

ZAXIS-7 series

HITACHI

Reliable solutions

ZAXIS350



TELESCOPIC ARM (ROPE TYPE)

Model code : ZX350LC-7 / 30 m

Engine rated power : 210 kW (ISO14396)

Operating weight : 35 200 – 37 500 kg

Model code : ZX350LC-7 / 25 m

Engine rated power : 210 kW (ISO14396)

Operating weight : 35 200 – 37 500 kg

You're in control

You're at the heart of Hitachi's design for its latest range of clamshell telescopic arm excavators. To continuously improve on previous generation machines we've focused on enhancing your experience in the cab as an operator.

Hitachi is the only manufacturer to design and build excavators with telescopic arms in-house. These ZX-7 special application models share the same industry-leading technology as standard Hitachi excavators, and do not compromise on user-friendly appeal.

An optimum solution for complex below-ground construction projects, the ZX350LC-7 CTA can excavate to depths of 25/30 metres. It offers high levels of productivity, a powerful performance and exceptional versatility.





Inside



Complete control

4. Walkaround



Control zone

6. Feel the difference



In control of your business

8. Improve your profit

Specifications

10. ZX350LC-7 CTA 30 meter

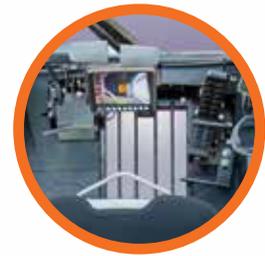
18. ZX350LC-7 CTA 25 meter

Complete control

The new Zaxis-7 Clamshell telescopic arm excavators put you firmly in control, so you can feel assured of your machine's performance, and supported by the technological expertise and services that Hitachi provides.



A dedicated telescopic indicator display has been incorporated into the standard monitor.



Dedicated monitor for the telescopic zoom camera enables safe operation and the enlarged floor window increases visibility.



LED working lights improve visibility and safety.



Increased versatility with rotation piping enables work with swivel clamshell buckets.



Slide cab rear mirror for safe operation of the sliding cab.



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HITACHI

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Control zone

Enhanced comfort and safety features are at your fingertips in the refined cab of the Zaxis-7 clamshell telescopic arm excavator, giving you the power to perform productively, with ease and reduced fatigue.

- ① **Floor window** enhances visibility in difficult working conditions.
- ② **Height-adjustable and tilting display** to monitor telescopic arm work.
- ③ **Low-reflective colour 8" LCD monitor** is easy to view and navigate.
- ④ **Right pedal footrest** for improved operation.
- ⑤ **Drinks holder** is easy to detach for cleaning.
- ⑥ **Additional joystick controls** for effortless operation.
- ⑦ **Ergonomic design** gives you convenient access to controls.
- ⑧ **Bluetooth®** for hands-free calls and **DAB+** radio for music while you work.
- ⑨ **Multifunctional control panel** makes operation easier.
- ⑩ **User-friendly storage space** keeps your workspace tidy and clutter-free.
- ⑪ **One-touch adjustment lever for console** so you can work comfortably in the optimum position.
- ⑫ **Integrated console and seat suspension** gives a greater sense of control and helps to reduce fatigue.
- ⑬ **Increased legroom** creates a more spacious cab.
- ⑭ **Increased sweeping area** of parallel link wiper enhances visibility in difficult working conditions.



Dedicated monitor for the telescopic zoom camera.



Standard screen includes telescopic indicator display.

In control of your business



Improve your profit

The success of your business depends on the reliability and efficiency of your construction machinery. With Hitachi's latest Zaxis-7 clamshell telescopic arm excavators, you can count on the highest quality, the ultimate in operating comfort and reduced running costs – all of which will have a positive impact on your bottom line.

As a cost effective solution – the Zaxis-7 clamshell telescopic arm excavator is capable of removing soil from 25m/30m below ground, so you can use it instead of a crane to load trucks to swiftly transport material off site. The arm's high-speed extension and retraction capacity and strong pull-up force mean it requires less swing room than a long-reach excavator, making it suitable for compact environments.

The ZX350-7 30m CTA is equipped with rotation piping for use with swivel clamshell buckets. Now you can attach an HCME-manufactured swivel clamshell bucket and activate the swivel operation with the AFL switch on the right-hand lever. Say goodbye to manual pushbutton operation and control the attachment from the comfort of your cab.

The cab of the ZX350LC-7 CTA is positioned 960mm further forward than on a standard model. It can also slide a further 1,300mm to provide the operator with a better view of the digging area below. This means you can enjoy enhanced visibility as well as improved safety on site.

Optional LED working lights are located at the front of the sliding cab to illuminate the area below ground. This offers the operator an unbeatable view of the job site, providing comfort and safety. The lights are adjustable and two settings can be used at the same time: low beam and high beam.



LED lights highlight the working area for operators.



Removed soil can be loaded to trucks that transport materials swiftly off site.



Rotation piping included for swivel clamshell buckets (ZX350-7 30m CTA).



The sliding cab enhances visibility and safety.

SPECIFICATIONS

ZX350LC-7 30 m

ENGINE

Model	Isuzu 6HK1X
Type	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment	DOC+CSF+SCR system
No. of cylinders	6
Rated power	
ISO 14396 : 2002	210 kW at 1 900 min ⁻¹
ISO 9249 : 2007	202 kW at 1 900 min ⁻¹
Maximum torque	1 080 Nm at 1 500 min ⁻¹
Piston displacement	7.790 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 288 L/min
.....	1 x 260 L/min
Pilot pump	1 gear pump
Maximum oil flow	36.8 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

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

CONTROLS

Pilot controls. Hitachi's original shockless valve.	
Implement levers	2
Travel levers.....	2
Telescopic arm control pedal	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	6.9 min ⁻¹ (with telescopic arm)
.....	9.7 min ⁻¹ (with backhoe arm)
Swing torque	120 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 5.0 km/h
.....	Low : 0 to 3.2 km/h

Maximum traction force 298 kN

Gradeability	27% (15 degree) continuous (with telescopic arm)
.....	70% (35 degree) continuous (with backhoe arm)

WEIGHTS AND GROUND PRESSURE

Model	Shoe type	Shoe width	Operating weight	Ground pressure
ZX350LC-7*1	Triple grouser	600 mm	46 900 kg	88 kPa
ZX350LCN-7*2	Triple grouser	600 mm	46 300 kg	87 kPa

*1 Equipped 1.4 m³ clamshell bucket with rotating device. (2 480 kg) (ISO 6015 : 2006 heaped).

*2 Equipped 1.15 m³ clamshell bucket with rotating device. (2 270 kg) (ISO 6015 : 2006 heaped).

ENVIRONMENT

Engine Emissions

EU Stage V

Sound level in cab according to ISO 6396 : 2008 LpA 71 dB(A)

External sound level according to ISO 6395 : 2008 and

EU Directive 2000/14/EC LwA 105 dB(A)

Air Conditioning System

The air conditioning system contains fluorinated greenhouse gases.

Refrigerant type: HFC-134a, GWP: 1430, Amount: 1.10 kg, CO₂e: 1.57 ton.

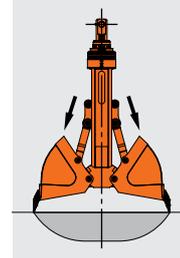
SERVICE REFILL CAPACITIES

Fuel tank	630.0 L
Engine coolant	48.0 L
Engine oil	48.0 L
Swing device	15.7 L
Travel device (each side)	11.0 L
Hydraulic system	340.0 L
Hydraulic oil tank	198.0 L
DEF/AdBlue® tank	70.0 L

CLAMSHELL BUCKET

Model	ZX350LC-7	ZX350LCN-7
Bucket type	HE-CB140HT	HE-CB115HT
Bucket capacity m ³	1.40	1.15
Weight kg	2 480	2 270

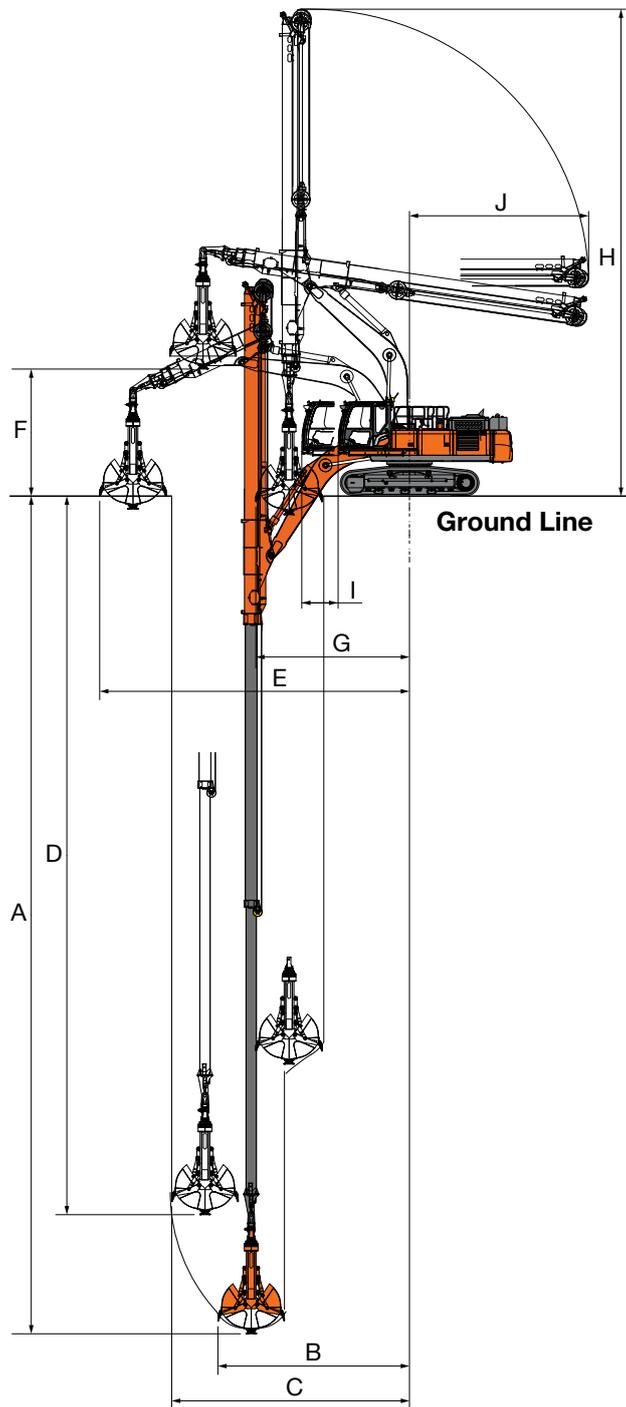
Shell push type



SPECIFICATIONS

ZX350LC-7 30 m

WORKING RANGES



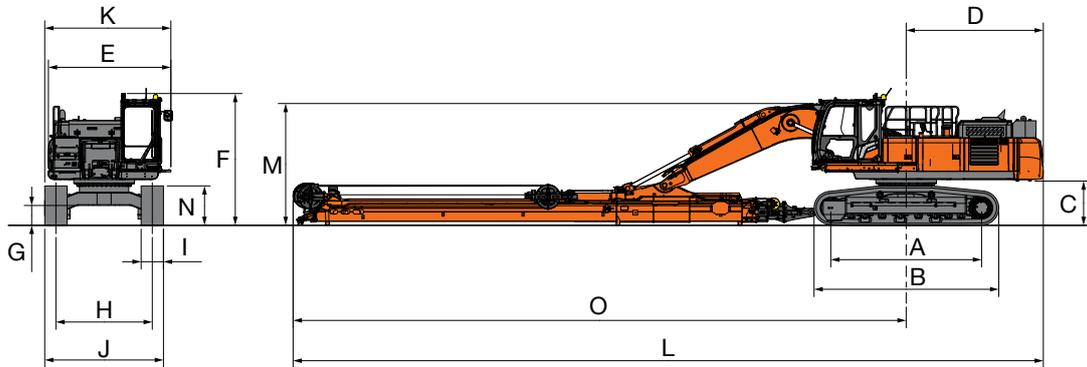
Unit: mm

Model	ZX350LC-7
Telescopic arm system	Hydraulic cylinder + wire rope
A Max. vertical digging depth	30 200
B Radius at max. vertical digging depth	6 850
C Max. vertical digging radius	8 500
D Depth at max. vertical digging radius	25 900
E Max. working radius	11 080
F Max. dumping height	4 580
G Min. front swing radius	5 500
H Height at min. front swing radius	17 550
I Cab sliding distance	1 300
J Front rear radius	6 410

SPECIFICATIONS

ZX350LC-7 30 m

DIMENSIONS



Unit: mm

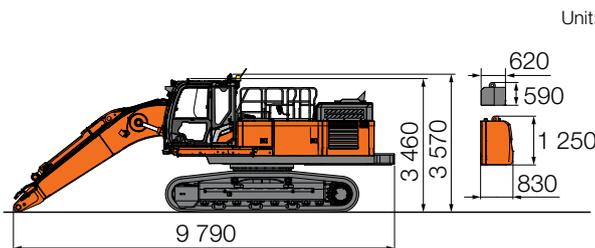
	ZX350LC-7	ZX350LCN-7
A Distance between tumblers	4 050	4 050
B Undercarriage length	4 970	4 970
*C Counterweight clearance	1 160	1 160
D Rear-end swing radius	3 690	3 690
E Overall width of upperstructure	3 320 Folding the step: 3 090	3 320 Folding the step: 3 090
F Overall height of cab	3 570	3 570
*G Min. ground clearance	500	500
H Track gauge	2 590	2 390
I Track shoe width	G 600	G 600
J Undercarriage width	3 190	2 990
K Overall width (folding the step)	3 430 Folding the step: 3 160	3 330 Folding the step: 3 090
L Overall length	20 160	20 160
M Overall height of boom	3 300	3 300
N Track height with triple grouser shoes	1 070	1 070
O Swing centre to front distance	16 480	16 480

* Excluding track shoe lug G: Triple grouser shoe

TRANSPORTATION

	ZX350LC-7	ZX350LCN-7
Width:	Unfolding step, With step unfolded 3 430 mm Folding step, With step folded 3 160 mm	*2 990 mm
Weight: (With Sliding cab)	26 200 kg	26 100 kg

* Not including step and handrail



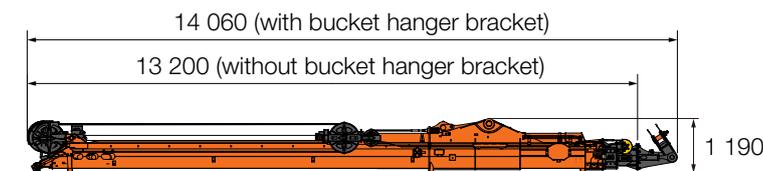
Unit: mm

	ZX350LC-7	ZX350LCN-7
Counterweight		
Width:	2 950 mm	2 950 mm
Weight:	7 600 kg	7 600 kg
Additional counterweight		
Width:	2 560 mm	2 560 mm
Weight:	4 250 kg	4 250 kg

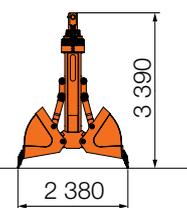
Telescopic Arm

ZX350LC-7

Width: 1 030 mm
Weight: 6 510 kg



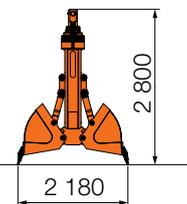
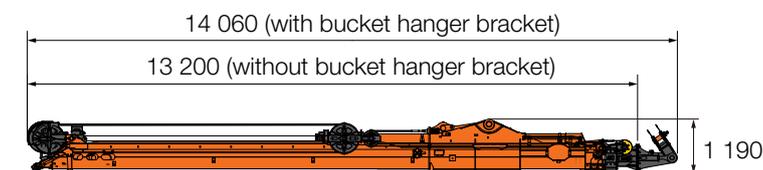
Clamshell Bucket



Width: 1 200 mm
Weight: 2 480 kg

ZX350LCN-7

Width: 1 030 mm
Weight: 6 510 kg

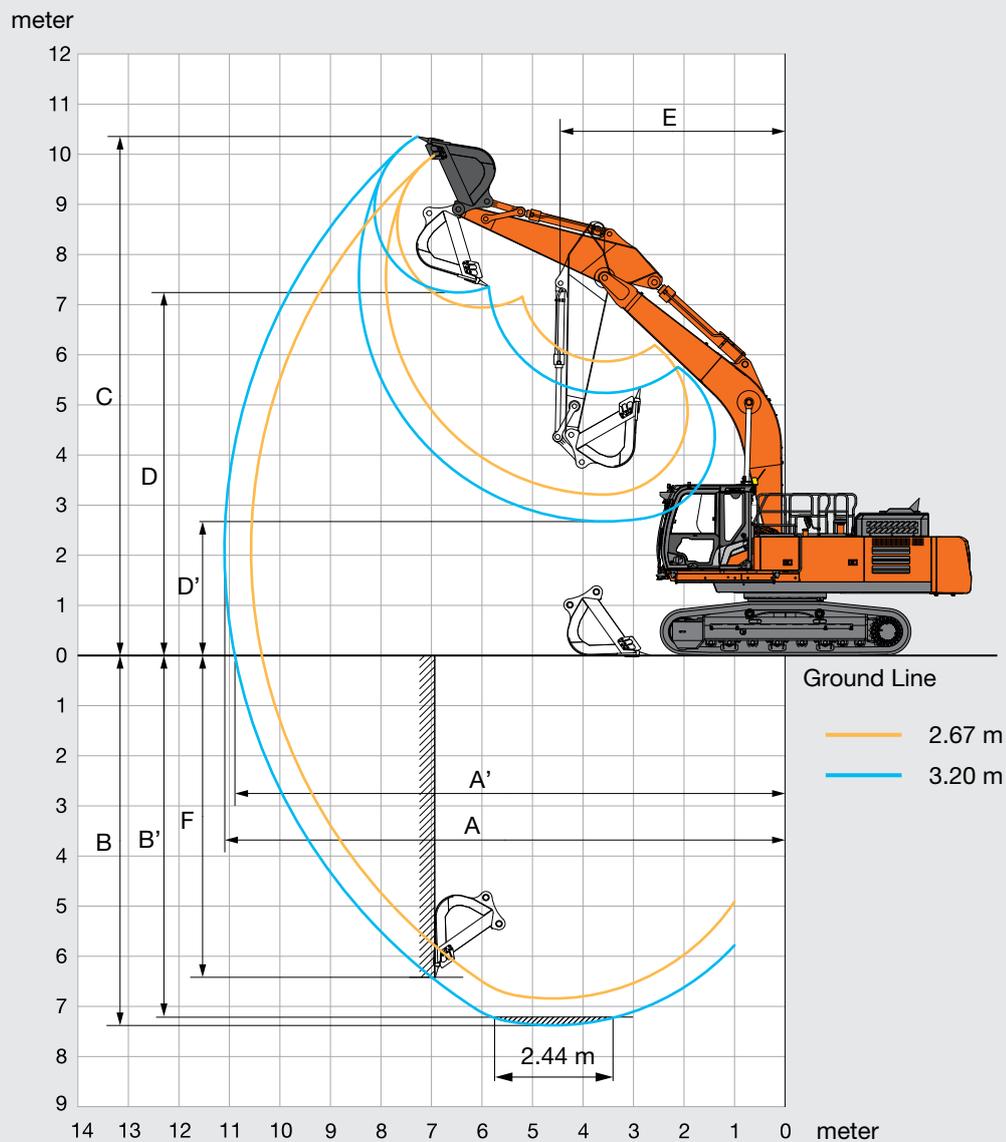


Width: 1 200 mm
Weight: 2 270 kg

SPECIFICATIONS

ZX350LC-7 MONOBLOCK BOOM

WORKING RANGES: MONOBLOCK BOOM



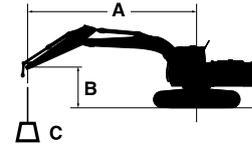
Unit: mm

	ZX350LC-7 / ZX350LCN-7	
	Monoblock boom	
Arm length	2.67 m	3.20 m
A Max. digging reach	10 570	11 100
A' Max. digging reach (on ground)	10 360	10 890
B Max. digging depth	6 840	7 380
B' Max. digging depth for 2.44 m level	6 640	7 210
C Max. cutting height	9 990	10 350
D Max. dumping height	6 940	7 240
D' Min. dumping height	3 210	2 680
E Min. swing radius	4 610	4 460
F Max. vertical wall digging depth	5 510	6 420

Excluding track shoe lug

SPECIFICATIONS

- 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.

ZX350LC-7 MONOBLOCK BOOM

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

Conditions	Load point height m	Load radius												At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		meter		
Boom 6.40 m Arm 2.67 m Counterweight 7 600 kg	6.0							*10 380	*10 380	*9 630	7 620			*9 530	6 840	8.00
	4.5					*14 950	*14 950	*11 710	10 350	10 150	7 420			*9 590	6 010	8.58
	3.0					*18 400	14 600	*13 280	9 790	10 900	7 150			8 670	5 590	8.87
	1.5							*14 520	9 340	10 910	6 910			8 520	5 460	8.89
	0 (Ground)					*20 280	13 620	14 950	9 080	10 730	6 750			8 780	5 590	8.65
	-1.5			*13 880	*13 880	*19 350	13 650	*14 730	9 020	10 690	6 710			9 570	6 070	8.13
	-3.0			*22 260	*22 260	*17 270	13 860	*13 330	9 130					*10 430	7 140	7.26
	-4.5			*16 930	*16 930	*13 410	*13 410							*9 960	9 770	5.88
Boom 6.40 m Arm 3.20 m Counterweight 7 600 kg	6.0									*8 960	7 730			*6 280	6 160	8.58
	4.5							*10 950	10 520	*9 600	7 500	*7 450	5 610	*6 310	5 480	9.12
	3.0					*17 160	15 000	*12 640	9 940	*10 460	7 210	8 510	5 490	*6 530	5 130	9.39
	1.5					*19 680	14 050	*14 090	9 430	10 950	6 930	8 360	5 350	*6 970	5 010	9.42
	0 (Ground)					*20 440	13 650	*14 900	9 110	10 730	6 730	8 260	5 260	*7 730	5 110	9.19
	-1.5			*13 310	*13 310	*19 910	13 580	14 830	8 980	10 630	6 650			8 640	5 490	8.70
	-3.0	*15 620	*15 620	*21 060	*21 060	*18 270	13 710	*13 930	9 020	10 690	6 710			*9 840	6 300	7.90
	-4.5			*19 950	*19 950	*15 140	14 050	*11 400	9 270					*9 700	8 100	6.66

ZX350LCN-7 MONOBLOCK BOOM

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

Conditions	Load point height m	Load radius												At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		meter		
Boom 6.40 m Arm 2.67 m Counterweight 7 600 kg	6.0							*10 370	10 020	*9 630	7 050			*9 530	6 330	8.00
	4.5					*14 950	14 540	*11 710	9 540	10 150	6 860			9 250	5 550	8.58
	3.0					*18 400	13 280	*13 280	8 970	10 900	6 590			8 650	5 150	8.87
	1.5							*14 520	8 550	10 890	6 350			8 500	5 020	8.89
	0 (Ground)					*20 280	12 340	14 910	8 310	10 710	6 190			8 760	5 140	8.65
	-1.5			*13 880	*13 880	*19 350	12 370	*14 720	8 240	10 670	6 160			9 550	5 580	8.13
	-3.0			*22 260	*22 260	*17 270	12 570	*13 330	8 350					*10 430	6 560	7.26
	-4.5			*16 930	*16 930	*13 410	12 990							*9 960	8 960	5.88
Boom 6.40 m Arm 3.20 m Counterweight 7 600 kg	6.0									*8 960	7 160			*6 280	5 700	8.58
	4.5							*10 950	9 710	*9 600	6 940	*7 450	5 180	*6 310	5 060	9.12
	3.0					*17 160	13 680	*12 640	9 140	*10 460	6 650	8 490	5 060	*6 530	4 730	9.39
	1.5					*19 680	12 760	*14 090	8 640	10 930	6 380	8 340	4 930	*6 970	4 610	9.42
	0 (Ground)					*20 440	12 370	*14 900	8 330	10 700	6 180	8 240	4 840	*7 730	4 700	9.19
	-1.5			*13 310	*13 310	*19 910	12 300	14 800	8 200	10 610	6 100			8 620	5 040	8.70
	-3.0	*15 620	*15 620	*21 060	*21 060	*18 270	12 430	*13 930	8 250	10 670	6 160			*9 840	5 790	7.90
	-4.5			*19 950	*19 950	*15 140	12 760	*11 400	8 490					*9 700	7 440	6.66

EQUIPMENT

ZX350LC-7 30 m

● Standard equipment ○ Optional equipment

ENGINE

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 inlet strainer and extension filter	●
DEF/AdBlue® tank	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
Dust-proof indoor net	●
ECO/PWR 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

Additional pump (30 L/min)	●
Auto power lift	●
ConSite OIL(sensor)*	●
Control valve with main relief valve	●
High mesh full flow filter	●
High mesh full flow filter with restriction indicator	○
Hose rupture valve for arm	●
Hose rupture valve for boom	●
Pilot filter	●
Power boost	●
Suction filter	●
Swing dampener valve	●
Two extra port for control valve	●
Reliefvalve for telescopic arm	●
Work mode selector	●

CAB

All-weather sound suppressed steel cab	●
Auto control air conditioner	●
AUX function lever (assist)	●
Bluetooth® integrated DAB+radio	●
Cab with P5A glass and roof wiper	○
Console height adjustment	●
CRES VII (Center pillar reinforced structure) cab	●
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 window washer (2 points)	●
Glove compartment	●
Hands-free calling device	●
Hot and cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
Laminated round glass window	○
LED room light	●
Level gauge	●
Magazine rack	●
OPG top guard Level I (ISO 10262 : 1998) compliant	●
OPG top guard Level II (ISO 10262 : 1998) compliant	○
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	●
ROPS (ISO 12117-2 : 2008) compliant cab	●
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	●
Sliding cab	●
Smartphone holder	●
Sunscreen roller type (multi-use front or side and rear window)	○
Transparent roof with slide curtain	●
USB power supply	●
Wide view wiper	●
Windows on front, upper, lower and left side can be opened	●
Zoom camera monitor	○
2 speakers	●
4 fluid-filled elastic mounts	●
8 inch monitor	●

MONITOR SYSTEM

Alarms:	
overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble etc	●
Alarm buzzers:	
overheat, engine oil pressure, overload, SCR system trouble	●
Display of clamshell mode:	
Abnormal rope alarm, Bucket landing alarm, boom down alarm, telescopic arm verticality indicator	●
Display of meters:	
water temperature, hour, telescopic arm operation hour, fuel rate, clock, DEF/AdBlue® rate	●
Other displays:	
work mode, auto-idle, glow, rearview monitor, operating conditions, etc	●
35 languages selection	●

LIGHTS

Additional boom LED light with cover	○
Additional cab roof front LED lights	○
Additional cab roof rear LED lights	○
Additional LED light on sliding cab	○
LED lights for camera (side and rear view camera)	○
Rotating lamp	○
2 working LED lights	●

UPPER STRUCTURE

Additional counterweight 4 250 kg	●
Aerial Angle® (270-degree view camera system)	●
Batteries 2 x 135 Ah	●
Body top handrail	●
Counterweight 7 600 kg	●
Electric fuel refilling pump with auto stop and filter	●
Electric grease gun	●
Fuel level float	●
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Lockable tool box	●
Platform handrail	●
Sidewalk for sliding cab	●
Side view mirror (right and left)	●
Skid-resistant plates	●
Swing parking brake	●
Undercover	●
Utility space	●
2 way disconnect switch	●

UNDERCARRIAGE

Bolt-on sprocket	●
Greasing type track adjuster	●
Reinforced track links with pin seals	●
Shoes : 600 mm triple grouser	●
Step for sliding cab	●
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	●

FRONT ATTACHMENTS

Backhoe arm**	○
Clamshell bucket 1.4 m³ with rotating device for ZX350LC-7	●
Clamshell bucket 1.15 m³ with rotating device for ZX350LCN-7	●
Telescopic arm (30 m)	●

ATTACHMENTS

Telescopic arm piping	●
Pilot accumulator	●

MISCELLANEOUS

ConSite	○
Global e-Service	●
Onboard information controller	●
Standard tool kit	●
Zoom camera	○

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

*Engine oil and hydraulic oil monitoring sensor.

**Caution when using backhoe arm:

- For light digging only.
- The hydraulic circuit is used exclusively for the CTA, therefore attachments cannot be used.



ZX350LC-7 CTA 25 m



ZX350LC-7 CTA 25 m

SPECIFICATIONS

ZX350LC-7 25 m

ENGINE

Model	Isuzu 6HK1X
Type	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment	DOC+CSF+SCR system
No. of cylinders	6
Rated power	
ISO 14396 : 2002	210 kW at 1 900 min ⁻¹
ISO 9249 : 2007	202 kW at 1 900 min ⁻¹
Maximum torque	1 080 Nm at 1 500 min ⁻¹
Piston displacement	7.790 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 288 L/min
.....	1 x 260 L/min
Pilot pump	1 gear pump
Maximum oil flow	36.8 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

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

CONTROLS

Pilot controls. Hitachi's original shockless valve.	
Implement levers	2
Travel levers.....	2
Telescopic arm control pedal	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	6.9 min ⁻¹ (with telescopic arm)
.....	9.7 min ⁻¹ (with backhoe arm)
Swing torque	120 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 5.0 km/h
.....	Low : 0 to 3.2 km/h

Maximum traction force	298 kN
-----------------------------	--------

Gradeability	27% (15 degree) continuous (with telescopic arm)
.....	70% (35 degree) continuous (with backhoe arm)

WEIGHTS AND GROUND PRESSURE

Model	Shoe type	Shoe width	Operating weight	Ground pressure
ZX350LC-7*1	Triple grouser	600 mm	43 500 kg	81 kPa
ZX350LCN-7*2	Triple grouser	600 mm	43 400 kg	81 kPa

*1 Equipped 1.30 m³ clamshell bucket without rotating device. (2 000 kg) (ISO 6015 : 2006 heaped).

*2 Equipped 1.15 m³ clamshell bucket without rotating device. (1 970 kg) (ISO 6015 : 2006 heaped).

ENVIRONMENT

Engine Emissions

EU Stage V

Sound level in cab according to ISO 6396 : 2008 LpA 71 dB(A)

External sound level according to ISO 6395 : 2008 and

EU Directive 2000/14/EC LwA 105 dB(A)

Air Conditioning System

The air conditioning system contains fluorinated greenhouse gases.

Refrigerant type: HFC-134a, GWP: 1430, Amount: 1.10 kg, CO₂e: 1.57 ton.

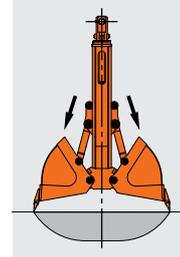
SERVICE REFILL CAPACITIES

Fuel tank	630.0 L
Engine coolant	48.0 L
Engine oil	48.0 L
Swing device	15.7 L
Travel device (each side)	11.0 L
Hydraulic system	340.0 L
Hydraulic oil tank	198.0 L
DEF/AdBlue® tank	70.0 L

CLAMSHELL BUCKET

Model	ZX350LC-7	ZX350LCN-7
Bucket type	HE-CB130FT	HE-CB115FT
Bucket capacity m ³	1.30	1.15
Weight kg	2 000	1 970

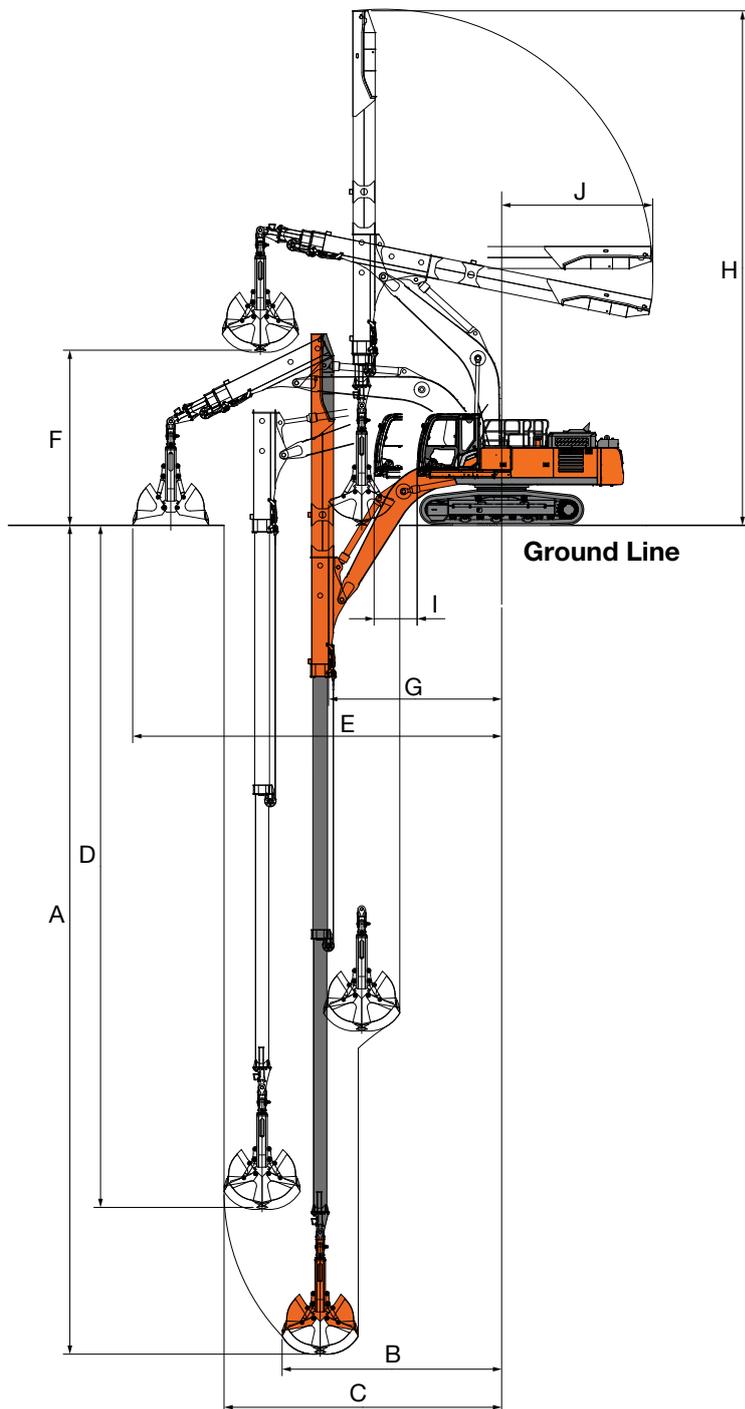
Shell push type



SPECIFICATIONS

ZX350LC-7 25 m

WORKING RANGES



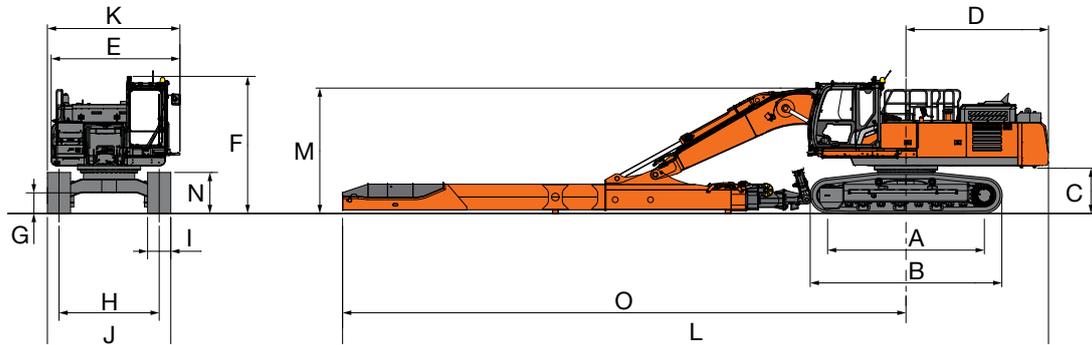
Unit: mm

Model	ZX350LC-7
Telescopic arm system	Hydraulic cylinder + wire rope
A Max. vertical digging depth	25 200
B Radius at max. vertical digging depth	6 630
C Max. vertical digging radius	8 380
D Depth at max. vertical digging radius	20 750
E Max. working radius	11 140
F Max. dumping height	5 330
G Min. front swing radius	5 230
H Height at min. front swing radius	15 660
I Cab sliding distance	1 300
J Front rear radius	4 570

SPECIFICATIONS

ZX350LC-7 25 m

DIMENSIONS



Unit: mm

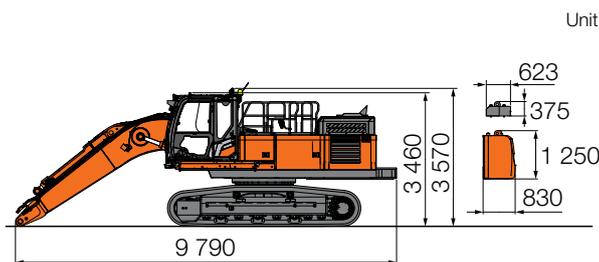
	ZX350LC-7	ZX350LCN-7
A Distance between tumblers	4 050	4 050
B Undercarriage length	4 970	4 970
*C Counterweight clearance	1 160	1 160
D Rear-end swing radius	3 690	3 690
E Overall width of upperstructure	3 320 Folding the step: 3 090	3 320 Folding the step: 3 090
F Overall height of cab	3 570	3 570
*G Min. ground clearance	500	500
H Track gauge	2 590	2 390
I Track shoe width	G 600	G 600
J Undercarriage width	3 190	2 990
K Overall width	3 430 Folding the step: 3 160	3 330 Folding the step: 3 090
L Overall length	18 250	18 250
M Overall height of boom	3 270	3 270
N Track height with triple grouser shoes	1 070	1 070
O Swing centre to front distance	14 570	14 570

* Excluding track shoe lug G: Triple grouser shoe

TRANSPORTATION

	ZX350LC-7	ZX350LCN-7
Width:	Unfolding step, With step unfolded 3 430 mm Folding step, With step folded 3 160 mm	*2 990 mm
Weight: (With Sliding cab)	26 100 kg	26 000 kg

* Not including step and handrail



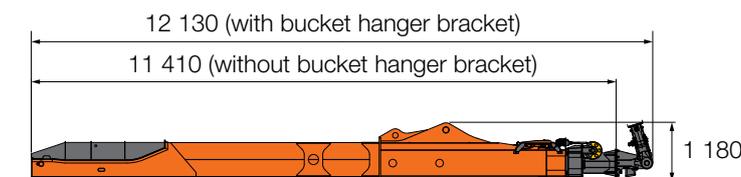
Unit: mm

	ZX350LC-7	ZX350LCN-7
Counterweight		
Width:	2 950 mm	2 950 mm
Weight:	7 600 kg	7 600 kg
Additional counterweight		
Width:	2 560 mm	2 560 mm
Weight:	2 200 kg	2 200 kg

Telescopic Arm

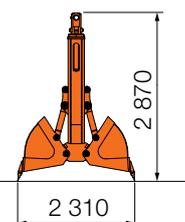
ZX350LC-7

Width: 7 60 mm
Weight: 5 660 kg



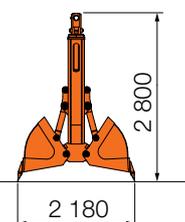
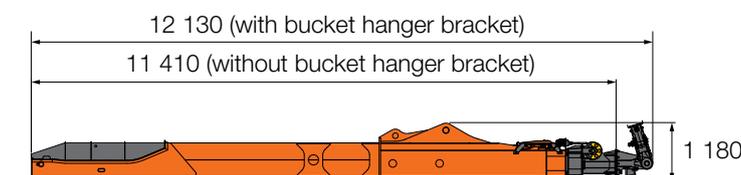
Clamshell Bucket

Width: 1 200 mm
Weight: 2 000 kg



ZX350LCN-7

Width: 7 60 mm
Weight: 5 660 kg

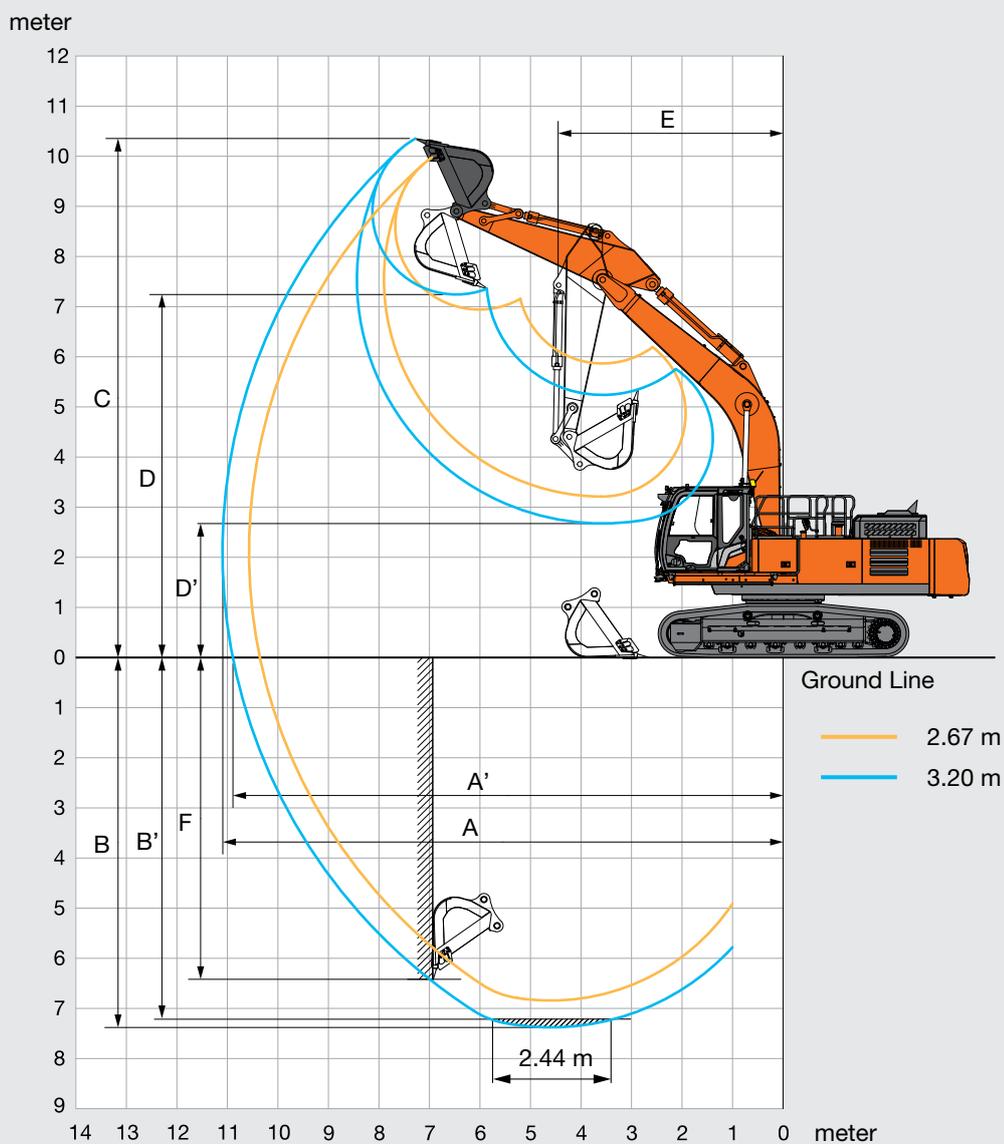


Width: 1 200 mm
Weight: 1 970 kg

SPECIFICATIONS

ZX350LC-7 MONOBLOCK BOOM

WORKING RANGES: MONOBLOCK BOOM



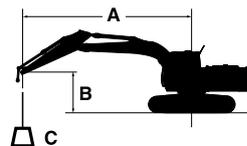
Unit: mm

	ZX350LC-7 / ZX350LCN-7	
	Monoblock boom	
Arm length	2.67 m	3.20 m
A Max. digging reach	10 570	11 100
A' Max. digging reach (on ground)	10 360	10 890
B Max. digging depth	6 840	7 380
B' Max. digging depth for 2.44 m level	6 640	7 210
C Max. cutting height	9 990	10 350
D Max. dumping height	6 940	7 240
D' Min. dumping height	3 210	2 680
E Min. swing radius	4 610	4 460
F Max. vertical wall digging depth	5 510	6 420

Excluding track shoe lug

SPECIFICATIONS

- 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.

ZX350LC-7 MONOBLOCK BOOM

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

Conditions	Load point height m	Load radius												At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		meter		
Boom 6.40 m Arm 2.67 m Counterweight 7 600 kg	6.0							*10 380	*10 380	*9 630	7 620			*9 530	6 840	8.00
	4.5					*14 950	*14 950	*11 710	10 350	10 150	7 420			*9 590	6 010	8.58
	3.0					*18 400	14 600	*13 280	9 790	10 900	7 150			8 670	5 590	8.87
	1.5							*14 520	9 340	10 910	6 910			8 520	5 460	8.89
	0 (Ground)					*20 280	13 620	14 950	9 080	10 730	6 750			8 780	5 590	8.65
	-1.5			*13 880	*13 880	*19 350	13 650	*14 730	9 020	10 690	6 710			9 570	6 070	8.13
	-3.0			*22 260	*22 260	*17 270	13 860	*13 330	9 130					*10 430	7 140	7.26
	-4.5			*16 930	*16 930	*13 410	*13 410							*9 960	9 770	5.88
Boom 6.40 m Arm 3.20 m Counterweight 7 600 kg	6.0									*8 960	7 730			*6 280	6 160	8.58
	4.5							*10 950	10 520	*9 600	7 500	*7 450	5 610	*6 310	5 480	9.12
	3.0					*17 160	15 000	*12 640	9 940	*10 460	7 210	8 510	5 490	*6 530	5 130	9.39
	1.5					*19 680	14 050	*14 090	9 430	10 950	6 930	8 360	5 350	*6 970	5 010	9.42
	0 (Ground)					*20 440	13 650	*14 900	9 110	10 730	6 730	8 260	5 260	*7 730	5 110	9.19
	-1.5			*13 310	*13 310	*19 910	13 580	14 830	8 980	10 630	6 650			8 640	5 490	8.70
	-3.0	*15 620	*15 620	*21 060	*21 060	*18 270	13 710	*13 930	9 020	10 690	6 710			*9 840	6 300	7.90
	-4.5			*19 950	*19 950	*15 140	14 050	*11 400	9 270					*9 700	8 100	6.66

ZX350LCN-7 MONOBLOCK BOOM

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

Conditions	Load point height m	Load radius												At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		meter		
Boom 6.40 m Arm 2.67 m Counterweight 7 600 kg	6.0							*10 370	10 020	*9 630	7 050			*9 530	6 330	8.00
	4.5					*14 950	14 540	*11 710	9 540	10 150	6 860			9 250	5 550	8.58
	3.0					*18 400	13 280	*13 280	8 970	10 900	6 590			8 650	5 150	8.87
	1.5							*14 520	8 550	10 890	6 350			8 500	5 020	8.89
	0 (Ground)					*20 280	12 340	14 910	8 310	10 710	6 190			8 760	5 140	8.65
	-1.5			*13 880	*13 880	*19 350	12 370	*14 720	8 240	10 670	6 160			9 550	5 580	8.13
	-3.0			*22 260	*22 260	*17 270	12 570	*13 330	8 350					*10 430	6 560	7.26
	-4.5			*16 930	*16 930	*13 410	12 990							*9 960	8 960	5.88
Boom 6.40 m Arm 3.20 m Counterweight 7 600 kg	6.0									*8 960	7 160			*6 280	5 700	8.58
	4.5							*10 950	9 710	*9 600	6 940	*7 450	5 180	*6 310	5 060	9.12
	3.0					*17 160	13 680	*12 640	9 140	*10 460	6 650	8 490	5 060	*6 530	4 730	9.39
	1.5					*19 680	12 760	*14 090	8 640	10 930	6 380	8 340	4 930	*6 970	4 610	9.42
	0 (Ground)					*20 440	12 370	*14 900	8 330	10 700	6 180	8 240	4 840	*7 730	4 700	9.19
	-1.5			*13 310	*13 310	*19 910	12 300	14 800	8 200	10 610	6 100			8 620	5 040	8.70
	-3.0	*15 620	*15 620	*21 060	*21 060	*18 270	12 430	*13 930	8 250	10 670	6 160			*9 840	5 790	7.90
	-4.5			*19 950	*19 950	*15 140	12 760	*11 400	8 490					*9 700	7 440	6.66

EQUIPMENT

ZX350LC-7 25 m

● Standard equipment ○ Optional equipment

ENGINE

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 inlet strainer and extension filler	●
DEF/AdBlue® tank	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
Dust-proof indoor net	●
ECO/PWR 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

Auto power lift	●
ConSite OIL (sensor)*	●
Control valve with main relief valve	●
High mesh full flow filter	●
High mesh full flow filter with restriction indicator	○
Hose rupture valve for arm	●
Hose rupture valve for boom	●
Pilot filter	●
Power boost	●
Suction filter	●
Swing dampener valve	●
Two extra port for control valve	●
Reliefvalve for telescopic arm	●
Work mode selector	●

CAB

All-weather sound suppressed steel cab	●
Auto control air conditioner	●
Bluetooth® integrated DAB+radio	●
Cab with P5A glass and roof wiper	○
Console height adjustment	●
CRES VII (center pillar reinforced structure) cab	●
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 window washer (2 points)	●
Glove compartment	●
Hands-free calling device	●
Hot and cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
Laminated round glass window	○
LED room light	●
Level gauge	●
Magazine rack	●
OPG top guard Level I (ISO 10262 : 1998) compliant	●
OPG top guard Level II (ISO 10262 : 1998) compliant	○
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	●
ROPS (ISO 12117-2 : 2008) compliant cab	●
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	●
Sliding cab	●
Smartphone holder	●
Sunscreen roller type (multi-use front or side and rear window)	○
Transparent roof with slide curtain	●
USB power supply	●
Wide view wiper	●
Windows on front, upper, lower and left side can be opened	●
Zoom camera monitor	○
2 speakers	●
4 fluid-filled elastic mounts	●
8 inch monitor	●

MONITOR SYSTEM

Alarms:	
overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble, etc	●
Alarm buzzers:	
overheat, engine oil pressure, overload, SCR system trouble	●
Display of clamshell mode:	
Abnormal rope alarm, Bucket landing alarm, telescopic arm full retracted alarm, boom down alarm, telescopic arm verticality indicator	●
Display of meters:	
water temperature, hour, telescopic arm operation hour, fuel rate, clock, DEF/AdBlue® rate	●
Other displays:	
work mode, auto-idle, glow, rearview monitor, operating conditions, etc	●
35 languages selection	●

LIGHTS

Additional boom LED light with cover	○
Additional cab roof front LED lights	○
Additional cab roof rear LED lights	○
Additional LED light on sliding cab	○
LED lights for camera (side and rear view camera)	○
Rotating lamp	○
2 working LED lights	●

UPPER STRUCTURE

Additional counterweight 2 200 kg	●
Aerial Angle® (270-degree view camera system)	●
Batteries 2 x 135 Ah	●
Body top handrail	●
Counterweight 7 600 kg	●
Electric fuel refilling pump with auto stop and filter	●
Electric grease gun	●
Fuel level float	●
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Lockable tool box	●
Platform handrail	●
Side walk for sliding cab	●
Side view mirror (right and left)	●
Skid-resistant plates	●
Swing parking brake	●
Undercover	●
Utility space	●
2 way disconnect switch	●

UNDERCARRIAGE

Bolt-on sprocket	●
Greasing type track adjuster	●
Reinforced track links with pin seals	●
Shoe: 600 mm triple grouser	●
Step for sliding cab	●
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	●

FRONT ATTACHMENTS

Backhoe arm**	○
Clamshell bucket 1.3 m³ for ZX350LC-7	●
Clamshell bucket 1.15 m³ for ZX350LCN-7	●
Telescopic arm (25m)	●

ATTACHMENTS

Telescopic arm piping	●
Pilot accumulator	●

MISCELLANEOUS

ConSite	○
Global e-Service	●
Onboard information controller	●
Standard tool kit	●
Zoom camera	○

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

*Engine oil and hydraulic oil monitoring sensor.

**Caution when using backhoe arm:

- For light digging only.
- The hydraulic circuit is used exclusively for the CTA, therefore attachments cannot be used.

Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

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, read and understand the Operator's Manual for proper operation.

