

ZAXIS-7H series

HITACHI

Reliable Solutions

Hitachi Construction Machinery Group

LANDCROS

Japanese Excellence—Reliable Solutions



HYDRAULIC EXCAVATOR

Model code : ZX300LC-7H

Engine gross power : 197 kW

Operating weight : 30 400 kg

Bucket capacity : 1.00 - 1.62 m³

SPECIFICATIONS

ENGINE	
Model	Isuzu 6HK1X
Type	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment	DOC + SCR system
No. of cylinders	6
Rated power	
ISO 14396 : 2002 gross	197 kW at 1 900 min ⁻¹
ISO 9249 : 2007 net	186 kW at 1 900 min ⁻¹
Maximum torque	1 050 Nm at 1 500 min ⁻¹
Piston displacement	7.79 L
Bore and stroke	115 mm x 125 mm
Batteries	2 x 12 V / 135 Ah

HYDRAULIC SYSTEM	
Hydraulic Pumps	
Main pumps	3 variable displacement axial piston pumps
Maximum oil flow	2 x 236 L/min
	1 x 210 L/min
Pilot pump	1 gear pump
Maximum oil flow	34.7 L/min
Hydraulic Motors	
Travel	2 variable displacement axial piston motors
Swing	1 axial piston motor
Relief Valve Settings	
Implement circuit	34.3 MPa
Swing circuit	32.4 MPa
Travel circuit	34.3 MPa
Pilot circuit	3.9 MPa
Power boost	38.0 MPa
Hydraulic Cylinders	
	Quantity
Boom	2
Arm	1
Bucket	1

UPPERSTRUCTURE	
Revolving Frame	
D-section frame for resistance to deformation.	
Swing Device	
Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row. Swing parking brake is spring-set/hydraulic-released disc type.	
Swing speed	10.3 min ⁻¹
Swing torque	90.5 kNm

UNDERCARRIAGE	
Tracks	
Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.	
Numbers of Rollers and Shoes on Each Side	
Upper rollers	2
Lower rollers	8
Track shoes	48
Track guards	3
Travel Device	
Each track driven by 2-speed axial piston motor. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.	
Travel speeds	High : 0 to 5.2 km/h
	Low : 0 to 3.1 km/h
Maximum traction force	246 kN
Gradeability	70% (35 degree) continuous

SERVICE REFILL CAPACITIES	
Fuel tank	510.0 L
Engine coolant	48.0 L
Engine oil	48.0 L
Swing device	12.0 L
Travel device (each side)	9.4 L
Hydraulic system	294.0 L
Hydraulic oil tank	163.0 L
DEF/AdBlue® tank	70.0 L

ENVIRONMENT	
Engine Emissions	EPA Final Tier 4 / EU Stage IV
Sounds Level	
Sound level in cab according to ISO 6396 : 2008	LpA 69 dB(A)
External sound level according to ISO 6395 : 2008 and EU Directive 2000/14/EC	LwA 104 dB(A)

WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

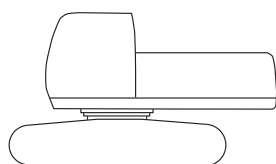
			ZX300LC-7H *	
Boom type			Monoblock	
Shoe type	Shoe width (mm)	Arm length (m)	kg	kPa
Triple grouser	600	2.42	30 400	56.9

* Including 1.25 m³ (ISO 7451:2007 heaped) bucket weight (1 020 kg) and counterweight (5 600 kg).

BASIC MACHINE WEIGHT AND COMPONENTS WEIGHT

Basic Machine Weight and Overall Width

Excluding front end attachment, fuel, hydraulic oil and coolant etc. Including counterweight.



		ZX300LC-7H	
Shoe type	Shoe width (mm)	Weight (kg)	Overall width (mm)
Triple grouser	600	23 800	3 190

Components Weight

Unit: kg

	ZX300LC-7H
Counterweight	5 600
Monoblock boom (with arm cylinder and boom cylinder)	3 240
Arm 2.42 m (with bucket cylinder)	1 470
Bucket ISO 7451:2007 1.25 m ³	1 020

BUCKET AND ARM DIGGING FORCE

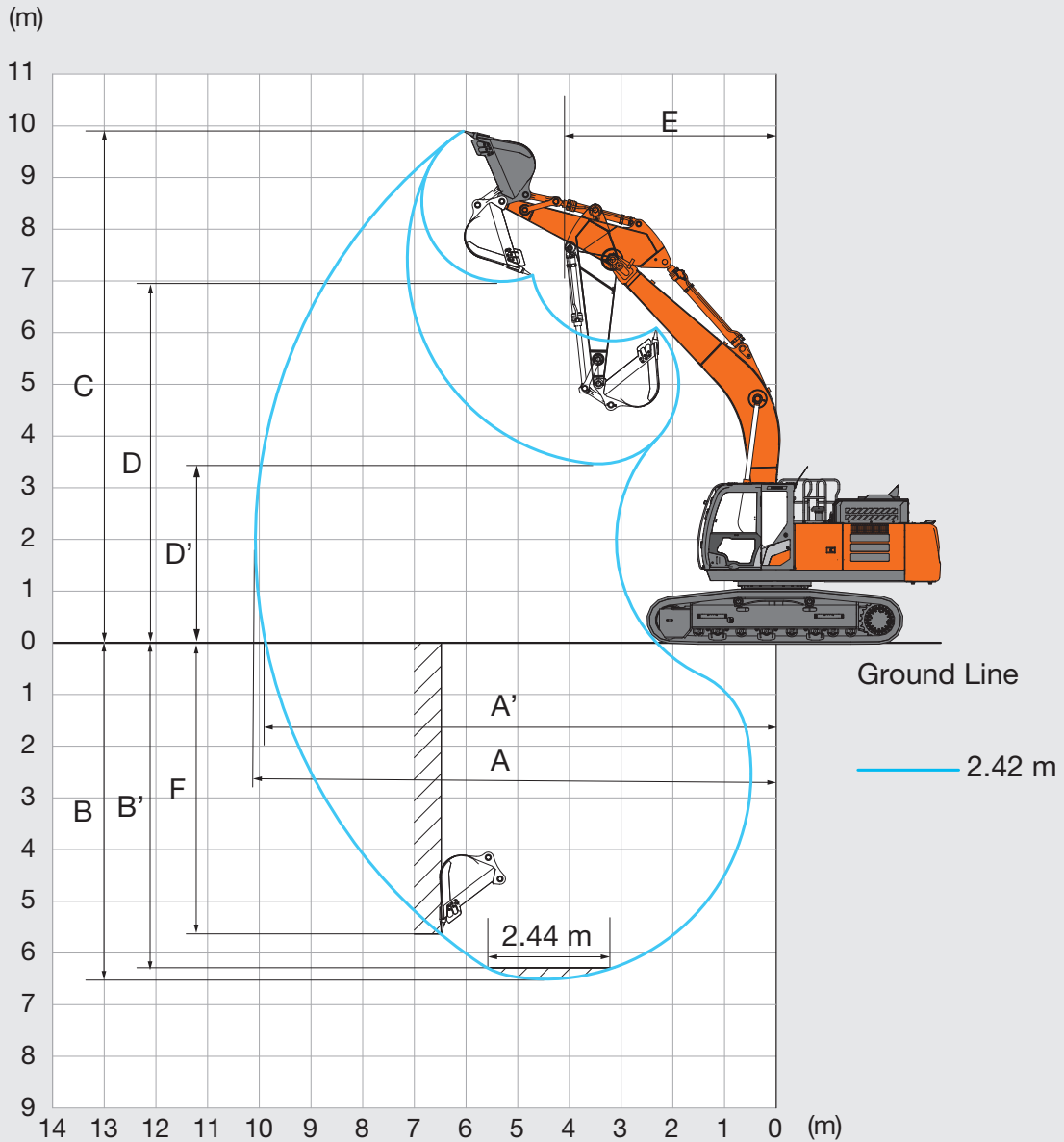
Unit: kN

	ZX300LC-7H
Arm length	2.42 m
Bucket digging force* ISO 6015 : 2006	203
Arm crowd force* ISO 6015 : 2006	183

* At power boost

SPECIFICATIONS

WORKING RANGES

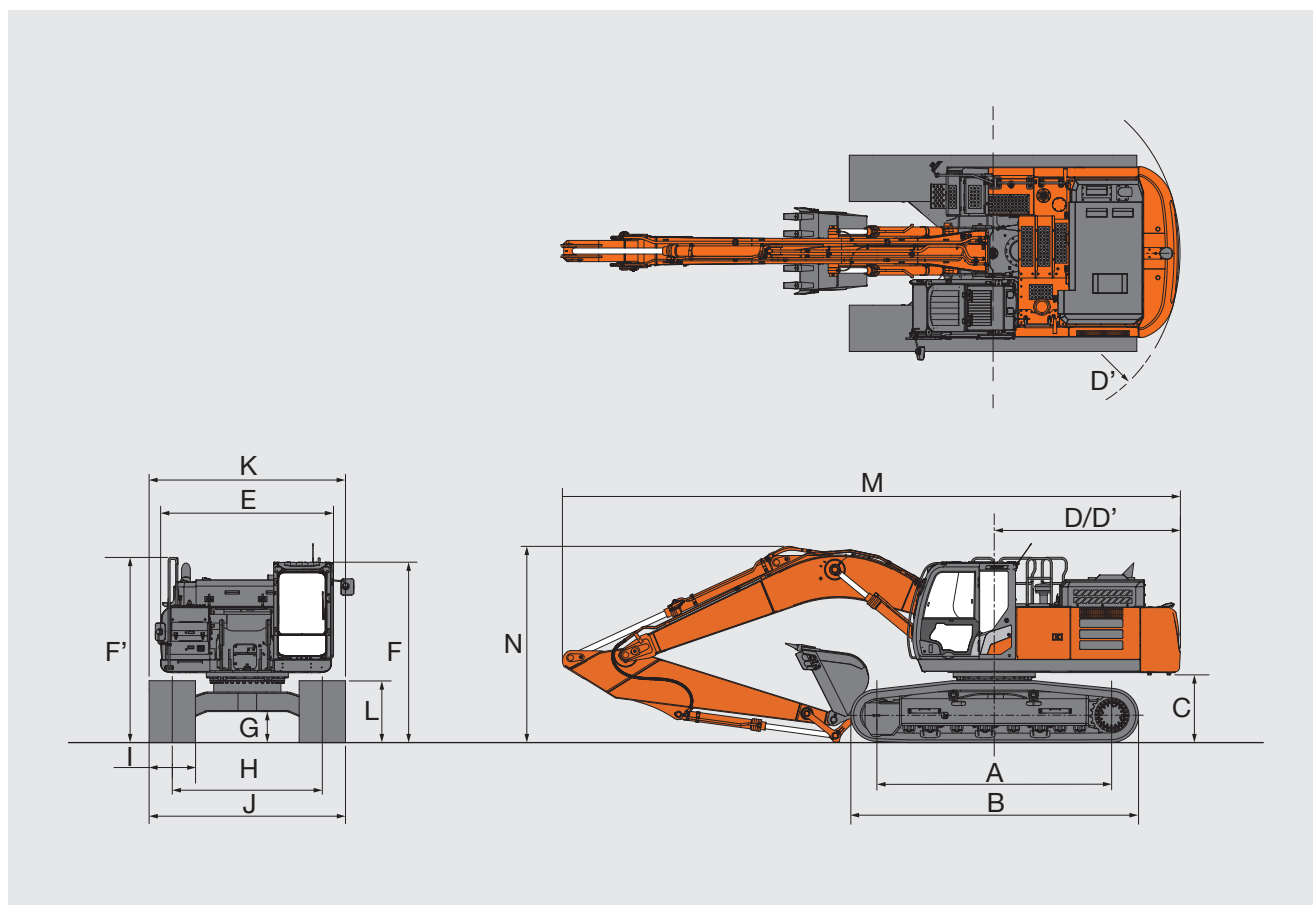


Unit: mm

	ZX300LC-7H
	Monoblock boom
Arm length	2.42 m
A Max. digging reach	10 060
A' Max. digging reach (on ground)	9 870
B Max. digging depth	6 530
B' Max. digging depth for 2.44 m level	6 310
C Max. cutting height	9 910
D Max. dumping height	6 980
D' Min. dumping height	3 450
E Min. swing radius	4 060
F Max. vertical wall digging depth	5 650

Excluding track shoe lug

DIMENSIONS



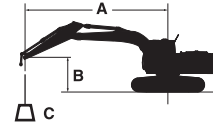
Unit: mm

		ZX300LC-7H
		Monoblock boom
A	Distance between tumblers	4 050
B	Undercarriage length	4 970
*C	Counterweight clearance	1 130
D	Rear-end swing radius	3 250
D'	Rear-end length	3 210
E	Overall width of upperstructure	2 990
F	Overall height of cab	3 120
F'	Overall height of handrail	3 200
*G	Min. ground clearance	510
H	Track gauge	2 590
I	Track shoe width	G 600
J	Undercarriage width	3 190
K	Overall width	3 190
*L	Track height with triple grouser shoes	1 070
M	Overall length	
	With Arm 2.42 m	10 710
N	Overall height of boom	
	With Arm 2.42 m	3 490

* Excluding track shoe lug G: Triple grouser shoe

MACHINE CAPACITIES

- Notes:
1. Ratings are based on ISO 10567 : 2007.
 2. Machine capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
 4. *Indicates load limited by hydraulic capacity.
 5. 0 m = Ground.



A: Load radius
 B: Load point height
 C: Machine capacity

For machine capacities, subtract installed attachment and quick hitch weight from machine capacities.

To determine lifting capacities, apply "Rating over-side or 360 degrees" machine capacities from the table and deduct weight of installed attachment and quick hitch. Optional feature may affect machine performance.

ZX300LC-7H MOMOBLOCK BOOM

Rating over-front Rating over-side or 360 degrees Unit : kg

Conditions	Load point height (m)											At max. reach		
		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				meter
Boom 6.20 m Arm 2.42 m Counter Weight 5 600 kg Grouser shoe 600 mm	6.0					*7 920	*7 920					*7 680	6 030	7.46
	4.5			*11 130	*11 130	*8 890	8 260	*7 900	5 880			*7 740	5 180	8.11
	3.0			*14 010	11 770	*10 170	7 840	*8 460	5 690			7 500	4 760	8.44
	1.5					*11 260	7 490	8 800	5 510			7 330	4 620	8.49
	0 (Ground)			*16 140	10 960	*11 820	7 280	8 670	5 390			7 540	4 730	8.27
	-1.5	*10 290	*10 290	*15 540	10 970	*11 700	7 230	8 650	5 370			8 270	5 160	7.75
	-3.0	*18 560	*18 560	*14 050	11 140	*10 670	7 330					*8 930	6 160	6.86
	-4.5	*14 350	*14 350	*10 940	*10 940							*8 790	*8 790	5.42

EQUIPMENT

● : Standard equipment ○ : Optional equipment

ENGINE	ZX-7H 300LC
Aftertreatment device	●
Air cleaner double filters	●
Alternator 90 A	●
Auto idle system	●
Auto shut-down control	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
Cold fuel resistance valve	●
ConSite OIL (sensor)*	●
DEF / AdBlue® tank	●
DEF / AdBlue® tank inlet strainer and extension filler	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
Dust-proof indoor net	●
ECO / PWR / HP mode control	●
Electrical fuel feed pump	●
Engine oil drain coupler	●
Expansion tank	●
Fan guard	●
Fuel cooler	●
Fuel pre-filter with water separator	●
Isolation-mounted engine	●
Maintenance free pre-cleaner	●
Radiator, oil cooler and intercooler	●

HYDRAULIC SYSTEM	ZX-7H 300LC
Auto power lift	●
ConSite OIL (sensor)*	●
Control valve with main relief valve	●
Equipment package for lifting objects	○
High mesh full flow filter	●
Hose rupture valve for arm	○
Hose rupture valve for boom	○
Pilot filter	●
Power boost	●
Restriction indicator for full flow filter	○
Suction filter	●
Swing dampener valve	●
Two extra ports for control valve	●
Variable reliefvalve for breaker and crusher	●
Work mode selector	●

CAB	ZX-7H 300LC
Auto control air conditioner	●
AUX function lever (breaker)	●
AUX function lever (breaker assist)	○
Bluetooth® integrated radio	●
Cab : All-weather sound suppressed steel	●
Cab : CRES VII (center pillar reinforced structure)	●
Cab : OPG top guard Level I (ISO 10262 : 1998) compliant	●
Cab : ROPS (ISO 12117-2 : 2008) compliant	●
Console height adjustment	●
Control lever auto-lock	●
Drink holder with hot and cool function	●
Electric double horn	●
Engine shut-off switch	●
Equipped with reinforced, tinted (green color) glass windows	●
Evacuation hammer	●
Floor mat	●
Footrest	●
Front guard : OPG Level II (ISO 10262 : 1998) compliant	○
Front window washer (2 points)	●
Glove compartment	●
Hands-free calling device	●
Hot and cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
LED room light	●
Magazine rack	●
Pilot shut-off lever	●
Power outlet 12 V and 24 V	●
Push button low idle	●
Rain guard (without OPG front guard)	●
Rear tray	●
Retractable seat belt 76 mm	●
Rubber radio antenna	●
Seat : air suspension seat with heater	●
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	●
Seat belt reminder	●
Short wrist control levers	●
Smartphone holder	●
Straight travel pedal	○
Sunscreen roller type (multi-use front or side and rear window)	●
Top guard: OPG Level II (ISO 10262 : 1998) compliant	○
Transparent roof with slide curtain	●
USB power supply	●
Wide view wiper	●
Windows on front, upper, lower and left side can be opened	●
2 speakers	●
4 fluid-filled elastic mounts	●
8 inch monitor	●

MONITOR SYSTEM	ZX-7H 300LC
Alarm buzzers: overheat, engine oil pressure, overload, SCR system trouble, etc	●
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble, etc	●
Display of meters: water temperature, hour, fuel rate, clock, DEF / AdBlue® rate, etc	●
Other displays: work mode, auto-idle, glow, rear view monitor, side view monitor, operating conditions, etc	●
35 languages selection	●

LIGHTS	ZX-7H 300LC
Additional boom LED light with cover	●
Additional cab roof front LED lights	●
LED lights for camera (side and rear view camera)	●
Rotating lamp	○
2 working LED lights	●

UPPER STRUCTURE	ZX-7H 300LC
AERIAL ANGLE (270-degree view camera system)	●
Batteries 2 x 135 Ah	●
Body top handrail	●
Control pattern changer (ISO / BH)	●
Counterweight 5 600 kg	●
Electric fuel refilling pump with auto stop and filter	●
Fuel level float	●
HD Undercover	○
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Lockable tool box	●
Platform handrail	●
Side view mirror (right and left)	●
Skid-resistant plates	●
Swing parking brake	●
Undercover	●
Utility space	●
2 way battery disconnect switch	●

● : Standard equipment ○ : Optional equipment

UNDERCARRIAGE	ZX-7H 300LC
Bolt-on sprocket	●
Greasing type track adjuster	●
Reinforced track links with pin seals	●
Shoe: 600 mm triple grouser	●
Towing hole for light weight object	●
Track undercover	○
Travel direction mark on track frame	●
Travel motor covers	●
Travel parking brake	●
Upper and lower rollers	●
3 track guards (each side)	●
4 tie down brackets	●

ATTACHMENTS	ZX-7H 300LC
Accessories for 2 speed selector	○
Additional pump (50 L/min)	○
Assist piping	○
Breaker and crusher piping	●
Breaker and crusher piping (Short piping)	○
Pilot accumulator	○

MISCELLANEOUS	ZX-7H 300LC
ConSite	○
Global e-Service	●
Onboard information controller	●
Satellite communication device	○
Standard tool kit	●
Travel alarm	●

FRONT ATTACHMENTS	ZX-7H 300LC
Arm 2.42 m	●
Arm tip remote lubrication	●
Casted bucket link A	●
Centralized lubrication system	●
Dirt seal on all bucket pins	●
Flanged pin	●
HN bushing	●
Lower arm reinforcement	●
Reinforced bucket link B	●
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●

Standard and optional equipment may vary by country, so please consult authorized dealer for details.

* Engine oil and hydraulic oil monitoring sensor.

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