HITACHI

ZX470LC-6

PRODUCTION **EXCAVATORS**

PRODUCTIVITY-BOOSTING ADVANTAG

The ZX470LC-6 is purpose-built with productivity-boosting advantages. This workhorse features a fuel-efficient EPA Final Tier 4 (FT4)/EU Stage IV Isuzu engine – no diesel particulate filter (DPF) needed. Added handrails provide easy access. You also get easy-to-operate controls for smooth hydraulics, and efficient features like a battery disconnect switch.

With the ZX470LC-6, you gain

A COMPETITIVE EDGE.

ES.

SMOOTH PERFORMANCE
It's not always about brute force. Unmatched metering and smooth multifunction operation provide finesse and precision.

POWER BOOST
Muscle through tough digging by pressing the power-boost button.

COOLANT EXPANSION TANK
An added coolant expansion tank provides make-up fluid when needed and improves cooling system efficiency, keeping the engine at peak performance.

READY TO TACKLE YOUR TOUGHEST JOBS.

Take productivity to a higher level with our HIOS III hydraulic system. This system balances engine performance with hydraulic flow, returning the arm to dig faster, so you can move more dirt in a day. Plus, three work modes – High Productivity, Power and Economy – provide fuel-efficient production.

Need extra stability or lift capacity? Choose from a wide variety of track widths, arm lengths, boom lengths and bucket sizes.

This excavator gives you NEXT-LEVEL PRODUCTIVITY.

SINGLE-PEDAL PROPEL
An optional, hydraulic, single-pedal propel system allows straight-line machine tracking without articulating both hand and foot pedals.

AUXILIARY LINES
Optional auxiliary hydraulic lines with combination piping increase machine versatility.

ADDITIONAL WATER SEPARATORS
Two additional water separators help extend fuel filter life.

MORE COMFORT MEANS MORE PRODUCTIVITY.

It's true – comfortable operators are more productive. And operators are set for success inside our spacious cabs. An adjustable, high-back, sculpted seat ensures comfort; and silicone-filled cab mounts isolate noise and vibration. A multifunction LCD monitor, programmable attachment modes, low-effort controls, expanded visibility and more features contribute to productivity.

These cabs give operators COMFORTABLE PRODUCTIVITY.

SIMPLE MONITORING

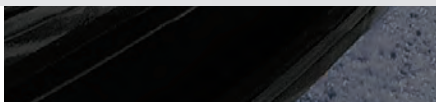
Multi-language LCD monitor and rotary dial provide intuitive access to machine info and functions. Just turn and tap to select work modes, monitor maintenance intervals, check diagnostic codes and set cab temperature. A USB port keeps you digitally connected.

SMOOTH OPERATION

Ergonomically correct short-throw pilot levers provide smooth, precise control with less effort.

CLEAR VIEWS

Get unobstructed all-around visibility thanks to a new hood design paired with a wide expanse of front, side and overhead glass and mirrors.



ADDITIONAL LIGHTING
Cab-mounted lights, two boom-mounted lights and a rearview camera provide excellent job site visibility, regardless of when or where you work.

ZXLINK™
The ZX470LC-6 is standard equipped with five years of ZXLink™ Ultimate, which gives you 24/7 online access to machine locations, health, utilization, fuel consumption and other valuable information.

CLIMATE CONTROL
Automatic, high-velocity bi-level climate-control system with automotive-style adjustable louvers helps keep the glass clear, the cab comfortable and the operator productive.

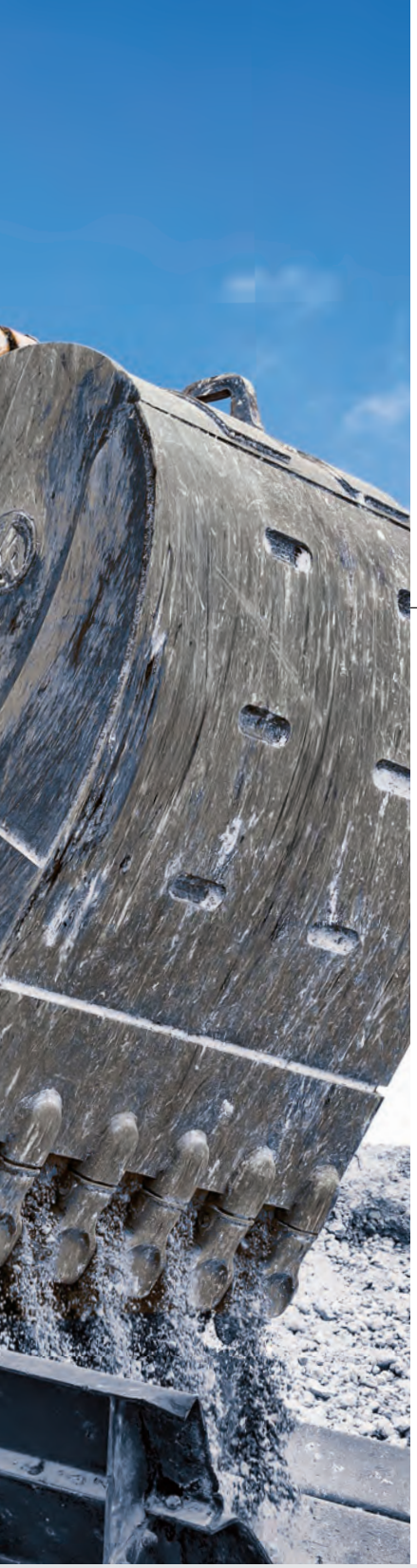
COMFORTABLE SEATING
Operators get maximum support from a heated, air suspension high-back seat.

EASY ACCESS
Step positioning on the track frame and walkway on the upperstructure allow for easy access around the machine while maintaining appropriate points of contact.

AUTO-IDLE & AUTO-SHUTDOWN
Auto-idle, which reduces engine speed to 800 rpm, and auto-shutdown contribute to fuel efficiency.

ACCESSIBLE EFFICIENCY
A battery disconnect switch is easily accessible in the rear door behind the cab.

FT4 TECHNOLOGY
Our field-proven technology is simple and efficient, employing cooled exhaust gas recirculation (EGR), a diesel oxidation catalyst (DOC) and selective catalytic reduction (SCR). An improved piston design allows particulate matter to be burned in cylinder, so there's no need for a diesel particulate filter (DPF).



SIMPLIFIED MAINTENANCE. MORE UPTIME.

The ZX470LC-6 is equipped with time-saving and productivity-boosting advantages — from grouped service points to at-a-glance gauges. You get convenient machine access with steps, handrails and walkways. Extended service intervals minimize daily operating costs. Scheduled maintenance is easy to track using ZXLink™ and the in-cab diagnostic monitor.

The ZX470LC-6 works hard and is EASY TO MAINTAIN.

MONITOR LEVELS
Easy-to-navigate LCD monitor tracks various fluid levels and issues, scheduled maintenance alerts and diagnostic information.

EFFICIENT FILTERS
Easily installed spin-on main fuel filters help prevent contamination when servicing.

REVERSING FAN
A reversing fan back-blows cooler cores to reduce debris buildup and increase uptime.

DURABILITY BUILT-IN, DOWNTIME TOSSED OUT

Toughness is built into the ZX470LC-6 with a heavy-duty undercarriage and durable D-channel mainframe. Added strength comes from welded bulkheads within the boom that resist torsional stress.

The boom, arm and mainframe are so tough, they're warranted for three years or 10,000 hours, whichever comes first.

The ZX470LC-6 is ready to TACKLE TOUGH JOBS.

LONG-LASTING UNDERCARRIAGE
With large idlers, rollers and strutted track links, the sealed and lubricated undercarriage is built for the long haul.

SWING-OUT COOLERS
Swing-out coolers, protected behind heavy-duty hinged doors, are easy to access and clean.

ROCK-SOLID FRAMES
Thick-plate single-sheet mainframe, box-section track frames and industry exclusive double-seal swing bearings deliver rock-solid durability.

SAMPLE PORTS
Engine and hydraulic oil sample ports allow for quick and convenient, proactive maintenance checks, which keep you running longer.

SPECIFICATIONS

ZX470LC-6

Engine	ZX470LC-6		
Manufacturer and Model	Isuzu 6UZI		
Non-Road Emission Standards	EPA Final Tier 4 / EU Stage IV		
Net Rated Power (ISO 9249)	270 kW (362 hp) @ 2,000 rpm		
Cylinders	6		
Displacement	9.84 L (600 cu. in.)		
Off-Level Capacity	70% (35 deg.)		
Aspiration	Turbocharged, air-to-air charge-air cooler		
Cooling			
Cool-on-demand, hydraulic-driven, suction-type fan with remote-mounted drive			
Powertrain			
2-speed propel with AutoShift			
Maximum Travel Speed			
Low	3.9 km/h (2.4 mph)		
High	5.5 km/h (3.4 mph)		
Drawbar Pull	33 537 kg (73,937 lb.)		
Hydraulics			
Open center, load sensing			
Main Pumps	2 variable-displacement pumps		
Maximum Rated Flow	400 L/m (106 gpm) x 2		
System Operating Pressure			
Circuits			
Implement	31 900 kPa (4,627 psi)		
Travel	35 300 kPa (5,120 psi)		
Swing	28 400 kPa (4,119 psi)		
Power Boost	35 300 kPa (5,120 psi)		
Controls	Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever		
Cylinders			
Heat-treated, chrome-plated, polished cylinder rods, hardened steel (replaceable bushings) pivot pins			
	Bore	**Rod Diameter**	**Stroke**
Boom (2)	170 mm (6.7 in.)	115 mm (4.5 in.)	1590 mm (62.6 in.)
Arm (1)	190 mm (7.5 in.)	130 mm (5.1 in.)	1940 mm (76.4 in.)
Bucket (1)	170 mm (6.7 in.)	120 mm (4.7 in.)	1325 mm (52.2 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	500 CCA		
Alternator Rating	100 amp		
Work Lights	5 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on top of cab)		
Undercarriage			
Rollers (each side)			
Carrier	3		
Track	9		
Shoes, Triple Semi-Grousers (each side)	53		
Track			
Adjustment	Hydraulic		
Guides	Front and center		
Chain	Sealed and lubricated		
Planetary Final Drives with Axial Piston Motors			

Ground Pressure	ZX470LC-6
750-mm (30 in.) Triple Semi-Grouser Shoes	72.1 kPa (10.5 psi)
900-mm (36 in.) Triple Semi-Grouser Shoes	60.1 kPa (8.7 psi)
Swing Mechanism	
Swing Speed	9.5 rpm
Swing Torque	148 000 Nm (109,159 lb.-ft.)
Serviceability	
Refill Capacities	
Fuel Tank	675 L (178 gal.)
Diesel Exhaust Fluid (DEF) Tank	95 L (25.1 gal.)
Cooling System	62.3 L (16.5 gal.)
Engine Oil with Filter	41 L (11 gal.)
Hydraulic Tank	310 L (82 gal.)
Hydraulic System	510 L (135 gal.)
Gearbox	
Swing (each)	6.5 L (6.9 qt.)
Travel (each)	11 L (11.6 qt.)
Operating Weights	
With full fuel tank; 79-kg (175 lb.) operator; 2.34-m^3 (3.06 cu. yd.), 1370-mm (54 in.), 2031-kg (4,478 lb.) bucket; 3.9-m (12 ft. 10 in.) arm; 8400-kg (18,519 lb.) counterweight with removal device; and 900-mm (36 in.) triple semi-grouser shoes	
SAE Operating Weight	50 260 kg (110,804 lb.)
Optional Components	
Undercarriage w/ Triple Semi-Grouser Shoes	
750 mm (30 in.)	18 298 kg (40,340 lb.)
900 mm (36 in.)	18 978 kg (41,839 lb.)
One-Piece Boom (w/ arm cylinder)	
7-m (23 ft.)	4499 kg (9,919 lb.)
Mass Excavating Boom	
6.3-m (20 ft. 7 in.)	4544 kg (10,018 lb.)
Arm with Bucket Cylinder and Linkage	
2.9 m (9 ft. 6 in.)	2534 kg (5,587 lb.)
3.4 m (11 ft. 2 in.)	2539 kg (5,598 lb.)
3.9 m (12 ft. 10 in.)	2640 kg (5,820 lb.)
4.9 m (16 ft. 1 in.)	2320 kg (5,115 lb.)
Boom-Lift Cylinders (2), Total Weight	840 kg (1,853 lb.)

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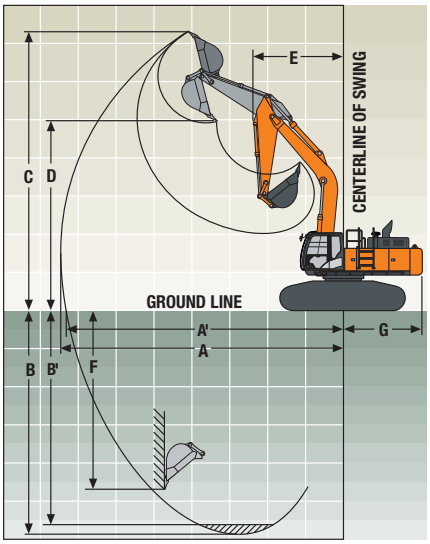
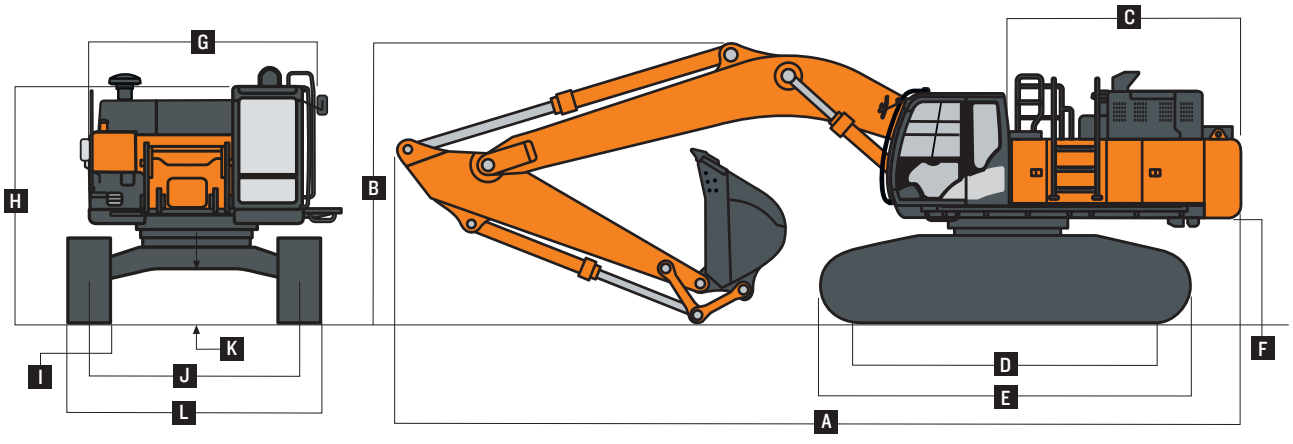
Operating Dimensions		ZX470LC-6				
Arm Length		2.9 m (9 ft. 6 in.)	2.9 m (9 ft. 6 in.) w/ 6.3-m (20 ft. 7 in.) Mass-Excavating Boom	3.4 m (11 ft. 2 in.)	3.9 m (12 ft. 10 in.)	4.9 m (16 ft. 1 in.)
	Arm Digging Force					
	SAE	252 kN (56,652 lb.)	249 kN (55,977 lb.)	215 kN (48,334 lb.)	196 kN (44,063 lb.)	175 kN (39,342 lb.)
	ISO	259 kN (58,226 lb.)	256 kN (57,551 lb.)	222 kN (49,908 lb.)	201 kN (45,187 lb.)	177 kN (39,791 lb.)
	Bucket Digging Force					
	SAE	254 kN (57,101 lb.)	257 kN (57,776 lb.)	256 kN (57,551 lb.)	256 kN (57,551 lb.)	213 kN (47,884 lb.)
	ISO	285 kN (64,071 lb.)	285 kN (64,071 lb.)	286 kN (64,295 lb.)	286 kN (64,295 lb.)	238 kN (53,505 lb.)
A	Maximum Reach	11.40 m (37 ft. 5 in.)	10.86 m (35 ft. 8 in.)	12.06 m (39 ft. 7 in.)	12.49 m (41 ft.)	13.34 m (43 ft. 9 in.)
A'	Maximum Reach at Ground Level	11.17 m (36 ft. 8 in.)	10.61 m (34 ft. 10 in.)	11.84 m (38 ft. 10 in.)	12.28 m (40 ft. 3 in.)	13.14 m (43 ft. 1 in.)
B	Maximum Digging Depth	7.28 m (23 ft. 11 in.)	6.23 m (20 ft. 5 in.)	7.77 m (25 ft. 6 in.)	8.27 m (27 ft. 2 in.)	9.11 m (29 ft. 11 in.)
B'	Maximum Digging Depth at 2.44-m (8 ft.) Flat Bottom	7.08 m (23 ft. 3 in.)	6.08 m (19 ft. 11 in.)	7.63 m (25 ft.)	8.14 m (26 ft. 8 in.)	9.0 m (29 ft. 6 in.)
C	Maximum Cutting Height	10.25 m (33 ft. 8 in.)	10.88 m (35 ft. 8 in.)	11.06 m (36 ft. 3 in.)	11.16 m (36 ft. 7 in.)	11.73 m (38 ft. 6 in.)
D	Maximum Dumping Height	7.03 m (23 ft. 1 in.)	7.33 m (24 ft. 1 in.)	7.65 m (25 ft. 1 in.)	7.77 m (25 ft. 6 in.)	8.67 m (28 ft. 5 in.)
E	Minimum Swing Radius	5.02 m (16 ft. 6 in.)	3.93 m (12 ft. 11 in.)	4.84 m (15 ft. 11 in.)	4.81 m (15 ft. 9 in.)	4.85 m (15 ft. 11 in.)
F	Maximum Vertical Wall	5.27 m (17 ft. 3 in.)	5.02 m (16 ft. 6 in.)	6.59 m (21 ft. 7 in.)	6.98 m (22 ft. 11 in.)	8.42 m (27 ft. 7 in.)
G	Tail Swing Radius	3.67 m (12 ft.)	3.67 m (12 ft.)	3.67 m (12 ft.)	3.67 m (12 ft.)	3.67 m (12 ft.)



Machine Dimensions		ZX470LC-6
A	Overall Length w/ Arm	
	2.9 m (9 ft. 6 in.)	12.10 m (39 ft. 8 in.)
	3.4 m (11 ft. 2 in.)	12.01 m (39 ft. 5 in.)
	3.9 m (12 ft. 10 in.)	12.01 m (39 ft. 5 in.)
	4.9 m (16 ft. 1 in.)	12.0 m (39 ft. 4 in.)
	2.9 m (9 ft. 6 in.) with 6.3-m (20 ft. 7 in.) Boom	11.32 m (37 ft. 2 in.)
B	Overall Height w/ Arm	
	2.9 m (9 ft. 6 in.)	3.60 m (11 ft. 10 in.)
	3.4 m (11 ft. 2 in.)	3.48 m (11 ft. 5 in.)
	3.9 m (12 ft. 10 in.)	3.50 m (11 ft. 6 in.)
	4.9 m (16 ft. 1 in.)	4.55 m (14 ft. 11 in.)
	2.9 m (9 ft. 6 in.) with 6.3-m (20 ft. 7 in.) Boom	3.74 m (12 ft. 3 in.)
C	Rear-End Length/Swing Radius	3.67 m (12 ft.)
D	Distance Between Idler/Sprocket Centerline	4.47 m (14 ft. 8 in.)
E	Undercarriage Length	5.47 m (17 ft. 11 in.)
F	Counterweight Clearance	1.36 m (4 ft. 6 in.)
G	Upperstructure Width	3.48 m (11 ft. 5 in.)
H	Cab Height	3.33 m (10 ft. 11 in.)
I	Track Width w/ Triple Semi-Grouser Shoes	750 mm (30 in.) / 900 mm (36 in.)
J	Gauge Width	
	Operating Position	2.89 m (9 ft. 6 in.)
	Transport Position	2.39 m (7 ft. 10 in.)
K	Ground Clearance	0.74 m (29 in.)
L	Overall Width w/ Triple Semi-Grouser Shoes	
	750 mm (30 in.)	
	Operating Position	3.64 m (11 ft. 11 in.)
	Transport Position	3.14 m (10 ft. 4 in.)
	900 mm (36 in.)	
	Operating Position	3.79 m (12 ft. 5 in.)
	Transport Position	3.29 m (10 ft. 10 in.)



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Lift Charts ZX470LC-6

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Machine equipped with standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

Load Point Height	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)		9.0 m (30 ft.)		10.5 m (35 ft.)	
Horizontal Distance from Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 3.9-m (12 ft. 10 in.) arm, 7.0-m (23 ft.) boom, 1.9-m3 (2.5 cu. yd.) bucket and 750-mm (30 in.) triple semi-grouser shoes														
7.5 m (25 ft.)											**6350**	**6350**		
6.0 m (20 ft.)									**10 300** **(22,410)**	**10 300** (22,370)	**9530** **(19,670)**	7440 (15,900)		
4.5 m (15 ft.)							**13 640** **(29,430)**	13 640 **(29,430)**	**11 410** **(24,740)**	9960 (21,430)	**10 080** **(21,940)**	7220 (15,490)		
3.0 m (10 ft.)					22 520 **(48,350)**	21 220 (45,760)	**15 940** **(34,390)**	13 520 (29,130)	**12 670** **(27,430)**	9460 (20,360)	**10 750** **(23,350)**	6940 (14,900)	**6160**	5200
1.5 m (5 ft.)					18 450 **(44,110)**	**18 450** (42,600)	**17 800** **(38,470)**	12 720 (27,400)	**13 780** **(29,820)**	9000 (19,360)	**11 350** (24,380)	6680 (14,340)	**6690**	5080
Ground Line					18 470 **(42,920)**	**18 470** (41,210)	**18 780** **(40,650)**	12 210 (26,280)	**14 460** **(31,300)**	8660 (18,630)	**11 120** (23,910)	6470 (13,900)		
−1.5 m (−5 ft.)			**11 930** **(26,990)**	**11 930** **(26,990)**	23 290 **(53,590)**	19 040 (40,870)	**18 770** **(40,650)**	11 980 (25,770)	**14 520** **(31,410)**	8480 (18,230)	**11 010** (23,670)	6370 (13,690)		
−3.0 m (−10 ft.)	**14 070** **(31,520)**	**14 070** **(31,520)**	**18 590** **(42,050)**	**18590** **(42,050)**	23 450 **(50,810)**	19 160 (41,140)	**17 740** **(38,340)**	11 970 (25,760)	**13 750** **(29,620)**	8460 (18,200)	**10 530**	6410		
−4.5 m (−15 ft.)			**26 700** **(57,600)**	**26 700** **(57,600)**	20 090 **(43,280)**	19 520 (41,940)	**15 400** **(33,050)**	12 180 (26,220)	**11 620** **(24,590)**	8640 (18,640)				
−6.0 m (−20 ft.)					14 470 **(30,450)**	**14 470** **(30,450)**	**10 680** **(21,930)**	**10 680** **(21,930)**						

Lift Charts ZX470LC-6

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Machine equipped with standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

Load Point Height	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)		9.0 m (30 ft.)		10.5 m (35 ft.)	
Horizontal Distance from Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 2.9-m (9 ft. 6 in.) arm, 7.0-m (23 ft.) boom, 2.3-m3 (3.0 cu. yd.) bucket and 900-mm (36 in.) triple semi-grouser shoes														
6.0 m (20 ft.)							**13 260** **(28,560)**	**13 260** **(28,560)**	**11 450** **(24,910)**	10 090 (21,660)				
4.5 m (15 ft.)					**21 100** **(44,910)**	**21 100** **(44,910)**	**15 270** **(32,750)**	14 040 (30,070)	**12 440** **(26,860)**	9720 (20,800)	**10 830** **(23,590)**	7000 (14,970)		
3.0 m (10 ft.)							**17 260** **(37,080)**	13 150 (28,180)	**13 500** **(29,090)**	9280 (19,840)	**11 310** **(24,520)**	6810 (14,550)		
1.5 m (5 ft.)							**18 540** **(39,980)**	12 480 (26,790)	**14 300** **(30,810)**	8910 (19,010)	11 350 (24,300)	6620 (14,130)		
Ground Line					**18 040** **(42,030)**	18 040 (41,240)	**18 810** **(40,680)**	12 150 (26,070)	**14 570** **(31,400)**	8660 (18,490)	11 210 (24,020)	6490 (13,870)		
–1.5 m (–5 ft.)			**14 410** **(32,620)**	**14 410** **(32,620)**	**23 410** **(51,050)**	19 250 (41,460)	**18 100** **(39,140)**	12 090 (25,910)	**14 110** **(30,340)**	8590 (18,340)				
–3.0 m (–10 ft.)			**25 090** **(54,980)**	**25 090** **(54,980)**	**20 680** **(44,930)**	19 560 (42,090)	**16 290** **(35,050)**	12 250 (26,230)	**12 510** **(26,600)**	8710 (18,620)				
–4.5 m (–15 ft.)					**16 300** **(34,880)**	16 300 (34,880)	**12 690** **(26,720)**	12 670 (26,720)						
With 3.4-m (11 ft. 2 in.) arm, 7.0-m (23 ft.) boom, 2.1-m3 (2.7 cu. yd.) bucket and 900-mm (36 in.) triple semi-grouser shoes														
7.5 m (25 ft.)									**10 340** **(22,650)**	**10 340** **(22,650)**				
6.0 m (20 ft.)									**10 990** **(23,910)**	10 390 (22,330)	**9760** **(18,910)**	7420 (15,850)		
4.5 m (15 ft.)					**19 590** **(41,940)**	**19 590** **(41,940)**	**14 580** **(31,450)**	14 400 (31,040)	**12 040** **(26,110)**	9980 (21,460)	**10 580** **(23,040)**	7260 (15,560)		
3.0 m (10 ft.)					**21 700** **(51,720)**	21 010 (45,320)	**16 770** **(36,170)**	13 520 (29,140)	**13 220** **(28,610)**	9510 (20,470)	**11 160** **(24,240)**	7010 (15,050)		
1.5 m (5 ft.)					**13 630** **(32,940)**	**13 630** **(32,940)**	**18 390** **(39,730)**	12 820 (27,620)	**14 190** **(30,710)**	9100 (19,590)	11 510 (24,740)	6780 (14,570)		
Ground Line					**16 690** **(38,950)**	**16 690** **(38,950)**	**19 040** **(41,220)**	12 410 (26,720)	**14 680** **(31,780)**	8820 (18,980)	11 330 (24,360)	6620 (14,220)		
–1.5 m (–5 ft.)			**11 830** **(26,860)**	**11 830** **(26,860)**	**23 690** **(53,970)**	19 530 (41,920)	**18 680** **(40,460)**	12 270 (26,390)	**14 490** **(31,340)**	8690 (18,700)	11 270 (24,250)	6560 (14,120)		
–3.0 m (–10 ft.)			**20 250** **(45,890)**	**20 250** **(45,890)**	**22 440** **(48,650)**	19 730 (42,360)	**17 260** **(37,280)**	12 330 (26,520)	**13 350** **(28,700)**	8730 (18,800)				
–4.5 m (–15 ft.)			**23 560** **(50,800)**	**23 560** **(50,800)**	**18 530** **(39,860)**	**18 530** **(39,860)**	**14 340** **(30,650)**	12 600 (27,140)	**10 290**	9010				

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Lift Charts ZX470LC-6

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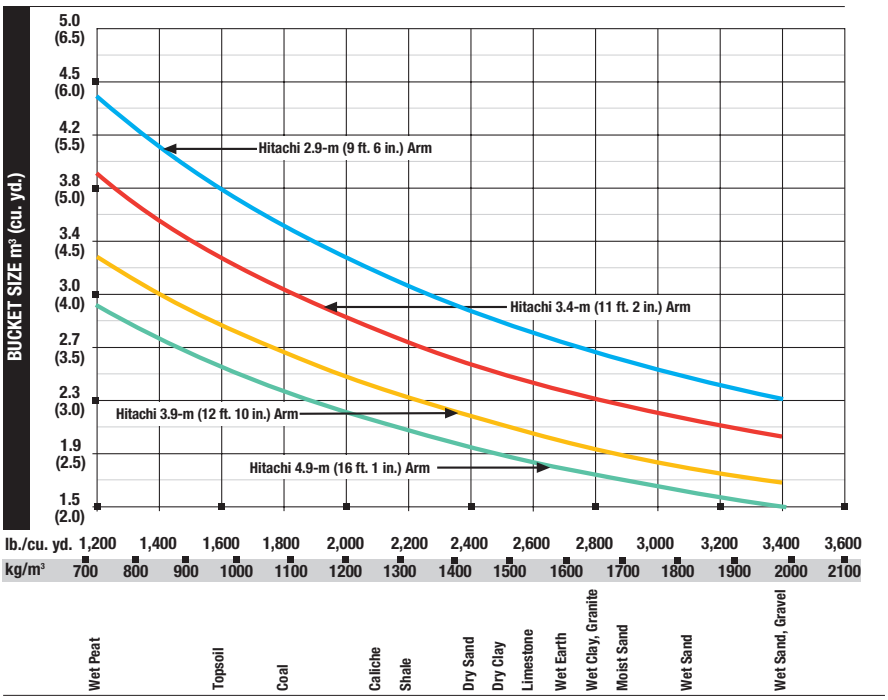
Load Point Height	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)		9.0 m (30 ft.)		10.5 m (35 ft.)	
Horizontal Distance from Centerline of Rotation	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**
With 3.9-m (12 ft. 10 in.) arm, 7.0-m (23 ft.) boom, 1.9-m3 (2.5 cu. yd.) bucket and 900-mm (36 in.) triple semi-grouser shoes														
7.5 m (25 ft.)											**6350**	**6350**		
6.0 m (20 ft.)									**10 300 (22,410)**	**10 300 (22,410)**	**9530 (19,670)**	7540 (16,130)		
4.5 m (15 ft.)							**13 640 (29,430)**	**13 640 (29,430)**	**11 410 (24,740)**	10 090 (21,710)	**10 080 (21,940)**	7330 (15,710)		
3.0 m (10 ft.)					**22 520 (48,350)**	21 480 (46,330)	**15 940 (34,390)**	13 690 (29,510)	**12 670 (27,430)**	9590 (20,640)	**10 750 (23,350)**	7050 (15,130)	**6160**	5290
1.5 m (5 ft.)					**18 450 (44,110)**	**18 450** (43,160)	**17 800 (38,470)**	12 900 (27,780)	**13 780 (29,820)**	9130 (19,650)	**11 360 (24,640)**	6780 (14,560)	**6690**	5170
Ground Line					**18 470 (42,920)**	**18 470** (41,770)	**18 780 (40,650)**	12 390 (26,660)	**14 460 (31,300)**	8790 (18,910)	11 300 (24,280)	6580 (14,130)		
–1.5 m (–5 ft.)			**11 930 (26,990)**	**11 930 (26,990)**	**23 290 (53,590)**	19 300 (41,430)	**18 770 (40,650)**	12 150 (26,140)	**14 520 (31,410)**	8610 (18,510)	11 180 (24,040)	6470 (13,910)		
–3.0 m (–10 ft.)	**14 070 (31,520)**	**14 070 (31,520)**	**18 590 (42,050)**	**18 590 (42,050)**	**23 450 (50,810)**	19 420 (41,700)	**17 740 (38,340)**	12 150 (26,130)	**13 750 (29,620)**	8590 (18,480)	**10 530**	6510		
–4.5 m (–15 ft.)			**26 700 (57,600)**	**26 700 (57,600)**	**20 090 (43,280)**	19 780 (42,510)	**15 400 (33,050)**	12 350 (26,600)	**11 620 (24,590)**	8770 (18,920)				
–4.5 m (–15 ft.)					**14 470 (30,450)**	**14 470 (30,450)**	**10 680 (21,930)**	**10 680 (21,930)**						
With 4.9-m (16 ft. 1 in.) arm, 7.0-m (23 ft.) boom, 1.4-m3 (1.8 cu. yd.) bucket and 900-mm (36 in.) triple semi-grouser shoes														
4.5 m (15 ft.)									**10 670 (23,180)**	**10 670 (23,180)**	**9690**	8140		
3.0 m (10 ft.)					**19 780 (42,530)**	**19 780 (42,530)**	**14 760 (31,890)**	**14 760 (31,890)**	**12 130 (26,310)**	10 500 (22,610)	**10 540 (22,920)**	7820 (16,820)		
1.5 m (5 ft.)					**24 060 (51,890)**	21 610 (46,540)	**17 130 (37,040)**	13 950 (30,080)	**13 530 (29,330)**	9970 (21,470)	**11 380 (24,710)**	7500 (16,140)	9570	5820
Ground Line			**7330 (16,700)**	**7330 (16,700)**	**21 020 (48,940)**	20 500 (44,090)	**18 790 (40,670)**	13 260 (28,560)	**14 610 (31,660)**	9530 (20,530)	11 960 (25,730)	7230 (15,560)	9400	5660
–1.5 m (–5 ft.)	**6910 (15,440)**	**6910 (15,440)**	**10 850 (24,550)**	**10 850 (24,550)**	**22 090 (50,830)**	20 000 (42,970)	**19 510 (42,260)**	12 850 (27,660)	**15 160 (32,830)**	9240 (19,900)	11 760 (25,290)	7040 (15,160)	9300	5570
–3.0 m (–10 ft.)	**11 090 (24,840)**	**11 090 (24,840)**	**15 440 (34,920)**	**15 440 (34,920)**	**25 950 (56,210)**	19 880 (42,710)	**19 250 (41,670)**	12 680 (27,290)	**15 020 (32,470)**	9100 (19,610)	11 670 (25,120)	6960 (15,000)		
–4.5 m (–15 ft.)	**15 890 (35,710)**	**15 890 (35,710)**	**21 400 (48,560)**	**21 400 (48,560)**	**23 700 (51,190)**	20 030 (43,060)	**17 910 (38,620)**	12 720 (27,390)	**13 950 (29,990)**	9130 (19,680)	**10 790 (22,850)**	7030 (15,180)		
–6.0 m (–20 ft.)			**27 000 (57,750)**	**27 000 (57,750)**	**19 750 (42,260)**	**19 750 (42,260)**	**15 050 (32,060)**	12 970 (27,990)	**11 290 (23,630)**	9360 (20,240)				
With 2.9-m (9 ft. 6 in.) ME-arm, 6.3-m (20 ft. 8 in.) ME-boom, 2.5-m3 (3.3 cu. yd.) bucket and 900-mm (36 in.) triple semi-grouser shoes														
7.5 m (25 ft.)							**12 480 (27,350)**	**12 480 (27,350)**						
6.0 m (20 ft.)							**13 440 (29,190)**	**13 440 (29,190)**	**12 060 (24,660)**	10 060 (21,530)				
4.5 m (15 ft.)					**19 860 (42,650)**	**19 860 (42,650)**	**15 220 (32,910)**	14 420 (31,040)	**12 810 (27,860)**	9820 (21,080)				
3.0 m (10 ft.)					**24 020 (51,680)**	21 400 (46,170)	**17 200 (37,160)**	13 630 (29,350)	**13 780 (29,880)**	9460 (20,340)				
1.5 m (5 ft.)					**26 230 (56,710)**	20 130 (43,340)	**18 660 (40,370)**	12 950 (27,890)	**14 550 (31,510)**	9120 (19,600)				
Ground Line					**26 140 (56,720)**	19 690 (42,310)	**19 120 (41,420)**	12 560 (27,020)	**14 750 (31,910)**	8890 (19,120)				
–1.5 m (–5 ft.)			**22 400 (50,640)**	**22 400 (50,640)**	**24 450 (53,060)**	19 720 (42,360)	**18 360 (39,720)**	12 450 (26,790)	**13 960 (30,010)**	8840 (19,020)				
–3.0 m (–10 ft.)			**27 190 (59,020)**	**27 190 (59,020)**	**21 060 (45,540)**	20 070 (43,130)	**15 940 (34,230)**	12 630 (27,190)						

Buckets ZX470LC-6

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with ESCO teeth standard. Replaceable cutting edges and a variety of teeth are available through Hitachi parts. Optional side cutters add 150 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

Type Bucket	Bucket Width		Bucket Capacity		Bucket Weight	
	mm	in.	m3	cu. yd.	kg	lb.
General Purpose	1372	54	1.76	2.3	1006	2,217
Heavy-Duty	1067	42	1.41	1.8	1418	3,127
	1219	48	1.64	2.1	1507	3,323
	1372	54	1.87	2.4	1624	3,581
	1524	60	2.09	2.7	1712	3,774
	1676	66	2.30	3.0	1737	3,828
	1829	72	2.52	3.3	1844	4,065
Truck Loading	1829	72	3.20	4.2	1970	4,344
Heavy-Duty High Capacity	1219	48	2.06	2.7	1802	3,973
	1372	54	2.34	3.1	2033	4,482
	1524	60	2.62	3.4	2329	5,136
	1676	66	2.91	3.8	2271	5,007
	1829	72	3.20	4.2	2663	5,870

Bucket Selection Guide*



* Contact your Hitachi dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less compacted materials, and volume loading applications such as mass-excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as off-level applications, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.

ADDITIONAL EQUIPMENT

ZX470LC-6

Key: ● Standard ▲ Optional or special kit

470	Engine
●	Auto-idle system
●	Batteries (2 – 12 volt)
●	Coolant recovery tank
●	Dual-element dry-type air filter
●	Electronic engine control
●	Enclosed fan guard (conforms to SAE J1308)
●	Engine coolant to –37 deg. C (–34 deg. F)
●	Automatic belt-tension device
●	Fuel filter with water separator
●	Full-flow oil filter
●	Turbocharger with charge air cooler
●	Cool-on-demand hydraulic-driven fan
●	500-hour engine-oil-change interval
●	70% (35 deg.) off-level capability
●	Hydraulic fan reverser
●	Engine-oil sample valve
▲	Chrome exhaust stack
	Hydraulic System
●	Reduced-drift valve for boom down, arm in
●	Auxiliary hydraulic valve section
●	Spring-applied, hydraulically released automatic swing brake
●	Auxiliary hydraulic-flow adjustments through monitor
●	Auto power lift
●	Hydraulic-oil sampling valve
●	HIOS III hydraulic management system
●	4,000-hour hydraulic-oil-change interval
▲	Auxiliary hydraulics with combination piping
▲	Auxiliary pilot and electric controls
▲	Hydraulic-filter-restriction indicator kit
▲	Single-pedal propel control
▲	Control pattern change valve
	Undercarriage
●	Planetary drive with axial piston motors
●	Propel motor shields
●	Spring-applied, hydraulically released automatic propel brake
●	Track guides, front idler and center
●	2-speed propel with automatic shift
●	Upper carrier rollers (3)
●	Sealed and lubricated track chain
▲	Triple semi-grouser shoes, 750 mm (30 in.)
▲	Triple semi-grouser shoes, 900 mm (36 in.)

470	Upperstructure
●	Right-hand, left-hand mirrors
●	Vandal locks with ignition key: Cab door / Fuel cap / Service doors / Toolbox
●	Debris screen in side panel
●	Remote-mounted engine oil and fuel filters
●	Service platform, left side
●	Service handrails
▲	Counterweight-removal system
	Front Attachments
●	Centralized lubrication system
●	Dirt seals on all bucket pins
●	No-boom-arm option
▲	Boom, 7 m (23 ft.)
▲	Boom, mass excavating, 6.3 m (20 ft. 7 in.)
▲	Arm, mass excavating, 2.9 m (9 ft. 6 in.)
▲	Arm, 3.4 m (11 ft. 2 in.)
▲	Arm, 3.9 m (12 ft. 10 in.)
▲	Arm, 4.9 m (16 ft. 1 in.)
▲	Buckets: Heavy duty / Heavy-duty high capacity / Side cutters and teeth
	Operator's Station
●	Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
●	AM/FM radio
●	Auto climate control / air conditioner / heater / pressurizer
●	Cell-phone power outlet, 12 volt, 60 watt, 5 amp
●	Coat hook
●	Deluxe-suspension cloth seat with 100-mm (4 in.) adjustable armrests
●	Floor mat
●	Front windshield wiper with intermittent speeds
●	Gauges (illuminated): Diesel Exhaust Fluid (DEF) / Engine coolant / Fuel
●	Horn, electric
●	Hour meter, electric
●	Hydraulic shutoff lever, all controls
●	Hydraulic warm-up control
●	Interior light
●	Large cup holder
●	Machine Information Center (MIC)

470	Operator's Station (continued)
●	Mode selectors (illuminated): Power modes (3) / Travel modes (2 with automatic shift) / Work mode (1)
●	Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, engine-air-cleaner-restriction indicator light, engine check, engine-coolant-temperature indicator light with audible alarm, engine-oil-pressure indicator light with audible alarm, low-alternator-charge indicator light, low-fuel indicator light, low DEF indication with audible alarm, fault-code-alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator and work-mode indicator
●	Motion alarm with cancel switch (conforms to SAE J994)
●	Power-boost switch on right console lever
●	Propel pedals and levers
●	SAE 2-lever control pattern
●	Tinted glass
●	Transparent tinted overhead hatch
●	Hot/cold beverage compartment
●	USB charging port
●	Air-suspension heated seat
●	Seat belt, 51 mm (2 in.), retractable
▲	Seat belt, 76 mm (3 in.), retractable
▲	Protection screens for cab front
▲	Window vandal-protection covers
	Electrical
●	100-amp alternator
●	Blade-type multi-fused circuits
●	Positive-terminal battery covers
●	Battery disconnect switch
●	ZXLink™ wireless communication system (available in specific countries; see your dealer for details)
	Lights
●	Work lights: Halogen / 2 mounted on boom / 1 mounted on frame / 2 mounted on top of cab

See your Hitachi dealer for further information.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator and cooling fan at test conditions per ISO 9249. These machines are not equipped with spark-arrestor mufflers. Usage in forestry applications is not recommended. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with standard arms, full fuel tanks and 79-kg (175 lb.) operators; a ZX35U-5 canopy unit with 610-mm (24 in.), 0.11-m^3 (4 cu. ft.) bucket, 300-mm (12 in.) rubber track and 540-kg (1,190 lb.) counterweight; a ZX50U-5 canopy unit with 610-mm (24 in.), 0.16-m^3 (5.7 cu. ft.) bucket, 400-mm (16 in.) rubber track and 700-kg. (1,543 lb.) counterweight; a ZX60USB-5 cab unit with 0.19-m^3 (6.8 cu. ft.) bucket, 400-mm (16 in.) rubber track and 745-kg (1,642 lb.) counterweight.

HITACHI

DKAZX470HT Litho in U.S.A. (19-03)

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