

# ZX490LC-7H SPECIFICATIONS

HITACHI

Reliable Solutions

LANCROS

ENGINE	
Model	Isuzu 6WG1
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	389 HP (290 kW) at 1 800 min <sup>-1</sup>
ISO 9249 : 2007 net	388 HP (289 kW) at 1 800 min <sup>-1</sup>
Maximum torque	1 431 lbf (1 940 Nm) at 1 350 min <sup>-1</sup>
Piston displacement	956.917 cu.in. (15.681 L)
Bore and stroke	5.8" x 6.1" (147 mm x 154 mm)
Batteries	2 x 12 V / 147 Ah

HYDRAULIC SYSTEM			
<b>Hydraulic Pumps</b>			
Main pumps	2 variable displacement axial piston pumps		
Maximum oil flow	2 x 102 gal/min (385 L/min)		
Pilot pump	1 gear pump		
Maximum oil flow	7.9 gal/min (30.0 L/min)		
<b>Hydraulic Motors</b>			
Travel	2 variable displacement axial piston motors		
Swing	2 axial piston motors		
<b>Relief Valve Settings</b>			
Implement circuit	4 626.7 psi (31.9 MPa)		
Swing circuit	4 119.1 psi (28.4 MPa)		
Travel circuit	5 119.8 psi (35.3 MPa)		
Pilot circuit	565.6 psi (3.9 MPa)		
Power boost	5 119.8 psi (35.3 MPa)		
<b>Hydraulic Cylinders</b>			
	Quantity	Bore	Rod diameter
Boom	2	6.7" (170 mm)	4.5" (115 mm)
Arm	1	7.5" (190 mm)	5.1" (130 mm)
Bucket	1	6.7" (170 mm)	4.7" (120 mm)

UPPERSTRUCTURE	
<b>Revolving Frame</b>	
D-section frame for resistance to deformation.	
<b>Swing Device</b>	
Axial piston motor with planetary reduction gear is bathed in oil. Swing parking brake is spring-set/hydraulic-released disc type.	
Swing speed	9.6 min <sup>-1</sup>
Swing torque	109 159 lbf (148.0 kNm)

UNDERCARRIAGE	
<b>Tracks</b>	
Track shoes with triple grousers made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.	
<b>Numbers of Rollers and Shoes on Each Side</b>	
Upper rollers	3
Lower rollers	9
Track shoes	53
Track guards	2
<b>Travel Device</b>	
Each track driven by axial piston motor through reduction gear for counterrotation of the tracks. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.	
Travel speeds	High : 0 to 3.4 mph (0 to 5.5 km/h)
	Low : 0 to 2.3 mph (0 to 3.7 km/h)
Maximum traction force	73 962 lbf (329 kN)
Gradeability	70% (35 degree) continuous

SERVICE REFILL CAPACITIES	
Fuel tank	178.2 gal (675.0 L)
Engine coolant	20.3 gal (77.0 L)
Engine oil	16.4 gal (62.0 L)
Swing device	1.7 gal (6.5 L)
Travel device (each side)	2.9 gal (11.0 L)
Hydraulic system	134.6 gal (510.0 L)
Hydraulic oil tank	81.8 gal (310.0 L)
DEF/AdBlue® tank	25.1 gal (95.0 L)

ENVIRONMENT	
Engine Emissions	EPA Final Tier 4 / EU Stage IV
<b>Sounds Level</b>	
Sound level in cab according to ISO 6396 : 2008	LpA 70 dB(A)
External sound level according to ISO 6395 : 2008 and EU Directive 2000/14/EC	LwA 107 dB(A)

# SPECIFICATIONS

## ZX490LC-7H

### WEIGHTS AND GROUND PRESSURE

#### Operating Weight and Ground Pressure

Bucket Capacity	Boom type	Arm type	Shoe grouser type	Shoe width	Operating weight	Ground pressure
ISO7451 : 2007 heaped( yd <sup>3</sup> (m <sup>3</sup> ))	(ft-in (m) )	(ft-in (m) )		inch (mm)	lb (kg)	psi (kPa)
2.7 (2.1) Rock bucket	22' 12" (7.0) H	11' 2" (3.4)	Triple	35" (900)	110 451 (50 100) <sup>*1</sup> 108 026 (49 000) <sup>*2</sup>	8.27 (57)
		12' 10" (3.9)	Triple	35" (900)	110 672 (50 200) <sup>*1</sup> 108 247 (49 100) <sup>*2</sup>	8.27 (57)

\*1 Variable Gauge Undercarriage

\*2 Fixed Undercarriage

### BUCKET AND ARM DIGGING FORCE

Unit: lbf (kN)

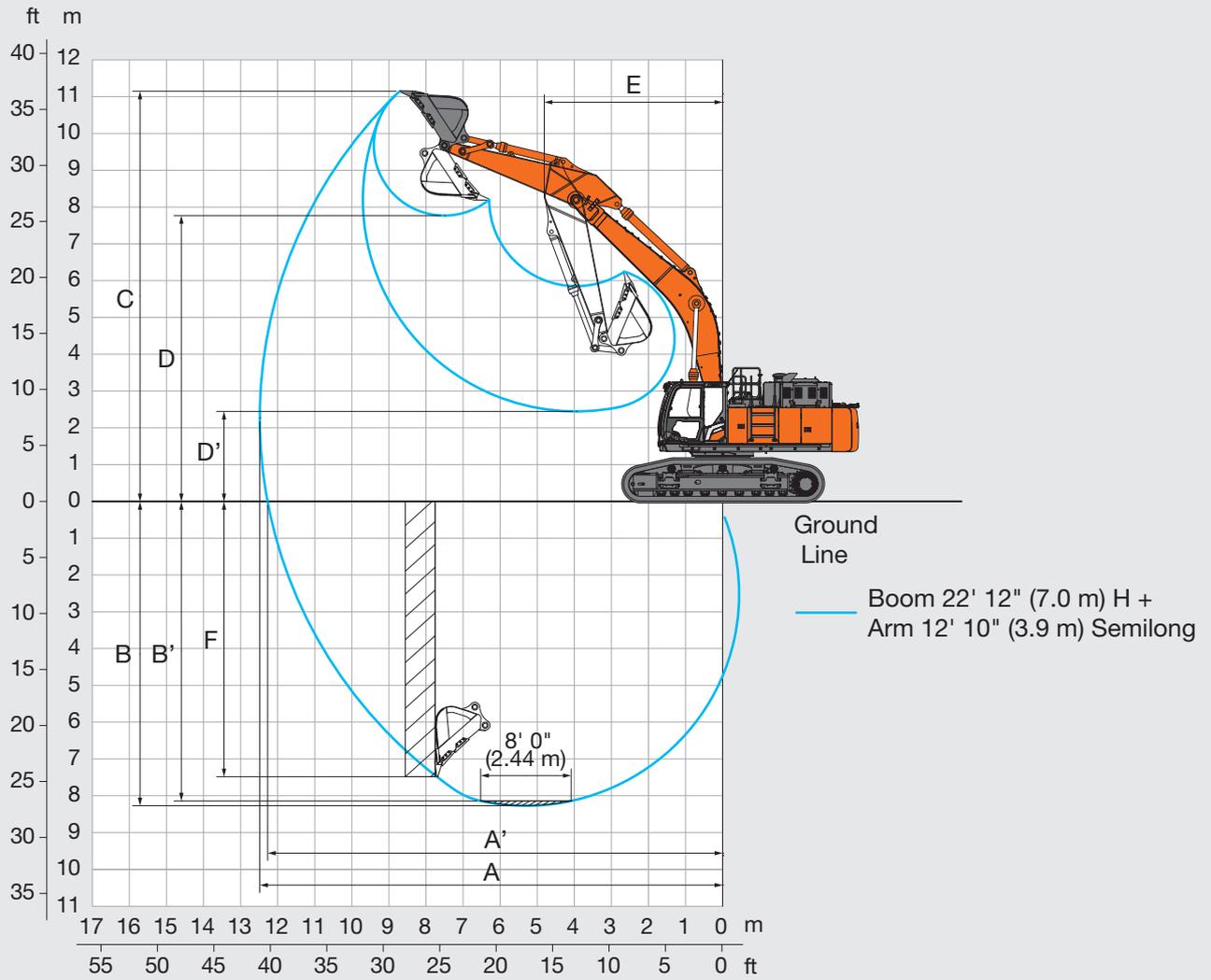
	ZX490LC-7H	
	Boom 22' 12" (7.0 m) H	Boom 22' 12" (7.0 m) H
Boom length		
Arm length	Arm 11' 2" (3.4 m) H	Arm 12' 10" (3.9 m) Semilong
Bucket digging force ISO 6015 : 2006	64 295 (286)	64 295 (286)
Arm crowd force ISO 6015 : 2006	50 582 (225)	45 187 (201)

Calculated value at power boost

# SPECIFICATIONS

## ZX490LC-7H

### WORKING RANGES



Unit: ft-in (mm)

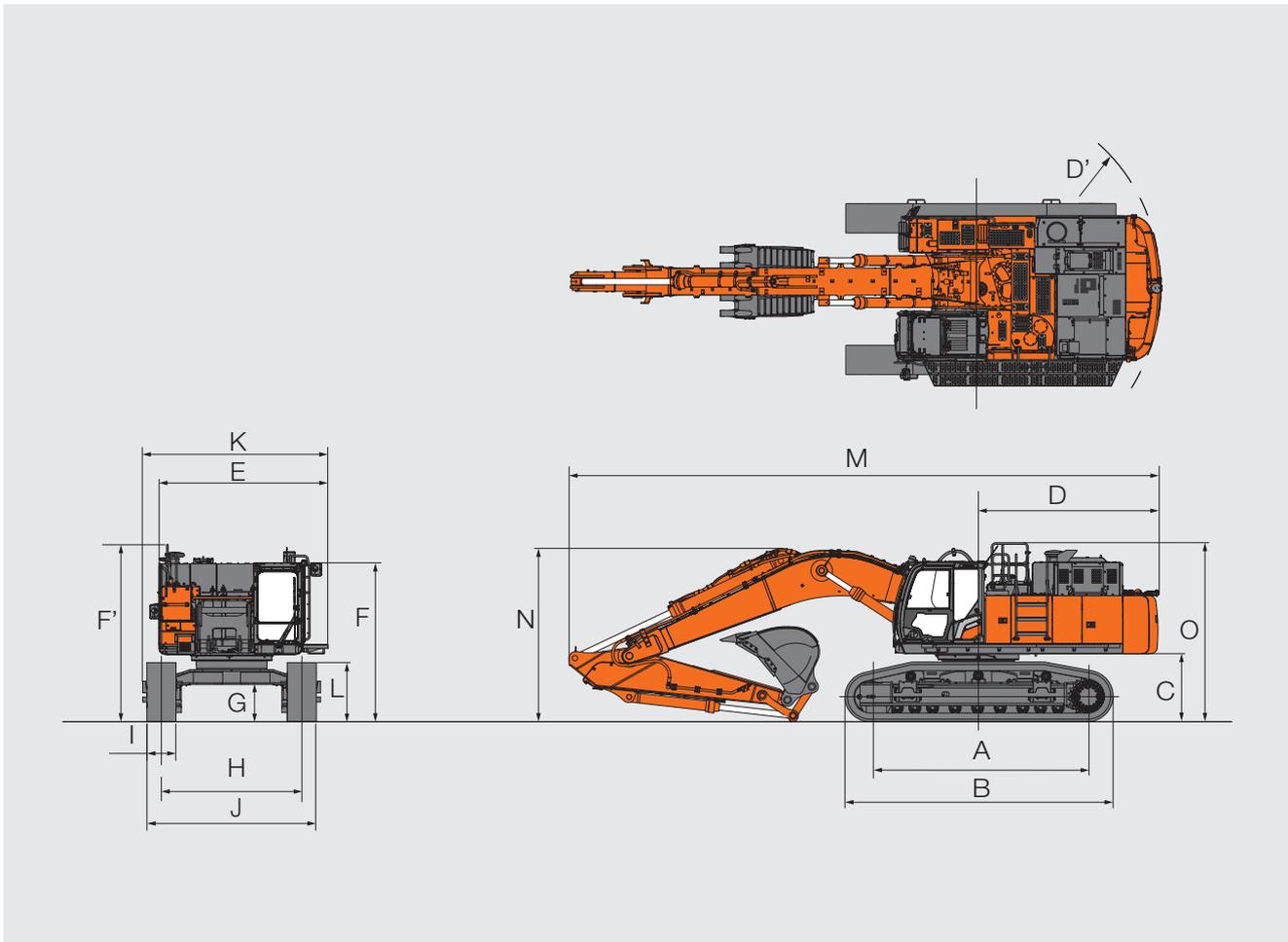
	ZX490LC-7H	
Boom length	Boom 22' 12" (7.0 m) H	Boom 22' 12" (7.0 m) H
Arm length	Arm 11' 2" (3.4 m) H	Arm 12' 10" (3.9 m) Semilong
A Max. digging reach	39' 4" (11 990)	40' 12" (12 480)
A' Max. digging reach (on ground)	38' 7" (11 770)	40' 3" (12 270)
B Max. digging depth	25' 3" (7 700)	27' 2" (8 270)
B' Max. digging depth for 8' 0" (2.44 m) level	24' 10" (7 560)	26' 8" (8 130)
C Max. cutting height	36' 0" (10 980)	36' 7" (11 160)
D Max. dumping height	25' 4" (7 720)	25' 6" (7 780)
D' Min. dumping height	9' 11" (3 020)	8' 0" (2 450)
E Min. swing radius	15' 11" (4 840)	15' 9" (4 810)
F Max. vertical wall digging depth	18' 6" (5 630)	24' 6" (7 480)

Excluding track shoe lug

# SPECIFICATIONS

## ZX490LC-7H

### DIMENSIONS



Unit: ft-in (mm)

	ZX490LC-7H <sup>2</sup>	
	Variable Gauge Undercarriage	Fixed Undercarriage
A Distance between tumbler	14' 8" (4 470)	14' 8" (4 470)
B Undercarriage length	17' 11" (5 470)	17' 11" (5 470)
<sup>*1</sup> C Min. ground clearance of the upper structure: Standard Counterweight / Removal Counterweight	4' 6" (1 360) / 3' 11" (1 200)	4' 2" (1 275) / 3' 8" (1 120)
D Rear-end swing radius	12' 1" (3 680)	12' 1" (3 680)
D' Rear-end length	12' 1" (3 680)	12' 1" (3 680)
E Overall width of upperstructure	11' 5" (3 480)	11' 5" (3 480)
F Overall height of cab	11' 0" (3 360)	10' 9" (3 275)
<sup>*1</sup> G Min. ground clearance	2' 5" (740)	2' 2" (655)
H Track gauge : Extended / Retracted	9' 6" (2 890) / 7' 10" (2 390)	8' 12" (2 740)
I Track shoe width	G 2' 11" (900)	G 2' 11" (900)
J Undercarriage width : Extended / Retracted	12' 5" (3 790) / 10' 10" (3 290)	11' 11" (3 640)
K Overall width	12' 6" (3 810)	12' 6" (3 810)
<sup>*1</sup> L Track height with triple grouser shoes	4' 0" (1 220)	4' 0" (1 220)
M' Overall length	39' 6" (12 030)	39' 5" (12 010)
N' Overall height of boom	11' 9" (3 570)	11' 5" (3 485)
O Overall height of base machine	12' 1" (3 680)	11' 8" (3 595)

<sup>\*1</sup> Excluding track shoe lug

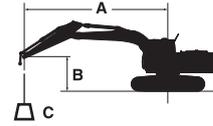
<sup>\*2</sup> Equipped with Boom 22' 12" (7.0 m) H and Arm 12' 10" (3.9 m) Semilong

G : Triple grouser shoe

# MACHINE CAPACITIES

## ZX490LC-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.

### ZX490LC-7H (Fixed Undercarriage)

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)		35 ft (10.5 m)		ft-in (meter)			
Boom 23' (7.0 m) H Arm 11' 2" (3.4 m) H Counterweight 20 100 lb (9 080 kg)	25' (7.5)									*25 340 (*11 550)	23 900 (11 070)					*17 020 (*7 670)	*17 020 (*7 670)	27' 11" (8.64)	
	20' (6.0)									*26 370 (*12 140)	23 450 (10 820)	*20 180 (*10 650)	17 340 (8 040)			*16 630 (*7 540)	*16 630 (7 440)	30' 7" (9.40)	
	15' (4.5)					*43 220 (*20 430)	*43 220 (*20 430)	*33 500 (*15 620)	31 690 (14 570)	*28 500 (*13 180)	22 640 (10 430)	*25 640 (*11 780)	17 020 (7 860)			*16 790 (*7 630)	15 040 (6 730)	32' 4" (9.89)	
	10' (3.0)					*53 240 (*25 000)	44 900 (20 590)	*38 270 (*17 830)	29 830 (13 700)	*31 020 (*14 370)	21 670 (9 970)	*26 840 (*12 370)	16 540 (7 630)			*17 430 (*7 940)	14 120 (6 350)	33' 2" (10.12)	
	5' (1.5)					*37 220 (*15 400)	*37 220 (*15 400)	*42 040 (*19 500)	28 280 (13 010)	*33 210 (*15 360)	20 790 (9 570)	26 840 (12 400)	16 060 (7 400)			*18 620 (*8 500)	13 800 (6 220)	33' 3" (10.13)	
	0 (Ground)					*41 560 (*18 140)	41 300 (*18 140)	*43 790 (*20 220)	27 350 (12 600)	*34 430 (*15 890)	20 160 (9 290)	26 450 (12 220)	15 710 (7 240)			*20 560 (*9 390)	14 020 (6 340)	32' 7" (9.91)	
	-5' (-1.5)				*28 500 (*13 050)	*28 500 (*13 050)	*56 360 (*24 980)	41 220 (19 090)	*43 300 (*19 920)	26 980 (12 450)	*34 190 (*15 750)	19 860 (9 160)	26 310 (12 160)	15 580 (7 180)			*23 720 (*10 830)	14 890 (6 750)	31' 1" (9.45)
	-10' (-3.0)				*47 300 (*21 450)	*47 300 (*21 450)	*51 940 (*23 760)	41 620 (19 280)	*40 440 (*18 570)	27 080 (12 510)	*31 870 (*14 680)	19 930 (9 190)					*26 170 (*11 860)	16 750 (7 590)	28' 8" (8.70)
	-15' (-4.5)				*54 910 (*25 000)	*54 910 (*25 000)	*43 650 (*19 950)	42 500 (19 690)	*34 320 (*15 760)	27 640 (12 770)							*25 430 (*11 520)	20 580 (9 320)	24' 11" (7.59)
	-20' (-6.0)																		
Boom 23' (7.0 m) H Arm 12' 10" (3.9 m) Semi-Long Counterweight 20 100 lb (9 080 kg)	25' (7.5)																*14 080 (*6 350)	*14 080 (*6 350)	29' 7" (9.13)
	20' (6.0)									*24 580 (*11 320)	23 560 (10 870)	*21 360 (*10 450)	17 380 (8 040)			*13 810 (*6 260)	*13 810 (*6 260)	32' 1" (9.86)	
	15' (4.5)							*31 170 (*14 540)	*31 170 (*14 540)	*26 830 (*12 410)	22 660 (10 440)	*24 230 (*11 140)	16 940 (7 820)			*13 960 (*6 350)	13 850 (6 200)	33' 9" (10.32)	
	10' (3.0)					*49 360 (*23 210)	45 560 (20 890)	*36 110 (*16 830)	29 920 (13 740)	*29 500 (*13 670)	21 580 (9 930)	*25 620 (*11 810)	16 370 (7 550)			*14 500 (*6 600)	13 010 (5 850)	34' 7" (10.55)	
	5' (1.5)					*49 630 (*20 430)	42 190 (19 420)	*40 320 (*18 720)	28 130 (12 930)	*31 940 (*14 780)	20 570 (9 470)	26 620 (12 300)	15 800 (7 280)			*15 460 (*7 050)	12 680 (5 720)	34' 8" (10.56)	
	0 (Ground)					*45 950 (*19 960)	40 680 (18 790)	*42 730 (*19 750)	26 950 (12 410)	*33 540 (*15 490)	19 810 (9 120)	26 120 (12 070)	15 350 (7 070)			*17 010 (*7 770)	12 840 (5 800)	34' 0" (10.35)	
	-5' (-1.5)				*28 860 (*13 140)	*28 860 (*13 140)	*55 660 (*24 600)	40 280 (18 640)	*42 990 (*19 800)	26 390 (12 180)	33 770 (*15 600)	19 380 (8 930)	25 860 (11 950)	15 120 (6 970)			*19 480 (*8 900)	13 540 (6 130)	32' 7" (9.91)
	-10' (-3.0)	*33 440 (*15 290)	*33 440 (*15 290)	*43 680 (*19 770)	*43 680 (*19 770)	*53 500 (*24 520)	40 530 (18 770)	*40 980 (*18 830)	26 350 (12 170)	*32 310 (*14 880)	19 330 (8 910)	*25 290 (*11 730)	15 210 (7 000)			*23 660 (*10 800)	15 050 (6 820)	30' 3" (9.20)	
	-15' (-4.5)			*60 990 (*27 840)	*60 990 (*27 840)	*46 430 (*21 260)	41 300 (19 130)	*36 120 (*16 600)	26 780 (12 370)	*27 820 (*12 870)	19 720 (9 090)					*24 680 (*11 190)	18 070 (8 180)	26' 10" (8.16)	
	-20' (-6.0)					*34 460 (*15 830)	*34 460 (*15 830)	*26 070 (*12 100)	*26 070 (*12 100)							*22 830 (*10 360)	*22 830 (*10 360)	21' 8" (6.62)	

# MACHINE CAPACITIES

## ZX490LC-7H

### ZX490LC-7H (Variable Gauge Undercarriage)

 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)		35 ft (10.5 m)		ft-in (meter)		
																		
Boom 23' (7.0 m) H Arm 11' 2" (3.4 m) H Counterweight 20 100 lb (9 080 kg)	25' (7.5)									*25 380 (*11 560)	*25 380 (*11 560)					*16 940 (*7 660)	*16 940 (*7 660)	28' 3" (8.69)
	20' (6.0)									*26 570 (*12 190)	25 160 (11 680)	*21 410 (*10 860)	18 690 (8 700)			*16 630 (*7 540)	*16 630 (*7 540)	30' 10" (9.44)
	15' (4.5)					*44 390 (*20 700)	*44 390 (*20 700)	*34 040 (*15 750)	34 000 (15 750)	*28 780 (*13 250)	24 310 (11 270)	*25 760 (*11 810)	18 340 (8 510)			*16 840 (*7 640)	16 120 (7 280)	32' 5" (9.91)
	10' (3.0)					*54 190 (*23 660)	48 600 (22 500)	*38 770 (*17 940)	32 110 (14 870)	*31 300 (*14 430)	23 330 (10 810)	*26 970 (*12 400)	17 840 (8 280)			*17 540 (*7 970)	15 240 (6 900)	33' 3" (10.13)
	5' (1.5)					*36 860 (*15 390)	*36 860 (*15 390)	*42 350 (*19 570)	30 610 (14 180)	*33 400 (*15 400)	22 460 (10 400)	27 360 (12 700)	17 370 (8 050)			*18 800 (*8 530)	14 970 (6 790)	33' 3" (10.12)
	0 (Ground)					*42 810 (*18 430)	*42 810 (*18 430)	*43 850 (*20 230)	29 730 (13 780)	*34 480 (*15 900)	21 860 (10 130)	26 990 (12 520)	17 030 (7 890)			*20 840 (*9 450)	15 300 (6 930)	32' 6" (9.89)
	-5' (-1.5)			*30 540 (*13 500)	*30 540 (*13 500)	*56 500 (*25 450)	45 270 (21 060)	*43 110 (*19 880)	29 410 (13 640)	*34 050 (*15 720)	21 590 (10 000)	26 880 (12 460)	16 940 (7 840)			*24 190 (*10 940)	16 340 (7 400)	30' 10" (9.42)
	-10' (-3.0)			*49 630 (*21 950)	*49 630 (*21 950)	*51 200 (*23 590)	45 730 (21 270)	*39 940 (*18 460)	29 560 (13 710)	*31 430 (*14 580)	21 700 (10 050)					*26 140 (*11 860)	18 510 (8 350)	28' 3" (8.65)
	-15' (-4.5)			*53 140 (*24 610)	*53 140 (*24 610)	*42 420 (*19 690)	*42 420 (*19 690)	*33 320 (*15 550)	30 200 (13 990)							*25 240 (*11 480)	23 050 (10 310)	24' 5" (7.52)
	-20' (-6.0)																	
Boom 23' (7.0 m) H Arm 12' 10" (3.9 m) Semi-Long Counterweight 20 100 lb (9 080 kg)	25' (7.5)															*14 020 (*6 340)	*14 020 (*6 340)	29' 11" (9.18)
	20' (6.0)									*24 790 (*11 370)	*24 790 (*11 370)	*22 020 (*10 580)	18 710 (8 700)			*13 810 (*6 260)	*13 810 (*6 260)	32' 4" (9.90)
	15' (4.5)							*31 720 (*14 670)	*31 720 (*14 670)	*27 120 (*12 480)	24 320 (11 280)	*24 380 (*11 180)	18 250 (8 480)			*14 000 (*6 360)	*14 000 (*6 360)	33' 11" (10.34)
	10' (3.0)					*50 400 (*23 440)	49 220 (22 800)	*36 640 (*16 950)	32 190 (14 910)	*29 800 (*13 730)	23 230 (10 760)	*25 780 (*11 850)	17 670 (8 200)		(*7 180) (6 430)	*14 580 (*6 620)	14 070 (6 370)	34' 7" (10.56)
	5' (1.5)					*47 930 (*20 160)	46 000 (*20 160)	*40 690 (*18 810)	30 430 (14 100)	*32 170 (*14 840)	22 220 (10 300)	*27 070 (*12 460)	17 100 (7 930)		(*7 680) (6 300)	*15 600 (*7 080)	13 800 (6 250)	34' 8" (10.55)
	0 (Ground)					*46 590 (*20 120)	44 620 (*20 120)	*42 870 (*19 780)	29 310 (13 590)	*33 650 (*15 520)	21 490 (9 960)	26 640 (12 360)	16 670 (7 730)			*17 240 (*7 810)	14 030 (6 360)	33' 11" (10.33)
	-5' (-1.5)			*30 420 (*13 480)	*30 420 (*13 480)	*57 170 (*24 940)	44 300 (20 600)	*42 880 (*19 780)	28 800 (13 360)	*33 760 (*15 580)	21 100 (9 780)	26 410 (12 250)	16 460 (7 620)			*19 850 (*8 980)	14 890 (6 740)	32' 4" (9.88)
	-10' (-3.0)	*34 930 (*15 610)	*34 930 (*15 610)	*45 540 (*20 170)	*45 540 (*20 170)	*52 880 (*24 380)	44 610 (20 750)	*40 590 (*18 750)	28 810 (13 360)	*31 990 (*14 820)	21 090 (9 770)					*24 320 (*10 950)	16 650 (7 520)	29' 11" (9.15)
	-15' (-4.5)			*59 370 (*27 490)	*59 370 (*27 490)	*45 380 (*21 030)	*45 380 (*21 030)	*35 330 (*16 430)	29 320 (13 590)	*26 990 (*12 700)	21 550 (9 960)					*24 590 (*11 170)	20 190 (9 050)	26' 4" (8.09)
	-20' (-6.0)					*32 610 (*15 440)	*32 610 (*15 440)	*24 260 (*11 730)	*24 260 (*11 730)							*22 380 (*10 270)	*22 380 (*10 270)	20' 11" (6.51)

# SPECIFICATIONS

## ZX490LC-7H

### ZX490LC-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' 10"	11' 2"
	in	mm	yd <sup>3</sup>	m <sup>3</sup>	kg	kg		
ZX490LC-7H (Variable Gauge Undercarriage)	42	1,067	2.52	1.93	4,500	2,041	●	-
	42	1,067	2.65	2.03	5,000	2,268	-	●
	48	1,219	2.81	2.15	4,900	2,223	⊙	-
	48	1,219	2.85	2.18	5,400	2,449	-	⊙
	54	1,372	3.05	2.33	5,700	2,585	○	-
	54	1,372	3.40	2.60	5,700	2,585	-	○
	60	1,524	3.52	2.69	6,300	2,858	▲	-
	60	1,524	3.60	2.75	7,000	3,175	-	▲
	66	1,676	3.60	2.75	6,800	3,084	△	-
	66	1,676	3.80	2.91	7,300	3,311	-	△
	72	1,829	3.63	2.78	7,800	3,538	■	-
	72	1,829	3.90	2.98	7,900	3,583	-	■
	78	1,981	3.63	2.78	7,800	3,538	■	-
	78	1,981	3.90	2.98	7,900	3,583	-	■
	Maximum load with pin-on (Bucket + Payload)						lb	13,800
						kg	6,250	6,790

- : Suitable for materials with density of 3,500 lb/yd<sup>3</sup> (2,100 kg/m<sup>3</sup>) or less.
- ⊙ : Suitable for materials with density of 3,000 lb/yd<sup>3</sup> (1,800 kg/m<sup>3</sup>) or less.
- : Suitable for materials with density of 2,500 lb/yd<sup>3</sup> (1,500 kg/m<sup>3</sup>) or less.
- ▲ : Suitable for materials with density of 2,000 lb/yd<sup>3</sup> (1,200 kg/m<sup>3</sup>) or less.
- △ : Suitable for materials with density of 1,800 lb/yd<sup>3</sup> (1,100 kg/m<sup>3</sup>) or less.
- : Suitable for materials with density of 1,500 lb/yd<sup>3</sup> (900 kg/m<sup>3</sup>) or less.
- : Not applicable

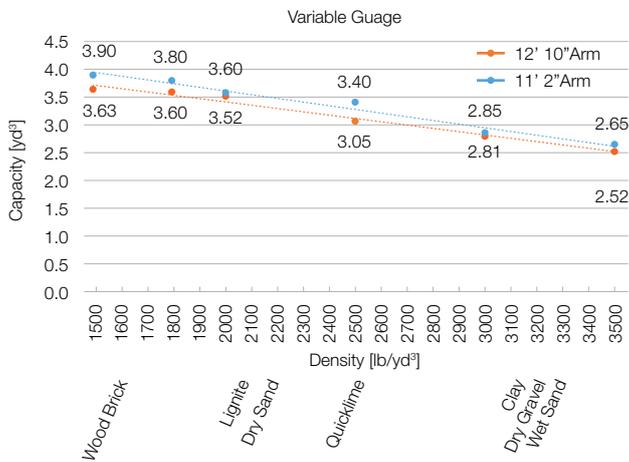
#### [Reference]

Example calculation for Maximum Load of 7,450 lb.

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

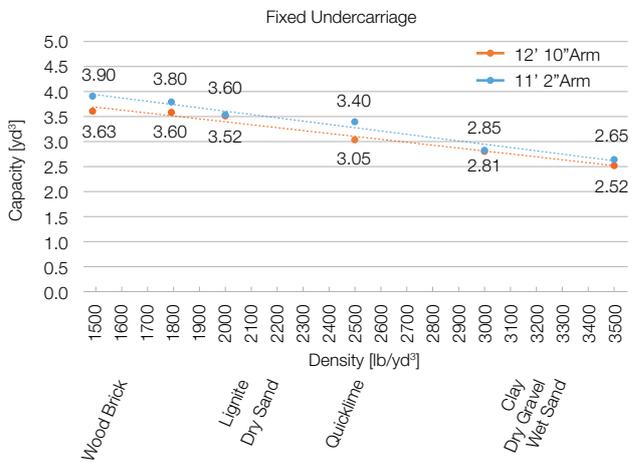
Example calculation for Maximum Load of 7,450 lb and Attachment (Thumb and coupler etc) weight of 1,800 lb.

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



	Bucket						Arm Length	
	Width		Capacity		Weight		12' 10"	11' 2"
	in	mm	yd <sup>3</sup>	m <sup>3</sup>	kg	kg		
ZX490LC-7H (Fixed Undercarriage)	42	1,067	2.52	1.93	3,800	1,724	●	-
	42	1,067	2.65	2.03	4,500	2,041	-	●
	48	1,219	2.81	2.15	4,200	1,905	⊙	-
	48	1,219	2.85	2.18	4,900	2,223	-	⊙
	54	1,372	3.05	2.33	5,000	2,268	○	-
	54	1,372	3.40	2.60	5,200	2,359	-	○
	60	1,524	3.52	2.69	5,600	2,540	▲	-
	60	1,524	3.60	2.75	6,500	2,948	-	▲
	66	1,676	3.60	2.75	6,100	2,767	△	-
	66	1,676	3.80	2.91	6,800	3,084	-	△
	72	1,829	3.63	2.78	7,200	3,266	■	-
	72	1,829	3.90	2.98	7,900	3,583	-	■
	78	1,981	3.63	2.78	7,200	3,266	■	-
	78	1,981	3.90	2.98	7,900	3,629	-	■
	Maximum load with pin-on (Bucket + Payload)						lb	12,680
						kg	5,720	6,220

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.

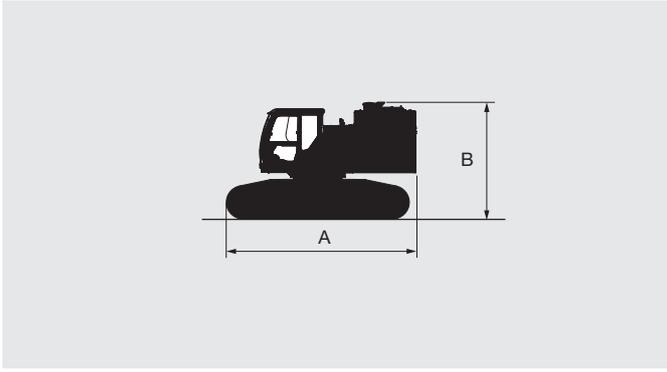




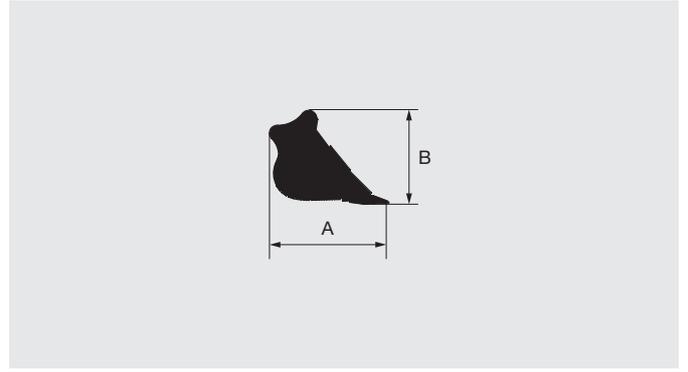
# TRANSPORTATION

## ZX490LC-7H

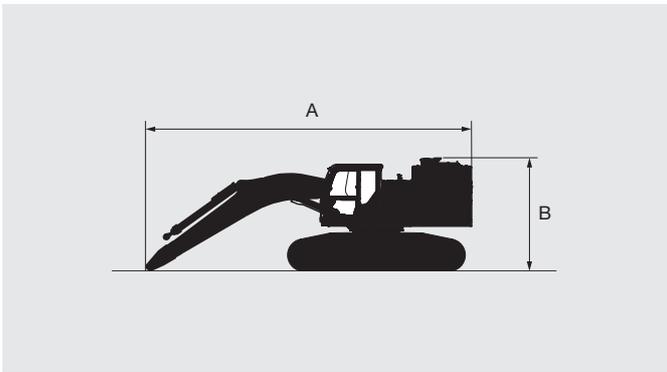
BASIC MACHINE (WITHOUT COUNTERWEIGHT)



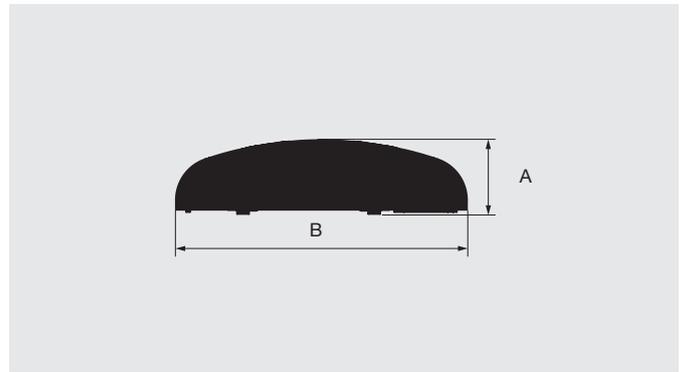
BUCKET



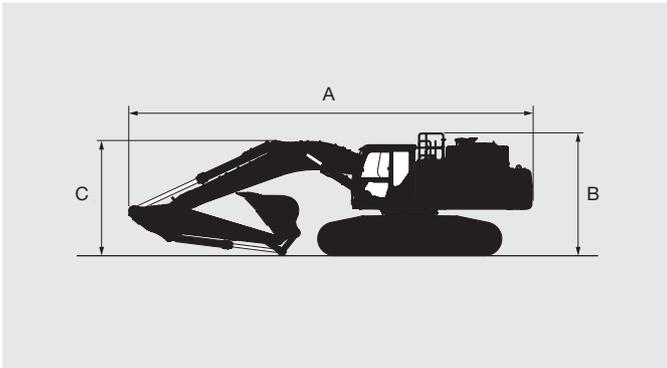
BASIC MACHINE FITTED WITH BOOM AND NO SIDEWALK



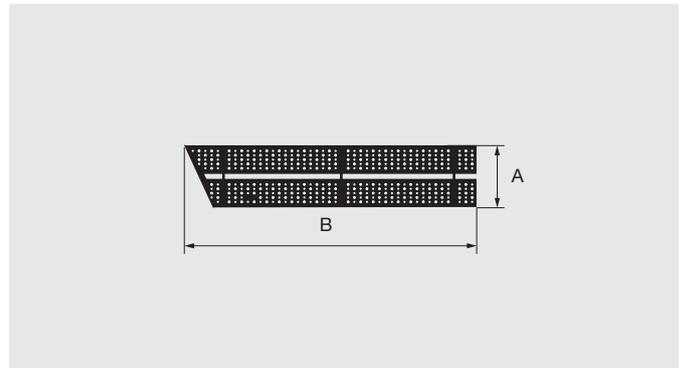
COUNTERWEIGHT



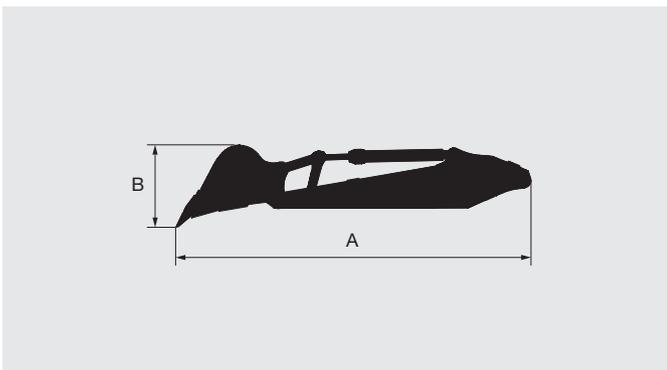
BASIC MACHINE FITTED WITH FRONT AND SIDEWALK



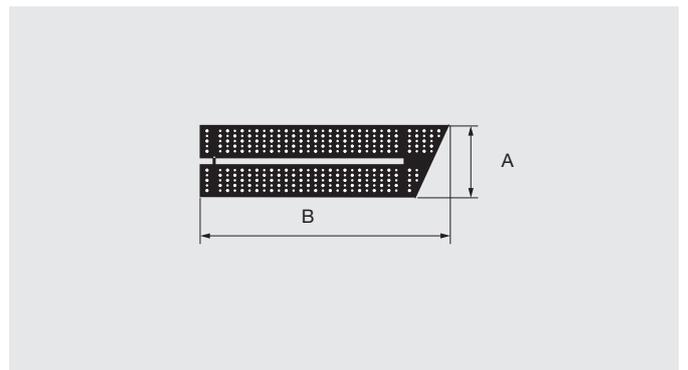
LIFT FRONT SIDEWALK



ARM AND BUCKET



LEFT REAR SIDEWALK



# TRANSPORTATION

## ZX490LC-7H

### BASIC MACHINE (WITHOUT COUNTERWEIGHT)

Shoe width ( inch (mm) )	A ( ft-in (mm) )	B <sup>1</sup> ( ft-in (mm) )	Overall width <sup>3</sup> ( ft-in (mm) )	Weight ( lb (kg) )
35" (900)	18' 8" (5 690)	11' 7" (3 520) <sup>2</sup>	10' 10" (3 290) <sup>4</sup> 11' 11" (3 640) <sup>5</sup>	68 784 (31 200) <sup>4</sup> 66 359 (30 100) <sup>5</sup>

<sup>1</sup> 12' 2" (3 710 mm) when precleaner is equipped

<sup>2</sup> Without pre-cleaner

<sup>3</sup> Undercarriage retracted

<sup>4</sup> Variable Gauge Undercarriage

<sup>5</sup> Fixed Undercarriage

### BASIC MACHINE FITTED WITH BOOM AND NO SIDEWALK

Boom length ( ft-in (m) )	Shoe width ( inch (mm) )	A ( ft-in (mm) )	B <sup>1</sup> ( ft-in (mm) )	Overall width <sup>3</sup> ( ft-in (mm) )	Weight ( lb (kg) )
22' 12" (7.0) H	35" (900)	32' 6" (9 910)	11' 7" (3 520) <sup>2</sup>	10' 10" (3 290) <sup>4</sup> 11' 11" (3 640) <sup>5</sup>	79 587 (36 100) <sup>4</sup> 77 162 (35 000) <sup>5</sup>

<sup>1</sup> 12' 2" (3 710 mm) when precleaner is equipped

<sup>2</sup> Without pre-cleaner

<sup>3</sup> Undercarriage retracted

<sup>4</sup> Variable Gauge Undercarriage

<sup>5</sup> Fixed Undercarriage

### BASIC MACHINE FITTED WITH FRONT AND SIDEWALK

Boom length ( ft-in (m) )	Arm length ( ft-in (m) )	A ( ft-in (mm) )	B <sup>1</sup> ( ft-in (mm) )	C ( ft-in (mm) )
22' 12" (7.0) H	11' 2" (3.4)	39' 5" (12 020)	12' 2" (3 710)	11' 4" (3 450)
22' 12" (7.0) H	12' 10" (3.9)	39' 5" (12 010)	11' 6" (3 500)	11' 6" (3 500)

<sup>1</sup> With handrail

### ARM AND BUCKET

Arm	Bucket capacity ( yd <sup>3</sup> (m <sup>3</sup> )) ISO 7451 : 2007 heaped	A ( ft-in (mm) )	B ( ft-in (mm) )	Overall width ( ft-in (mm) )	Weight ( lb (kg) )
11' 2" (3.4) H	2.7 (2.1)	20' 11" (6 370)	4' 10" (1 470)	4' 11" (1 500)	10 362 (4 700)
12' 10" (3.9) Semilong	2.7 (2.1)	22' 6" (6 870)	4' 10" (1 470)	4' 11" (1 500)	10 626 (4 820)

### BUCKET

Bucket	Capacity ( yd <sup>3</sup> (m <sup>3</sup> )) ISO 7451 : 2007 heaped	A ( ft-in (mm) )	B ( ft-in (mm) )	Overall width ( ft-in (mm) )	Weight ( lb (kg) )
Rock bucket	2.7 (2.1)	6' 5" (1 950)	5' 5" (1 650)	5' 2" (1 580)	4 784 (2 170)
	3.0 (2.3)	6' 5" (1 950)	5' 5" (1 650)	5' 7" (1 700)	4 982 (2 260)
	3.3 (2.5)	6' 5" (1 950)	5' 5" (1 650)	5' 12" (1 820)	5 203 (2 360)

### Counterweight / Left front sidewalk / Left rear sidewalk

	Weight ( lb (kg) )	Overall height ( ft-in (mm) )	A ( ft-in (mm) )	B ( ft-in (mm) )
Counterweight (STD)	20 100 (9 080)	4' 5" (1 340)	2' 6" (764)	9' 8" (2 950)
Counterweight (OPT) <sup>1</sup>	18 100 (8 180)	5' 0" (1 520)	2' 6" (764)	9' 8" (2 950)
Left front sidewalk	97 (44)	0' 6" (150)	1' 8" (515)	7' 8" (2 340)
Left rear sidewalk	66 (30)	0' 6" (150)	1' 8" (515)	5' 7" (1 700)

<sup>1</sup> For the counterweight removal/installation

# EQUIPMENT

## ZX490LC-7H

● : Standard equipment ○ : Optional equipment

ENGINE	ZX-7H 490LC
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	●
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 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	●
Reversible fan	●

HYDRAULIC SYSTEM	ZX-7H 490LC
Auto power lift	●
Attachment pedal	○
Boom mode selector system	●
ConSite OIL (sensor)*	●
Control pattern change valve	●
Control valve with main relief valve	●
Drain filter	●
Engine speed sensing system	●
Extra port for control valve	●
Hose rupture valve for arm	○
Hose rupture valve for boom	○
Pilot filter	●
Power boost	●
Shockless valve in pilot circuit	●
Single-pedal propel control	○
Suction filter	●
Swing auxiliary function lever (AFL)	●
Variable reliefvalve for breaker and crusher	●
Work mode selector	●

CAB	ZX-7H 490LC
Auto control air conditioner	●
Bluetooth® integrated radio	●
Cab : All-weather sound suppressed steel	●
Cab : CRES VII (center pillar reinforced structure)	●
Cab : OPG Level I (ISO10262 : 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 (ISO10262 : 1998) compliant	○
Front window washer (2 points)	●
Glove compartment	●
Hands-free calling device	●
Hot and cool box	●
Intermittent windshield wiper	●
Key cylinder light	●
Laminated round glass front window	●
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	●
Sunscreen roller type (multi-use front or side and rear window)	●
Top guard : OPG top guard Level II (ISO10262 : 1998) compliant	○
Transparent roof with slide curtain	●
USB power supply	●
Wide view wiper	●
Windows on front, upper and lower side can be opened	●
Windows on leftside can be opened	●
2 speakers	●
6 fluid-filled elastic mounts	●
8 inch monitor	●

MONITOR SYSTEM	ZX-7H 490LC
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 490LC
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 490LC
AERIAL ANGLE (side and rear view camera)	●
Batteries 2 x 147 Ah	●
Body top handrail	●
Counterweight 20 100 lb (9 080 kg)	●
Counterweight 18 100 lb (8 180 kg)**	○
Counterweight removal system	○
Fuel level float	●
Hydraulic oil level gauge	●
Ladder	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Lockable tool box	●
Platform handrail	●
Reinforced under cover	○
Side view mirror (right and left)	●
Sidewalk (cab side)	●
Skid-resistant plates and handrails	●
Swing parking brake	●
Undercover	●
Utility space	●
2 way battery disconnect switch	●

# EQUIPMENT

## ZX490LC-7H

UNDERCARRIAGE	ZX-7H 490LC
Bolt-on sprocket	●
Reinforced track links with pin seals	●
Shoe: 35" (900 mm) triple grouser	●
Track undercover	○
Travel direction mark on track frame	●
Travel motor covers	●
Travel parking brake	●
Upper and lower rollers	●
2 track guards (each side)	●
4 tie down hooks	●

FRONT ATTACHMENTS	ZX-7H 490LC
Arm 9' 6" (2.9 m) BE	○
Arm 11' 2" (3.4 m) H	○
Arm 12' 10" (3.9 m) Semilong	●
Boom 20' 8" (6.3 m) BE	○
Boom 22' 12" (7.0 m) H	●
Centralized lubrication system	●
Cylinder hose protectors arm	●
Cylinder hose protectors bucket	●
Damage prevention plate and square bars	●
Dirt seal on all bucket pins	●
Flanged pin	●

ATTACHMENTS	ZX-7H 490LC
Accessories for 2 speed selector	●
Accessories for breaker and crusher	●
Additional pump	○
Assist piping	○
Pilot accumulator	●
Quick coupler piping	○

QUICK LINKS	ZX490LC-7H
Website's Product Page	

● : Standard equipment ○ : Optional equipment

MISCELLANEOUS	ZX-7H 490LC
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.

\*\* For the counterweight removal/installation.