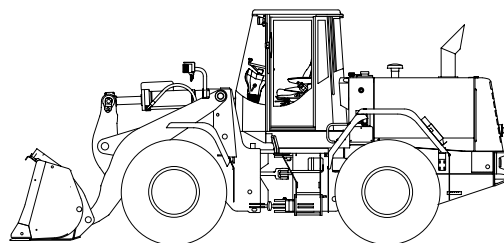


HITACHI LX210E

engine rated power
143 kW / 192 HP

operating weight
17 250 - 18 380 kg

bucket capacity
3.0 - 3.3 m³



HITACHI

Engine

Make	Isuzu
Model	6H1KTQF
Type	6 cylinders, diesel, direct injection turbocharged low emission engine
Coolant	Water
Displacement	7.79 l
Engine Power	At 2 200 rpm according to ISO 3046 143 kW / 192 HP / 194 PS
Maximum torque	765 Nm / 1 600 rpm
Cylinder bore	115 mm
Alternator	24 V / 50 A
Starting motor	24 V / 5 kW
Battery (no maintenance)	2 x 12 V / 140 Ah
Low gas emission	In compliance with European regulations

Transmission

TORQUE CONVERTER

Type	3 elements, single stage, single-phase
Torque stall ratio	2.873:1

TRANSMISSION

Make	ZF
Type	Full power shift automatic transmission
Gear change	Automatic or manual shift
Controls	Switch on joystick or on the steering column

Axles

Make	ZF
Type	"Heavy Duty" with limited slip self-locking differentials, designed for high stress work
Front axle	Rigid
Rear axle	Oscillation angle left 9.6°; right 9.65°
Final drive	Epicycloidal planetary gear; system in the wheel hubs
Tyres	23.5 R 25

Travel speeds

Travel speed (with 23.5R25 tyres) km/h.

	Forward	Reverse
1	7	7
2	12	12
3	23	23
4	35	

Maximum gradeability 30°

Braking system

Type	Wet type oil multidisc brakes on all 4 wheels
Control	Hydraulically controlled, servo control with electrical switch to release the transmission
Safety system	Through accumulators for the highest safety
Parking brake	Disc type, electrically controlled from the dashboard; automatic neutralization of the transmission when the parking brake is applied

Steering

Type	Hydraulic, "Load Sensing" with priority valve
Operation	By hydraulic system main pump
Max. flow	216 l/min
Max. pressure	190 bar
No. of cylinders	2 double acting cylinders
Bore	100 mm
Emergency steering	Bi-directional gear pump driven by the gearbox

Hydraulic system

Type	Open centre; flow dependent of load, adjusted via divider valve
Main pump	Tandem vane pump
Max. flow rate at 2 200 rpm	307 l/min
Max. pressure	200 bar
Aid pump	Gear type
Flow rate at 2 200 rpm	22.7 l/min
Max. pressure	35 bar
Hydraulic control valve	3-spool valve for boom, bucket and auxiliary circuit
Standard floating valve filter system	5 µ nominal rate on return to tank

CYLINDERS

Lifting bore / stroke	150 / 725 mm
Bucket bore / stroke	180 / 515 mm
Steering bore / stroke	100 / 418 mm
Cycle time (at rated speed)	
Lifting	5.7 s
Dumping	1.7 s
Lowering	2.3 s
Total	9.7 s

Loader equipment

Type	Z bar linkage
Pins/rings	Special coating with special seals
Anti-pitching system	RCS (Ride Control System, optional)
Lubrication	Centralized manual lubrication, accessible from the ground
Levelling	Bucket automatic ground leveller
Lift stop	Automatic, depending on programmable height
Floating position	Standard

Controls

- Control of loader kinematics by one joystick in compliance with ISO standards.
- Control of auxiliary hydraulic circuit (optional) by means of a separate lever.
- Control locking is possible when driving on the road.
- Reverse/forward shift by switch on equipment joystick or by commodo on steering column.
- Automatic gear selection with "gear-keep function", or manual selection by commodo on the steering column.
- Horn actuation on steering wheel or mono-lever.
- Parking brake application on dashboard.
- Adjustable steering column.

Cabin

- Type ROPS/FOPS
ROPS - ISO 3471/SAE 1040
FOPS - ISO 3449/SAE J231
- 360° round visibility with a perfect view over all outer sides and edges of the wheel loader.
 - Forward position of the cab giving an excellent visibility over the loader equipment.
 - The operator sits exactly above the articulation joint.
 - User-friendly, air suspension seat.
 - Heating, pressurization, filtration, ventilation.
 - Air-conditioning option.
 - Low noise level in compliance with EC regulations.
 - Outside 107 LwA

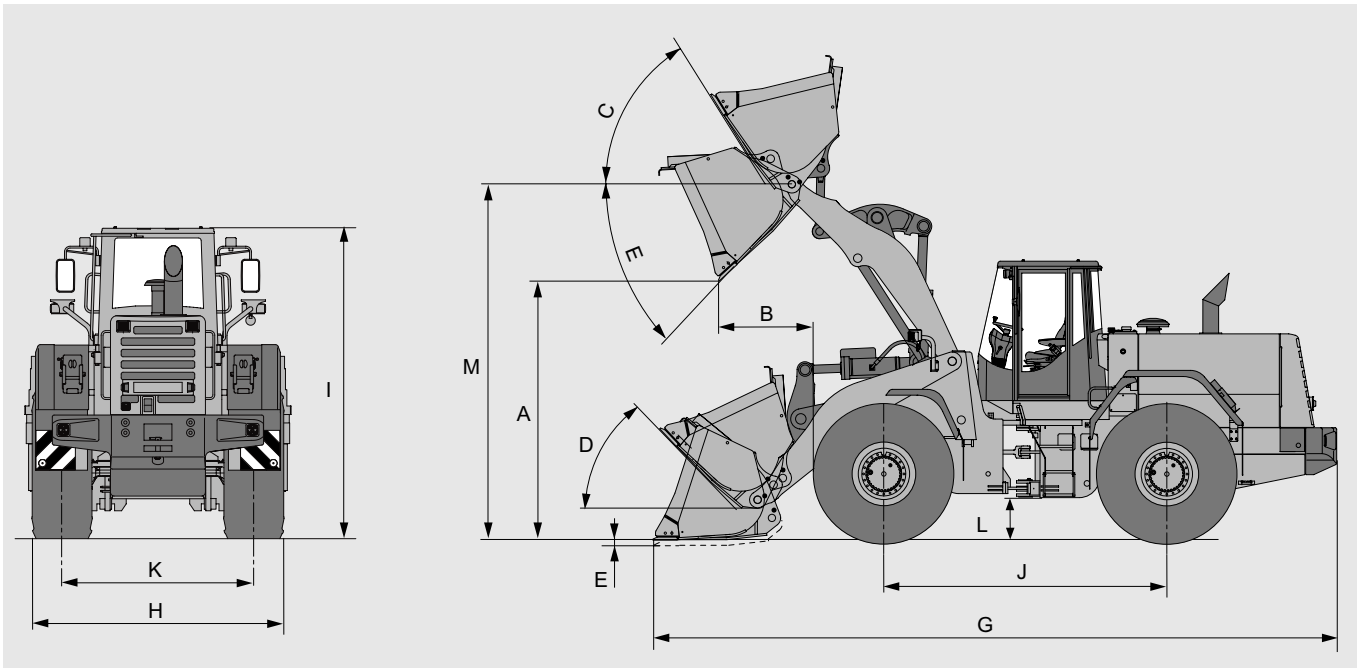
Capacities

- Fuel tank 314 l
Hydraulic tank and circuit 200 l
Engine housing 19 l
Front axle 30 l
Rear axle 30 l
Torque converter and transmission 26 l

Devices for maintenance

- Centralized lubrication of the loader kinematics.
- Centralized lubrication of the rear axle articulation and oscillation.
- Tilttable cab for quick intervention on the hydraulic system, the transmission and the braking system.
- Transmission oil radiator, engine coolant radiator and hydraulic cooler are side by side.
- Air filter with radial ring and clogging indicator.
- Maintenance-free batteries, accessible from the ground, located in a case at the back of the machine.
- Fuses block located in the cab.
- Checking of air filter and engine oil level from the ground.
- Attachment pins with special seals. Lubrication every 100 hours.
- Inspection glasses to check the fluid level of hydraulic oil and transmission oil from the ground.

Performances and dimensions



LX210E		Bucket with flat bottom bolted on teeth	Bucket with flat bottom welded on teeth	Rounded bottom bucket with bolted on teeth	Rounded bottom bucket with welded on teeth	Light material bucket with bolted on cutting edge
Bucket capacity (SAE)	m ³	3.1	3.1	3.0	3.0	3.3
Bucket width	mm	2 850	2 850	2 850	2 850	2 850
Performances						
A Max. dump height at 45° or 40°	mm	2 900	2 925	2 905	2 930	2 940
B Reach at dump height max. at 45° or 40°	mm	1 245	1 255	1 250	1 260	1 195
Tipping load, straight	kg	13 505	13 580	13 555	13 630	13 465
Tipping load, articulated, 40°	kg	11 810	11 890	11 860	11 940	11 770
Breakout force	kN	162	162	162	162	147
C Bucket rollback at full height		61	61	61	61	61
D Bucket rollback in carry position (SAE)		47	47	47	47	47
Bucket rollback at ground level		40	40	40	40	40
E Max. bucket dump angle		40	40	45	45	40
F Digging depth	mm	60	60	60	60	60
Minimum turn radius, corner of bucket	mm	6 515	6 505	6 510	6 500	6 490
Dimensions						
G Length (bucket on the ground)	mm	7 970	7 965	7 970	7 965	7 905
H Width over tyre	mm	2 705	2 705	2 705	2 705	2 705
I Height over cab	mm	3 350	3 350	3 350	3 350	3 350
J Wheelbase	mm	3 250	3 250	3 250	3 250	3 250
K Tread	mm	2 060	2 060	2 060	2 060	2 060
L Ground clearance	mm	425	425	425	425	425
M Shovel pin height	mm	4 100	4 100	4 100	4 100	4 100
Operating weight	kg	17 450	17 370	17 400	17 320	17 490

LX210E Specification changes with optional equipment	Dump height Overall height	Overall width	Weight	Tipping load straight	Tipping load full turn
23.5 R 25 VMT (L3)	0	0	0	0	0
23.5 R 25 XHA (L3)	0	+15	-70	-55	-50
23.5 R 25 VSDL (L5)	+45	0	+760	+580	+510
23.5 R 25 XLDD2 (L5)	+30	+25	+450	+345	+300
With Ride Control System (RCS)	0	0	+30	+25	+25
With air conditioner	0	0	+20	+20	+15
With full fender	0	0	+80	+120	+110

Standard Equipment

Standard equipment may vary by country, so please consult your Hitachi dealer for details.

LOADER

- Z bar linkage
- Automatic lift stop
- Automatic bucket leveller
- Loader steering by one servo-controlled joystick

ENGINE

- Dry air filter with safety element
- Soundproof exhaust
- Double fuel filtration

TRANSMISSION

- Full powershift automatic transmission
- Shift on the loader joystick or with the commo on the steering console

AXLES AND BRAKING SYSTEM

- Limited slip front and rear axles
- Electro-hydraulic parking brake
- Front and rear half fenders
- Tyres 23.5R25

HYDRAULICS

- 3-spool hydraulic control valve

CABIN

- ROPS-FOPS (soundproof and pressurized)
- Air suspension seat
- Radio
- Speedometer
- Heating, de-icing, pressurization, air filtration
- 2 outside retractable rearview mirrors
- 1 inside rearview mirror
- Triplex front windscreen
- Tilttable steering console
- Windscreen wiper and washer (front and rear)
- Tilttable cab for quick maintenance intervention on the hydraulic system and the transmission
- 12 Volt plug for CB

CONTROL AND SAFETY DEVICES

- Lights: working lights, headlights, stop lights
- Reversing alarm
- Reversing light
- Indicators, light signals, sound signal for coolant and transmission oil temperature, brake pressure, brake oil level, hand brake, steering
- Light on/off switch, headlights indicator
- Hourmeter
- Fuel level
- Pre-selector, gear shift
- Air filter clogging warning light
- Sling points

Optional Equipment

Optional equipment may vary by country, so please consult your Hitachi dealer for details.

LOADER

- 2-lever pilot control system
- 3rd function piping
- Anti-pitching system (Ride control system RCS)
- Automatic central lubrication system

HYDRAULICS

- 3-spool hydraulic control valve

CABIN

- Air conditioning
- Clock & Thermometer
- Tachometer
- Headrest

BUCKETS

- 2.8 m³ Bucket
- 3.0 m³ Bucket
- 3.1 m³ Bucket
- 3.3 m³ Flat bottom / Light material Bucket
- Bucket Rubber Bumper

TYRES

- 20.5 R 25 VKT (L2)
- 20.5 R 25 VMT (L3)
- 20.5 R 25 XHA (L3)
- 20.5 R 25 VSDL (L5)
- 20.5 R 25 XLDD2 (L5)

OTHER

- Back up alarm
- Beacon lamp
- Bio-degradable oil
- Full rear fenders

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