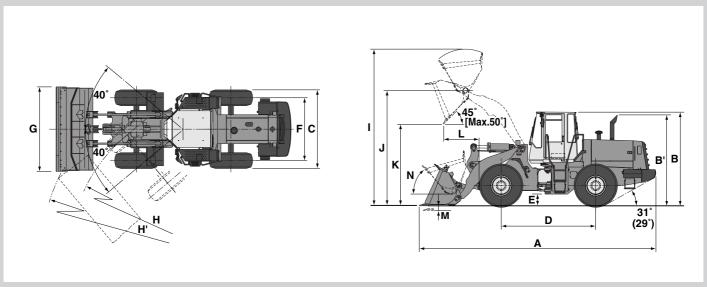
LX160 HITACHI



W H E E L L O A D E R

■ Engine Rated Power: 143 kW (195 PS)
■ Operating Weight: 17 070 kg / 16 290 kg

■ Bucket Capacity: ISO Heaped 2.4 m³ – 3.5 m³



Note: Values shown in () are for optional 20.5 - 25 - 16PR tires.

Unit : mm

		LX160-7
Α	Overall length	8 080 / 8 135
В	Height to top of cab	3 305 / 3 240
В	Height to top of exhaust	3 170/ 3 105
С	Width over tires	2 810 / 2 720
D	Wheel base	3 250
Е	Ground clearance	470 / 405
F	Tread	2 160
G	Bucket width	2 910
Н	Turning radius (Centerline of outside tire)	5 560
Η'	Loader clearance circle, bucket in carry position	6 530
Т	Overall operating height	5 460 / 5 395
J	Height to bucket hinge pin, fully raised	4 040 / 3 975
K	Dumping clearance 45 degree, full height	2 875 / 2 810
L	Reach, 45 degree dump, full height	1 180 / 1 240
	Reach, 45 degree dump, 7 ft (2.13 m) clearance	1 715 / 1 750
М	Digging depth (Horizontal digging angle)	100 / 165
N	Max. roll back at carry position	50 deg.
	Tire size	23.5 - 25 - 16PR (L3) / 20.5 - 25 - 16PR (L3)

Note: General purpose bucket with bolt on cutting edges.



ENGINE

TypeAspiration	
Rated power	
DIN 6 272,net	141 kW (192 PS) at 2 200 min-1 (2 200 rpm)
SAE J1349,net	143 kW (192 HP) at 2 200 min-1 (2 200 rpm)
Bore and stroke	115 mm x 125 mm
	7.790 L
Electrical system	
Starting system	
Batteries	2 x 12 V / 916 CCA, 270-min. rated reserve
Air cleaner	Two element dry type with restriction indicator



POWER TRAIN

2nd	 11.5 / 13.0
3rd	 20.5 / 22.5
4th	 32.5 / 35.0
	*With 20.5-25-16PR (L3) tires
	Forward / Reverse
3rd	 22.5 / 24.5
4th	 34.5 / 37.0
	*With 23.5-25-16PR (L3) tires



AXLE AND FINAL DRIVE



TIRES (tubeless, nylon body)



BRAKES

Service brakes....... Inboard mounted fully hydraulic 4 wheel wet disc brake.

Front & rear independent brake circuit
Parking brake.......... Wet multiple disc mechanical type built in transmission



STEERING SYSTEM

Туре	Articulated frame steering
Steering mechanism	Full hydraulic power steering with orbitrol
Steering angle	Each direction 40°; total 80°
Relief pressure	
Cylinders	Two double-acting piston type
No. x Bore x Stroke	2 x 80 mm x 422 mm
Minimum turning radius at	
the centerline of outside t	tire 5.56 m



HYDRAULIC SYSTEM

HYDRAULIC SYSTEM
Arm and bucket are controlled by independent control lever
Arm 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 Gear type 107 L/min
@2 200 min ⁻¹ (rpm) at 16 180 KPa (165 kgf/cm ²)
Steering pump Gear type 192 L/min
@2 200 min-1 (rpm) at 20 590 KPa (210 kgf/cm2)
Brake and assist pump Gear type 28 L/min
@2 200 min-1 (rpm) at 6 370 KPa (65 kgf/cm2)
Charging pump Double gear type with two discharge ports
Front pump Front 84 L/min
@2 200 min-1 (rpm) at 2 450 KPa (25 kgf/cm2)
Rear pump Rear 50 L/min
@2 200 min-1 (rpm) at 490 KPa (5 kgf/cm2)
Relief pressure setting 20 590 KPa (210 kgf/cm²)
Hydraulic cylinders
TypeTwo arm and one bucket, double acting type
No. x Bore x Stroke Arm : 2 x 150 mm x 880 mm
Bucket: 1 x 190 mm x 505 mm
Filters Full-flow 15 micron return filter in reservoir
Hydraulic cycle times
Lift arm raise
lower
Bucket dump
Total



SERVICE REFILL CAPACITIES

Fuel tank	265 L
Engine coolant	63 L
Engine oil	
Torque convertor & transmission	
Front axle differential & wheel hubs	
Rear axle differential & wheel hubs	32 L
Hydraulic reservoir	97 L



DIMENSIONS & SPECIFICATIONS

Arm type			Standard arm					
Bucket type			General purpose			Rock bucket		Light material handling
			With bolt-on cutting edges	With bolt-on teeth	With bolt-on teeth & segments	With bolt-on teeth	With bolt-on teeth & segments	With bolt-on cutting edges
Bucket capacity	ISO heaped	m ³	3.2	3.1	3.2	2.5	2.5	3.5
	ISO struck	m ³	2.8	2.6	2.7	2.1	2.2	3.0
Bucket width		mm	2 910	2 910	2 910	2 910	2 910	2 910
Working range								
Dumping clearance	e 45 degree, full height	mm	2 875	2 770	2 770	2 850	2 850	2 835
Reach, 45 degree	dump, full height	mm	1 180	1 255	1 255	1 170	1 170	1 220
Reach, 45 degree dump, 7 ft (2.13 m) clearance		mm	1 715	1 735	1 735	1 695	1 695	1 735
Reach with arm horizontal and bucket level		mm	2 590	2 725	2 725	2 610)	2 610	2 650
Digging depth (Ho	rizontal digging angle)	mm	100	115	115	115	115	100
Overall operating height		mm	5 460	5 460	5 460	5 380	5 380	5 520
Overall length (Bu	cket on ground)	mm	8 080	8 225	8 225	8 110	8 110	8 140
Loader clearance circle, bucket in carry position		mm	6 530	6 570	6 570	6 540	6 540	6 540
Static tipping load *	Straight	kgf	15 200	13 400	13 250	12 850	12 700	13 250
	Full 40 degree turn	kgf	11 700	11 550	11 400	11 000	10 900	11 400
Breakout force		kN (kgf)	154 (15 700)	167 (17 000)	159 (16 200)	184 (18 800)	175 (17 900)	147 (15 000)
Operating weight *	Operating weight *		17 000	16 920	17 040	17 440	17 560	17 050

Arm type			High-lift arm			
			General purpose			
	Bucket type			With bolt-on teeth		
Bucket capacity	ISO heaped	m³	2.6	2.5		
	ISO struck	m³	2.2	2.1		
Bucket width		mm	2 910	2 910		
Working range						
Dumping clearanc	Dumping clearance 45 degree, full height			3 325		
Reach, 45 degree	Reach, 45 degree dump, full height			1 265		
Reach, 45 degree dump, 7 ft (2.13 m) clearance		mm	2 100	2 130		
Reach with arm horizontal and bucket level		mm	2 845	2 980		
Digging depth (Horizontal digging angle)		mm	200	215		
Overall operating height		mm	5 730	5 730		
Overall length (Bu	Overall length (Bucket on ground)		8 435	8 580		
Loader clearance circle, bucket in carry position		mm	6 690	6 740		
Static tipping load *	Straight	kgf	11 300	11 400		
	Full 40 degree turn	kgf	9 750	9 800		
Breakout force		kN (kgf)	161 (16 400)	175 (17 900)		
Operating weight *		kgf	17 370	17 290		

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 23.5-25-16PR (L3) tires (No ballast) with lubricants, coolant, full fuel tank and operator.

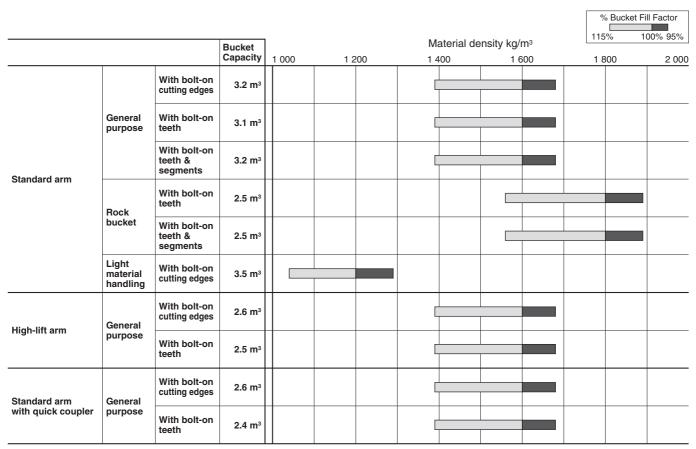
Machine stability and operating weight depend on counterweight, tire size and other attachments.

	Ob intimetime	Change in tipping load			
Tires and Options	Change in operating weight —	Straight	Full turn		
	kg	kg	kg		
20.5-25-16PR (L2) Bias ply	- 836	- 640	- 570		
20.5-25-16PR (L3) Bias ply	-780	-600	- 530		
20.5-25-16PR (L4) Bias ply	_	_	_		
20.5-25-16PR (L5) Bias ply	-264	-200	- 180		
23.5-25-16PR (L2) Bias ply	-88	- 60	- 50		
23.5-25-16PR (L4) Bias ply	_	_	_		
20.5 R25 (L3 type) Radial ply	- 452	- 350	-310		
20.5 R25 (L5 type) Radial ply	_	_	_		
23.5 R25 (L3 type) Radial ply	308	230	200		
23.5 R25 (L5 type) Radial ply	_	_	_		
FRP roof canopy (In lieu of ROPS/FOPS cab)	_	_	_		
ROPS/FOPS canopy (In lieu of ROPS/FOPS cab)	_	_	_		
Lumber and pallet fork (Pin on type)	_	_	_		
Log grapple (Pin on type)*	660	340	300		
Lumber grapple (Pin on type)	_	_	_		
Counterweight, CW*A	280	730	650		
Counterweight, CW*B	450	960	850		

Note: * With counterweight CW*A, counterweight CW*B and 20.5-25-20PR (L3) tires



BUCKET SELECTION GUIDE





STANDARD & OPTIONAL EQUIPMENT

ENGINE		Indicator lights: Turn signals / Warning		Rock bucket with bolt on teeth:	
Coolant recovery tank		flashers / High beam of driving light /		2.5 m³ (ISO heaped)	
Fan guard		Work lights / Park brake /		Rock bucket with bolt on teeth and segments:	
Muffler, under hood with large exhaust stack		Cluch cut off / Gear shift / Engine preheat		2.5 m³ (ISO heaped)	-
Environmentally friendly engine oil drain		Indicator lights: Emergency steering		Light material handling bucket with bolt on	
Engine oil cooler		(If Emergency steering is equipped)	_	cutting edges : 3.5 m³ (ISO heaped)	
Quick-release fuel filter and water separator		24-volt AM/FM stereo radio with clock	•	Quick coupler and hydraulic control system	
Glow system (For cold start)		24-volt AM/FM stereo radio with cassette		for quick-coupler locking pins, includes all	
Air filter double element		player and clock	_	controls in the cab, lines, and valves	
Air pre-cleaner		Radio-ready cab, fused 24-volt radio electrical		Full line of Hitachi buckets for quick coupler	
Wide fin radiator		lead, speaker (2), and antenna*	_	with selection of bolt-on cutting edges, and	
Fuel double filter		leau, speaker (2), and antenna		bolt-on teeth*	
Fuel double likel		OPERATOR'S STATION		1	
POWER TRAIN				General purpose bucket with bolt on cutting	
		Canopy*		edges: 2.6 m³ (ISO heaped)	
TC/PS transmission, computer-controlled		FRP roof / Multiplane isolation mount		General purpose bucket with bolt on teeth:	
automatic shift and manual shift features included		for noise/vibration reduction		2.4 m³ (ISO heaped)	
DSS (Down Shift Switch) and USS (Up Shift Switch)		Cab		Full line of construction utility forks, pallet forks,	
Torque proportioning differentials, front and rear		ROPS** / FOPS*** / Multi-plane isolation		and attachments*	_
Auto transmission 3 mode selection switch		mounted for noise/vibration reduction / Front		Lumber and pallet fork : Max load 7 000 kg	
		and rear windshield washers / Safety grass		(Pin on type)	_
HYDRAULIC SYSTEM		Sun visor		Log grapple : Max load 7 000 kg	
Automatic bucket return-to-dig control		Heater / Defroster (Cab model only)		(Pin on type)	
Automatic arm height kickout control		Less Heater & Defroster (Cab model only)*		Lumber grapple : Max load 7 000 kg	
Automatic arm return-to-carry control*		Air conditioning (Factory or dealer installed)		(Pin on type)	
(GSS: Ground Stop System)		Seat belt, 50 mm (2")			
Reservoir sight gauge		Seat belt, 76 mm (3"), with retractor*		TIRES	
Hydraulic filters, vertical mounting		Seat, close covered , high back, mechanical		Bias ply:	
Two-function hydraulic valve with joystick control		suspension, adjustable for weight-height,		20.5-25-16 PR (L2)	
(Pilot controlled)*		fore-aft position, backrest tilt, and armrest angle		20.5-25-16 PR (L3)	
Two-function hydraulic valve with two levers		Seat, fabric covered, high back, air suspension,		20.5-25-16 PR (L4)	
Adjustable wristrest		adjustable for weight-height, fore-aft position,		20.5-25-16 PR (L5)	
Three-function hydraulic valve with two levers		backrest tilt, and armrest angle*		23.5-25-16 PR (L2)	
control and auxiliary lever for third function		Seat backrest extension		23.5-25-16 PR (L3)	
Ride control, automatic type		Lunch box tray		23.5-25-16 PR (L4)	
		Rubber floormat		Radial ply:	
ELECTRICAL		Tilt steering		20.5R25 (L3 type)	
24-volt electrical system		Steering wheel, textured with spinner knob		20.5R25 (L5 type)	
Standard batteries (2), 12 volt with 916 CCA,		Rear view mirrors, outside (2) and inside (2)		23.5R25 (L3 type)	
270-min. rated reserve		Handholds and steps, ergonomically located		23.5R25 (L5 type)	
High-capacity batteries (2), 12 volt with 1045 CCA,		and slip resistant		Multi-piece rims	
304-min. rated reserve		Cool box (Air-conditioner is necessary)			
Alternator, 50 amps and 24 volts		Rear defroster (Cab model only)		OTHERS	
Alternator, high capacity, 90 amps and 24 volts		,,	-	Fenders, front and rear	
Lights		LOADER LINKAGE		Articulation locking bar	
Driving with guards / Turn signals and		Z-bar loader linkage provides (High bucket breakout)		Anti-vandal protection, includes lockable engine	
flashers / Stop, tail and back-up lights		High-lift arm*		enclosure, and fuel fill	-
Work lights on cab, front (2)			_	Counterweight, built-in	
Work lights, rear (2)		BUCKETS AND ATTACHMENTS		Counterweight, extra duty*	
Horn, with push button in center of steering wheel		Full line of Hitachi pin on buckets with		Drawbar, with rocking pin	
Reverse warning alarm		selection of bolt-on cutting edges, and		Bottom guards, front frame and transmission	
· ·		teeth-segmented bolt on edges*		,	
Monitor and alarm system, multi-function electronic				Bottom guards, engine*	
Audible and visual warning include		General purpose bucket with bolt on cutting		Lift and tie-down hooks	
Analog instruments: Engine coolant tem-		edges: 3.2 m³ (ISO heaped)		Fire extinguisher (Dealer installed)	
perature / Transmission oil temperature /		General purpose bucket with bolt on teeth:		Emergency steering*	
Fuel level / Speedometer	_	3.1 m³ (ISO heaped)		Open type rear grill*	
Digital instrument: Hour-meter		General purpose bucket with bolt on teeth		Tropical pack* (For the hot weather condition)	
Operator warning lights: Engine oil		and segments : 3.2 m³ (ISO heaped)			
pressure / Engine air filter / Engine preheat					
Alternator voltage (Charge)					

- Note: Standard equipment □ Optional or special equipment

 *: Please consult 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

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. Before use, go through Operators Manual for proper operation.

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