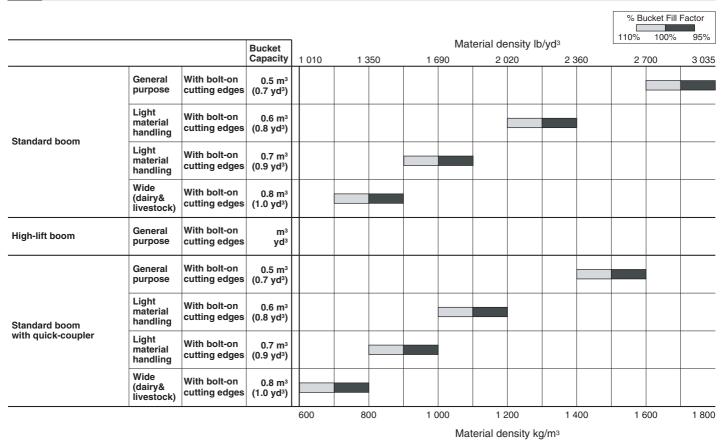


WEIGHT CHANGES

	Change in an		Change in tipping load			
Tires and Options	Change in operating weight		Straight		Full turn	
	kg	lb	kg	lb	kg	lb
Steel cab (in lieu of FRP roof canopy)	3 440	7 584	2 220	4 894	1 840	4 056
ROPS canopy (in lieu of FRP roof canopy)	3 355	7 396	2 200	4 850	1 820	4 012
Canopy with front curved glass (add to FRP roof canopy)	3 315	7 308	2 090	4 608	1 730	3 814
Vinyl cab with front glass (add to FRP roof canopy)	3 325	7 330	2 100	4 630	1 740	3 836
Lumber and pallet fork (pin on type)	3 255	7 176	1 600	3 527	1 320	2 910
Lumber and pallet fork (for quick coupler)	3 340	7 363	1 510	3 329	1 230	2 712
Manure fork (pin on type)						
Manure fork (for quick coupler)	3 295	7 264	1 410	3 108	1 160	2 557
Roll grab (pin on type)						
Roll grab (for quick coupler)	3 345	7 374	1 330	2 932	1 090	2 403



BUCKET SELECTION GUIDE



	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.
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Alitachi Canaturation Machiness Co. 144	Tager and the standard organization of the standard organization organizat
Head Office: 5-1 Koraku 2-chome, Bunkyo-ku,	
Tokyo 112-8563, Japan	
Telephone: (03)3830-8050	
Facsimile: (03)3830-8202	
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	KL-E098P '02.06 (KA/KA, MT ₃)