





Unit : mm

		LX80-7
Α	Overall length	6 360
В	Height to top of canopy and cab	3 140
Β'	Height to top of exhaust	2 985
С	Width over tires	2 320
D	Wheel base	2 600
Е	Ground clearance	365
F	Tread	1 820
G	Bucket width	2 480
Н	Turning radius (Centerline of outside tire)	4 690
Η'	Loader clearance circle, bucket in carry position	5 470
I	Overall operating height	4 675
J	Height to bucket hinge pin, fully raised	3 605
K	Dumping clearance 45 degree, full height	2 740
L	Reach, 45 degree dump, full height	1 030
	Reach, 45 degree dump, 7 ft (2.13 m) clearance	1 480
М	Digging depth (Horizontal digging angle)	85
Ν	Max. roll back at carry position	48 deg.
	Tire size	17.5 - 25 - 12PR (L2)

Note: General purpose bucket with bolt on cutting edges.

ENGINE

Model Isuzu DD-4BG1T Type	Type Aspira
Rated power	
DIN 6 271, net	DIN
SAE J1349, net	SAE
Bore and stroke 105 mm x 125 mm	Bore a
Piston displacement 4.329 L	Piston
Electrical system	Electri
Starting system	Startir
Batteries 2 x 12 V / 582 CCA, 133-min. rated reserve	Batter
Air cleaner Single element dry type with restriction indicator	Air cle

POWER TRAIN

hifts ; high/low speed selection through hydraulic clutch
5,
Forced circulation type
Forward / Reverse
12.5 / 12.5
34.5 / 34.5
* With 17.5-25-12PR (L2) tires



AXLE AND FINAL DRIVE

Drive system	Four-wheel drive system
Front & rear axle	
	Front : Fixed to the front frame
	Rear : Center pivot
Reduction and differential gear	Two stage reduction with torque
-	proportioning differential
Oscillation angle	±12° ; total 24°
Final drives	Heavy duty, planetary final drive



TIRES (tubeless, nylon body)

Standard	
Optional	Refer to standard & optional equipment list.



- Service brake ... Inboard mounted fully hydraulic 4 wheel wet disc brake. • HST(Hydro Static Transmission) system provides additional hydraulic braking capacity.
- Parking brake ... Spring applied, hydraulically released, wet disc type with drive through prevention mechanism.



Туре	Articulated frame steering
	Fully hydraulic power steering with orbitrol
Steering angle	Each direction 40°; total 80°
Relief pressure	17.2 MPa (175 kgf/cm ²)
Cylinders	Two double-acting piston type
No. x Bore x Stroke	2 x 55 mm x 395 mm
Minimum turning radius at	
the centerline of outside tire	e 4.69 m

HYDRAULIC SYSTEM

Bucket controls with automatic bucket
return-to-dig controls Three position valve ; Roll back, hold, dump
Main pump
(Load & steer) Gear type 141 L/min
@2 450 min ⁻¹ (rpm) at 1.47 MPa (15 kgf/cm ²)
Relief pressure setting 20.6 MPa (210 kgf/cm ²)
HST charging pump Gear type 47L /min
@2 450 min ⁻¹ (rpm) at 3.9 MPa (40 kgf/cm ²)
Transmission charging pump Gear type 26 L/min
@2 450 min ⁻¹ (rpm) at 1.77 MPa (18 kgf/cm ²)
Hydraulic cylinders
Type Two arm and one bucket, double acting type
No. x Bore x Stroke Arm : 2 x 110 mm x 681 mm

	Bucket : 1 x 130 mm x 431 mm
Filters Full-flow	10 micron return filter in reservoir
Hydraulic cycle times	
Lift arm raise	5.6 s
lower	
Bucket dump	1.2 s
Total	

SERVICE REFILL CAPACITIES

Fuel tank	155 L
Engine coolant	23 L
Engine oil	
Front axle differential & wheel hubs	14 L
Rear axle differential & wheel hubs	14 L
Hydraulic reservoir tank	50 L

DIMENSIONS & SPECIFICATIONS

				Standard arm		High-I	ift arm
Bucket type			General purpose		Light material handling	General purpose	
			With bolt-on cutting edges	With bolt-on teeth	With bolt-on cutting edges	With bolt-on cutting edges	With bolt-on teeth
Bucket capacity	ISO heaped	m³	1.6	1.5	1.9	1.4	1.3
	ISO struck	m³	1.3	1.2	1.6	1.1	1.0
Bucket width		mm	2 480	2 480	2 480	2 480	2 480
Working range							
Dumping clearanc	e 45 degree, full height	mm	2 740	2 650	2 650	3 075	2 985
Reach, 45 degree	dump, full height	mm	1 030	1 090	1 105	1 170	1 240
Reach, 45 degree dump, 7 ft (2.13 m) clearance mr		mm	1 480	1 500	1 515	1 835	1 870
Reach with arm horizontal and bucket level m		mm	2 240	2 350	2 350	2 620	2 745
Digging depth (Ho	rizontal digging angle)	mm	85	95	85	195	205
Overall operating I	height	mm	4 675	4 665	4 770	4 910	4 910
Overall length (Bucket on ground) n		mm	6 360	6 490	6 470	6 740	6 865
Loader clearance circle, bucket in carry position m		mm	5 470	5 480	5 500	5 620	5 640
Static tipping load *	Straight	kgf	6 310	6 410	6 210	5 080	5 160
	Full 40 degree turn	kgf	5 360	5 450	5 260	4 290	4 360
Breakout force		kN (kgf)	79 (8 100)	86 (8 800)	70 (7 090)	79 (8 070)	86 (8 780)
Operating weight *		kgf	8 120	8 080	8 220	8 280	8 230

				Standard arm with quick-coupler				
Bucket type			Genera	Light material handling				
			With bolt-on cutting edges	With bolt-on teeth	With bolt-on cutting edges			
Bucket capacity	ISO heaped	m³	1.4	1.3	1.6			
	ISO struck	m³	1.1	1.0	1.3			
Bucket width		mm	2 480	2 480	2 480			
Working range								
Dumping clearance	e 45 degree, full height	mm	2 595	2 510	2 585			
Reach, 45 degree	dump, full height	mm	1 160	1 240	1 175			
Reach, 45 degree dump, 7 ft (2.13 m) clearance		mm	1 535	1 555	1 545			
Reach with arm horizontal and bucket level		mm	2 430	2 555	2 445			
Digging depth (Horizontal digging angle)		mm	85	95	85			
Overall operating height		mm	4 720	4 720	4 795			
Overall length (Bucket on ground)		mm	6 550	6 675	6 565			
Loader clearance circle, bucket in carry position		mm	5 545	5 570	5 550			
Static tipping load *	Straight	kgf	5 370	5 460	5 370			
	Full 40 degree turn	kgf	4 500	4 590	4 500			
Breakout force		kN (kgf)	63 (6 450)	67 (6 880)	62 (6 320)			
Operating weight *	kgf	8 530	8 480	8 560				

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 17.5-25-12PR (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.

	Change in operating weight	Change in tipping load				
Tires and Options	Change in operating weight	Straight	Full turn			
	kg	kg	kg			
17.5-25-12PR (L2) Bias ply	0	0	0			
17.5-25-12PR (L3) Bias ply	88	63	55			
18.4-24-10PR (L2) Bias ply	- 23	- 17	- 15			
ROPS/FOPS canopy (In lieu of FRP roof canopy)	210	210	200			
Steel cab (In lieu of FRP roof canopy)	270	240	230			
ROPS/FOPS cab (In lieu of FRP roof canopy)	490	465	440			
Lumber and pallet fork (Pin on type)*1	805	- 1 510	- 1 325			
Lumber and pallet fork (For quick coupler)*1	1 140	- 1 850	- 1 650			
Log grapple (Pin on type)*2	960	505	365			
Counterweight, CW*028	280	610	510			
Counterweight, CW*063	630	1 400	1 180			

Note: *1 CW*063

*2 CW*063, 17.5-25-12PR (L2) Tires



BUCKET SELECTION GUIDE

				I			Matori	al density	ka/m3		% Bucket 115% 1	Fill Factor 00% 95%
			Bucket Capacity	1 000	00 1 200		Material density kg/m ³ 1 400 1 60		00	1 800		
Standard arm	General	With bolt-on cutting edges	1.6 m³									
	purpose	With bolt-on teeth	1.5 m³									
	Light material handling	With bolt-on cutting edges	1.9 m³									
High-lift arm General purpose	With bolt-on cutting edges	1.4 m ³										
	With bolt-on teeth	1.3 m³										
Standard arm with quick-coupler	With bolt-on cutting edges	1.4 m ³										
	purpose	With bolt-on teeth	1.3 m³									
	material	With bolt-on cutting edges	1.6 m³									

STANDARD & OPTIONAL EQUIPMENT

ENCINE		Operator warping lights Durling -11/	DUCKETS AND ATTACHMENTS	Т
ENGINE Coolant recovery tenk		Operator warning lights: Brake oil /	BUCKETS AND ATTACHMENTS	1
Coolant recovery tank		Engine oil pressure / Alternator voltage	Full line of Hitachi pin on buckets with	
Fan safety guard (360° Full Fan Guard)		(Charge)	selection of bolt-on cutting edges, and	
Muffler, under hood with large exhaust stack		Indicator lights: Turn signals / Warning	bolt-on teeth*	
Environmentally friendly engine oil drain		flashers / High beam of driving light /	General purpose bucket with bolt on cutting	
Engine oil cooler		Work lights / Park brake / High gear	edges: 1.6 m ³ (ISO heaped)	
Quick-release fuel filter and water separator		Indicator lights: Emergency steering	General purpose bucket with bolt on teeth:	
Glow system (For cold start)		(If Emergency steering is equipped)	1.5 m ³ (ISO heaped)	
Air filter double elements		24 volt AM/FM stereo radio with clock	Light material handling bucket with bolt on cutting	1
Air pre-cleaner		(For cab model only)	edges: 1.9 m ³ (ISO heaped)	
Wide fin radiator		24 volt AM/FM stereo radio with cassette	Quick-coupler and hydraulic control system	
Fuel double filter		player and clock (For cab model only) Radio-ready cab, fused 24 volt radio electrical	for quick-coupler locking pins, including all controls in the cab, lines, and valves	
POWER TRAIN		lead, speaker (1), and antenna*	Full line of Hitachi buckets for guick coupler	
Hydrostatic (HST) transmission, electronic		(For cab model only)	with selection of bolt-on cutting edges, and	
shift control, twist-grip lever, hydrostatic		Ride control system (APS: Anti-Pitching System)	bolt-on teeth*	
oil cooler, inching pedal, and two speeds		Ride control system (AFS. Anti-Friching System)	General purpose bucket with bolt on cutting	
forward and reverse		OPERATOR'S STATION	edges: 1.4 m ³ (ISO heaped)	
QSS (Quick Shift Switch)		Canopy	General purpose bucket with bolt on teeth:	
Torque proportioning differentials, front and rear	•	FRP roof / Multiplane isolation mount	1.3 m ³ (ISO heaped)	
in the properties and the and the area in the real of the area in the real of the area in		for noise/vibration reduction	Light material handling bucket with bolt on cutting	
HYDRAULIC SYSTEM		ROPS** / FOPS*** / Multi-plane isolation	edges: 1.6 m ³ (ISO heaped)	
Automatic bucket return-to-dig control		mounted for noise/vibration reduction	Full line of construction utility forks, pallet forks,	
Automatic arm height kickout control		Cab	and attachments*	
Resorvor sight gauge		Steel cab (Without ROPS / FOPS) /	Lumber and pallet fork: Max load 3 200 kg	
Hydraulic filters, vertical mounting		Multi-plane isolation mounted for noise /	(Pin on type)	
Two-function hydraulic valve with joystick		vibration reduction / Front and rear	Lumber and pallet fork: Max load 2 700 kg	
control (Mechanical controlled)		windshield washers / Safety grass	(For quick coupler)	
Three-function hydraulic valve with joystick		ROPS** / FOPS*** / Multi-plane isolation	Log grapple: Max load 3 900 kg	
control and auxiliary lever for third function		mounted for noise/vibration reduction / Front	(Pin on type)	
(Mechanical controlled)		and rear windshield washers / Safety grass	(-)F -)	
Ride control, automatic type		Sun visor	TIRES	t
·····		Heater / Defroster (Front)	- Bias ply:	T
ELECTRICAL		(Cab model only & standard for cab model)	17.5-25-12PR (L2)	
24 volt electrical system		Defroster (Rear side) (Cab model only)	17.5-25-12PR (L3)	
Standard batteries (2), 12 volt with 582 CCA,		Air conditioning (Factory or dealer installed)	18.4-24-10PR (L2)	
133-min. rated reserve		Seat belt, 50 mm	- Radial ply:	
High-capacity batteries (2), 12 volt with 782 CCA,		Seat belt, 76 mm, with retractor*	17.5R25 (L2 type)	
170-min. rated reserve		Seat; vinyl covered , adjustable for fore-aft	17.5R25 (L3 type)	
Alternator, 50 amps and 24 volts		position, backrest tilt	Single-piece rims	
Alternator, high capacity, 60 amps and 24 volts		Seat; vinyl covered , mechanical suspension,	Multi-piece rims*	
Lights		adjustable for weight-height, fore-aft position,		
Driving with guards / Turn signals and		backrest tilt	OTHERS	t
flashers / Stops, tail and back-up lights /		Seat; fabric covered, high back, air suspension,	Anti-vandal protection, includes lockable engine	T
Conform to SAE 99		adjustable for weight-height, fore-aft position,	enclosure, and fuel fill	
Work lights on cab, front (2) (Cab model only)		backrest tilt (Cab model only)	Counterweight, built-in	
Work lights, rear (2)		Seat backrest extension* (For fabric seat)	Counterweight, extra duty*	
Push-button horn in center of steering wheel		Left door pocket for operator's manual and	Drawbar, with locking pin	
Reverse warning alarm		other items (Cab model only)	Bottom guards, front frame and transmission	
Monitor and alarm system, multi-function		Rubber floor mat (Cab model only)	Lift and tie-down hooks	
Electronic		Steering wheel, textured with spinner knob	Fire extinguisher (Dealer installed)	
Audible and visual warning include		Rear view mirrors, outside (2)	Emergency steering*	
Analog instruments: Engine coolant		Handholds, steps, and slip resistant	Open type rear grill*	
temperature / Fuel level / Speedometer			Tropical package* (For the hot weather condition)	
Digital instrument: Hour-meter		LOADER LINKAGE	Logging package*	
		Z-bar loader linkage provides (High bucket breakout)		
		High-lift arm		
				-

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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Head Office: 5-1 Koraku 2-chome, Bunkyo-ku, Tokyo 112-8563, Japan Telephone: (03)3830-8050 Facsimile: (03)3830-8204

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