

HITACHI

Reliable solutions

ZX470LC-6



PRODUCTION EXCAVATORS



PRODUCTIVITY-BOOSTING ADVANTAGE

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™

ZXLink remote machine monitoring 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.

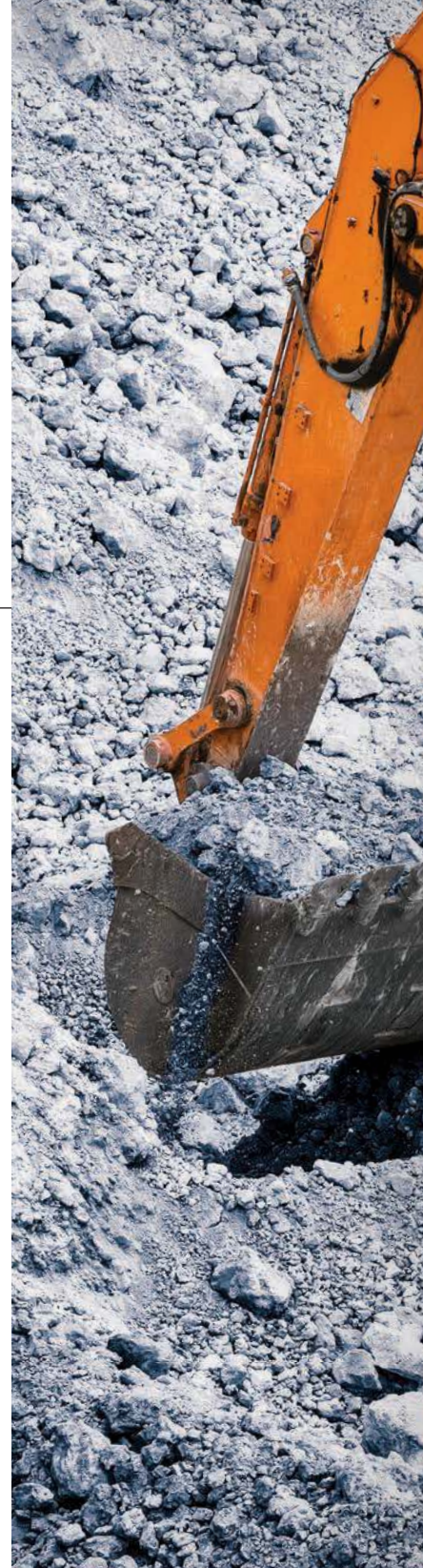
The boom, arm and mainframe are so tough, they're warranted for three years or 10,000 hours, whichever comes first.

The ZX470LC-6 is ready to
■ **TACKLE TOUGH JOBS.**



LONG-LASTING UNDERCARRIAGE

With large idlers, rollers and struted 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 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.

DURABLE DESIGN

The bucket-to-arm pivot joint features a new heat-treated pin and flanged bushing made of forged steel, to double joint life in sandy digging conditions. High-strength floating-pin design extends pin-case hardening depth by 175 percent, boosting wear life and easing serviceability.

SPECIFICATIONS

ZX470LC-6

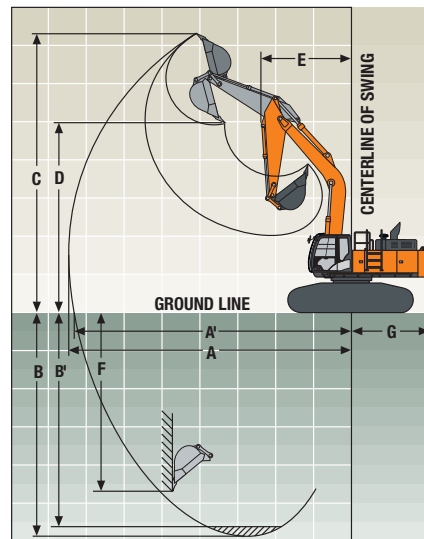
| | | | |
|---|--|---------------------|--------------------|
| Engine | | ZX470LC-6 | |
| Manufacturer and Model | Isuzu 6UZI | | |
| Non-Road Emission Standards | EPA Final Tier 4 / EU Stage IV | | |
| Net Rated Power (ISO 9249) | 270 kW (362 hp) @ 2,000 rpm | | |
| Cylinders | 6 | | |
| Displacement | 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, pilot controlled | | | |
| 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.) |

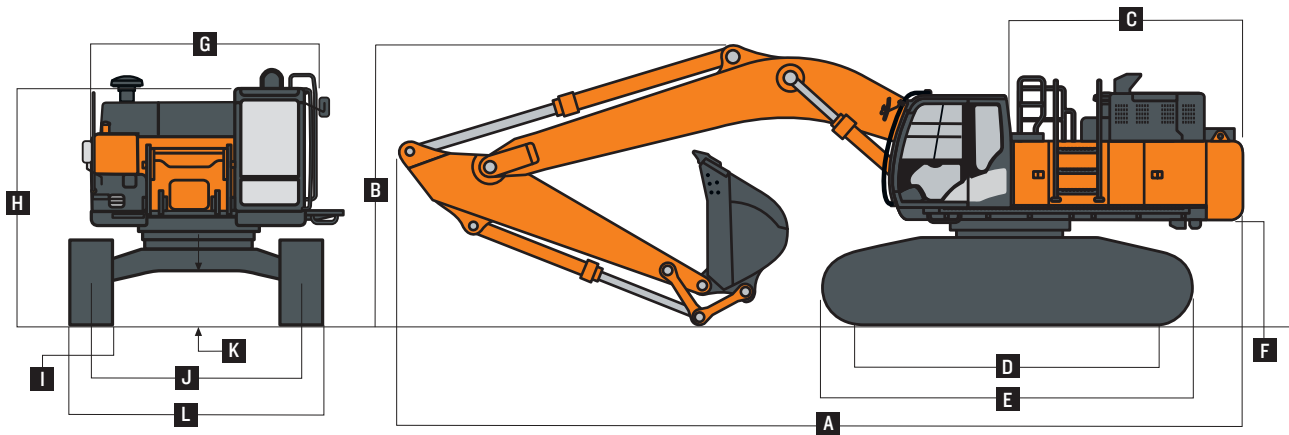
SPECIFICATIONS

ZX470LC-6

| 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.) |



SPECIFICATIONS

ZX470LC-6

Lift Charts ZX470LC-6

Loadface 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-m ³ (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 (49,350) | 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 (40,110) | 18 450 (40,600) | 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 (40,920) | 18 470 (40,210) | 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 (51,590) | 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 (40,050) | 18 590 (40,050) | 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 (22,590) | 6410 (18,640) | | |
| -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-m ³ (3.0 cu. yd.) bucket and 900-mm (36 in.) triple semi-grouser shoes | | | | | | | | | | | | | | |
| 6.0 m (20 ft.) | | | | | | | 13 260 | 13 260 | 11 450 | 10 090 | | | | |
| | | | | | | | (28,560) | (28,560) | (24,910) | (21,660) | | | | |
| 4.5 m (15 ft.) | | | | | 21 100 | 21 100 | 15 270 | 14 040 | 12 440 | 9720 | 10 830 | 7000 | | |
| | | | | | (44,910) | (44,910) | (32,750) | (30,070) | (26,860) | (20,800) | (23,590) | (14,970) | | |
| 3.0 m (10 ft.) | | | | | | | 17 260 | 13 150 | 13 500 | 9280 | 11 310 | 6810 | | |
| | | | | | | | (37,080) | (28,180) | (29,090) | (19,840) | (24,520) | (14,550) | | |
| 1.5 m (5 ft.) | | | | | | | 18 540 | 12 480 | 14 300 | 8910 | 11 350 | 6620 | | |
| | | | | | | | (39,980) | (26,790) | (30,810) | (19,010) | (24,300) | (14,130) | | |
| Ground Line | | | | | 18 040 | 18 040 | 18 810 | 12 150 | 14 570 | 8660 | 11 210 | 6490 | | |
| | | | | | (42,030) | (41,240) | (40,680) | (26,070) | (31,400) | (18,490) | (24,020) | (13,870) | | |
| -1.5 m (-5 ft.) | | 14 410 | 14 410 | 23 410 | 19 250 | 18 100 | 12 090 | 14 110 | 8590 | | | | | |
| | | (32,620) | (32,620) | (51,050) | (41,460) | (39,140) | (25,910) | (30,340) | (18,340) | | | | | |
| -3.0 m (-10 ft.) | | 25 090 | 25 090 | 20 680 | 19 560 | 16 290 | 12 250 | 12 510 | 8710 | | | | | |
| | | (54,980) | (54,980) | (44,930) | (42,090) | (35,050) | (26,230) | (26,600) | (18,620) | | | | | |
| -4.5 m (-15 ft.) | | | | | 16 300 | 16 300 | 12 690 | 12 670 | | | | | | |
| | | | | | (34,880) | (34,880) | (26,720) | (26,720) | | | | | | |
| With 3.4-m (11 ft. 2 in.) arm, 7.0-m (23 ft.) boom, 2.1-m ³ (2.7 cu. yd.) bucket and 900-mm (36 in.) triple semi-grouser shoes | | | | | | | | | | | | | | |
| 7.5 m (25 ft.) | | | | | | | | | 10 340 | 10 340 | | | | |
| | | | | | | | | | (22,650) | (22,650) | | | | |
| 6.0 m (20 ft.) | | | | | | | | | 10 990 | 10 390 | 9760 | 7420 | | |
| | | | | | | | | | (23,910) | (22,330) | (18,910) | (15,850) | | |
| 4.5 m (15 ft.) | | | | | 19 590 | 19 590 | 14 580 | 14 400 | 12 040 | 9980 | 10 580 | 7260 | | |
| | | | | | (41,940) | (41,940) | (31,450) | (31,040) | (26,110) | (21,460) | (23,040) | (15,560) | | |
| 3.0 m (10 ft.) | | | | | 21 700 | 21 010 | 16 770 | 13 520 | 13 220 | 9510 | 11 160 | 7010 | | |
| | | | | | (51,720) | (45,320) | (36,170) | (29,140) | (28,610) | (20,470) | (24,240) | (15,050) | | |
| 1.5 m (5 ft.) | | | | | 13 630 | 13 630 | 18 390 | 12 820 | 14 190 | 9100 | 11 510 | 6780 | | |
| | | | | | (32,940) | (32,940) | (39,730) | (27,620) | (30,710) | (19,590) | (24,740) | (14,570) | | |
| Ground Line | | | | | 16 690 | 16 690 | 19 040 | 12 410 | 14 680 | 8820 | 11 330 | 6620 | | |
| | | | | | (38,950) | (38,950) | (41,220) | (26,720) | (31,780) | (18,980) | (24,360) | (14,220) | | |
| -1.5 m (-5 ft.) | | 11 830 | 11 830 | 23 690 | 19 530 | 18 680 | 12 270 | 14 490 | 8690 | 11 270 | 6560 | | | |
| | | (26,860) | (26,860) | (53,970) | (41,920) | (40,460) | (26,390) | (31,340) | (18,700) | (24,250) | (14,120) | | | |
| -3.0 m (-10 ft.) | | 20 250 | 20 250 | 22 440 | 19 730 | 17 260 | 12 330 | 13 350 | 8730 | | | | | |
| | | (45,890) | (45,890) | (48,650) | (42,360) | (37,280) | (26,520) | (28,700) | (18,800) | | | | | |
| -4.5 m (-15 ft.) | | 23 560 | 23 560 | 18 530 | 18 530 | 14 340 | 12 600 | 10 290 | 9010 | | | | | |
| | | (50,800) | (50,800) | (39,860) | (39,860) | (30,650) | (27,140) | | | | | | | |

SPECIFICATIONS

ZX470LC-6

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-m ³ (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 (49,350) | 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 (40,350) | 18 450 (40,350) | 17 800 (38,470) | 12 900 (27,800) | 13 780 (29,820) | 9130 (19,650) | 11 360 (24,640) | 6780 (14,560) | 6690 | 5170 |
| Ground Line | | | | | 18 470 (40,350) | 18 470 (40,350) | 18 780 (41,770) | 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 (50,990) | 19 300 (42,360) | 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 (40,500) | 18 590 (40,500) | 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 (22,590) | 6510 (14,130) | | |
| -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-m ³ (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 (20,530) | 8140 (17,560) | | |
| 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 (45,400) | 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 (48,300) | 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 (46,560) | 21 400 (46,560) | 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-m ³ (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) | | | | | | |

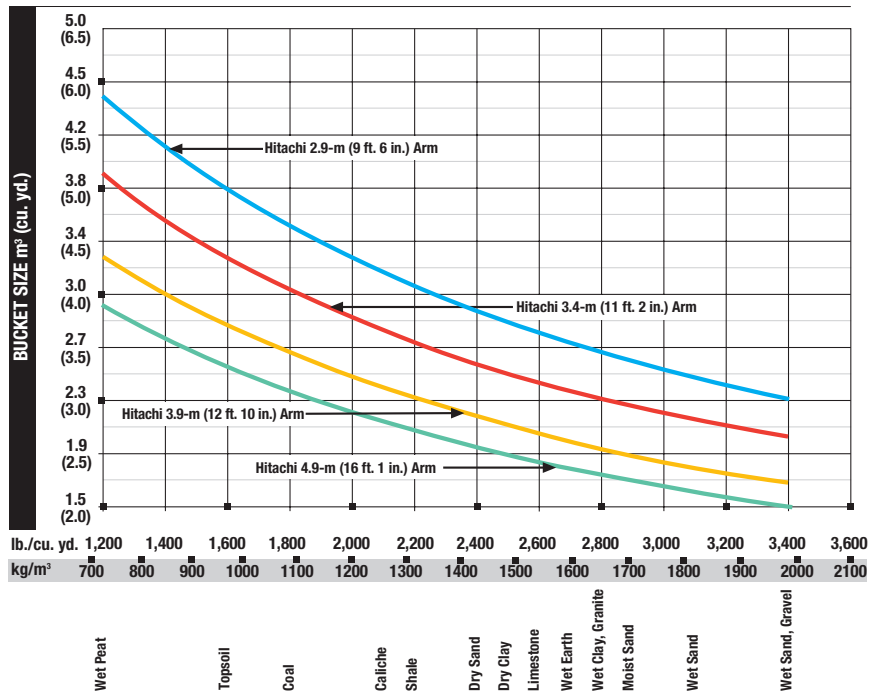
Buckets

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. | m ³ | cu. yd. | kg | lb. |
| General Purpose | 1372 | 54 | 1.76 | 2.3 | 1006 | 2,217 |
| | 1219 | 48 | 1.64 | 2.1 | 1507 | 3,323 |
| Heavy-Duty | 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 |
| | 1829 | 72 | 3.20 | 4.2 | 1970 | 4,344 |
| Truck Loading | 1219 | 48 | 2.06 | 2.7 | 1802 | 3,973 |
| Heavy-Duty High Capacity | 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.

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-m³ (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-m³ (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-m³ (6.8 cu. ft.) bucket, 400-mm (16 in.) rubber track and 745-kg (1,642 lb.) counterweight.

HITACHI