

ZX345USLC-7H SPECIFICATIONS

HITACHI

Reliable Solutions

LANDCROS

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	264 HP (197 kW) at 1 900 min ⁻¹
ISO 9249 : 2007 net	249 HP (186 kW) at 1 900 min ⁻¹
Maximum torque	774 lbf (1 050 Nm) at 1 500 min ⁻¹
Piston displacement	475.38 cu.in. (7.79 L)
Bore and stroke	4.5" x 4.9" (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 62 gal/min (236 L/min)		
	1 x 55 gal/min (211 L/min)		
Pilot pump	1 gear pump		
Maximum oil flow	9.2 gal/min (34.7 L/min)		
Hydraulic Motors			
Travel	2 variable displacement axial piston motors		
Swing	1 axial piston motor		
Relief Valve Settings			
Implement circuit	4 974.8 psi (34.3 MPa)		
Swing circuit	4 699.2 psi (32.4 MPa)		
Travel circuit	4 974.8 psi (34.3 MPa)		
Pilot circuit	565.6 psi (3.9 MPa)		
Power boost	5 511.4 psi (38.0 MPa)		
Hydraulic Cylinders			
	Quantity	Bore	Rod diameter
Boom	2	5.3" (135 mm)	3.9" (100 mm)
Arm	1	5.9" (150 mm)	4.1" (105 mm)
Bucket	1	5.3" (135 mm)	3.5" (90 mm)

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	10.5 min ⁻¹
Swing torque	66 749 lbf (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 2.5 mph (0 to 4.1 km/h)
	Low : 0 to 1.6 mph (0 to 2.6 km/h)
Maximum traction force	66 993 lbf (298 kN)
Gradeability	70% (35 degree) continuous

SERVICE REFILL CAPACITIES	
Fuel tank	100.3 gal (380.0 L)
Engine coolant	10.8 gal (41.0 L)
Engine oil	12.7 gal (48.0 L)
Swing device	3.1 gal (11.7 L)
Travel device (each side)	2.9 gal (11.0 L)
Hydraulic system	66.3 gal (251.0 L)
Hydraulic oil tank	42.2 gal (160.0 L)
DEF/AdBlue® tank	4.2 gal (16.0 L)

ENVIRONMENT	
Engine Emissions	EPA Final Tier 4 / EU Stage IV
Sounds Level	
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 104 dB(A)

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WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

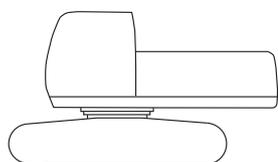
			ZX345USLC-7H *	
Boom type			Monoblock	
Shoe type	Shoe width (inch (mm))	Arm length (ft-in (m))	lb (kg)	psi (kPa)
Triple grouser	32" (800)	10'2" (3.11)	79 146 (35 900)	7.25 (50.0)
		12'4" (3.76)	79 366 (36 000)	7.40 (51.0)

* Including 1.63 yd³ (1.25 m³) (ISO 7451:2007 heaped) bucket weight (2 249 lb (1 020 kg)) and counterweight (19 136 lb (8 680 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.



		ZX345USLC-7H	
Shoe type	Shoe width (inch (mm))	Weight lb (kg)	Overall width (inch (mm))
Triple grouser	32" (800)	65 477 (29 700)	11' 1" (3 390)

Components Weight

Unit: lb (kg)

	ZX345USLC-7H
Counterweight	19 136 (8 680)
Monoblock boom (with arm cylinder and boom cylinder)	6 702 (3 040)
Arm 10' 2" (3.11 m) (with bucket cylinder)	3 395 (1 540)
Arm 12' 4" (3.76 m) (with bucket cylinder)	3 549 (1 610)
Bucket ISO 7451:2007 1.63 yd ³ (1.25 m ³)	2 249 (1 020)

BUCKET AND ARM DIGGING FORCE

Unit: lbf (kN)

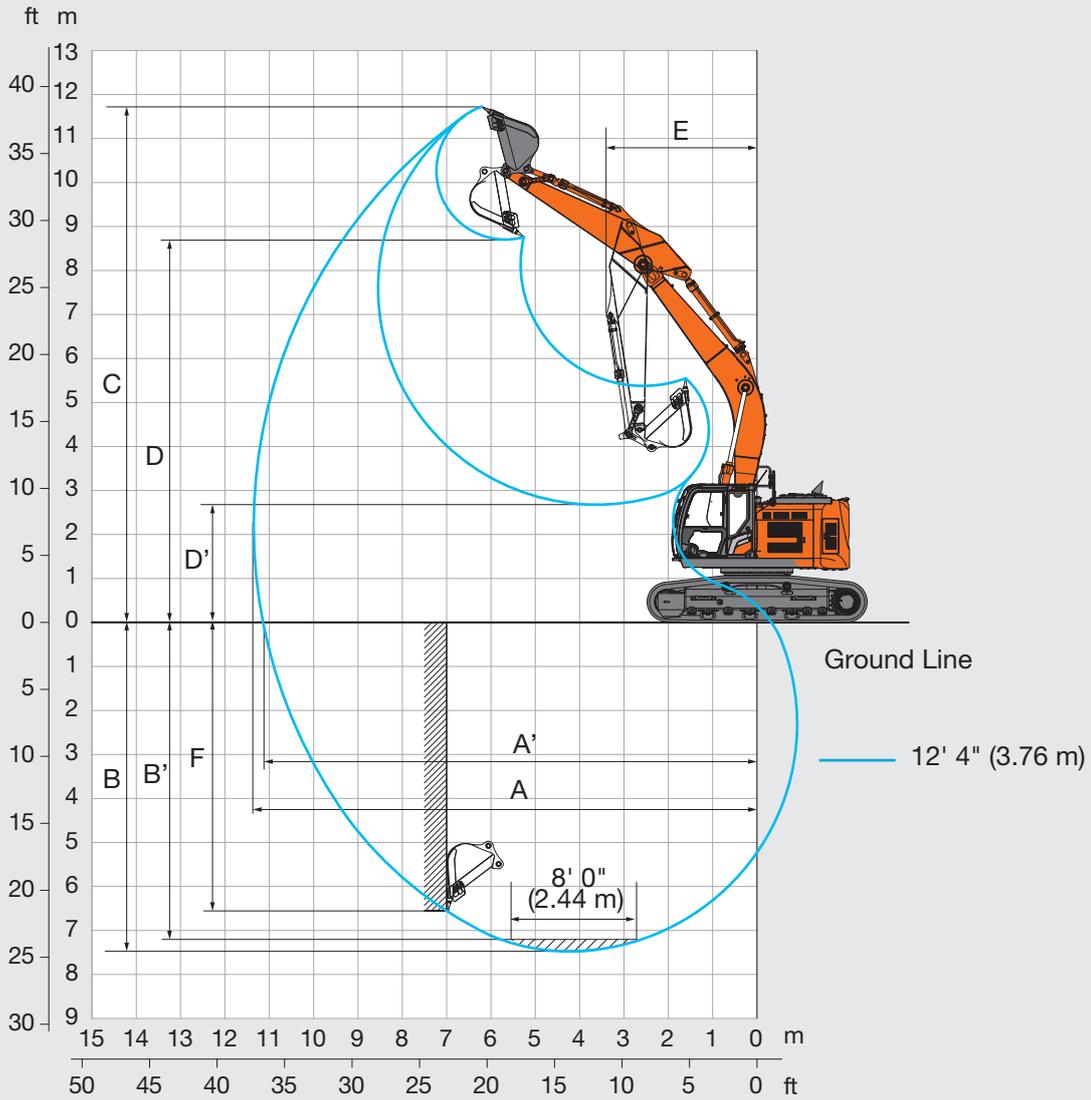
Arm length	ZX345USLC-7H	
	10' 2" (3.11 m)	12' 4" (3.76 m)
Bucket digging force ISO 6015 : 2006	45 411 (202)	45 411 (202)
Arm crowd force ISO 6015 : 2006	32 372 (144)	28 326 (126)

Calculated value at power boost

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WORKING RANGES



Unit: ft-in (mm)

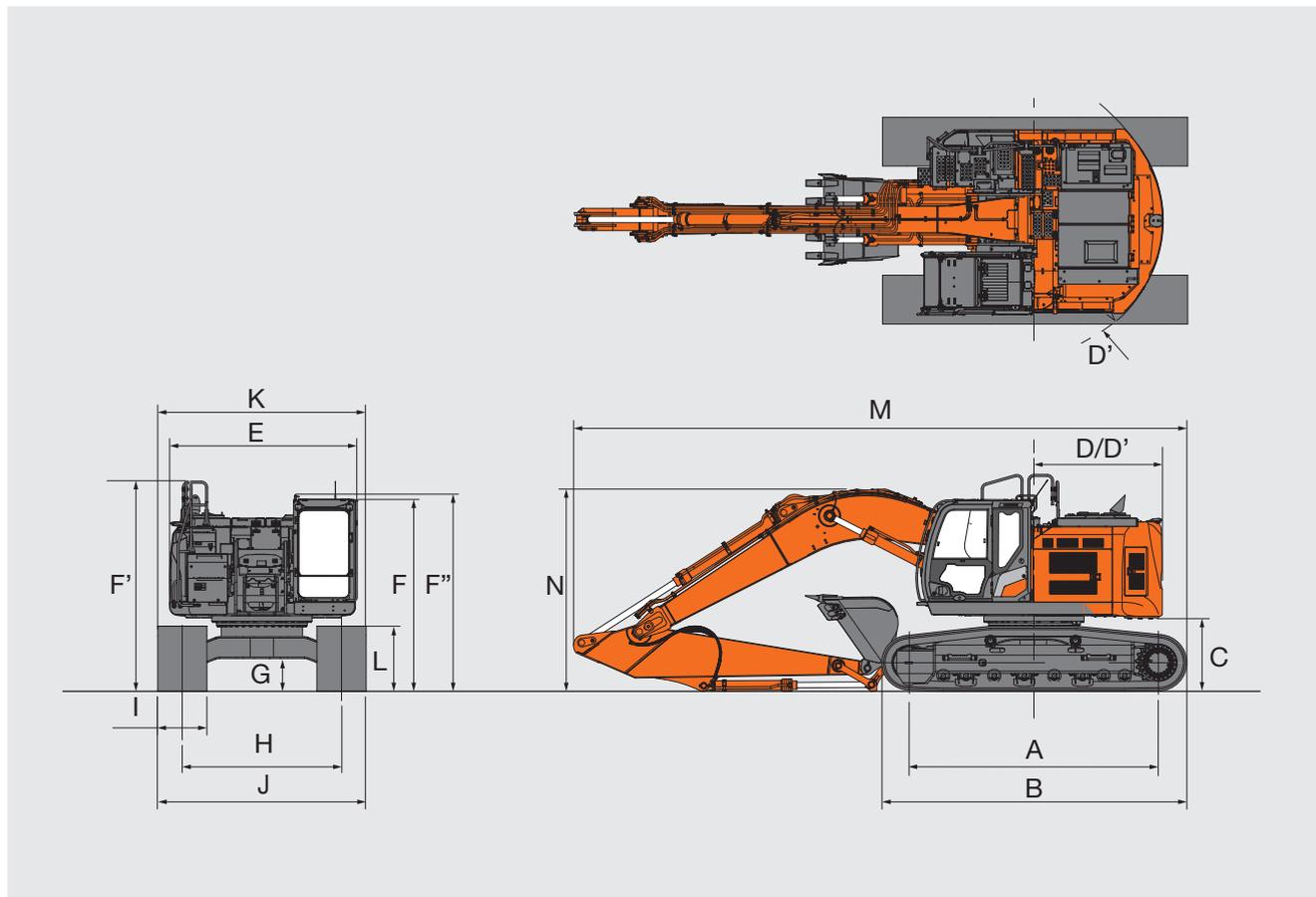
	ZX345USLC-7H	
	Monoblock boom	
Arm length	10' 2" (3.11 m)	12' 4" (3.76 m)
A Max. digging reach	35' 9" (10 900)	37' 7" (11 460)
A' Max. digging reach (on ground)	34' 11" (10 640)	36' 10" (11 220)
B Max. digging depth	22' 8" (6 920)	24' 10" (7 570)
B' Max. digging depth for 8' 0" (2.44 m) level	22' 1" (6 740)	24' 4" (7 410)
C Max. cutting height	37' 5" (11 410)	38' 4" (11 690)
D Max. dumping height	27' 6" (8 380)	28' 5" (8 670)
D' Min. dumping height	11' 3" (3 440)	9' 1" (2 780)
E Min. swing radius	11' 2" (3 400)	11' 1" (3 390)
F Max. vertical wall digging depth	20' 2" (6 140)	21' 6" (6 550)

Excluding track shoe lug

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DIMENSIONS



Unit: ft-in (mm)

		ZX345USLC-7H
		Monoblock boom
A	Distance between tumblers	13' 3" (4 050)
B	Undercarriage length	16' 4" (4 970)
*C	Counterweight clearance	3' 10" (1 160)
D	Rear-end swing radius	6' 10" (2 090)
D'	Rear-end length	6' 10" (2 090)
E	Overall width of upperstructure	10' 0" (3 050)
F	Overall height of cab	10' 4" (3 150)
F'	Overall height of handrail	11' 8" (3 560)
F''	Overall height of handrail (on cab)	10' 8" (3 230)
*G	Min. ground clearance	1' 8" (500)
H	Track gauge	8' 6" (2 590)
I	Track shoe width	G 2' 7" (800)
J	Undercarriage width	11' 1" (3 390)
K	Overall width	11' 1" (3 390)
*L	Track height with triple grouser shoes	3' 6" (1 070)
Overall length		
M	With Arm 10' 2" (3.11 m)	32' 9" (9 980)
	With Arm 12' 4" (3.76 m)	32' 9" (9 970)
Overall height of boom		
N	With Arm 10' 2" (3.11 m)	10' 12" (3 350)
	With Arm 12' 4" (3.76 m)	10' 11" (3 320)

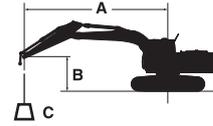
* Excluding track shoe lug G: Triple grouser shoe

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MACHINE CAPACITIES

ZX345USLC-7H

- 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 ft (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.

ZX345USLC-7H MONOBLOCK BOOM

Rating over-front Rating over-side or 360 degrees Unit : lb (kg)

Conditions	Load point height (ft (m))	Load radius												At max. reach		
		5 ft (1.5 m)		10 ft (3.0 m)		15 ft (4.5 m)		20 ft (6.0 m)		25 ft (7.5 m)		30 ft (9.0 m)		ft-in (meter)		
Boom 20' 4" (6.20 m) Arm 10' 2" (3.11 m) Counterweight 19 136 lb (8 680 kg)	25' (7.5)							*17 050 (*7 830)	*17 050 (*7 830)	(*5 660)	(*5 660)			*10 700 (*4 830)	*10 700 (*4 830)	24' 11" (7.68)
	20' (6.0)							*19 050 (*8 750)	*19 050 (*8 750)	*16 760 (*7 890)	13 430 (6 240)			*10 310 (*4 670)	*10 310 (*4 670)	27' 11" (8.54)
	15' (4.5)					*27 380 (*12 750)	*27 380 (*12 750)	*21 760 (*10 050)	18 320 (8 480)	*18 910 (*8 680)	13 060 (6 060)	(*5 160)	(4 540)	*10 360 (*4 700)	9 930 (4 480)	29' 8" (9.07)
	10' (3.0)					*34 400 (*16 010)	26 170 (12 110)	*24 970 (*11 550)	17 350 (8 030)	*20 470 (*9 420)	12 590 (5 830)	*13 480 (*7 020)	9 580 (4 440)	*10 790 (*4 900)	9 310 (4 220)	30' 6" (9.31)
	5' (1.5)					*36 110 (*15 010)	24 660 (11 430)	*27 550 (*12 730)	16 530 (7 650)	20 410 (9 470)	12 150 (5 630)	*14 750 (7 240)	9 370 (4 350)	*11 630 (*5 280)	9 140 (4 140)	30' 6" (9.30)
	0 (Ground)					*37 250 (*15 970)	24 060 (11 170)	27 980 (13 000)	16 030 (7 430)	20 060 (9 310)	11 840 (5 480)	(*6 330)	(4 280)	*13 090 (*5 930)	9 400 (4 260)	29' 8" (9.04)
	-5' (-1.5)			*24 250 (*10 720)	*24 250 (*10 720)	*37 420 (*17 240)	23 990 (11 140)	27 780 (*12 910)	15 850 (7 350)	19 950 (9 250)	11 730 (5 430)			*15 660 (*7 070)	10 230 (4 630)	27' 10" (8.49)
	-10' (-3.0)			*38 920 (*17 160)	*38 920 (*17 160)	*32 980 (*15 240)	24 280 (11 270)	*25 000 (*11 600)	15 990 (7 410)					*18 500 (*8 390)	12 050 (5 420)	24' 10" (7.60)
	-15' (-4.5)			*32 170 (*15 040)	*32 170 (*15 040)	*24 750 (*11 610)	*24 750 (11 580)	*17 440 (*8 420)	16 590 (7 660)					*17 290 (*7 890)	16 510 (7 330)	20' 1" (6.21)
Boom 20' 4" (6.20 m) Arm 12' 4" (3.76 m) Counterweight 19 136 lb (8 680 kg)	25' (7.5)									*12 080 (*5 740)	*12 080 (*5 740)			*8 530 (*3 850)	*8 530 (*3 850)	27' 2" (8.36)
	20' (6.0)							*15 380 (*7 040)	*15 380 (*7 040)	*14 530 (*6 730)	13 650 (6 340)	(*4 390)	(*4 390)	*8 280 (*3 750)	*8 280 (*3 750)	29' 11" (9.16)
	15' (4.5)					*22 730 (*10 860)	*22 730 (*10 860)	*19 850 (*9 160)	18 660 (8 650)	*17 490 (*8 070)	13 240 (6 140)	*12 320 (*6 010)	9 890 (4 600)	*8 340 (*3 780)	*8 340 (*3 780)	31' 7" (9.65)"
	10' (3.0)					*31 350 (*14 580)	26 930 (12 470)	*23 340 (*10 790)	17 640 (8 170)	*19 380 (*8 920)	12 710 (5 890)	*15 060 (*7 270)	9 630 (4 470)	*8 680 (*3 940)	8 520 (3 850)	32' 5" (9.88)
	5' (1.5)					*37 060 (*17 170)	25 070 (11 620)	*26 420 (*12 210)	16 700 (7 730)	20 480 (9 500)	12 200 (5 650)	15 620 (7 250)	9 360 (4 340)	*9 320 (*4 230)	8 350 (3 780)	32' 5" (9.87)
	0 (Ground)			*14 470 (*6 380)	*14 470 (*6 380)	*39 280 (*17 240)	24 110 (11 190)	28 030 (*13 030)	16 050 (7 440)	20 040 (9 300)	11 800 (5 470)	15 400 (7 140)	9 160 (4 240)	*10 410 (*4 720)	8 530 (3 870)	31' 7" (9.62)
	-5' (-1.5)	*15 830 (*7 100)	*15 830 (*7 100)	*22 770 (*10 080)	*22 770 (*10 080)	*38 550 (*17 780)	23 810 (11 060)	27 670 (12 860)	15 740 (7 290)	19 810 (9 190)	11 600 (5 370)	(*6 530)	(4 210)	*12 240 (*5 530)	9 160 (4 150)	29' 10" (9.11)
	-10' (-3.0)	*24 400 (*10 900)	*24 400 (*10 900)	*33 570 (*14 830)	*33 570 (*14 830)	*35 300 (*16 310)	23 930 (11 110)	*26 430 (*12 230)	15 740 (7 290)	19 850 (9 200)	11 630 (5 380)			*15 670 (*7 040)	10 510 (4 740)	27' 1" (8.29)
	-15' (-4.5)			*39 500 (*18 400)	*39 500 (*18 400)	*28 900 (*13 470)	24 440 (11 340)	*21 490 (*10 090)	16 090 (7 440)					*17 410 (*7 910)	13 490 (6 020)	22' 10" (7.04)

SPECIFICATIONS

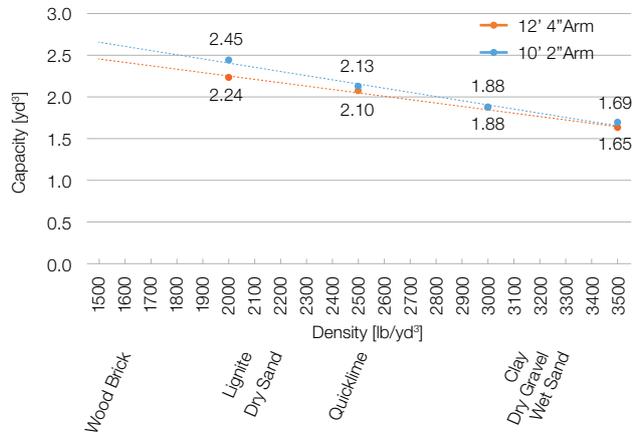
ZX345USLC-7H

ZX345USLC-7H BUCKET SELECTION

The buckets recommended for installation on this machine are representative only. Actual weights and dimensions should be used to determine acceptability.

* Optional equipment such as Thumb and Coupler are not included.

	Bucket						Arm Length		
	Width		Capacity		Weight		12' 4"	10' 2"	
	in	mm	yd ³	m ³	kg	kg			
ZX345USLC-7H	30	762	1.65	1.26	2,500	1,134	●	-	
	30	762	1.69	1.29	3,200	1,451	-	●	
	36	914	1.65	1.26	2,500	1,134	●	-	
	36	914	1.69	1.29	3,200	1,451	-	●	
	42	1,067	1.65	1.26	2,500	1,134	●	-	
	42	1,067	1.69	1.29	3,200	1,451	-	●	
	48	1,219	1.88	1.44	2,640	1,197	◎	-	
	48	1,219	1.88	1.44	3,500	1,588	-	◎	
	54	1,372	2.10	1.61	3,000	1,361	○	-	
	54	1,372	2.13	1.63	3,800	1,724	-	○	
	60	1,524	2.24	1.71	3,800	1,724	▲	-	
	60	1,524	2.45	1.87	4,200	1,905	-	▲	
	Maximum load with pin-on (Bucket + Payload)						lb	8,280	9,140
							kg	3,750	4,140



- : Suitable for materials with density of 3,500 lb/yd³ (2,100 kg/m³) or less.
- ◎ : Suitable for materials with density of 3,000 lb/yd³ (1,800 kg/m³) or less.
- : Suitable for materials with density of 2,500 lb/yd³ (1,500 kg/m³) or less.
- ▲ : Suitable for materials with density of 2,000 lb/yd³ (1,200 kg/m³) or less.
- △ : Suitable for materials with density of 1,800 lb/yd³ (1,100 kg/m³) or less.
- : Suitable for materials with density of 1,500 lb/yd³ (900 kg/m³) or less.
- : Not applicable

Maximum load with pin-on (Bucket + Payload) complies with ISO 10567: 2007.

Using a bucket heavier or wider than recommended specifications may result in less than optimal performance, including reduced productivity, stability, reliability and component durability.

Improper use of the bucket to sweep, pry, twist or snag heavy loads will shorten the life of the boom and arm.

[Reference]

Example calculation for Maximum Load of 7,450 lb.

$$\begin{aligned}
 \text{Load with pin-on (Bucket + Payload)} &= \text{Bucket weight} + \text{Payload (Bucket capacity} \times \text{Material density)} \\
 &= 1,708 \text{ lb} + (1.36 \text{ yd}^3 \times 3,500 \text{ lb/yd}^3) \\
 &= 6,468 \text{ lb} < \text{Maximum Load } 7,450 \text{ lb} \text{ ---> OK}
 \end{aligned}$$

Example calculation for Maximum Load of 7,450 lb and Attachment (Thumb and coupler etc) weight of 1,800 lb.

$$\begin{aligned}
 \text{Load with pin-on (Bucket + Payload)} &= \text{Bucket weight} + \text{Payload (Bucket capacity} \times \text{Material density)} + \text{Attachment weight} \\
 &= 1,708 \text{ lb} + (1.36 \text{ yd}^3 \times 2,800 \text{ lb/yd}^3) + 1,800 \text{ lb} \\
 &= 7,316 \text{ lb} < \text{Maximum Load } 7,450 \text{ lb} \text{ ---> OK (Up to } 2,800 \text{ material density can be used)}
 \end{aligned}$$

EQUIPMENT

ZX345USLC-7H

● : Standard equipment ○ : Optional equipment

ENGINE	ZX-7H 345USLC
Aftertreatment device	●
Air cleaner double filters	●
Alternator 50 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 345USLC
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 345USLC
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 3 in. (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 345USLC
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 345USLC
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 345USLC
AERIAL ANGLE (270-degree view camera system)	●
Batteries 2 x 128 Ah	●
Body top handrail	●
Control pattern changer (ISO / BH)	●
Counterweight 19 136 lb (8 680 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	●

EQUIPMENT

ZX345USLC-7H

UNDERCARRIAGE	ZX-7H 345USLC
Bolt-on sprocket	●
Greasing type track adjuster	●
Reinforced track links with pin seals	●
Shoe: 32" (800 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	●

FRONT ATTACHMENTS	ZX-7H 345USLC
Arm 10' 2" (3.11 m)	○
Arm 12' 4" (3.76 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 resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●

ATTACHMENTS	ZX-7H 345USLC
Accessories for 2 speed selector	○
Additional pump (13.2 gal (50 L)/min)	○
Assist piping	○
Breaker and crusher piping	●
Breaker and crusher piping (Short piping)	○
Pilot accumulator	○
Quick coupler piping	○

QUICK LINKS	ZX345USLC-7H
Website's Product Page	

● : Standard equipment ○ : Optional equipment

MISCELLANEOUS	ZX-7H 345USLC
ConSite	○
Global e-Service	●
Onboard information controller	●
Satellite communication device	○
Standard tool kit	●
Travel alarm	●

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

* Engine oil and hydraulic oil monitoring sensor.