

PRODUCTION-CLASS EXCAVATORS

ZAXIS

# DASH-6

ZX670LC-6  
ZX870LC-6



HITACHI

## PROVEN PERFORMANCE PASSED DOWN.

### PRODUCTIVITY-BOOSTING ADVANTAGES.

At Hitachi, efficiency, reliability and durability are in our genes – built into our large mining excavators and passed down to our line of construction excavators. So you get maximum performance, no matter which Hitachi excavator you're running. And the ZX670LC-6 and ZX870LC-6, our largest production-class excavators, are no exceptions.

These models feature a fuel-efficient EPA Final Tier 4 (FT4)/EU Stage IV Isuzu engine that meets rigid emission standards. The best part? No diesel particulate filter (DPF) is needed. You also get generous swing torque, digging force and lift capacity. Convenient machine access with steps and upperstructure walkways. Easy-to-operate controls for smooth and responsive hydraulics. Highly efficient cooling system. And simplified maintenance with features like a battery disconnect switch and engine and hydraulic oil sample ports. Add it all up, and the ZX670LC-6 and ZX870LC-6 are...

### POWERFUL WORKHORSES.



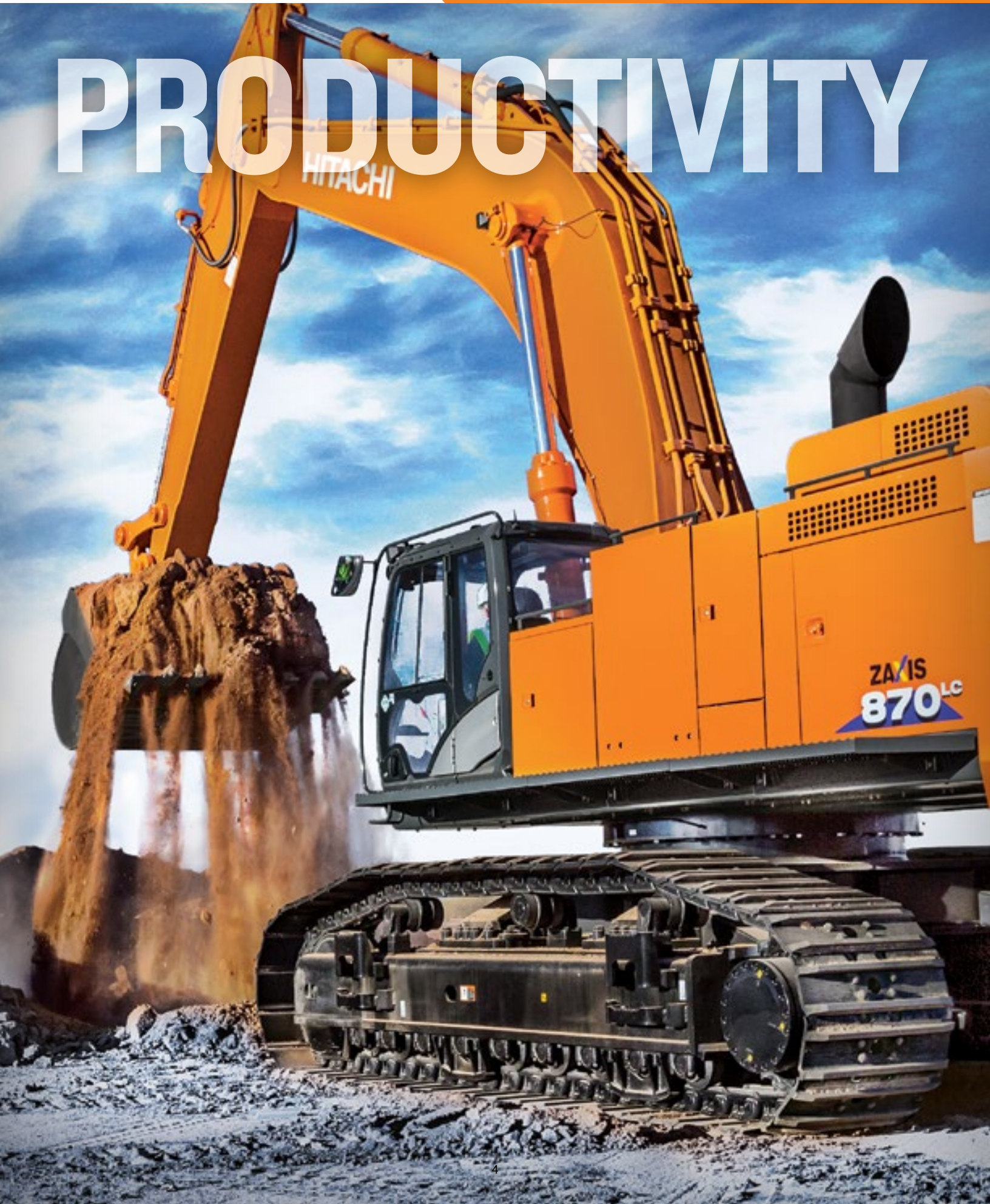


# PERFORMANCE

ZX670LC-6/ZX870LC-6

ZAXIS | DASH-6 PRODUCTION-CLASS EXCAVATORS

# PRODUCTIVITY





# MORE WORK DONE, MORE EFFICIENTLY.

## RELIABLE PERFORMANCE.

The ZX670LC-6 and ZX870LC-6 take productivity to a higher level. Our HIOS III hydraulic system perfectly balances engine performance with hydraulic flow. The hydraulic boost system and enhanced boom recirculation generate aggressive boom and arm speed – returning the arm to dig faster, so you can move more dirt in a day.

Three modes provide efficient power to fit the task. High Productivity (H/P) delivers more power and faster hydraulic response. Power (PWR) delivers a balance of power and speed, plus fuel economy for normal operation. Economy (ECO) maximizes fuel efficiency while delivering an enhanced level of productivity.

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

With the ZX670LC-6 and ZX870LC-6, you get...

## PRODUCTIVITY ON A HIGHER LEVEL.

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

- Stay on schedule with generous swing torque, digging force and lift capacity.

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

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

## MAXIMUM COMFORT. MAXIMUM PRODUCTIVITY.

### COMFORTABLE AND SAFE CAB.

It's true – a more comfortable operator is more productive and efficient. And the ZX670LC-6 and ZX870LC-6 keep operators focused on the job. Silicone-filled cab mounts provide isolation from noise and vibration. An LCD monitor provides access to a wealth of performance information and functions. Operators will also appreciate the wide entryway, fully adjustable high-back sculpted seat, storage space and generous legroom. Unsurpassed visibility, ergonomically placed low-effort joysticks, a highly efficient HVAC system, plus other features contribute to...

### COMFORTABLE PRODUCTIVITY.



■ Multi-language LCD monitor and rotary dial provide easy access to machine info and functions. Turn and tap to select work modes, monitor maintenance intervals, check diagnostic codes and set cab temperature. Control oil flow and toggle between dig and thumb modes with a programmable thumb attachment mode.



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



■ Get unobstructed all-around visibility thanks to a wide expanse of front, side and overhead glass and mirrors.



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

# COMFORT



■ The ZX670LC-6 and ZX870LC-6 are 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.

■ 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.

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



# EFFICIENT

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

■ Auto-idle, which reduces engine speed when hydraulics aren't in use, and auto-shutdown contribute to fuel efficiency.

■ A battery disconnect switch, located in the battery box on the right side of the machine, is easily accessible and extends battery life.

■ The FT4 engine solution does not require a diesel particulate filter (DPF), saving service time and lowering operating costs. Fluid consumption (fuel and diesel exhaust fluid [DEF]) is equal or reduced compared to ZX670LC-5 or ZX870LC-5 (Interim Tier 4/EU Stage IIIB) consumption.



# LESS MAINTENANCE TIME. MORE UPTIME.

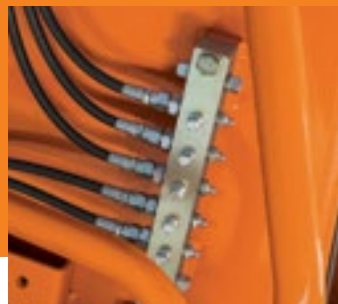
## SIMPLE SERVICING.

The ZX670LC-6 and ZX870LC-6 are 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 lower daily operating costs. Scheduled maintenance is easy to track using ZXLink™ and the in-cab diagnostic monitor. These models work hard so you have...

## LOWER OPERATING COSTS.



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



■ Centralized lube banks place zerks within easy reach, making greasing less messy and time-consuming.



■ Easily installed spin-on main fuel filters help prevent contamination when servicing. Two additional water separators help extend fuel filter life.



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

## DURABILITY BUILT-IN, DOWNTIME TOSSED OUT.

### TACKLE TOUGH JOBS.

Toughness is built into the ZX670LC-6 and ZX870LC-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. Add it all up, and these models give you...

### DEPENDABLE DURABILITY.

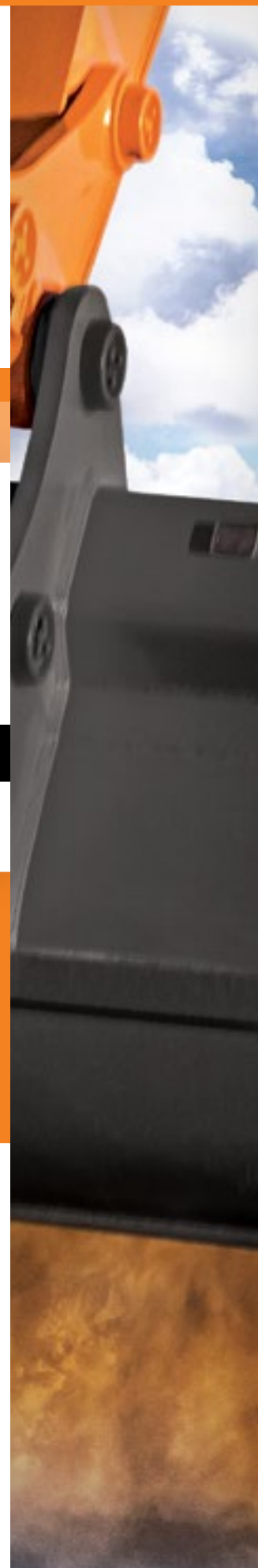
■ Our FT4 field-proven technology is simple and efficient, employing cooled exhaust gas recirculation (EGR), a diesel oxidation catalyst (DOC) and selective catalytic reduction (SCR). An improved piston design allows particulate matter to be burned in cylinder, so there's no need for a DPF.

■ With large idlers, rollers and strutted track links, the sealed and lubricated undercarriage is built for the long haul.

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

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

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





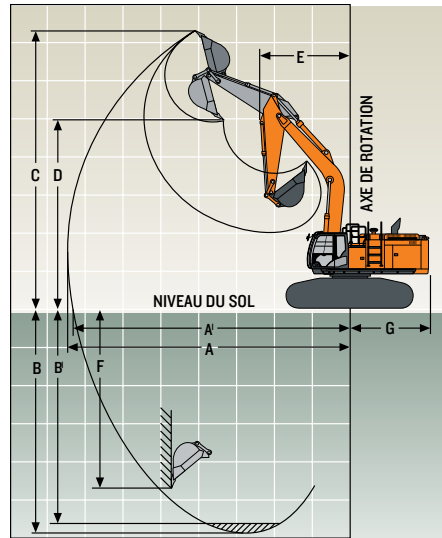
**DURABILITY**

|   |   |   |                  |
|---|---|---|------------------|
| <b>Engine</b>                                   |   | <b>ZX670LC-6</b>  |                  |
| Manufacturer and Model                          | Isuzu 6WGI-FT4  |   |                  |
| Non-Road Emission Standard                      | EPA Final Tier 4/EU Stage IV  |   |                  |
| Net Rated Power (ISO 9249)                      | 345 kW (463 hp) @ 1,800 rpm   |   |                  |
| Cylinders                                       | 6   |   |                  |
| Displacement                                    | 15.68 L (957 cu. in.)   |   |                  |
| Off-Level Capacity                              | 70% (35 deg.)   |   |                  |
| Aspiration                                      | Turbocharged, air-to-air charge-air cooler                                    |   |                  |
| <b>Cooling</b>                                  |   | 2 cool-on-demand hydraulic-driven, suction-type fans with remote-mounted drives                       |                  |
| <b>Powertrain</b>                               |   | 2-speed propel  |                  |
| <b>Maximum Travel Speed</b>                     |   |   |                  |
| Low   | 3.6 km/h (2.2 mph)  |   |                  |
| High  | 5.2 km/h (3.2 mph)  |   |                  |
| Drawbar Pull                                    | 46 115 kg (101,666 lb.)   |   |                  |
| <b>Hydraulics</b>                               |   | Open center, load sensing   |                  |
| <b>Main Pumps</b>                               |   | 2 variable-displacement pumps   |                  |
| Maximum Rated Flow                              | 489 L/m (129 gpm) x 2   |   |                  |
| <b>Pilot Pump</b>                               |   | One gear  |                  |
| Maximum Rated Flow                              | 30 L/m (7.9 gpm)  |   |                  |
| Pressure Setting                                | 3900 kPa (566 psi)  |   |                  |
| <b>System Operating Pressure</b>                |   |   |                  |
| <b>Circuits</b>                                 |   |   |                  |
| Implement                                       | 31 900 kPa (4,627 psi)  |   |                  |
| Travel  | 34 300 kPa (4,975 psi)  |   |                  |
| Swing   | 29 400 kPa (4,264 psi)  |   |                  |
| Power Boost                                     | 34 300 kPa (4,975 psi)  |   |                  |
| <b>Controls</b>                                 |   | Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever                    |                  |
| <b>Cylinders</b>                                |   | Heat-treated, chrome-plated, polished cylinder rods, hardened steel (replaceable bushings) pivot pins |                  |
|   | <b>Bore</b>   | <b>Rod Diameter</b>   | <b>Stroke</b>    |
| <b>Boom (2)</b>                                 | 191 mm (7.5 in.)  | 130 mm (5.1 in.)  | 1806 mm (71 in.) |
| <b>Arm (1)</b>                                  | 201 mm (7.9 in.)  | 140 mm (5.5 in.)  | 2164 mm (85 in.) |
| <b>Bucket (1)</b>                               | 180 mm (7.1 in.)  | 130 mm (5.1 in.)  | 1555 mm (61 in.) |
| <b>Electrical</b>                               |   |   |                  |
| Number of Batteries (12 volt)                   | 2   |   |                  |
| Battery Capacity                                | 500 CCA   |   |                  |
| Alternator Rating                               | 50 amp  |   |                  |
| Work Lights                                     | 5 halogen (1 mounted on frame, 2 mounted on boom and 2 mounted on top of cab) |   |                  |
| <b>Undercarriage</b>                            |   |   |                  |
| <b>Rollers (each side)</b>                      |   |   |                  |
| Carrier   | 3   |   |                  |
| Track   | 8   |   |                  |
| Double-Bar Grouser Shoes (each side)            | 47  |   |                  |
| <b>Track</b>                                    |   |   |                  |
| Adjustment                                      | Hydraulic   |   |                  |
| Guides  | Front and center  |   |                  |
| Chain   | Sealed and lubricated   |   |                  |
| Planetary Final Drives with Axial Piston Motors |   |   |                  |

# ZX670LC-6

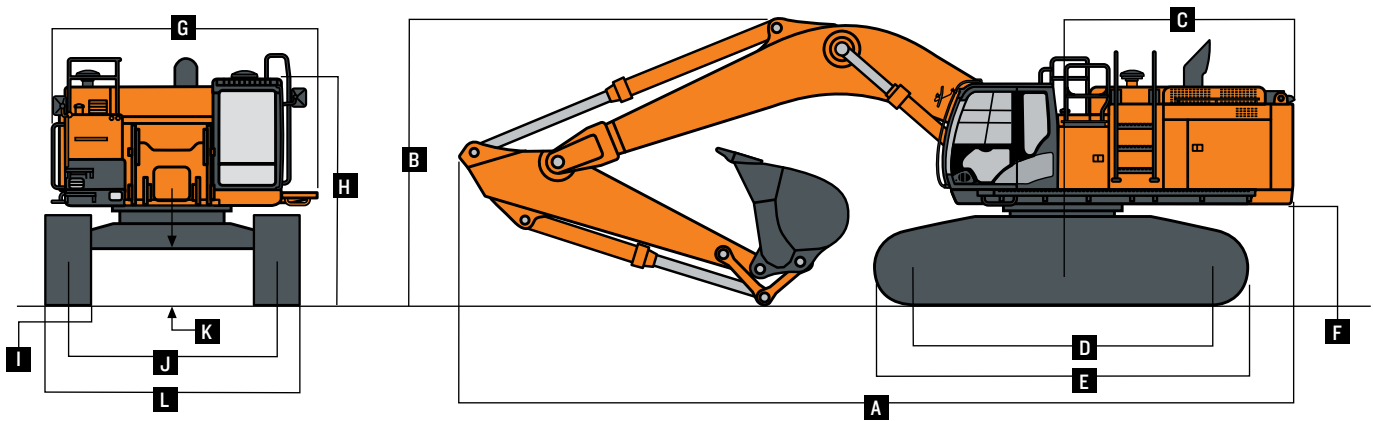
| <b>Ground Pressure</b>  |  | <b>ZX670LC-6</b>             |
|---|--|------------------------------|
| 650-mm (26 in.) Double-Bar Grouser Shoes  |  | 104.2 kPa (15.1 psi)         |
| 750-mm (30 in.) Double-Bar Grouser Shoes  |  | 90.3 kPa (13.1 psi)          |
| 900-mm (36 in.) Double-Bar Grouser Shoes  |  | 75.3 kPa (10.9 psi)          |
| <b>Swing Mechanism</b>  |  |                              |
| Swing Speed   |  | 9.1 rpm                      |
| Swing Torque  |  | 206 000 Nm (151,938 lb.-ft.) |
| <b>Serviceability</b>   |  |                              |
| <b>Refill Capacities</b>  |  |                              |
| Fuel Tank   |  | 900 L (238 gal.)             |
| Diesel Exhaust Fluid (DEF) Tank   |  | 95 L (25.1 gal.)             |
| Cooling System  |  | 76 L (20.1 gal.)             |
| Engine Oil with Filter  |  | 57 L (15.1 gal.)             |
| Hydraulic Tank  |  | 380 L (100.4 gal.)           |
| Hydraulic System  |  | 750 L (198.1 gal.)           |
| <b>Gearbox</b>  |  |                              |
| Swing (each)  |  | 10.5 L (11.1 qt.)            |
| Travel (each)   |  | 16 L (16.9 qt.)              |
| Pump Drive  |  | 6.2 L (6.6 qt.)              |
| <b>Operating Weights</b>  |  |                              |
| With full fuel tank; 79-kg (175 lb.) operator; 3.09-m <sup>3</sup> (4.04 cu. yd.), 1370-mm (54 in.), 3126-kg (6,892 lb.) bucket; 4.2-m (13 ft. 9 in.) arm; 9800-kg (21,605 lb.) counterweight; counterweight removal device; and 900-mm (36 in.) double-bar grouser shoes |  |                              |
| SAE Operating Weight  |  | 69 900 kg (154,103 lb.)      |
| <b>Components</b>   |  |                              |
| <b>Undercarriage w/ Double-Bar Grouser Shoes</b>  |  |                              |
| 650 mm (26 in.)   |  | 26 953 kg (59,421 lb.)       |
| 750 mm (30 in.)   |  | 27 333 kg (60,259 lb.)       |
| 900 mm (36 in.)   |  | 28 353 kg (62,508 lb.)       |
| <b>One-Piece Boom (with arm cylinder)</b>   |  |                              |
| 7.8 m (25 ft. 7 in.)  |  | 6560 kg (14,462 lb.)         |
| 6.8-m (22 ft. 4 in.) Mass Excavating  |  | 6130 kg (13,514 lb.)         |
| <b>Arm with Bucket Cylinder and Linkage</b>   |  |                              |
| 3.6 m (11 ft. 10 in.)   |  | 3640 kg (8,025 lb.)          |
| 4.2 m (13 ft. 9 in.)  |  | 3840 kg (8,466 lb.)          |
| 5.3 m (17 ft. 5 in.)  |  | 3620 kg (7,981 lb.)          |
| 2.9-m (9 ft. 6 in.) Mass Excavating   |  | 3715 kg (8,190 lb.)          |
| Boom-Lift Cylinders (2), Total Weight   |  | 1135 kg (2,502 lb.)          |
| Counterweight with Standard Mainframe   |  | 10 400 kg (22,928 lb.)       |

| Operating Dimensions        |  | ZX670LC-6   |  |  |   |
|-----------------------------|--|---|--|--|---|
| <b>Arm Length</b>           |  | <b>3.6 m (11 ft. 10 in.) w/<br/>7.8-m (25 ft. 7 in.) Boom</b> | <b>4.2 m (13 ft. 9 in.) w/<br/>7.8-m (25 ft. 7 in.) Boom</b> | <b>5.3 m (17 ft. 5 in.) w/<br/>7.8-m (25 ft. 7 in.) Boom</b> | <b>2.9-m (9 ft. 6 in.)<br/>Mass Excavating w/<br/>6.8-m (22 ft. 4 in.)<br/>Mass-Excavating Boom</b> |
| <b>Arm Digging Force</b>    |  |   |  |  |   |
| SAE                         |  | 247 kN (55,528 lb.)   | 224 kN (50,357 lb.)  | 192 kN (43,163 lb.)  | 297 kN (66,768 lb.)   |
| ISO                         |  | 255 kN (57,326 lb.)   | 231 kN (51,931 lb.)  | 196 kN (44,063 lb.)  | 306 kN (68,792 lb.)   |
| <b>Bucket Digging Force</b> |  |   |  |  |   |
| SAE                         |  | 290 kN (65,195 lb.)   | 290 kN (65,195 lb.)  | 245 kN (55,078 lb.)  | 332 kN (74,637 lb.)   |
| ISO                         |  | 324 kN (72,838 lb.)   | 324 kN (72,838 lb.)  | 277 kN (62,272 lb.)  | 369 kN (82,954 lb.)   |
| <b>A</b>                    | <b>Maximum Reach</b>   | 13.25 m (43 ft. 6 in.)  | 13.85 m (45 ft. 5 in.)                                       | 14.74 m (48 ft. 4 in.)                                       | 11.81 m (38 ft. 9 in.)  |
| <b>A'</b>                   | <b>Maximum Reach at Ground Level</b>                           | 13 m (42 ft. 8 in.)   | 13.61 m (44 ft. 8 in.)                                       | 14.51 m (47 ft. 7 in.)                                       | 11.50 m (37 ft. 9 in.)  |
| <b>B</b>                    | <b>Maximum Digging Depth</b>                                   | 8.53 m (28 ft.)   | 9.15 m (30 ft.)  | 10.03 m (32 ft. 11 in.)                                      | 7.12 m (23 ft. 4 in.)   |
| <b>B'</b>                   | <b>Maximum Digging Depth at<br/>2.44-m (8 ft.) Flat Bottom</b> | 8.40 m (27 ft. 7 in.)   | 9.03 m (29 ft. 8 in.)  | 9.92 m (32 ft. 7 in.)  | 6.97 m (22 ft. 10 in.)  |
| <b>C</b>                    | <b>Maximum Cutting Height</b>                                  | 11.92 m (39 ft. 1 in.)  | 12.24 m (40 ft. 2 in.)                                       | 12.65 m (41 ft. 6 in.)                                       | 11.92 m (39 ft. 1 in.)  |
| <b>D</b>                    | <b>Maximum Dumping Height</b>                                  | 8.05 m (26 ft. 5 in.)   | 8.33 m (27 ft. 4 in.)  | 9.17 m (30 ft. 1 in.)  | 7.33 m (24 ft. 1 in.)   |
| <b>E</b>                    | <b>Minimum Swing Radius</b>                                    | 5.78 m (19 ft.)   | 5.76 m (18 ft. 11 in.)                                       | 5.70 m (18 ft. 8 in.)  | 5.24 m (17 ft. 2 in.)   |
| <b>F</b>                    | <b>Maximum Vertical Wall</b>                                   | 7.38 m (24 ft. 3 in.)   | 8.18 m (26 ft. 10 in.)                                       | 9.17 m (30 ft. 1 in.)  | 5.28 m (17 ft. 4 in.)   |
| <b>G</b>                    | <b>Tail Swing Radius</b>                                       | 4.02 m (13 ft. 2 in.)   | 4.02 m (13 ft. 2 in.)  | 4.02 m (13 ft. 2 in.)  | 4.02 m (13 ft. 2 in.)   |



# ZX670LC-6

| Machine Dimensions   | ZX670LC-6   |
|--|---|
| <b>A</b> Overall Length w/ Arm                                     |   |
| 3.6 m (11 ft. 10 in.)  | 13.40 m (44 ft.)                                    |
| 4.2 m (13 ft. 9 in.)   | 13.40 m (44 ft.)                                    |
| 5.3 m (17 ft. 5 in.)   | 13.25 m (43 ft. 6 in.)                              |
| 2.9-m (9 ft. 6 in.) Mass Excavating with Mass-Excavating Boom      | 12.42 m (40 ft. 9 in.)                              |
| <b>B</b> Overall Height w/ Arm                                     |   |
| 3.6 m (11 ft. 10 in.)  | 4.46 m (14 ft. 8 in.)                               |
| 4.2 m (13 ft. 9 in.)   | 4.98 m (16 ft. 4 in.)                               |
| 5.3 m (17 ft. 5 in.)   | 5.28 m (17 ft. 4 in.)                               |
| 2.9-m (9 ft. 6 in.) Mass Excavating with Mass-Excavating Boom      | 4.96 m (16 ft. 3 in.)                               |
| <b>C</b> Rear-End Length   | 3.91 m (12 ft. 10 in.)                              |
| <b>D</b> Distance Between Idler/Sprocket Centerline                | 4.59 m (15 ft. 1 in.)                               |
| <b>E</b> Undercarriage Length                                      | 5.84 m (19 ft. 2 in.)                               |
| <b>F</b> Counterweight Clearance                                   | 1.53 m (5 ft.)                                      |
| <b>G</b> Upperstructure Width                                      | 4.09 m (13 ft. 5 in.)                               |
| <b>H</b> Cab Height  | 3.55 m (11 ft. 8 in.)                               |
| <b>I</b> Track Width w/ Double-Bar Grouser Shoes                   | 650 mm (26 in.) / 750 mm (30 in.) / 900 mm (36 in.) |
| <b>J</b> Gauge Width w/900-mm (36 in.) Double-Bar Grouser Shoes    |   |
| Operating Position   | 3.30 m (10 ft. 10 in.)                              |
| Transport Position   | 2.82 m (9 ft. 3 in.)                                |
| <b>K</b> Ground Clearance  | 0.86 m (34 in.)                                     |
| <b>L</b> Overall Width w/ 900-mm (36 in.) Double-Bar Grouser Shoes |   |
| Operating Position   | 4.20 m (13 ft. 9 in.)                               |
| Transport Position   | 3.73 m (12 ft. 3 in.)                               |

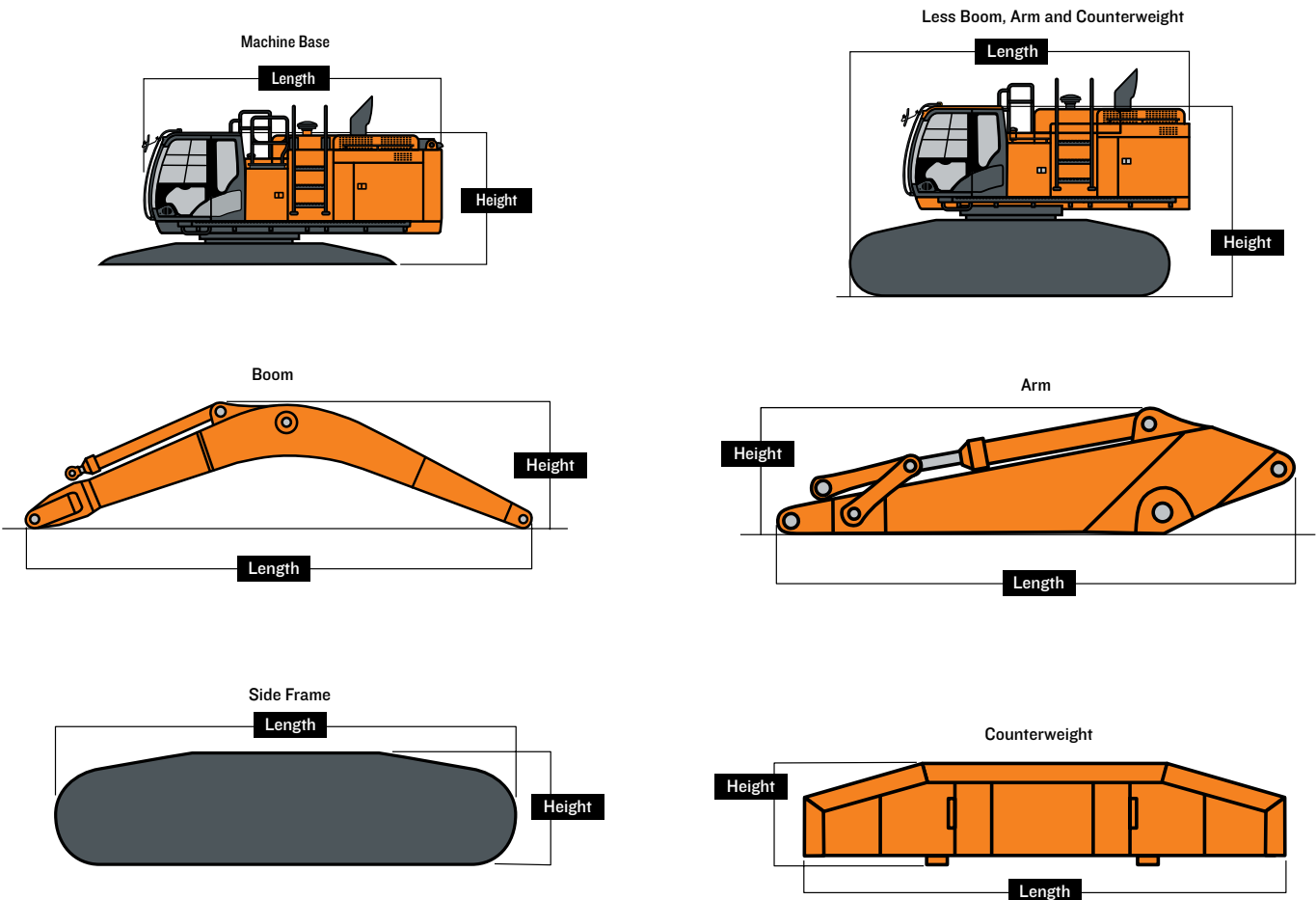


### Packing Dimensions and Weights for Transportation

| Base Machine<br>(without front attachment and side frame)* | Length                | Height  | Overall Width   | Weight  |
|--|-----------------------|---|---|---|
|  | 5.68 m (18 ft. 8 in.) | 2.77 m (9 ft. 1 in.)  | 3.42 m (11 ft. 3 in.)   | 21 400 kg (47,179 lb.)  |
| <b>Side Frame**</b>  |                       |   |   |   |
| 650-mm (26 in.) Shoe Width                                 | 5.85 m (19 ft. 2 in.) | 1.45 m (4 ft. 9 in.)  | 1.25 m (4 ft. 1 in.)  | 10 400 kg (22,928 lb.)  |
| 750-mm (30 in.) Shoe Width                                 | 5.85 m (19 ft. 2 in.) | 1.45 m (4 ft. 9 in.)  | 1.25 m (4 ft. 1 in.)  | 10 600 kg (23,369 lb.)  |
| 900-mm (36 in.) Shoe Width                                 | 5.85 m (19 ft. 2 in.) | 1.45 m (4 ft. 9 in.)  | 1.32 m (4 ft. 4 in.)  | 11 100 kg (24,471 lb.)  |
| <b>Counterweight, Standard</b>                             | 3.36 m (11 ft.)       | 1.55 m (5 ft. 1 in.)  | 0.59 m (23 in.)   | 10 400 kg (22,928 lb.)  |
| <b>Boom</b>  |                       |   |   |   |
| 6.8 m (22 ft. 4 in.)                                       | 7.14 m (23 ft. 5 in.) | 2.51 m (8 ft. 3 in.)  | 1.39 m (4 ft. 7 in.)  | 6130 kg (13,514 lb.)  |
| 7.8 m (25 ft. 7 in.)                                       | 8.13 m (26 ft. 8 in.) | 2.33 m (7 ft. 8 in.)  | 1.39 m (4 ft. 7 in.)  | 6560 kg (14,462 lb.)  |
| <b>Arm</b>   |                       |   |   |   |
| 2.9-m (9 ft. 6 in.) Mass Excavating                        | 4.37 m (14 ft. 4 in.) | 1.69 m (5 ft. 7 in.)  | 0.80 m (31 in.)   | 3715 kg (8,190 lb.)   |
| 3.6 m (11 ft. 10 in.)                                      | 5.11 m (16 ft. 9 in.) | 1.44 m (4 ft. 9 in.)  | 0.80 m (31 in.)   | 3640 kg (8,025 lb.)   |
| 4.2 m (13 ft. 9 in.)                                       | 5.71 m (18 ft. 9 in.) | 1.39 m (4 ft. 7 in.)  | 0.80 m (31 in.)   | 3840 kg (8,466 lb.)   |
| 5.3 m (17 ft. 5 in.)                                       | 6.73 m (22 ft. 1 in.) | 1.26 m (4 ft. 2 in.)  | 0.80 m (31 in.)   | 3620 kg (7,981 lb.)   |
| <b>Length Less Boom, Arm and Counterweight</b>             | 6.70 m (22 ft.)       | 3.68 m (12 ft. 1 in.) /<br>3.76 m (12 ft. 4 in.)<br>without exhaust stack | 3.48 m (11 ft. 5 in.) w/<br>650-mm (26 in.) shoes /<br>3.58 m (11 ft. 9 in.) w/<br>750-mm (30 in.) shoes /<br>3.73-m (12 ft. 3 in.) w/<br>900-mm (36 in.) shoes | 43 999 kg (97,000 lb.) w/<br>650-mm (26 in.) shoes /<br>44 402 kg (97,890 lb.) w/<br>750-mm (30 in.) shoes /<br>45 404 kg (100,100 lb.) w/<br>900-mm (36 in.) shoes |

\*Steps on the track frame, exhaust stack, side hydraulic oil tank, handrails and upper fuel tank must be removed to comply with the width dimensions above.

\*\*The dimensions and the weights indicate those of one side frame.





# ZX670LC-6

## Lift Charts

## ZX670LC-6

**Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.).** Ratings at bucket lift hook; 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. All lift capacities are based on ISO 10567 (with power boost).

| Load Point Height  | 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   |
| With 2.5-m <sup>3</sup> (3.3 cu. yd.) bucket, 4.2-m (13 ft. 9 in.) arm, 7.8-m (25 ft. 7 in.) boom, and 650-mm (26 in.) double-bar grouser shoes      |                |               |                |               |                |               |                |               |                |               |                 |             |
| 7.5 m (25 ft.)   |                |               |                |               |                |               |                |               | <b>10 880</b>  | <b>10 880</b> | <b>6780</b>     | <b>6780</b> |
|  |                |               |                |               |                |               |                |               | (23,790)       | (23,790)      |                 |             |
| 6.0 m (20 ft.)   |                |               |                |               |                |               |                |               | <b>11 700</b>  | <b>11 700</b> | <b>10 070</b>   | 8980        |
|  |                |               |                |               |                |               |                |               | (25,460)       | (25,460)      | (20,250)        | (19,170)    |
| 4.5 m (15 ft.)   |                |               |                |               | <b>18 420</b>  | <b>18 420</b> | <b>14 850</b>  | <b>14 850</b> | <b>12 770</b>  | 11 620        | <b>11 490</b>   | 8760        |
|  |                |               | (54,750)       | (54,750)      | (39,600)       | (39,600)      | (32,080)       | (32,080)      | (27,710)       | (24,970)      | (25,020)        | (18,730)    |
| 3.0 m (10 ft.)   |                |               |                |               | 21 780         | 21 380        | 16 790         | 15 010        | 13 940         | 11 100        | 12 150          | 8450        |
|  |                |               |                |               | (46,870)       | (46,090)      | (36,260)       | (32,310)      | (30,190)       | (23,860)      | (26,400)        | (18,120)    |
| 1.5 m (5 ft.)  |                |               |                |               | 24 280         | 20 160        | 18 420         | 14 250        | 14 970         | 10 630        | 12 040          | 8170        |
|  |                |               |                |               | (52,390)       | (43,420)      | (39,820)       | (30,680)      | (32,420)       | (22,850)      | (25,850)        | (17,520)    |
| Ground Line  |                |               | <b>14 150</b>  | <b>14 150</b> | 25 550         | 19 440        | 19 470         | 13 720        | 15 170         | 10 270        | 11 800          | 7950        |
|  |                |               | (32,800)       | (32,800)      | (55,260)       | (41,810)      | (42,130)       | (29,510)      | (32,610)       | (22,070)      | (25,360)        | (17,050)    |
| -1.5 m (-5 ft.)  | <b>10 800</b>  | <b>10 800</b> | 19 890         | 19 890        | 25 670         | 19 120        | 19 800         | 13 420        | 14 940         | 10 050        | 11 680          | 7830        |
|  | (24,430)       | (24,430)      | (45,600)       | (45,600)      | (55,570)       | (41,090)      | (42,840)       | (28,850)      | (32,110)       | (21,610)      | (25,120)        | (16,820)    |
| -3.0 m (-10 ft.)   | <b>17 780</b>  | <b>17 780</b> | 27 900         | 27 900        | 24 710         | 19 090        | 19 270         | 13 340        | 14 880         | 10 000        |                 |             |
|  | (40,170)       | (40,170)      | (63,880)       | (63,880)      | (53,470)       | (41,010)      | (41,640)       | (28,680)      | (32,010)       | (21,520)      |                 |             |
| -4.5 m (-15 ft.)   | <b>26 090</b>  | <b>26 090</b> | 29 340         | 29 340        | 22 540         | 19 310        | 17 630         | 13 480        | 13 570         | 10 180        |                 |             |
|  | (59,140)       | (59,140)      | (63,390)       | (63,390)      | (48,600)       | (41,510)      | (37,850)       | (29,010)      | (28,680)       | (21,960)      |                 |             |
| -6.0 m (-20 ft.)   |                |               | 23 970         | 23 970        | 18 550         | 18 550        | 13 910         | 13 910        |                |               |                 |             |
|  |                |               | (51,240)       | (51,240)      | (39,460)       | (39,460)      | (28,970)       | (28,970)      |                |               |                 |             |
| With 3.5-m <sup>3</sup> (4.6 cu. yd.) bucket, 2.9-m (9 ft. 6 in.) BE arm, 6.8-m (22 ft. 4 in.) BE boom, and 650-mm (26 in.) double-bar grouser shoes |                |               |                |               |                |               |                |               |                |               |                 |             |
| 7.5 m (25 ft.)   |                |               |                |               |                |               | <b>14 400</b>  | <b>14 400</b> |                |               |                 |             |
|  |                |               |                |               |                |               | (31,610)       | (31,610)      |                |               |                 |             |
| 6.0 m (20 ft.)   |                |               |                |               | <b>17 530</b>  | <b>17 530</b> | <b>15 280</b>  | <b>15 280</b> |                |               |                 |             |
|  |                |               |                |               | (37,890)       | (37,890)      | (33,220)       | (33,220)      |                |               |                 |             |
| 4.5 m (15 ft.)   |                |               |                |               | 20 470         | 20 470        | 16 700         | 15 250        | <b>14 650</b>  | 10 920        |                 |             |
|  |                |               |                |               | (44,110)       | (44,110)      | (36,200)       | (32,780)      | (31,940)       | (23,330)      |                 |             |
| 3.0 m (10 ft.)   |                |               |                |               | 23 430         | 21 030        | 18 260         | 14 580        | 15 370         | 10 630        |                 |             |
|  |                |               |                |               | (50,520)       | (45,280)      | (39,520)       | (31,340)      | (33,390)       | (22,790)      |                 |             |
| 1.5 m (5 ft.)  |                |               |                |               | 25 430         | 20 100        | 19 480         | 14 020        | 15 260         | 10 330        |                 |             |
|  |                |               |                |               | (54,940)       | (43,230)      | (42,140)       | (30,130)      | (32,750)       | (22,160)      |                 |             |
| Ground Line  |                |               |                |               | 26 020         | 19 610        | 19 950         | 13 670        | 15 070         | 10 150        |                 |             |
|  |                |               |                |               | (56,320)       | (42,140)      | (43,140)       | (29,370)      | (32,390)       | (21,820)      |                 |             |
| -1.5 m (-5 ft.)  |                |               | <b>33 520</b>  | 32 190        | 25 150         | 19 490        | 19 300         | 13 560        |                |               |                 |             |
|  |                |               | (72,780)       | (68,930)      | (54,430)       | (41,870)      | (41,640)       | (29,160)      |                |               |                 |             |
| -3.0 m (-10 ft.)   | <b>34 290</b>  | <b>34 290</b> | 29 560         | 29 560        | 22 510         | 19 710        | 16 670         | 13 790        |                |               |                 |             |
|  | (77,980)       | (77,980)      | (63,980)       | (63,980)      | (48,500)       | (42,350)      | (35,280)       | (29,730)      |                |               |                 |             |
| -4.5 m (-15 ft.)   |                |               | 22 630         | 22 630        | 16 490         | 16 490        |                |               |                |               |                 |             |
|  |                |               | (48,280)       | (48,280)      | (34,300)       | (34,300)      |                |               |                |               |                 |             |
| With 2.5-m <sup>3</sup> (3.3 cu. yd.) bucket, 4.2-m (13 ft. 9 in.) arm, 7.8-m (25 ft. 7 in.) boom, and 750-mm (30 in.) double-bar grouser shoes      |                |               |                |               |                |               |                |               |                |               |                 |             |
| 7.5 m (25 ft.)   |                |               |                |               |                |               |                |               | <b>10 880</b>  | <b>10 880</b> | <b>6780</b>     | <b>6780</b> |
|  |                |               |                |               |                |               |                |               | (23,790)       | (23,790)      |                 |             |
| 6.0 m (20 ft.)   |                |               |                |               |                |               |                |               | <b>11 700</b>  | <b>11 700</b> | <b>10 070</b>   | 9040        |
|  |                |               |                |               |                |               |                |               | (25,460)       | (25,460)      | (20,250)        | (19,290)    |
| 4.5 m (15 ft.)   |                |               |                |               | <b>18 420</b>  | <b>18 420</b> | <b>14 850</b>  | <b>14 850</b> | <b>12 770</b>  | 11 690        | <b>11 490</b>   | 8810        |
|  |                |               | (54,750)       | (54,750)      | (39,600)       | (39,600)      | (32,080)       | (32,080)      | (27,710)       | (25,120)      | (25,020)        | (18,860)    |
| 3.0 m (10 ft.)   |                |               |                |               | 21 780         | 21 500        | 16 790         | 15,090        | 13 940         | 11 170        | 12 150          | 8510        |
|  |                |               |                |               | (46,870)       | (46,340)      | (36,260)       | (32,500)      | (30,190)       | (24,010)      | (26,400)        | (18,240)    |
| 1.5 m (5 ft.)  |                |               |                |               | 24 280         | 20 280        | 18 420         | 14 340        | 14 970         | 10 700        | 12 120          | 8230        |
|  |                |               |                |               | (52,390)       | (43,670)      | (39,820)       | (30,870)      | (32,420)       | (23,000)      | (26,020)        | (17,640)    |
| Ground Line  |                |               | <b>14 150</b>  | <b>14 150</b> | 25 550         | 19 560        | 19 470         | 13 810        | 15 270         | 10 340        | 11 880          | 8000        |
|  |                |               | (32,800)       | (32,800)      | (55,260)       | (42,070)      | (42,130)       | (29,700)      | (32,810)       | (22,220)      | (25,520)        | (17,170)    |
| -1.5 m (-5 ft.)  | <b>10 800</b>  | <b>10 800</b> | 19 890         | 19 890        | 25 670         | 19 240        | 19 800         | 13 510        | 15 030         | 10 120        | 11 760          | 7890        |
|  | (24,430)       | (24,430)      | (45,600)       | (45,600)      | (55,570)       | (41,340)      | (42,840)       | (29,040)      | (32,310)       | (21,760)      | (25,280)        | (16,950)    |
| -3.0 m (-10 ft.)   | <b>17 780</b>  | <b>17 780</b> | 27 900         | 27 900        | 24 710         | 19 210        | 19 270         | 13 420        | 14 980         | 10 070        |                 |             |
|  | (40,170)       | (40,170)      | (63,880)       | (63,880)      | (53,470)       | (41,270)      | (41,640)       | (28,870)      | (32,210)       | (21,670)      |                 |             |
| -4.5 m (-15 ft.)   | <b>26 090</b>  | <b>26 090</b> | 29 340         | 29 340        | 22 540         | 19 430        | 17 630         | 13 570        | 13 570         | 10 250        |                 |             |
|  | (59,140)       | (59,140)      | (63,390)       | (63,390)      | (48,600)       | (41,770)      | (37,850)       | (29,200)      | (28,680)       | (22,110)      |                 |             |
| -6.0 m (-20 ft.)   |                |               | 23 970         | 23 970        | 18 550         | 18 550        | 13 910         | 13 910        |                |               |                 |             |
|  |                |               | (51,240)       | (51,240)      | (39,460)       | (39,460)      | (28,970)       | (28,970)      |                |               |                 |             |

### Lift Charts

### ZX670LC-6

**Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.).** Ratings at bucket lift hook; 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. All lift capacities are based on ISO 10567 (with power boost).

| Load Point Height  | 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       |
| With 2.9-m <sup>3</sup> (3.8 cu. yd.) bucket, 3.6-m (11 ft. 10 in.) arm, 7.8-m (25 ft. 7 in.) boom, and 900-mm (36 in.) double-bar grouser shoes |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 7.5 m (25 ft.)   |                 |                 |                 |                 |                 |                 |                 |                 | <b>11 740</b>   | <b>11 740</b>   |                 |                 |
|  |                 |                 |                 |                 |                 |                 |                 |                 | <b>(25,700)</b> | <b>(25,700)</b> |                 |                 |
| 6.0 m (20 ft.)   |                 |                 |                 |                 |                 |                 | <b>13 980</b>   | <b>13 980</b>   | <b>12 460</b>   | <b>12 100</b>   | <b>8120</b>     | <b>8120</b>     |
|  |                 |                 |                 |                 |                 |                 | <b>(30,280)</b> | <b>(30,280)</b> | <b>(27,120)</b> | <b>(25,960)</b> |                 |                 |
| 4.5 m (15 ft.)   |                 |                 |                 |                 | <b>19 900</b>   | <b>19 900</b>   | <b>15 770</b>   | <b>15 770</b>   | <b>13 440</b>   | <b>11 650</b>   | <b>12 040</b>   | <b>8770</b>     |
|  |                 |                 |                 |                 | <b>(42,760)</b> | <b>(42,760)</b> | <b>(34,070)</b> | <b>(34,070)</b> | <b>(29,160)</b> | <b>(25,020)</b> | <b>(23,250)</b> | <b>(18,740)</b> |
| 3.0 m (10 ft.)   |                 |                 |                 |                 | <b>23 020</b>   | <b>21 290</b>   | <b>17 560</b>   | <b>15 030</b>   | <b>14 490</b>   | <b>11 170</b>   | <b>12 480</b>   | <b>8530</b>     |
|  |                 |                 |                 |                 | <b>(49,550)</b> | <b>(45,900)</b> | <b>(37,930)</b> | <b>(32,380)</b> | <b>(31,390)</b> | <b>(24,010)</b> | <b>(26,790)</b> | <b>(18,270)</b> |
| 1.5 m (5 ft.)  |                 |                 |                 |                 | <b>25 060</b>   | <b>20 270</b>   | <b>18 970</b>   | <b>14 370</b>   | <b>15 370</b>   | <b>10 750</b>   | <b>12 230</b>   | <b>8290</b>     |
|  |                 |                 |                 |                 | <b>(54,100)</b> | <b>(43,630)</b> | <b>(41,010)</b> | <b>(30,930)</b> | <b>(33,280)</b> | <b>(23,110)</b> | <b>(26,260)</b> | <b>(17,770)</b> |
| Ground Line  |                 |                 | <b>12 940</b>   | <b>12 940</b>   | <b>25 790</b>   | <b>19 740</b>   | <b>19 740</b>   | <b>13 930</b>   | <b>15 440</b>   | <b>10 450</b>   | <b>12 050</b>   | <b>8120</b>     |
|  |                 |                 | <b>(30,250)</b> | <b>(30,250)</b> | <b>(55,810)</b> | <b>(42,440)</b> | <b>(42,700)</b> | <b>(29,960)</b> | <b>(33,200)</b> | <b>(22,470)</b> | <b>(25,900)</b> | <b>(17,440)</b> |
| -1.5 m (-5 ft.)  |                 |                 | <b>21 020</b>   | <b>21 020</b>   | <b>25 390</b>   | <b>19 560</b>   | <b>19 730</b>   | <b>13 720</b>   | <b>15 280</b>   | <b>10 300</b>   |                 |                 |
|  |                 |                 | <b>(48,230)</b> | <b>(48,230)</b> | <b>(55,010)</b> | <b>(42,040)</b> | <b>(42,680)</b> | <b>(29,510)</b> | <b>(32,860)</b> | <b>(22,150)</b> |                 |                 |
| -3.0 m (-10 ft.)   | <b>20 320</b>   | <b>20 320</b>   | <b>31 010</b>   | <b>31 010</b>   | <b>23 940</b>   | <b>19 650</b>   | <b>18 790</b>   | <b>13 730</b>   | <b>14 830</b>   | <b>10 340</b>   |                 |                 |
|  | <b>(45,940)</b> | <b>(45,940)</b> | <b>(67,290)</b> | <b>(67,290)</b> | <b>(51,810)</b> | <b>(42,220)</b> | <b>(40,560)</b> | <b>(29,530)</b> | <b>(31,800)</b> | <b>(22,260)</b> |                 |                 |
| -4.5 m (-15 ft.)   | <b>30 660</b>   | <b>30 660</b>   | <b>27 020</b>   | <b>27 020</b>   | <b>21 160</b>   | <b>19 980</b>   | <b>16 490</b>   | <b>13 980</b>   |                 |                 |                 |                 |
|  | <b>(69,670)</b> | <b>(69,670)</b> | <b>(58,350)</b> | <b>(58,350)</b> | <b>(45,550)</b> | <b>(42,960)</b> | <b>(35,230)</b> | <b>(30,120)</b> |                 |                 |                 |                 |
| -6.0 m (-20 ft.)   |                 |                 | <b>20 650</b>   | <b>20 650</b>   | <b>16 030</b>   | <b>16 030</b>   |                 |                 |                 |                 |                 |                 |
|  |                 |                 | <b>(43,850)</b> | <b>(43,850)</b> | <b>(33,650)</b> | <b>(33,650)</b> |                 |                 |                 |                 |                 |                 |
| With 2.5-m <sup>3</sup> (3.3 cu. yd.) bucket, 4.2-m (13 ft. 9 in.) arm, 7.8-m (25 ft. 7 in.) boom, and 900-mm (36 in.) double-bar grouser shoes  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 7.5 m (25 ft.)   |                 |                 |                 |                 |                 |                 |                 |                 | <b>10 880</b>   | <b>10 880</b>   | <b>6780</b>     | <b>6780</b>     |
|  |                 |                 |                 |                 |                 |                 |                 |                 | <b>(23,790)</b> | <b>(23,790)</b> |                 |                 |
| 6.0 m (20 ft.)   |                 |                 |                 |                 |                 |                 |                 |                 | <b>11 700</b>   | <b>11 700</b>   | <b>10 070</b>   | <b>9190</b>     |
|  |                 |                 |                 |                 |                 |                 |                 |                 | <b>(25,460)</b> | <b>(25,460)</b> | <b>(20,250)</b> | <b>(19,630)</b> |
| 4.5 m (15 ft.)   |                 |                 |                 |                 | <b>18 420</b>   | <b>18 420</b>   | <b>14 850</b>   | <b>14 850</b>   | <b>12 770</b>   | <b>11 880</b>   | <b>11 490</b>   | <b>8970</b>     |
|  |                 |                 |                 |                 | <b>(39,600)</b> | <b>(39,600)</b> | <b>(32,080)</b> | <b>(32,080)</b> | <b>(27,710)</b> | <b>(25,530)</b> | <b>(25,020)</b> | <b>(19,200)</b> |
| 3.0 m (10 ft.)   |                 |                 |                 |                 | <b>21 780</b>   | <b>21 780</b>   | <b>16 790</b>   | <b>15 330</b>   | <b>13 940</b>   | <b>11 360</b>   | <b>12 150</b>   | <b>8670</b>     |
|  |                 |                 |                 |                 | <b>(46,870)</b> | <b>(46,870)</b> | <b>(36,260)</b> | <b>(33,010)</b> | <b>(30,190)</b> | <b>(24,420)</b> | <b>(26,400)</b> | <b>(18,580)</b> |
| 1.5 m (5 ft.)  |                 |                 |                 |                 | <b>24 280</b>   | <b>20 600</b>   | <b>18 420</b>   | <b>14 580</b>   | <b>14 970</b>   | <b>10 890</b>   | <b>12 330</b>   | <b>8380</b>     |
|  |                 |                 |                 |                 | <b>(52,390)</b> | <b>(44,360)</b> | <b>(39,820)</b> | <b>(31,380)</b> | <b>(32,420)</b> | <b>(23,410)</b> | <b>(26,480)</b> | <b>(17,980)</b> |
| Ground Line  |                 |                 | <b>14 150</b>   | <b>14 150</b>   | <b>25 550</b>   | <b>19 880</b>   | <b>19 470</b>   | <b>14 040</b>   | <b>15 530</b>   | <b>10 530</b>   | <b>12 090</b>   | <b>8160</b>     |
|  |                 |                 | <b>(32,800)</b> | <b>(32,800)</b> | <b>(55,260)</b> | <b>(42,760)</b> | <b>(42,130)</b> | <b>(30,210)</b> | <b>(33,370)</b> | <b>(22,630)</b> | <b>(25,980)</b> | <b>(17,510)</b> |
| -1.5 m (-5 ft.)  | <b>10 800</b>   | <b>10 800</b>   | <b>19 890</b>   | <b>19 890</b>   | <b>25 670</b>   | <b>19 560</b>   | <b>19 800</b>   | <b>13 740</b>   | <b>15 290</b>   | <b>10 310</b>   | <b>11 970</b>   | <b>8040</b>     |
|  | <b>(24,430)</b> | <b>(24,430)</b> | <b>(45,600)</b> | <b>(45,600)</b> | <b>(55,570)</b> | <b>(42,030)</b> | <b>(42,840)</b> | <b>(29,550)</b> | <b>(32,870)</b> | <b>(22,160)</b> | <b>(25,740)</b> | <b>(17,290)</b> |
| -3.0 m (-10 ft.)   | <b>17 780</b>   | <b>17 780</b>   | <b>27 900</b>   | <b>27 900</b>   | <b>24 710</b>   | <b>19 530</b>   | <b>19 270</b>   | <b>13 660</b>   | <b>15 240</b>   | <b>10 260</b>   |                 |                 |
|  | <b>(40,170)</b> | <b>(40,170)</b> | <b>(63,880)</b> | <b>(63,880)</b> | <b>(53,470)</b> | <b>(41,960)</b> | <b>(41,640)</b> | <b>(29,380)</b> | <b>(32,780)</b> | <b>(22,070)</b> |                 |                 |
| -4.5 m (-15 ft.)   | <b>26 090</b>   | <b>26 090</b>   | <b>29 340</b>   | <b>29 340</b>   | <b>22 540</b>   | <b>19 750</b>   | <b>17 630</b>   | <b>13 800</b>   | <b>13 570</b>   | <b>10 430</b>   |                 |                 |
|  | <b>(59,140)</b> | <b>(59,140)</b> | <b>(63,390)</b> | <b>(63,390)</b> | <b>(48,600)</b> | <b>(42,460)</b> | <b>(37,850)</b> | <b>(29,720)</b> | <b>(28,680)</b> | <b>(22,520)</b> |                 |                 |
| -6.0 m (-20 ft.)   |                 |                 | <b>23 970</b>   | <b>23 970</b>   | <b>18 550</b>   | <b>18 550</b>   | <b>13 910</b>   | <b>13 910</b>   |                 |                 |                 |                 |
|  |                 |                 | <b>(51,240)</b> | <b>(51,240)</b> | <b>(39,460)</b> | <b>(39,460)</b> | <b>(28,970)</b> | <b>(28,970)</b> |                 |                 |                 |                 |

# ZX670LC-6

## Lift Charts

## ZX670LC-6

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; 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. All lift capacities are based on ISO 10567 (with power boost).

| 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.) |               | 12 m (40 ft.) |             |             |
|--|------------------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|-----------------|---------------|---------------|-------------|-------------|
| Horizontal Distance from   | Centerline of Rotation |               | Over Front     |               | Over Side      |               | Over Front     |               | Over Side      |               | Over Front     |               | Over Side       |               | Over Front    |             |             |
| With 2-m <sup>3</sup> (2.6 cu. yd.) bucket, 5.3-m (17 ft. 5 in.) arm, 7.8-m (25 ft. 7 in.) boom, and 900-mm (36 in.) double-bar grouser shoes        |                        |               |                |               |                |               |                |               |                |               |                |               |                 |               |               |             |             |
| 9.0 m (30 ft.)   |                        |               |                |               |                |               |                |               |                |               |                |               |                 | <b>6010</b>   | <b>6010</b>   |             |             |
|  |                        |               |                |               |                |               |                |               |                |               |                |               |                 | (11,570)      | (11,570)      |             |             |
| 7.5 m (25 ft.)   |                        |               |                |               |                |               |                |               |                |               |                |               |                 | <b>7630</b>   | <b>7630</b>   |             |             |
|  |                        |               |                |               |                |               |                |               |                |               |                |               |                 | (16,040)      | (16,040)      |             |             |
| 6.0 m (20 ft.)   |                        |               |                |               |                |               |                |               |                |               |                | <b>9950</b>   | <b>9950</b>     | <b>8900</b>   | <b>8900</b>   | <b>5560</b> | <b>5560</b> |
|  |                        |               |                |               |                |               |                |               |                |               |                | (21,590)      | (21,590)        | (18,980)      | (18,980)      | (9,950)     | (9,950)     |
| 4.5 m (15 ft.)   |                        |               |                |               |                |               |                |               |                | <b>13 440</b> | <b>13 440</b>  | <b>11 860</b> | <b>11 860</b>   | <b>10 430</b> | <b>9650</b>   | <b>7140</b> | <b>7140</b> |
|  |                        |               |                |               |                |               |                |               |                | (29,090)      | (29,090)       | (25,770)      | (25,770)        | (22,250)      | (20,710)      | (14,010)    | (14,010)    |
| 3.0 m (10 ft.)   |                        |               |                |               | <b>27 860</b>  | <b>27 860</b> | <b>19 700</b>  | <b>19 700</b> | <b>15 610</b>  | <b>15 610</b> | <b>13 210</b>  | <b>12 110</b> | <b>11 670</b>   | <b>9300</b>   | <b>8290</b>   | <b>7260</b> |             |
|  |                        |               |                |               | (59,720)       | (59,720)      | (42,440)       | (42,440)      | (33,760)       | (33,760)      | (28,650)       | (26,050)      | (25,370)        | (19,950)      | (16,550)      | (15,030)    |             |
| 1.5 m (5 ft.)  |                        |               |                |               | <b>17 980</b>  | <b>17 980</b> | <b>22 900</b>  | <b>21 780</b> | <b>17 610</b>  | <b>15 430</b> | <b>14 490</b>  | <b>11 560</b> | <b>12 480</b>   | <b>8940</b>   | <b>9040</b>   | <b>7050</b> |             |
|  |                        |               |                |               | (42,690)       | (42,690)      | (49,430)       | (46,910)      | (38,090)       | (33,210)      | (31,410)       | (24,860)      | (27,090)        | (19,200)      | (17,870)      | (15,090)    |             |
| Ground Line  |                        |               |                |               | <b>16 170</b>  | <b>16 170</b> | <b>25 050</b>  | <b>20 730</b> | <b>19 130</b>  | <b>14 730</b> | <b>15 520</b>  | <b>11 100</b> | <b>12 590</b>   | <b>8640</b>   | <b>8950</b>   | <b>6870</b> |             |
|  |                        |               |                |               | (37,320)       | (37,320)      | (54,170)       | (44,600)      | (41,410)       | (31,690)      | (33,630)       | (23,860)      | (27,050)        | (18,560)      | (16,950)      | (14,730)    |             |
| -1.5 m (-5 ft.)  | <b>6820</b>            | <b>6820</b>   | <b>10 050</b>  | <b>10 050</b> | <b>18 750</b>  | <b>18 750</b> | <b>26 040</b>  | <b>20 120</b> | <b>20 000</b>  | <b>14 260</b> | <b>15 760</b>  | <b>10 770</b> | <b>12 360</b>   | <b>8430</b>   | <b>6880</b>   | <b>6770</b> |             |
|  | (15,230)               | (15,230)      | (22,700)       | (22,700)      | (42,960)       | (42,960)      | (56,370)       | (43,260)      | (43,310)       | (30,670)      | (33,880)       | (23,150)      | (26,570)        | (18,100)      |               |             |             |
| -3.0 m (-10 ft.)   | <b>11 070</b>          | <b>11 070</b> | <b>14 710</b>  | <b>14 710</b> | <b>23 610</b>  | <b>23 610</b> | <b>25 940</b>  | <b>19 860</b> | <b>20 120</b>  | <b>14 020</b> | <b>15 570</b>  | <b>10 590</b> | <b>12 250</b>   | <b>8330</b>   |               |             |             |
|  | (24,790)               | (24,790)      | (33,200)       | (33,200)      | (53,970)       | (53,970)      | (56,150)       | (42,690)      | (43,520)       | (30,160)      | (33,480)       | (22,770)      | (26,370)        | (17,910)      |               |             |             |
| -4.5 m (-15 ft.)   | <b>15 790</b>          | <b>15 790</b> | <b>20 340</b>  | <b>20 340</b> | <b>30 830</b>  | <b>30 830</b> | <b>24 730</b>  | <b>19 880</b> | <b>19 330</b>  | <b>13 990</b> | <b>15 440</b>  | <b>10 580</b> | <b>10 170</b>   | <b>8400</b>   |               |             |             |
|  | (35,450)               | (35,450)      | (46,010)       | (46,010)      | (70,610)       | (69,460)      | (53,430)       | (42,750)      | (41,700)       | (30,120)      | (33,190)       | (22,790)      |                 |               |               |             |             |
| -6.0 m (-20 ft.)   |                        |               | <b>27 670</b>  | <b>27 670</b> | <b>29 090</b>  | <b>29 090</b> | <b>22 150</b>  | <b>20 170</b> | <b>17 280</b>  | <b>14 200</b> | <b>13 250</b>  | <b>10 810</b> |                 |               |               |             |             |
|  |                        |               | (62,900)       | (62,900)      | (62,560)       | (62,560)      | (47,560)       | (43,410)      | (36,920)       | (30,600)      | (27,800)       | (23,360)      |                 |               |               |             |             |
| -7.5 m (-25 ft.)   |                        |               |                |               | <b>22 770</b>  | <b>22 770</b> | <b>17 360</b>  | <b>17 360</b> | <b>12 680</b>  | <b>12 680</b> |                |               |                 |               |               |             |             |
|  |                        |               |                |               | (48,120)       | (48,120)      | (36,410)       | (36,410)      |                |               |                |               |                 |               |               |             |             |
| With 3.5-m <sup>3</sup> (4.6 cu. yd.) bucket, 2.9-m (9 ft. 6 in.) BE arm, 6.8-m (22 ft. 4 in.) BE boom, and 900-mm (36 in.) double-bar grouser shoes |                        |               |                |               |                |               |                |               |                |               |                |               |                 |               |               |             |             |
| 7.5 m (25 ft.)   |                        |               |                |               |                |               |                |               |                | <b>14 400</b> | <b>14 400</b>  |               |                 |               |               |             |             |
|  |                        |               |                |               |                |               |                |               |                | (31,610)      | (31,610)       |               |                 |               |               |             |             |
| 6.0 m (20 ft.)   |                        |               |                |               |                |               | <b>17 530</b>  | <b>17 530</b> | <b>15 280</b>  | <b>15 280</b> |                |               |                 |               |               |             |             |
|  |                        |               |                |               |                |               | (37,890)       | (37,890)      | (33,220)       | (33,220)      |                |               |                 |               |               |             |             |
| 4.5 m (15 ft.)   |                        |               |                |               |                |               | <b>20 470</b>  | <b>20 470</b> | <b>16 700</b>  | <b>15 580</b> | <b>14 650</b>  | <b>11 180</b> |                 |               |               |             |             |
|  |                        |               |                |               |                |               | (44,110)       | (44,110)      | (36,200)       | (33,480)      | (31,940)       | (23,890)      |                 |               |               |             |             |
| 3.0 m (10 ft.)   |                        |               |                |               |                |               | <b>23 430</b>  | <b>21 470</b> | <b>18 260</b>  | <b>14 900</b> | <b>15 370</b>  | <b>10 880</b> |                 |               |               |             |             |
|  |                        |               |                |               |                |               | (50,520)       | (46,230)      | (39,520)       | (32,040)      | (33,390)       | (23,340)      |                 |               |               |             |             |
| 1.5 m (5 ft.)  |                        |               |                |               |                |               | <b>25 430</b>  | <b>20 540</b> | <b>19 480</b>  | <b>14 340</b> | <b>15 610</b>  | <b>10 590</b> |                 |               |               |             |             |
|  |                        |               |                |               |                |               | (54,940)       | (44,180)      | (42,140)       | (30,830)      | (33,520)       | (22,720)      |                 |               |               |             |             |
| Ground Line  |                        |               |                |               |                |               | <b>26 020</b>  | <b>20 050</b> | <b>19 950</b>  | <b>13 990</b> | <b>15 420</b>  | <b>10 410</b> |                 |               |               |             |             |
|  |                        |               |                |               |                |               | (56,320)       | (43,090)      | (43,140)       | (30,070)      | (33,150)       | (22,380)      |                 |               |               |             |             |
| -1.5 m (-5 ft.)  |                        |               |                |               | <b>33 520</b>  | <b>32 870</b> | <b>25 150</b>  | <b>19 930</b> | <b>19 300</b>  | <b>13 890</b> |                |               |                 |               |               |             |             |
|  |                        |               |                |               | (72,780)       | (70,400)      | (54,430)       | (42,820)      | (41,640)       | (29,860)      |                |               |                 |               |               |             |             |
| -3.0 m (-10 ft.)   |                        |               | <b>34 290</b>  | <b>34 290</b> | <b>29 560</b>  | <b>29 560</b> | <b>22 510</b>  | <b>20 150</b> | <b>16 670</b>  | <b>14 120</b> |                |               |                 |               |               |             |             |
|  |                        |               | (77,980)       | (77,980)      | (63,980)       | (63,980)      | (48,500)       | (43,300)      | (35,280)       | (30,440)      |                |               |                 |               |               |             |             |
| -4.5 m (-15 ft.)   |                        |               |                |               | <b>22 630</b>  | <b>22 630</b> | <b>16 490</b>  | <b>16 490</b> |                |               |                |               |                 |               |               |             |             |
|  |                        |               |                |               | (48,280)       | (48,280)      | (34,300)       | (34,300)      |                |               |                |               |                 |               |               |             |             |

### Buckets ZX670LC-6

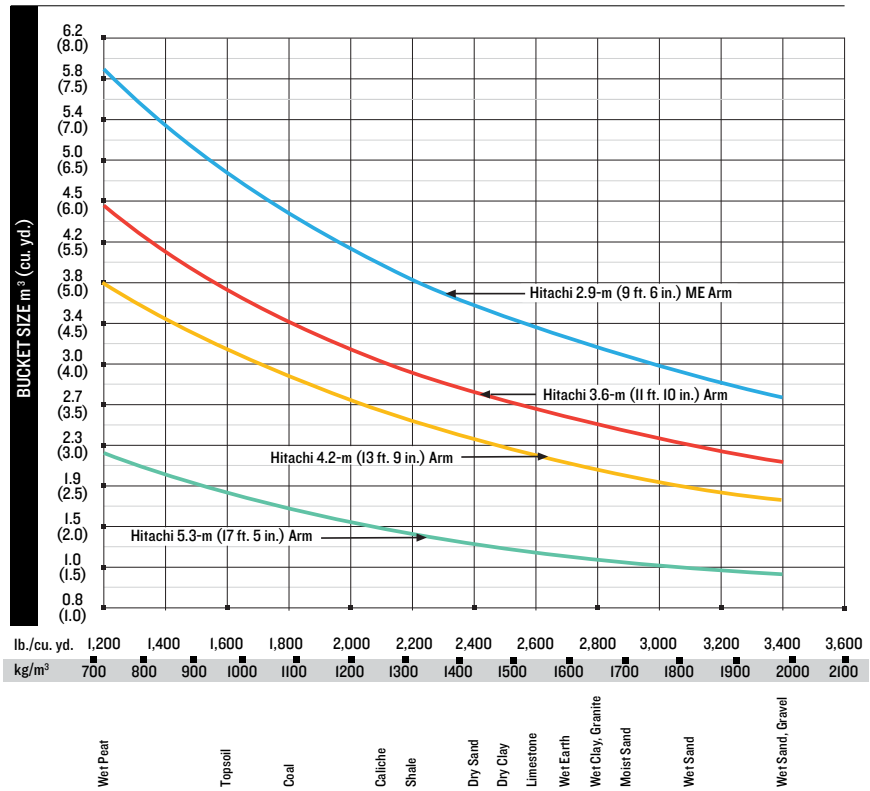
A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with ESCO teeth standard. Replaceable cutting edges and a variety of teeth are available through Hitachi parts. Optional side cutters add 150 mm (6 in.) to bucket widths.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

| Type Bucket              | Bucket Width |      | Bucket Capacity |         | Bucket Weight |       | Bucket Dig Force |        | Arm Dig Force<br>3.6 m (11 ft. 10 in.) |        | Arm Dig Force<br>4.2 m (13 ft. 9 in.) |        | Arm Dig Force<br>5.3 m (17 ft. 5 in.) |        | ME Arm Dig Force<br>2.9 m (9 ft. 6 in.) |        | Bucket Tip Radius |       | Number<br>of Teeth |
|--------------------------|--------------|------|-----------------|---------|---------------|-------|------------------|--------|--|--------|---------------------------------------|--------|---------------------------------------|--------|---|--------|-------------------|-------|--------------------|
|                          | mm           | in.  | m <sup>3</sup>  | cu. yd. | kg            | lb.   | kN               | lb.    | kN                                     | lb.    | kN                                    | lb.    | kN                                    | lb.    | kN                                      | lb.    | mm                | in.   |                    |
| Extreme-Duty Plate Lip   | 1219         | 48   | 2.65            | 3.5     | 3396          | 7,487 | 275              | 61,851 | 242                                    | 54,423 | 220                                   | 49,448 | 189                                   | 42,497 | 290                                     | 65,260 | 2281              | 89.79 | 3                  |
|                          | 1372         | 54   | 3.06            | 4       | 3546          | 7,817 | 275              | 61,851 | 242                                    | 54,423 | 220                                   | 49,448 | 189                                   | 42,497 | 290                                     | 65,260 | 2281              | 89.79 | 3                  |
|                          | 1524         | 60   | 3.53            | 4.6     | 3795          | 8,368 | 275              | 61,851 | 242                                    | 54,423 | 220                                   | 49,448 | 189                                   | 42,497 | 290                                     | 65,260 | 2281              | 89.79 | 3                  |
| Heavy-Duty High Capacity | 914          | 36   | 1.80            | 2.4     | 2664          | 5,873 | 275              | 61,851 | 242                                    | 54,423 | 220                                   | 49,448 | 189                                   | 42,497 | 290                                     | 65,260 | 2281              | 89.79 | 3                  |
|                          | 1067         | 42   | 2.22            | 2.9     | 2867          | 6,320 | 275              | 61,851 | 242                                    | 54,423 | 220                                   | 49,448 | 189                                   | 42,497 | 290                                     | 65,260 | 2281              | 89.79 | 3                  |
|                          | 1219         | 48   | 2.06            | 2.7     | 2966          | 6,540 | 275              | 61,851 | 242                                    | 54,423 | 220                                   | 49,448 | 189                                   | 42,497 | 290                                     | 65,260 | 2281              | 89.79 | 4                  |
|                          | 1372         | 54   | 3.09            | 4       | 3129          | 6,898 | 275              | 61,851 | 242                                    | 54,423 | 220                                   | 49,448 | 189                                   | 42,497 | 290                                     | 65,260 | 2281              | 89.79 | 5                  |
|                          | 1524         | 60   | 3.54            | 4.6     | 3302          | 7,280 | 275              | 61,851 | 242                                    | 54,423 | 220                                   | 49,448 | 189                                   | 42,497 | 290                                     | 65,260 | 2281              | 89.79 | 5                  |
|                          | 1829         | 72   | 4.44            | 5.8     | 3593          | 7,921 | 275              | 61,851 | 242                                    | 54,423 | 220                                   | 49,448 | 189                                   | 42,497 | 290                                     | 65,260 | 2281              | 89.79 | 6                  |
| 2032                     | 80           | 5.05 | 6.6             | 3916    | 8,634         | 275   | 61,851           | 242    | 54,423                                 | 220    | 49,448                                | 189    | 42,497                                | 290    | 65,260                                  | 2281   | 89.79             | 6     |                    |
| Heavy Capacity Dirt      | 2184         | 86   | 4.59            | 6       | 3941          | 8,688 | 287              | 64,421 | 246                                    | 55,278 | 223                                   | 50,152 | 58                                    | 13,013 | 295                                     | 66,427 | 2190              | 86.23 | 6                  |
| Heavy-Duty               | 914          | 36   | 1.30            | 1.7     | 2252          | 4,964 | 326              | 73,327 | 258                                    | 57,940 | 233                                   | 52,331 | 198                                   | 44,597 | 312                                     | 70,090 | 1924              | 75.75 | 3                  |
|                          | 1067         | 42   | 1.58            | 2.1     | 2594          | 5,719 | 326              | 73,327 | 258                                    | 57,940 | 233                                   | 52,331 | 198                                   | 44,597 | 312                                     | 70,090 | 1924              | 75.75 | 4                  |
|                          | 1219         | 48   | 1.90            | 2.5     | 2722          | 6,000 | 326              | 73,327 | 258                                    | 57,940 | 233                                   | 52,331 | 198                                   | 44,597 | 312                                     | 70,090 | 1924              | 75.75 | 4                  |
|                          | 1372         | 54   | 2.19            | 2.9     | 2858          | 6,302 | 326              | 73,327 | 258                                    | 57,940 | 233                                   | 52,331 | 198                                   | 44,597 | 312                                     | 70,090 | 1924              | 75.75 | 5                  |
|                          | 1524         | 60   | 2.52            | 3.3     | 3062          | 6,750 | 326              | 73,327 | 258                                    | 57,940 | 233                                   | 52,331 | 198                                   | 44,597 | 312                                     | 70,090 | 1924              | 75.75 | 5                  |
| Truck Loading            | 1930         | 76   | 3.75            | 4.9     | 3043          | 6,709 | 287              | 64,421 | 246                                    | 55,278 | 223                                   | 50,152 | 58                                    | 13,013 | 295                                     | 66,427 | 2189              | 86.20 | 6                  |
|                          | 2083         | 82   | 4.05            | 5.3     | 3292          | 7,257 | 287              | 64,421 | 246                                    | 55,278 | 223                                   | 50,152 | 58                                    | 13,013 | 295                                     | 66,427 | 2189              | 86.20 | 7                  |

# ZX670LC-6

Bucket Selection Guide\*

ZX870LC-6



\*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.

|   |  |                     |                    |
|---|--|---------------------|--------------------|
| <b>Engine</b>   |  | <b>ZX870LC-6</b>    |                    |
| Manufacturer and Model  | Isuzu 6WGI-FT4   |                     |                    |
| Non-Road Emission Standards   | EPA Final Tier 4/EU Stage IV   |                     |                    |
| Net Rated Power (ISO 9249)  | 382 kW (512 hp) @ 1,800 rpm  |                     |                    |
| Cylinders   | 6  |                     |                    |
| Displacement  | 15.68 L (957 cu. in.)  |                     |                    |
| Off-Level Capacity  | 70% (35 deg.)  |                     |                    |
| Aspiration  | Turbocharged, air-to-air charge-air cooler                                     |                     |                    |
| <b>Cooling</b>  |  |                     |                    |
| 2 cool-on-demand hydraulic-driven, suction-type fans with remote-mounted drives                       |  |                     |                    |
| <b>Powertrain</b>   |  |                     |                    |
| 2-speed propel  |  |                     |                    |
| <b>Maximum Travel Speed</b>   |  |                     |                    |
| Low   | 3.2 km/h (2 mph)   |                     |                    |
| High  | 4.7 km/h (2.9 mph)   |                     |                    |
| Drawbar Pull  | 57 085 kg (125,850 lb.)  |                     |                    |
| <b>Hydraulics</b>   |  |                     |                    |
| Open center, load sensing   |  |                     |                    |
| <b>Main Pumps</b>   |  |                     |                    |
| Maximum Rated Flow  | 566 L/m (150 gpm) x 2  |                     |                    |
| <b>Pilot Pump</b>   |  |                     |                    |
| Maximum Rated Flow  | 30 L/m (7.9 gpm)   |                     |                    |
| Pressure Setting  | 3900 kPa (566 psi)   |                     |                    |
| <b>System Operating Pressure</b>  |  |                     |                    |
| Circuits  |  |                     |                    |
| Implement Circuits  | 31 900 kPa (4,627 psi)   |                     |                    |
| Travel Circuits   | 34 300 kPa (4,975 psi)   |                     |                    |
| Swing Circuits  | 29 400 kPa (4,264 psi)   |                     |                    |
| Power Boost   | 34 300 kPa (4,975 psi)   |                     |                    |
| <b>Controls</b>   |  |                     |                    |
| Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever                    |  |                     |                    |
| <b>Cylinders</b>  |  |                     |                    |
| Heat-treated, chrome-plated, polished cylinder rods, hardened steel (replaceable bushings) pivot pins |  |                     |                    |
|   | <b>Bore</b>  | <b>Rod Diameter</b> | <b>Stroke</b>      |
| <b>Boom (2)</b>   | 215 mm (8.5 in.)   | 150 mm (5.9 in.)    | 1835 mm (72.2 in.) |
| <b>Arm (1)</b>  | 225 mm (8.9 in.)   | 160 mm (6.3 in.)    | 2225 mm (87.6 in.) |
| <b>Bucket (1)</b>   | 200 mm (7.9 in.)   | 140 mm (5.5 in.)    | 1555 mm (61.2 in.) |
| <b>Electrical</b>   |  |                     |                    |
| Number of Batteries (12 volt)   | 2  |                     |                    |
| Battery Capacity  | 500 CCA  |                     |                    |
| Alternator Rating   | 50 amp   |                     |                    |
| Work Lights   | 5 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on top of cab) |                     |                    |
| <b>Undercarriage</b>  |  |                     |                    |
| <b>Rollers (each side)</b>  |  |                     |                    |
| Carrier   | 3  |                     |                    |
| Track   | 9  |                     |                    |
| Double-Bar Grouser Shoes (each side)  | 51   |                     |                    |
| <b>Track</b>  |  |                     |                    |
| Adjustment  | Hydraulic  |                     |                    |
| Guides  | Front and center   |                     |                    |
| Chain   | Sealed and lubricated  |                     |                    |
| Planetary Final Drives with Axial Piston Motors   |  |                     |                    |
| <b>Ground Pressure</b>  |  |                     |                    |
| 700-mm (28 in.) Double-Bar Grouser Shoes  | 106.9 kPa (15.5 psi)   |                     |                    |
| 800-mm (32 in.) Double-Bar Grouser Shoes  | 94.5 kPa (13.5 psi)  |                     |                    |
| 900-mm (36 in.) Double-Bar Grouser Shoes  | 84.8 kPa (12 psi)  |                     |                    |
| <b>Swing Mechanism</b>  |  |                     |                    |
| Swing Speed   | 7.8 rpm  |                     |                    |
| Swing Torque  | 269 000 Nm (198,404 lb.-ft.)   |                     |                    |

# ZX870LC-6

## Serviceability ZX870LC-6

### Refill Capacities

|                                 |                     |
|---------------------------------|---------------------|
| Fuel Tank                       | 1110 L (293 gal.)   |
| Diesel Exhaust Fluid (DEF) Tank | 95 L (25.1 gal.)    |
| Cooling System                  | 124 L (32.8 gal.)   |
| Engine Oil with Filter          | 57 L (15.1 gal.)    |
| Hydraulic Tank                  | 500 L (132.1 gal.)  |
| Hydraulic System                | 1042 L (275.3 gal.) |
| <b>Gearbox</b>                  |                     |
| Swing (each)                    | 15.7 L (16.6 qt.)   |
| Travel (each)                   | 19 L (20.1 qt.)     |
| Pump Drive                      | 6.2 L (6.6 qt.)     |

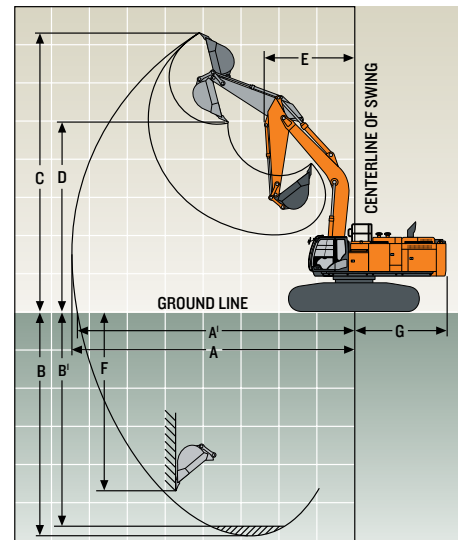
### Operating Weights

With full fuel tank; 79-kg (175 lb.) operator; 3.49-m<sup>3</sup> (4.57 cu. yd.), 1370-mm (54 in.), 3558-kg (7,845 lb.) bucket; 4.4-m (14 ft. 5 in.) arm; 12 400-kg (27,337 lb.) counterweight; counterweight removal device and 900-mm (36 in.) double-bar grouser shoes

|                      |                         |
|----------------------|-------------------------|
| SAE Operating Weight | 85 600 kg (188,716 lb.) |
|----------------------|-------------------------|

### Components

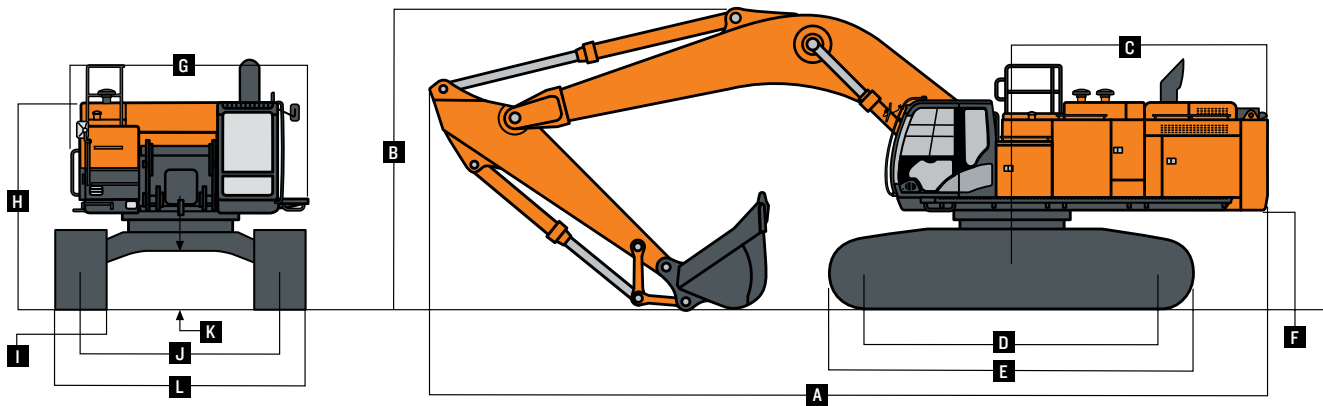
|  |                        |
|--|------------------------|
| <b>Undercarriage w/ Double-Bar Grouser Shoes</b> |                        |
| 650 mm (26 in.)                                  | 32 326 kg (71,267 lb.) |
| 750 mm (30 in.)                                  | 33 026 kg (72,810 lb.) |
| 900 mm (36 in.)                                  | 33 966 kg (74,882 lb.) |
| 1020 mm (40 in.)                                 | 34 396 kg (75,830 lb.) |
| <b>One-Piece Boom (with arm cylinder)</b>        |                        |
| 8.4 m (27 ft. 7 in.)                             | 8190 kg (18,056 lb.)   |
| 7.1-m (23 ft. 4 in.) Mass Excavating             | 7670 kg (16,909 lb.)   |
| 10 m (32 ft. 10 in.)                             | 9390 kg (20,701 lb.)   |
| <b>Arm with Bucket Cylinder and Linkage</b>      |                        |
| 3.7 m (12 ft. 1 in.)                             | 4290 kg (9,458 lb.)    |
| 4.4 m (14 ft. 5 in.)                             | 4630 kg (10,207 lb.)   |
| 5.4 m (17 ft. 9 in.)                             | 4940 kg (10,891 lb.)   |
| 2.95-m (9 ft. 8 in.) Mass Excavating w/          |                        |
| 7.1-m (23 ft. 4 in.) Mass-Excavating Boom        | 4620 kg (10,185 lb.)   |
| Boom-Lift Cylinders (2), Total Weight            | 1700 kg (3,748 lb.)    |
| Counterweight with Standard Mainframe            | 13 300 kg (29,321 lb.) |



### Operating Dimensions

| Arm Length  | 3.7 m (12 ft. 2 in.)<br>w/ 8.4-m (27 ft. 7 in.)<br>Boom | 4.4 m (14 ft. 5 in.)<br>w/ 8.4-m (27 ft. 7 in.)<br>Boom | 5.4 m (17 ft. 9 in.)<br>w/ 8.4-m (27 ft. 7 in.)<br>Boom | 2.95-m (9 ft. 8 in.)<br>Mass Excavating w/<br>7.1-m (23 ft. 4 in.)<br>Boom | 4.4 m (14 ft. 5 in.)<br>w/ 10-m (32 ft. 10 in.)<br>Boom | 5.4 m (17 ft. 9 in.)<br>w/ 10-m (32 ft. 10 in.)<br>Boom |
|---|---|---|---|--|---|---|
| <b>Arm Digging Force</b>                                      |   |   |   |  |   |   |
| SAE   | 315 kN (70,815 lb.)                                     | 273 kN (61,373 lb.)                                     | 237 kN (53,280 lb.)                                     | 378 kN (84,978 lb.)  | 273 kN (61,373 lb.)                                     | 237 kN (53,280 lb.)                                     |
| ISO   | 323 kN (72,613 lb.)                                     | 280 kN (62,946 lb.)                                     | 243 kN (54,629 lb.)                                     | 394 kN (88,575 lb.)  | 280 kN (62,946 lb.)                                     | 243 kN (54,629 lb.)                                     |
| <b>Bucket Digging Force</b>                                   |   |   |   |  |   |   |
| SAE   | 359 kN (80,706 lb.)                                     | 359 kN (80,706 lb.)                                     | 289 kN (64,970 lb.)                                     | 411 kN (92,396 lb.)  | 359 kN (80,706 lb.)                                     | 289 kN (64,970 lb.)                                     |
| ISO   | 399 kN (89,699 lb.)                                     | 399 kN (89,699 lb.)                                     | 323 kN (72,613 lb.)                                     | 472 kN (106,110 lb.)   | 399 kN (89,699 lb.)                                     | 323 kN (72,613 lb.)                                     |
| <b>A Maximum Reach</b>  | 14.10 m (46 ft. 3 in.)                                  | 14.91 m (48 ft. 11 in.)                                 | 15.91 m (52 ft. 2 in.)                                  | 12.34 m (40 ft. 6 in.)   | 16.55 m (54 ft. 4 in.)                                  | 17.56 m (57 ft. 7 in.)                                  |
| <b>A' Maximum Reach at Ground Level</b>                       | 13.82 m (45 ft. 4 in.)                                  | 14.64 m (48 ft.)  | 15.67 m (51 ft. 5 in.)                                  | 12.02 m (39 ft. 5 in.)   | 16.32 m (53 ft. 7 in.)                                  | 17.34 m (56 ft. 11 in.)                                 |
| <b>B Maximum Digging Depth</b>                                | 8.87 m (29 ft. 1 in.)                                   | 9.57 m (31 ft. 5 in.)                                   | 10.57 m (34 ft. 8 in.)                                  | 7.14 m (23 ft. 5 in.)  | 11.16 m (36 ft. 7 in.)                                  | 12.16 m (39 ft. 11 in.)                                 |
| <b>B' Maximum Digging Depth at 2.44-m (8 ft.) Flat Bottom</b> | 8.74 m (28 ft. 8 in.)                                   | 9.46 m (31 ft.)   | 10.47 m (34 ft. 4 in.)                                  | 7 m (23 ft.)   | 11.04 m (36 ft. 3 in.)                                  | 12.06 m (39 ft. 7 in.)                                  |
| <b>C Maximum Cutting Height</b>                               | 13.03 m (42 ft. 9 in.)                                  | 13.82 m (45 ft. 4 in.)                                  | 14.52 m (47 ft. 8 in.)                                  | 12.01 m (39 ft. 5 in.)   | 14.66 m (48 ft. 1 in.)                                  | 15.34 m (50 ft. 4 in.)                                  |
| <b>D Maximum Dumping Height</b>                               | 9.08 m (29 ft. 9 in.)                                   | 9.74 m (31 ft. 11 in.)                                  | 10.41 m (34 ft. 2 in.)                                  | 8.13 m (26 ft. 8 in.)  | 10.81 m (35 ft. 6 in.)                                  | 11.26 m (36 ft. 11 in.)                                 |
| <b>E Minimum Swing Radius</b>                                 | 5.95 m (19 ft. 6 in.)                                   | 5.95 m (19 ft. 6 in.)                                   | 5.94 m (19 ft. 6 in.)                                   | 5.21 m (17 ft. 1 in.)  | 7.35 m (24 ft. 1 in.)                                   | 7.32 m (24 ft.)   |
| <b>F Maximum Vertical Wall</b>                                | 7.17 m (23 ft. 6 in.)                                   | 8.48 m (27 ft. 10 in.)                                  | 9.75 m (32 ft.)   | 4.10 m (13 ft. 5 in.)  | 9.87 m (32 ft. 5 in.)                                   | 11.34 m (37 ft. 2 in.)                                  |
| <b>G Tail Swing Radius</b>                                    | 4.60 m (15 ft. 1 in.)                                   | 4.60 m (15 ft. 1 in.)                                   | 4.60 m (15 ft. 1 in.)                                   | 4.60 m (15 ft. 1 in.)  | 4.60 m (15 ft. 1 in.)                                   | 4.60 m (15 ft. 1 in.)                                   |

| Machine Dimensions   | ZX870LC-6   |
|--|---|
| <b>A</b> Overall Length w/ Arm                                     |   |
| 3.7 m (12 ft. 2 in.)   | 14.88 m (48 ft. 7 in.)                              |
| 4.4 m (14 ft. 5 in.)   | 14.80 m (48 ft. 7 in.)                              |
| 5.4 m (17 ft. 9 in.)   | 14.65 m (48 ft. 1 in.)                              |
| 2.95-m (9 ft. 8 in.) Mass Excavating with Mass-Excavating Boom     | 13.55 m (44 ft. 5 in.)                              |
| <b>B</b> Overall Height w/ Arm                                     |   |
| 3.7 m (12 ft. 2 in.)   | 4.77 m (15 ft. 8 in.)                               |
| 4.4 m (14 ft. 5 in.)   | 5.13 m (16 ft. 10 in.)                              |
| 5.4 m (17 ft. 9 in.)   | 5.76 m (18 ft. 11 in.)                              |
| 2.95-m (9 ft. 8 in.) Mass Excavating with Mass-Excavating Boom     | 5.20 m (17 ft. 1 in.)                               |
| <b>C</b> Rear-End Length/Swing Radius                              | 4.54 m (14 ft. 11 in.)                              |
| <b>D</b> Distance Between Idler/Sprocket Centerline                | 5.11 m (16 ft. 9 in.)                               |
| <b>E</b> Undercarriage Length                                      | 6.36 m (20 ft. 10 in.)                              |
| <b>F</b> Counterweight Clearance                                   | 1.68 m (5 ft. 6 in.)                                |
| <b>G</b> Upperstructure Width                                      | 4.12 m (13 ft. 6 in.)                               |
| <b>H</b> Cab Height  | 3.69 m (12 ft. 1 in.)                               |
| <b>I</b> Track Width w/ Double-Bar Grouser Shoes                   | 650 mm (26 in.) / 750 mm (30 in.) / 900 mm (36 in.) |
| <b>J</b> Gauge Width w/900-mm (36 in.) Double-Bar Grouser Shoes    |   |
| Operating Position   | 3.45 m (11 ft. 4 in.)                               |
| Transport Position   | 2.83 m (9 ft. 3 in.)                                |
| <b>K</b> Ground Clearance  | 0.89 m (35 in.)                                     |
| <b>L</b> Overall Width w/ 900-mm (36 in.) Double-Bar Grouser Shoes |   |
| Operating Position   | 4.35 m (14 ft. 3 in.)                               |
| Transport Position   | 3.73 m (12 ft. 3 in.)                               |

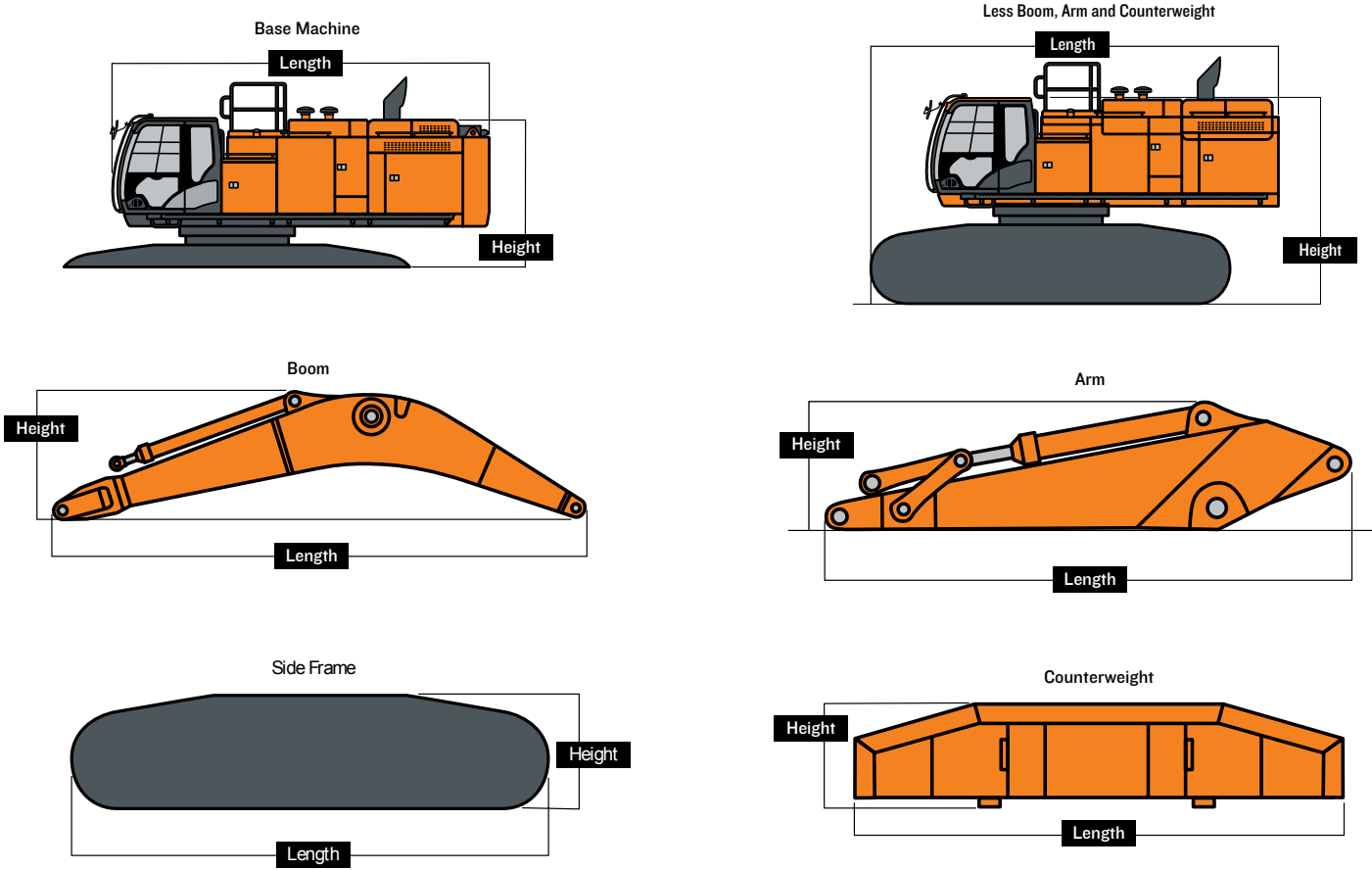




# ZX870LC-6

| Packing Dimensions and Weights for Transportation                 |                                       | ZX870LC-6   |   |   |
|---|---------------------------------------|---|---|---|
| <b>Base Machine</b><br>(without front attachment and side frame)* | <b>Length</b><br>6.5 m (21 ft. 4 in.) | <b>Height</b><br>2.96 m (9 ft. 9 in.)                                     | <b>Overall Width</b><br>3.42 m (11 ft. 3 in.)   | <b>Weight</b><br>29 000 kg (63,934 lb.)   |
| <b>Side Frame**</b>   |                                       |   |   |   |
| 650-mm (26 in.) Shoe Width  | 6.36 m (20 ft. 10 in.)                | 1.50 m (4 ft. 11 in.)   | 1.33 m (4 ft. 4 in.)  | 12 300 kg (27,117 lb.)  |
| 750-mm (30 in.) Shoe Width  | 6.36 m (20 ft. 10 in.)                | 1.50 m (4 ft. 11 in.)   | 1.33 m (4 ft. 4 in.)  | 12 600 kg (27,778 lb.)  |
| 900-mm (36 in.) Shoe Width  | 6.36 m (20 ft. 10 in.)                | 1.50 m (4 ft. 11 in.)   | 1.42 m (4 ft. 8 in.)  | 13 100 kg (28,881 lb.)  |
| 1020-mm (40 in.) Shoe Width                                       | 6.36 m (20 ft. 10 in.)                | 1.50 m (4 ft. 11 in.)   | 1.45 m (4 ft. 9 in.)  | 13 500 kg (29,762 lb.)  |
| <b>Counterweight, Standard</b>                                    | 3.36 m (11 ft.)                       | 1.62 m (5 ft. 4 in.)  | 0.72 m (28 in.)   | 13 300 kg (29,321 lb.)  |
| <b>Boom</b>   |                                       |   |   |   |
| 7.1 m (23 ft. 4 in.)  | 7.49 m (24 ft. 7 in.)                 | 2.70 m (8 ft. 10 in.)   | 1.45 m (4 ft. 9 in.)  | 7670 kg (16,909 lb.)  |
| 8.4 m (27 ft. 7 in.)  | 8.78 m (28 ft. 10 in.)                | 2.50 m (8 ft. 2 in.)  | 1.45 m (4 ft. 9 in.)  | 8190 kg (18,056 lb.)  |
| 10 m (32 ft. 10 in.)  | 10.37 m (34 ft.)                      | 2.70 m (8 ft. 10 in.)   | 1.45 m (4 ft. 9 in.)  | 9390 kg (20,701 lb.)  |
| <b>Arm</b>  |                                       |   |   |   |
| 2.95 m (9 ft. 8 in.)  | 4.46 m (14 ft. 8 in.)                 | 1.66 m (5 ft. 5 in.)  | 0.85 m (33 in.)   | 4620 kg (10,185 lb.)  |
| 3.7 m (12 ft. 2 in.)  | 5.29 m (17 ft. 4 in.)                 | 1.42 m (4 ft. 8 in.)  | 0.82 m (32 in.)   | 4290 kg (9,458 lb.)   |
| 4.4 m (14 ft. 5 in.)  | 5.88 m (19 ft. 3 in.)                 | 1.42 m (4 ft. 8 in.)  | 0.82 m (32 in.)   | 4630 kg (10,207 lb.)  |
| 5.4 m (17 ft. 9 in.)  | 6.83 m (22 ft. 5 in.)                 | 1.48 m (4 ft. 10 in.)   | 0.80 m (31 in.)   | 4940 kg (10,891 lb.)  |
| <b>Length Less Boom, Arm and Counterweight</b>                    | 7.53 m (24 ft. 8 in.)                 | 3.89 m (12 ft. 9 in.) /<br>3.86 m (12 ft. 8 in.)<br>without exhaust stack | 3.48 m (11 ft. 5 in.) w/<br>650-mm (26 in.) shoes /<br>3.58 m (11 ft. 9 in.) w/<br>750-mm (30 in.) shoes /<br>3.73 m (12 ft. 3 in.) w/<br>900-mm (36 in.) shoes | 53 400 kg (117,727 lb.) w/<br>650-mm (26 in.) shoes /<br>54 000 kg (119,050 lb.) w/<br>750-mm (30 in.) shoes /<br>55 000 kg (121,254 lb.) w/<br>900-mm (36 in.) shoes |

\*Steps on the track frame, exhaust stack, side hydraulic oil tank, handrails and upper fuel tank must be removed to comply with the width dimensions above.  
\*\*The dimensions and the weights indicate those of one side frame.



### Lift Charts

### ZX870LC-6

**Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.).** Ratings at bucket lift hook; 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. All lift capacities are based on ISO 10567 (with power boost).

| Load Point Height  | 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.) |           | 12.0 m (40 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 <sup>3</sup> (3.79 cu. yd.) bucket, 4.4-m (14 ft. 5 in.) arm, 8.4-m (27 ft. 7 in.) boom, and 650-mm (26 in.) double-bar grouser shoes       |                |           |                |           |                |           |                |           |                |           |                 |           |                 |           |
| 9.0 m (30 ft.)   |                |           |                |           |                |           |                |           | (27,690)       | (27,690)  | 10 020          | 10 020    |                 |           |
| 7.5 m (25 ft.)   |                |           |                |           |                |           |                |           | 13 530         | 13 530    | 12 670          | 12 670    |                 |           |
|  |                |           |                |           |                |           |                |           | (29,450)       | (29,450)  | (26,640)        | (26,640)  |                 |           |
| 6.0 m (20 ft.)   |                |           |                |           |                |           | 16 970         | 16 970    | 14 840         | 14 840    | 13 490          | 12 540    | 9300            | 9300      |
|  |                |           |                |           |                |           | (36,620)       | (36,620)  | (32,180)       | (32,180)  | (29,370)        | (26,860)  | (16,450)        | (16,450)  |
| 4.5 m (15 ft.)   |                |           |                |           | 25 250         | 25 250    | 19 610         | 19 610    | 16 420         | 15 860    | 14 420          | 12 110    | 12 000          | 9350      |
|  |                |           |                |           | (54,120)       | (54,120)  | (42,250)       | (42,250)  | (35,520)       | (34,120)  | (31,320)        | (25,980)  | (23,410)        | (19,960)  |
| 3.0 m (10 ft.)   |                |           |                |           | 29 590         | 28 620    | 22 180         | 20 250    | 18 010         | 15 130    | 15 400          | 11 650    | 13 670          | 9120      |
|  |                |           |                |           | (63,590)       | (61,710)  | (47,810)       | (43,630)  | (38,940)       | (32,540)  | (33,400)        | (25,010)  | (27,730)        | (19,490)  |
| 1.5 m (5 ft.)  |                |           |                |           | 28 890         | 27 170    | 24 200         | 19 280    | 19 360         | 14 490    | 16 260          | 11 240    | 14 110          | 8870      |
|  |                |           |                |           | (69,870)       | (58,490)  | (52,240)       | (41,520)  | (41,870)       | (31,160)  | (35,220)        | (24,120)  | (29,650)        | (19,010)  |
| Ground Line  |                |           |                |           | 28 790         | 26 420    | 25 380         | 18 640    | 20 260         | 14 020    | 16 820          | 10 920    | 13 980          | 8700      |
|  |                |           |                |           | (68,030)       | (56,810)  | (54,870)       | (40,100)  | (43,820)       | (30,140)  | (36,390)        | (23,450)  | (26,770)        | (18,650)  |
| -1.5 m (-5 ft.)  |                |           | 16 350         | 16 350    | 33 260         | 26 150    | 25 660         | 18 300    | 20 540         | 13 740    | 16 910          | 10 730    |                 |           |
|  |                |           | (37,550)       | (37,550)  | (72,030)       | (56,180)  | (55,510)       | (39,350)  | (44,410)       | (29,540)  | (36,500)        | (23,060)  |                 |           |
| -3.0 m (-10 ft.)   | 16 530         | 16 530    | 24 950         | 24 950    | 31 890         | 26 190    | 24 980         | 18 220    | 20,050         | 13 660    | 16 230          | 10 720    |                 |           |
|  | (37,410)       | (37,410)  | (57,060)       | (57,060)  | (69,030)       | (56,250)  | (54,000)       | (39,180)  | (43,250)       | (29,380)  | (34,820)        | (23,060)  |                 |           |
| -4.5 m (-15 ft.)   | 25 420         | 25 420    | 36 210         | 36 210    | 29 280         | 26 490    | 23 170         | 18 390    | 18,450         | 13 800    |                 |           |                 |           |
|  | (57,580)       | (57,580)  | (81,680)       | (81,680)  | (63,220)       | (56,920)  | (49,890)       | (39,570)  | (39,500)       | (29,730)  |                 |           |                 |           |
| -6.0 m (-20 ft.)   |                |           | 31 730         | 31 730    | 24 960         | 24 960    | 19 640         | 18 850    | 14 570         | 14 310    |                 |           |                 |           |
|  |                |           | (68,100)       | (68,100)  | (53,450)       | (53,450)  | (41,730)       | (40,640)  |                |           |                 |           |                 |           |
| With 4.5-m <sup>3</sup> (5.89 cu. yd.) bucket, 2.95-m (9 ft. 8 in.) BE arm, 7.1-m (23 ft. 4 in.) BE boom, and 650-mm (26 in.) double-bar grouser shoes |                |           |                |           |                |           |                |           |                |           |                 |           |                 |           |
| 7.5 m (25 ft.)   |                |           |                |           |                |           | 18 590         | 18 590    |                |           |                 |           |                 |           |
|  |                |           |                |           |                |           | (40,540)       | (40,540)  |                |           |                 |           |                 |           |
| 6.0 m (20 ft.)   |                |           |                |           | 24 030         | 24 030    | 20 180         | 20 180    | 17 960         | 15 640    |                 |           |                 |           |
|  |                |           |                |           | (51,760)       | (51,760)  | (43,740)       | (43,740)  | (39,200)       | (33,380)  |                 |           |                 |           |
| 4.5 m (15 ft.)   |                |           |                |           | 28 170         | 28 170    | 22 240         | 21 160    | 18 940         | 15 290    |                 |           |                 |           |
|  |                |           |                |           | (60,570)       | (60,570)  | (48,080)       | (45,510)  | (41,120)       | (32,740)  |                 |           |                 |           |
| 3.0 m (10 ft.)   |                |           |                |           | 31 890         | 29 020    | 24 270         | 20 180    | 19 970         | 14 780    |                 |           |                 |           |
|  |                |           |                |           | (68,680)       | (62,470)  | (52,450)       | (43,400)  | (43,290)       | (31,720)  |                 |           |                 |           |
| 1.5 m (5 ft.)  |                |           |                |           | 33 940         | 27 780    | 25 680         | 19 380    | 20 660         | 14 310    |                 |           |                 |           |
|  |                |           |                |           | (73,300)       | (59,730)  | (55,500)       | (41,660)  | (44,710)       | (30,710)  |                 |           |                 |           |
| Ground Line  |                |           |                |           | 34 060         | 27 140    | 26,030         | 18 870    | 20 610         | 13 990    |                 |           |                 |           |
|  |                |           |                |           | (73,720)       | (58,300)  | (56,270)       | (40,540)  | (44,450)       | (30,040)  |                 |           |                 |           |
| -1.5 m (-5 ft.)  |                |           | 37 400         | 37 400    | 32 420         | 26 950    | 24 990         | 18 660    | 19 060         | 13 920    |                 |           |                 |           |
|  |                |           | (86,600)       | (86,600)  | (70,180)       | (57,870)  | (53,930)       | (40,100)  |                |           |                 |           |                 |           |
| -3.0 m (-10 ft.)   | 37 120         | 37 120    | 37 090         | 37 090    | 28 750         | 27 130    | 21 820         | 18 800    |                |           |                 |           |                 |           |
|  | (84,430)       | (84,430)  | (80,340)       | (80,340)  | (61,990)       | (58,270)  | (46,550)       | (40,460)  |                |           |                 |           |                 |           |
| -4.5 m (-15 ft.)   |                |           | 28 290         | 28 290    | 21 550         | 21 550    |                |           |                |           |                 |           |                 |           |
|  |                |           | (60,460)       | (60,460)  | (45,370)       | (45,370)  |                |           |                |           |                 |           |                 |           |
| With 2.9-m <sup>3</sup> (3.79 cu. yd.) bucket, 4.4-m (14 ft. 4 in.) arm, 8.4-m (27 ft. 7 in.) boom, and 750-mm (30 in.) double-bar grouser shoes       |                |           |                |           |                |           |                |           |                |           |                 |           |                 |           |
| 9.0 m (30 ft.)   |                |           |                |           |                |           |                |           | (27,690)       | (27,690)  | 10 020          | 10 020    |                 |           |
| 7.5 m (25 ft.)   |                |           |                |           |                |           |                |           | 13 530         | 13 530    | 12 670          | 12 670    |                 |           |
|  |                |           |                |           |                |           |                |           | (29,450)       | (29,450)  | (26,640)        | (26,640)  |                 |           |
| 6.0 m (20 ft.)   |                |           |                |           |                |           | 16 970         | 16 970    | 14 840         | 14 840    | 13 490          | 12 650    | 9300            | 9300      |
|  |                |           |                |           |                |           | (36,620)       | (36,620)  | (32,180)       | (32,180)  | (29,370)        | (27,100)  | (16,450)        | (16,450)  |
| 4.5 m (15 ft.)   |                |           |                |           | 25 250         | 25 250    | 19 610         | 19 610    | 16 420         | 16 000    | 14 420          | 12 220    | 12 000          | 9450      |
|  |                |           |                |           | (54,120)       | (54,120)  | (42,250)       | (42,250)  | (35,520)       | (34,410)  | (31,320)        | (26,220)  | (23,410)        | (20,160)  |
| 3.0 m (10 ft.)   |                |           |                |           | 29 590         | 28 850    | 22 180         | 20 420    | 18 010         | 15 260    | 15 400          | 11 760    | 13 670          | 9210      |
|  |                |           |                |           | (63,590)       | (62,210)  | (47,810)       | (44,000)  | (38,940)       | (32,830)  | (33,400)        | (25,250)  | (27,730)        | (19,700)  |
| 1.5 m (5 ft.)  |                |           |                |           | 28 890         | 27 400    | 24 200         | 19 450    | 19 360         | 14 620    | 16 260          | 11 350    | 14 110          | 8970      |
|  |                |           |                |           | (69,870)       | (58,990)  | (52,240)       | (41,880)  | (41,870)       | (31,450)  | (35,220)        | (24,360)  | (29,650)        | (19,210)  |
| Ground Line  |                |           |                |           | 28 790         | 26 660    | 25 380         | 18 810    | 20 260         | 14 150    | 16 820          | 11 030    | 14 120          | 8790      |
|  |                |           |                |           | (68,030)       | (57,310)  | (54,870)       | (40,460)  | (43,820)       | (30,430)  | (36,390)        | (23,690)  | (26,770)        | (18,860)  |
| -1.5 m (-5 ft.)  |                |           | 16 350         | 16 350    | 33 260         | 26 380    | 25 660         | 18 470    | 20 540         | 13 870    | 16 910          | 10 850    |                 |           |
|  |                |           | (37,550)       | (37,550)  | (72,030)       | (56,680)  | (55,510)       | (39,720)  | (44,410)       | (29,830)  | (36,500)        | (23,300)  |                 |           |
| -3.0 m (-10 ft.)   | 16 530         | 16 530    | 24 950         | 24 950    | 31 890         | 26 420    | 24 980         | 18 390    | 20 050         | 13 790    | 16 230          | 10 830    |                 |           |
|  | (37,410)       | (37,410)  | (57,060)       | (57,060)  | (69,030)       | (56,750)  | (54,000)       | (39,550)  | (43,250)       | (29,670)  | (34,820)        | (23,300)  |                 |           |
| -4.5 m (-15 ft.)   | 25 420         | 25 420    | 36 210         | 36 210    | 29 280         | 26 720    | 23 170         | 18 560    | 18 450         | 13 940    |                 |           |                 |           |
|  | (57,580)       | (57,580)  | (81,680)       | (81,680)  | (63,220)       | (57,420)  | (49,890)       | (39,940)  | (39,500)       | (30,020)  |                 |           |                 |           |
| -6.0 m (-20 ft.)   |                |           | 31 730         | 31 730    | 24 960         | 24 960    | 19 640         | 19 020    | 14 570         | 14 440    |                 |           |                 |           |
|  |                |           | (68,100)       | (68,100)  | (53,450)       | (53,450)  | (41,730)       | (41,000)  |                |           |                 |           |                 |           |

# ZX870LC-6

## Lift Charts

## ZX870LC-6

**Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.).** Ratings at bucket lift hook; 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. All lift capacities are based on ISO 10567 (with power boost).

| Load Point Height  | 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.) |                 | 12.0 m (40 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 3.5-m <sup>3</sup> (4.58 cu. yd.) bucket, 3.7-m (12 ft. 2 in.) arm, 8.4-m (27 ft. 7 in.) boom, and 900-mm (36 in.) double-bar grouser shoes |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 9.0 m (30 ft.)   |                 |                 |                 |                 |                 |                 |                 |                 | 13 880          | 13 880          |                 |                 |                 |                 |
|  |                 |                 |                 |                 |                 |                 |                 |                 | <b>(30,450)</b> | <b>(30,450)</b> |                 |                 |                 |                 |
| 7.5 m (25 ft.)   |                 |                 |                 |                 |                 |                 |                 |                 | 14 650          | 14 650          | 13 100          | 12 690          |                 |                 |
|  |                 |                 |                 |                 |                 |                 |                 |                 | <b>(31,870)</b> | <b>(31,870)</b> | <b>(25,050)</b> | <b>(25,050)</b> |                 |                 |
| 6.0 m (20 ft.)   |                 |                 |                 |                 | 22 870          | 22 870          | 18 430          | 18 430          | 15 890          | 15 890          | 14 330          | 12 490          |                 |                 |
|  |                 |                 |                 |                 | <b>(48,970)</b> | <b>(48,970)</b> | <b>(39,740)</b> | <b>(39,740)</b> | <b>(34,440)</b> | <b>(34,440)</b> | <b>(31,210)</b> | <b>(26,730)</b> |                 |                 |
| 4.5 m (15 ft.)   |                 |                 |                 |                 | 27 610          | 27 610          | 20 980          | 20 980          | 17 360          | 15 870          | 15 160          | 12 130          |                 |                 |
|  |                 |                 |                 |                 | <b>(59,130)</b> | <b>(59,130)</b> | <b>(45,190)</b> | <b>(45,190)</b> | <b>(37,560)</b> | <b>(34,130)</b> | <b>(32,930)</b> | <b>(26,030)</b> |                 |                 |
| 3.0 m (10 ft.)   |                 |                 |                 |                 | 31 520          | 28 480          | 23 340          | 20 280          | 18 810          | 15 200          | 16 010          | 11 740          |                 |                 |
|  |                 |                 |                 |                 | <b>(67,720)</b> | <b>(61,420)</b> | <b>(50,310)</b> | <b>(43,710)</b> | <b>(40,670)</b> | <b>(32,710)</b> | <b>(34,700)</b> | <b>(25,190)</b> |                 |                 |
| 1.5 m (5 ft.)  |                 |                 |                 |                 | 25 410          | 25 410          | 25 010          | 19 470          | 19 950          | 14 660          | 16 690          | 11 390          |                 |                 |
|  |                 |                 |                 |                 | <b>(61,700)</b> | <b>(59,000)</b> | <b>(54,000)</b> | <b>(41,920)</b> | <b>(43,140)</b> | <b>(31,520)</b> | <b>(36,140)</b> | <b>(24,460)</b> |                 |                 |
| Ground Line  |                 |                 |                 |                 | 29 580          | 26 980          | 25 770          | 18 980          | 20 580          | 14 280          | 17 020          | 11 140          |                 |                 |
|  |                 |                 |                 |                 | <b>(69,890)</b> | <b>(57,990)</b> | <b>(55,720)</b> | <b>(40,830)</b> | <b>(44,500)</b> | <b>(30,710)</b> | <b>(36,790)</b> | <b>(23,940)</b> |                 |                 |
| -1.5 m (-5 ft.)  |                 |                 | 18 560          | 18 560          | 32 750          | 26 910          | 25 590          | 18 780          | 20 520          | 14 090          | 16 750          | 11 040          |                 |                 |
|  |                 |                 | <b>(42,710)</b> | <b>(42,710)</b> | <b>(70,990)</b> | <b>(57,790)</b> | <b>(55,360)</b> | <b>(40,370)</b> | <b>(44,340)</b> | <b>(30,310)</b> | <b>(36,070)</b> | <b>(23,740)</b> |                 |                 |
| -3.0 m (-10 ft.)   | 20 700          | 20 700          | 30 190          | 30 190          | 30 770          | 27 080          | 24 400          | 18 810          | 19 560          | 14 110          |                 |                 |                 |                 |
|  | <b>(46,800)</b> | <b>(46,800)</b> | <b>(69,030)</b> | <b>(69,030)</b> | <b>(66,640)</b> | <b>(58,170)</b> | <b>(52,720)</b> | <b>(40,460)</b> | <b>(42,110)</b> | <b>(30,370)</b> |                 |                 |                 |                 |
| -4.5 m (-15 ft.)   |                 |                 | 34 430          | 34 430          | 27 470          | 27 470          | 21 900          | 19 090          | 17 090          | 14 390          |                 |                 |                 |                 |
|  |                 |                 | <b>(74,510)</b> | <b>(74,510)</b> | <b>(59,280)</b> | <b>(59,100)</b> | <b>(47,040)</b> | <b>(41,100)</b> | <b>(36,210)</b> | <b>(31,050)</b> |                 |                 |                 |                 |
| -6.0 m (-20 ft.)   |                 |                 | 27 450          | 27 450          | 22 090          | 22 090          | 17 000          | 17 000          |                 |                 |                 |                 |                 |                 |
|  |                 |                 | <b>(58,690)</b> | <b>(58,690)</b> | <b>(46,990)</b> | <b>(46,990)</b> | <b>(35,450)</b> | <b>(35,450)</b> |                 |                 |                 |                 |                 |                 |
| With 2.9-m <sup>3</sup> (3.79 cu. yd.) bucket, 4.4-m (14 ft. 5 in.) arm, 8.4-m (27 ft. 7 in.) boom, and 900-mm (36 in.) double-bar grouser shoes |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 9.0 m (30 ft.)   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 10 020          | 10 020          |                 |                 |
|  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | <b>(27,690)</b> | <b>(27,690)</b> | <b>(19,450)</b> | <b>(19,450)</b> |
| 7.5 m (25 ft.)   |                 |                 |                 |                 |                 |                 |                 |                 | 13 530          | 13 530          | 12 670          | 12 670          |                 |                 |
|  |                 |                 |                 |                 |                 |                 |                 |                 | <b>(29,450)</b> | <b>(29,450)</b> | <b>(26,640)</b> | <b>(26,640)</b> |                 |                 |
| 6.0 m (20 ft.)   |                 |                 |                 |                 |                 |                 | 16 970          | 16 970          | 14 840          | 14 840          | 13 490          | 12 810          | 9300            | 9300            |
|  |                 |                 |                 |                 |                 |                 | <b>(36,620)</b> | <b>(36,620)</b> | <b>(32,180)</b> | <b>(32,180)</b> | <b>(29,370)</b> | <b>(27,740)</b> | <b>(16,450)</b> | <b>(16,450)</b> |
| 4.5 m (15 ft.)   |                 |                 |                 |                 | 25 250          | 25 250          | 19 610          | 19 610          | 16 420          | 16 190          | 14 420          | 12 370          | 12 000          | 9580            |
|  |                 |                 |                 |                 | <b>(54,120)</b> | <b>(54,120)</b> | <b>(42,250)</b> | <b>(42,250)</b> | <b>(35,520)</b> | <b>(34,820)</b> | <b>(31,320)</b> | <b>(26,550)</b> | <b>(23,410)</b> | <b>(20,450)</b> |
| 3.0 m (10 ft.)   |                 |                 |                 |                 | 29 590          | 29,170          | 22 180          | 20 660          | 18 010          | 15 450          | 15 400          | 11 910          | 13 670          | 9340            |
|  |                 |                 |                 |                 | <b>(63,590)</b> | <b>(62,900)</b> | <b>(47,810)</b> | <b>(44,520)</b> | <b>(38,940)</b> | <b>(33,230)</b> | <b>(33,400)</b> | <b>(25,580)</b> | <b>(27,730)</b> | <b>(19,980)</b> |
| 1.5 m (5 ft.)  |                 |                 |                 |                 | 28 890          | 27 720          | 24 200          | 19 690          | 19 360          | 14 810          | 16 260          | 11 500          | 14 110          | 9100            |
|  |                 |                 |                 |                 | <b>(69,870)</b> | <b>(59,690)</b> | <b>(52,240)</b> | <b>(42,400)</b> | <b>(41,870)</b> | <b>(31,860)</b> | <b>(35,220)</b> | <b>(24,700)</b> | <b>(29,650)</b> | <b>(19,500)</b> |
| Ground Line  |                 |                 |                 |                 | 28 790          | 26 980          | 25 380          | 19 040          | 20 260          | 14 340          | 16 820          | 11 180          | 14 290          | 8920            |
|  |                 |                 |                 |                 | <b>(68,030)</b> | <b>(58,010)</b> | <b>(54,870)</b> | <b>(40,980)</b> | <b>(43,820)</b> | <b>(30,830)</b> | <b>(36,390)</b> | <b>(24,020)</b> | <b>(26,770)</b> | <b>(19,140)</b> |
| -1.5 m (-5 ft.)  |                 |                 | 16 350          | 16 350          | 33 260          | 26 710          | 25 660          | 18 710          | 20 540          | 14 060          | 16 910          | 11 000          |                 |                 |
|  |                 |                 | <b>(37,550)</b> | <b>(37,550)</b> | <b>(72,030)</b> | <b>(57,370)</b> | <b>(55,510)</b> | <b>(40,230)</b> | <b>(44,410)</b> | <b>(30,230)</b> | <b>(36,500)</b> | <b>(23,640)</b> |                 |                 |
| -3.0 m (-10 ft.)   | 16 530          | 16 530          | 24 950          | 24 950          | 31 890          | 26 740          | 24 980          | 18 630          | 20 050          | 13 980          | 16 230          | 10 980          |                 |                 |
|  | <b>(37,410)</b> | <b>(37,410)</b> | <b>(57,060)</b> | <b>(57,060)</b> | <b>(69,030)</b> | <b>(57,450)</b> | <b>(54,000)</b> | <b>(40,060)</b> | <b>(43,250)</b> | <b>(30,070)</b> | <b>(34,820)</b> | <b>(23,640)</b> |                 |                 |
| -4.5 m (-15 ft.)   | 25 420          | 25 420          | 36 210          | 36 210          | 29 280          | 27 050          | 23 170          | 18 800          | 18 450          | 14 130          |                 |                 |                 |                 |
|  | <b>(57,580)</b> | <b>(57,580)</b> | <b>(81,680)</b> | <b>(81,680)</b> | <b>(63,220)</b> | <b>(58,120)</b> | <b>(49,890)</b> | <b>(40,450)</b> | <b>(39,500)</b> | <b>(30,430)</b> |                 |                 |                 |                 |
| -6.0 m (-20 ft.)   |                 |                 | 31 730          | 31 730          | 24 960          | 24 960          | 19 640          | 19 260          | 14 570          | 14 570          |                 |                 |                 |                 |
|  |                 |                 | <b>(68,100)</b> | <b>(68,100)</b> | <b>(53,450)</b> | <b>(53,450)</b> | <b>(41,730)</b> | <b>(41,520)</b> |                 |                 |                 |                 |                 |                 |

### Lift Charts

### ZX870LC-6

**Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.).** Ratings at bucket lift hook; 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. All lift capacities are based on ISO 10567 (with power boost).

| 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.) |           | 12.0 m (40 ft.) |           | 13.5 m (45 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 | Over Front      | Over Side | Over Front      | Over Side |  |
| With 2.3-m <sup>3</sup> (3.01 cu. yd.) bucket, 5.4-m (17 ft. 9 in.) arm, 8.4-m (27 ft. 7 in.) boom, and 900-mm (36 in.) double-bar grouser shoes       |               |           |                |           |                |           |                |           |                |           |                |           |                 |           |                 |           |                 |           |  |
| 10.5 m (35 ft.)  |               |           |                |           |                |           |                |           |                |           |                |           |                 | 7900      | 7900            |           |                 |           |  |
|  |               |           |                |           |                |           |                |           |                |           |                |           |                 | (15,910)  | (15,910)        |           |                 |           |  |
| 9.0 m (30 ft.)   |               |           |                |           |                |           |                |           |                |           |                |           |                 | 9200      | 9200            | 5930      | 5930            |           |  |
|  |               |           |                |           |                |           |                |           |                |           |                |           |                 | (19,730)  | (19,730)        |           |                 |           |  |
| 7.5 m (25 ft.)   |               |           |                |           |                |           |                |           |                |           |                |           |                 | 10 200    | 10 200          | 8360      | 8360            |           |  |
|  |               |           |                |           |                |           |                |           |                |           |                |           |                 | (22,080)  | (22,080)        | (16,960)  | (16,960)        |           |  |
| 6.0 m (20 ft.)   |               |           |                |           |                |           |                |           |                |           |                | 12 310    | 12 310          | 11 660    | 11 660          | 9880      | 9880            |           |  |
|  |               |           |                |           |                |           |                |           |                |           |                | (26,700)  | (26,700)        | (25,210)  | (25,210)        | (20,710)  | (20,710)        |           |  |
| 4.5 m (15 ft.)   |               |           |                |           |                |           | 21 680         | 21 680    | 17 380         | 17 380    | 14 830         | 14 830    | 13 180          | 12 680    | 11 460          | 9840      | 5780            | 5780      |  |
|  |               |           |                |           |                |           | (46,510)       | (46,510)  | (37,480)       | (37,480)  | (32,110)       | (32,110)  | (28,630)        | (27,200)  | (24,150)        | (21,030)  |                 |           |  |
| 3.0 m (10 ft.)   |               |           |                |           |                |           | 26 460         | 26 460    | 20 200         | 20 200    | 16 610         | 15 800    | 14 320          | 12 140    | 12 780          | 9500      | 6950            | 6950      |  |
|  |               |           |                |           |                |           | (56,880)       | (56,880)  | (43,570)       | (43,570)  | (35,920)       | (33,990)  | (31,050)        | (26,060)  | (27,780)        | (20,340)  | (11,420)        | (11,420)  |  |
| 1.5 m (5 ft.)  |               |           |                |           |                |           | 30 210         | 28 350    | 22 650         | 20 060    | 18 220         | 15 040    | 15 390          | 11 640    | 13 440          | 9180      | 7070            | 7070      |  |
|  |               |           |                |           |                |           | (65,120)       | (61,050)  | (48,900)       | (43,200)  | (39,410)       | (32,340)  | (33,330)        | (24,980)  | (29,150)        | (19,650)  |                 |           |  |
| Ground Line  |               |           |                |           | 10 910         | 10 910    | 31 520         | 27 140    | 24 390         | 19 190    | 19 470         | 14 420    | 16 220          | 11 220    | 13 920          | 8910      |                 |           |  |
|  |               |           |                |           | (25,350)       | (25,350)  | (70,030)       | (58,370)  | (52,710)       | (41,280)  | (42,110)       | (31,010)  | (35,120)        | (24,090)  | (30,140)        | (19,090)  |                 |           |  |
| -1.5 m (-5 ft.)  |               |           | 7900           | 7900      | 15 260         | 15 260    | 33 060         | 26 520    | 25 270         | 18 640    | 20 180         | 14 010    | 16 680          | 10 930    | 14 070          | 8730      |                 |           |  |
|  |               |           | (17,940)       | (17,940)  | (35,000)       | (35,000)  | (71,780)       | (56,980)  | (54,670)       | (40,070)  | (43,650)       | (30,100)  | (36,070)        | (23,460)  | (30,330)        | (18,730)  |                 |           |  |
| -3.0 m (-10 ft.)   | 10 450        | 10 450    | 13 570         | 13 570    | 21 250         | 21 250    | 32 710         | 26 310    | 25 270         | 18 380    | 20 230         | 13 790    | 16 590          | 10 780    | 13 360          | 8690      |                 |           |  |
|  | (23,480)      | (23,480)  | (30,700)       | (30,700)  | (48,560)       | (48,560)  | (70,770)       | (56,520)  | (54,630)       | (39,520)  | (43,710)       | (29,650)  | (35,780)        | (23,170)  | (23,920)        | (18,700)  |                 |           |  |
| -4.5 m (-15 ft.)   | 16 070        | 16 070    | 20 110         | 20 110    | 29 200         | 29 200    | 31 050         | 26 420    | 24 260         | 18 390    | 19 430         | 13 780    | 15 660          | 10 820    |                 |           |                 |           |  |
|  | (36,160)      | (36,160)  | (45,550)       | (45,550)  | (66,830)       | (66,830)  | (67,080)       | (56,770)  | (52,360)       | (39,550)  | (41,840)       | (29,650)  | (33,480)        | (23,310)  |                 |           |                 |           |  |
| -6.0 m (-20 ft.)   |               |           | 28 310         | 28 310    | 36 610         | 36 610    | 27 970         | 26 830    | 21 990         | 18 650    | 17 360         | 14 020    |                 |           |                 |           |                 |           |  |
|  |               |           | (64,350)       | (64,350)  | (78,800)       | (78,800)  | (60,140)       | (57,700)  | (47,140)       | (40,170)  | (36,940)       | (30,230)  |                 |           |                 |           |                 |           |  |
| -7.5 m (-25 ft.)   |               |           |                |           | 29 490         | 29 490    | 22 810         | 22 810    | 17 610         | 17 610    |                |           |                 |           |                 |           |                 |           |  |
|  |               |           |                |           | (62,630)       | (62,630)  | (48,310)       | (48,310)  | (36,860)       | (36,860)  |                |           |                 |           |                 |           |                 |           |  |
| With 4.5-m <sup>3</sup> (5.89 cu. yd.) bucket, 2.95-m (9 ft. 8 in.) BE arm, 7.1-m (23 ft. 4 in.) BE boom, and 900-mm (36 in.) double-bar grouser shoes |               |           |                |           |                |           |                |           |                |           |                |           |                 |           |                 |           |                 |           |  |
| 7.5 m (25 ft.)   |               |           |                |           |                |           |                |           | 18 590         | 18 590    |                |           |                 |           |                 |           |                 |           |  |
|  |               |           |                |           |                |           |                |           | (40,540)       | (40,540)  |                |           |                 |           |                 |           |                 |           |  |
| 6.0 m (20 ft.)   |               |           |                |           |                |           | 24 030         | 24 030    | 20 180         | 20 180    | 17 960         | 15 960    |                 |           |                 |           |                 |           |  |
|  |               |           |                |           |                |           | (51,760)       | (51,760)  | (43,740)       | (43,740)  | (39,200)       | (34,080)  |                 |           |                 |           |                 |           |  |
| 4.5 m (15 ft.)   |               |           |                |           |                |           | 28 170         | 28 170    | 22 240         | 21 570    | 18 940         | 15 620    |                 |           |                 |           |                 |           |  |
|  |               |           |                |           |                |           | (60,570)       | (60,570)  | (48,080)       | (46,390)  | (41,120)       | (33,440)  |                 |           |                 |           |                 |           |  |
| 3.0 m (10 ft.)   |               |           |                |           |                |           | 31 890         | 29 570    | 24 270         | 20 590    | 19 970         | 15 100    |                 |           |                 |           |                 |           |  |
|  |               |           |                |           |                |           | (68,680)       | (63,670)  | (52,450)       | (44,280)  | (43,290)       | (32,410)  |                 |           |                 |           |                 |           |  |
| 1.5 m (5 ft.)  |               |           |                |           |                |           | 33 940         | 28 330    | 25 680         | 19 790    | 20 660         | 14 630    |                 |           |                 |           |                 |           |  |
|  |               |           |                |           |                |           | (73,300)       | (60,930)  | (55,500)       | (42,540)  | (44,710)       | (31,400)  |                 |           |                 |           |                 |           |  |
| Ground Line  |               |           |                |           |                |           | 34 060         | 27 700    | 26 030         | 19 270    | 20 610         | 14 310    |                 |           |                 |           |                 |           |  |
|  |               |           |                |           |                |           | (73,720)       | (59,500)  | (56,270)       | (41,420)  | (44,450)       | (30,730)  |                 |           |                 |           |                 |           |  |
| -1.5 m (-5 ft.)  |               |           |                |           | 37 400         | 37 400    | 32 420         | 27 510    | 24 990         | 19 070    | 19 060         | 14 240    |                 |           |                 |           |                 |           |  |
|  |               |           |                |           | (86,600)       | (86,600)  | (70,180)       | (59,060)  | (53,930)       | (40,980)  |                |           |                 |           |                 |           |                 |           |  |
| -3.0 m (-10 ft.)   |               |           | 37 120         | 37 120    | 37 090         | 37 090    | 28 750         | 27 690    | 21 820         | 19 210    |                |           |                 |           |                 |           |                 |           |  |
|  |               |           | (84,430)       | (84,430)  | (80,340)       | (80,340)  | (61,990)       | (59,470)  | (46,550)       | (41,340)  |                |           |                 |           |                 |           |                 |           |  |
| -4.5 m (-15 ft.)   |               |           |                |           | 28 290         | 28 290    | 21 550         | 21 550    |                |           |                |           |                 |           |                 |           |                 |           |  |
|  |               |           |                |           | (60,460)       | (60,460)  | (45,370)       | (45,370)  |                |           |                |           |                 |           |                 |           |                 |           |  |

# ZX870LC-6

## Lift Charts

## ZX870LC-6

**Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.).** Ratings at bucket lift hook; 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. All lift capacities are based on ISO 10567 (with power boost).

| Load Point Height  | 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.) |           | 12.0 m (40 ft.) |           | 13.5 m (45 ft.) |           | 15 m (50 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 | Over Front      | Over Side | Over Front    | Over Side |
| With 2-m <sup>3</sup> (2.63 cu. yd.) bucket, 4.4-m (14 ft. 5 in.) arm, 10-m (32 ft. 10 in.) boom, and 900-mm (36 in.) double-bar grouser shoes   |                |           |                |           |                |           |                |           |                |           |                 |           |                 |           |                 |           |               |           |
| 10.5 m (35 ft.)  |                |           |                |           |                |           |                |           |                |           |                 |           |                 |           |                 |           | 7660          | 7660      |
|  |                |           |                |           |                |           |                |           |                |           | (21,430)        | (21,430)  |                 |           |                 |           |               |           |
| 9.0 m (30 ft.)   |                |           |                |           |                |           |                |           |                |           | 10 150          | 10 150    | 9760            | 9760      |                 |           |               |           |
|  |                |           |                |           |                |           |                |           |                |           | (22,130)        | (22,130)  | (21,450)        | (21,450)  |                 |           |               |           |
| 7.5 m (25 ft.)   |                |           |                |           |                |           |                |           |                |           | 10 900          | 10 900    | 10 130          | 10 050    | 7460            | 7460      |               |           |
|  |                |           |                |           |                |           |                |           |                |           | (23,660)        | (23,660)  | (22,110)        | (21,480)  |                 |           |               |           |
| 6.0 m (20 ft.)   |                |           |                |           |                |           | 16 520         | 16 520    | 13 630         | 13 630    | 11 860          | 11 860    | 10 720          | 9730      | 10 030          | 7570      |               |           |
|  |                |           |                |           |                |           | (35,420)       | (35,420)  | (29,380)       | (29,380)  | (25,670)        | (25,670)  | (23,320)        | (20,840)  | (20,810)        | (16,080)  |               |           |
| 4.5 m (15 ft.)   |                |           |                |           |                |           | 19 240         | 19 240    | 15 300         | 15 230    | 12 930          | 11 830    | 11 410          | 9330      | 10 420          | 7370      |               |           |
|  |                |           |                |           |                |           | (41,260)       | (41,260)  | (32,950)       | (32,850)  | (27,960)        | (25,450)  | (24,750)        | (20,000)  | (22,710)        | (15,710)  |               |           |
| 3.0 m (10 ft.)   |                |           |                |           |                |           | 21 600         | 18 730    | 16 860         | 14 330    | 13 990          | 11 230    | 12 110          | 8930      | 10 850          | 7140      |               |           |
|  |                |           |                |           |                |           | (46,410)       | (40,460)  | (36,330)       | (30,900)  | (30,220)        | (24,160)  | (26,240)        | (19,160)  | (23,590)        | (15,260)  |               |           |
| 1.5 m (5 ft.)  |                |           |                |           |                |           | 23 190         | 17 810    | 18 100         | 13 630    | 14 890          | 10 730    | 12 730          | 8580      | 11 230          | 6920      |               |           |
|  |                |           |                |           |                |           | (49,970)       | (38,410)  | (39,060)       | (29,360)  | (32,180)        | (23,070)  | (27,570)        | (18,410)  | (24,350)        | (14,800)  |               |           |
| Ground Line  |                |           |                |           |                |           | 23 960         | 17 320    | 18 920         | 13 150    | 15 550          | 10 350    | 13 190          | 8310      | 11 300          | 6760      |               |           |
|  |                |           |                |           |                |           | (51,760)       | (37,280)  | (40,870)       | (28,310)  | (33,600)        | (22,260)  | (28,550)        | (17,840)  | (24,280)        | (14,480)  |               |           |
| -1.5 m (-5 ft.)  |                |           |                |           | 13 350         | 13 350    | 24 070         | 17 110    | 19 270         | 12 890    | 15 880          | 10 120    | 13 400          | 8150      | 11 230          | 6690      |               |           |
|  |                |           |                |           | (31,420)       | (31,420)  | (52,080)       | (36,810)  | (41,660)       | (27,730)  | (34,320)        | (21,760)  | (28,960)        | (17,500)  |                 |           |               |           |
| -3.0 m (-10 ft.)   |                |           | 11 970         | 11 970    | 20 970         | 20 970    | 23 610         | 17 120    | 19 130         | 12 810    | 15 810          | 10 040    | 13 240          | 8110      |                 |           |               |           |
|  |                |           | (27,640)       | (27,640)  | (48,640)       | (48,640)  | (51,100)       | (36,800)  | (41,350)       | (27,550)  | (34,130)        | (21,590)  | (28,510)        | (17,430)  |                 |           |               |           |
| -4.5 m (-15 ft.)   | 15 260         | 15 260    | 20 150         | 20 150    | 27 960         | 25 110    | 22 560         | 17 290    | 18 430         | 12 900    | 15 210          | 10 120    | 12 440          | 8240      |                 |           |               |           |
|  | (34,670)       | (34,670)  | (46,110)       | (46,110)  | (60,590)       | (53,910)  | (48,790)       | (37,180)  | (39,780)       | (27,760)  | (32,730)        | (21,780)  | (26,420)        | (17,800)  |                 |           |               |           |
| -6.0 m (-20 ft.)   | 23 300         | 23 300    | 29 880         | 29 880    | 25 530         | 25 530    | 20 770         | 17 650    | 16 990         | 13 180    | 13 760          | 10 400    |                 |           |                 |           |               |           |
|  | (52,950)       | (52,950)  | (68,530)       | (68,530)  | (55,120)       | (55,060)  | (44,760)       | (37,990)  | (36,480)       | (28,400)  | (29,210)        | (22,460)  |                 |           |                 |           |               |           |
| -7.5 m (-25 ft.)   |                |           | 26 930         | 26 930    | 21 900         | 21 900    | 17 840         | 17 840    | 14 240         | 13 730    |                 |           |                 |           |                 |           |               |           |
|  |                |           | (57,740)       | (57,740)  | (46,870)       | (46,870)  | (38,010)       | (38,010)  | (29,900)       | (29,720)  |                 |           |                 |           |                 |           |               |           |
| With 1.9-m <sup>3</sup> (2.48 cu. yd.) bucket, 5.4-m (17 ft. 9 in.) arm, 10-m (32 ft. 10 in.) boom, and 900-mm (36 in.) double-bar grouser shoes |                |           |                |           |                |           |                |           |                |           |                 |           |                 |           |                 |           |               |           |
| 10.5 m (35 ft.)  |                |           |                |           |                |           |                |           |                |           |                 |           |                 | 8490      | 8490            |           |               |           |
|  |                |           |                |           |                |           |                |           |                |           |                 |           |                 | (18,760)  | (18,760)        |           |               |           |
| 9.0 m (30 ft.)   |                |           |                |           |                |           |                |           |                |           |                 |           |                 | 8720      | 8720            | 7740      | 7740          |           |
|  |                |           |                |           |                |           |                |           |                |           |                 |           |                 | (19,090)  | (19,090)        | (14,560)  | (14,560)      |           |
| 7.5 m (25 ft.)   |                |           |                |           |                |           |                |           |                |           | 9860            | 9860      | 9220            | 9220      | 8830            | 8130      |               |           |
|  |                |           |                |           |                |           |                |           |                |           | (21,400)        | (21,400)  | (20,090)        | (20,090)  | (19,360)        | (17,280)  |               |           |
| 6.0 m (20 ft.)   |                |           |                |           |                |           |                | 12 360    | 12 360         | 10 880    | 10 880          | 9890      | 9890            | 9240      | 7930            | 5370      | 5370          |           |
|  |                |           |                |           |                |           |                | (26,650)  | (26,650)       | (23,560)  | (23,560)        | (21,490)  | (21,490)        | (20,150)  | (16,900)        |           |               |           |
| 4.5 m (15 ft.)   |                |           |                |           |                |           | 17 400         | 17 400    | 14 090         | 14 090    | 12 030          | 12 030    | 10 670          | 9680      | 9740            | 7660      | 7390          | 6000      |
|  |                |           |                |           |                |           | (37,340)       | (37,340)  | (30,370)       | (30,370)  | (26,020)        | (26,020)  | (23,130)        | (20,760)  | (21,190)        | (16,360)  | (12,260)      | (12,260)  |
| 3.0 m (10 ft.)   |                |           |                |           |                |           | 19 980         | 19 620    | 15 790         | 14 910    | 13 190          | 11 640    | 11 470          | 9230      | 10 270          | 7360      | 8460          | 5850      |
|  |                |           |                |           |                |           | (42,950)       | (42,370)  | (34,040)       | (32,150)  | (28,510)        | (25,040)  | (24,840)        | (19,790)  | (22,310)        | (15,740)  | (14,890)      | (12,400)  |
| 1.5 m (5 ft.)  |                |           |                |           |                |           | 21 990         | 18 390    | 17 250         | 14 050    | 14 240          | 11 040    | 12 210          | 8810      | 10 780          | 7090      | 8750          | 5700      |
|  |                |           |                |           |                |           | (47,390)       | (39,660)  | (37,220)       | (30,280)  | (30,780)        | (23,740)  | (26,440)        | (18,900)  | (23,370)        | (15,150)  | (14,940)      | (12,110)  |
| Ground Line  |                |           |                |           |                |           | 23 290         | 17 590    | 18 340         | 13 410    | 15 080          | 10 560    | 12 820          | 8470      | 11 180          | 6850      | 7710          | 5580      |
|  |                |           |                |           |                |           | (22,850)       | (22,850)  | (50,280)       | (37,890)  | (39,620)        | (28,880)  | (32,610)        | (22,710)  | (27,750)        | (18,170)  | (24,220)      | (14,670)  |
| -1.5 m (-5 ft.)  |                |           |                |           | 13 380         | 13 380    | 23 890         | 17 160    | 19 000         | 13 000    | 15 640          | 10 230    | 13 230          | 8220      | 11 240          | 6700      |               |           |
|  |                |           |                |           | (31,210)       | (31,210)  | (51,670)       | (36,920)  | (41,080)       | (27,970)  | (33,810)        | (21,990)  | (28,610)        | (17,640)  | (24,150)        | (14,340)  |               |           |
| -3.0 m (-10 ft.)   |                |           | 10 770         | 10 770    | 18 570         | 18 570    | 23 900         | 17 000    | 19 200         | 12 800    | 15 850          | 10 050    | 13 350          | 8090      | 11 180          | 6640      |               |           |
|  |                |           | (15,910)       | (15,910)  | (24,720)       | (24,720)  | (42,930)       | (42,930)  | (51,710)       | (36,560)  | (41,520)        | (27,520)  | (34,250)        | (21,590)  | (28,820)        | (17,370)  | (24,060)      | (14,250)  |
| -4.5 m (-15 ft.)   | 12 310         | 12 310    | 16 580         | 16 580    | 25 350         | 24 580    | 23 330         | 17 050    | 18 910         | 12 780    | 15 630          | 10 020    | 13 060          | 8090      | 9370            | 6740      |               |           |
|  | (27,930)       | (27,930)  | (37,880)       | (37,880)  | (58,530)       | (52,790)  | (50,440)       | (36,670)  | (40,850)       | (27,480)  | (33,710)        | (21,540)  | (28,070)        | (17,400)  |                 |           |               |           |
| -6.0 m (-20 ft.)   | 18 200         | 18 200    | 23 580         | 23 580    | 27 630         | 25 000    | 22 100         | 17 300    | 18 010         | 12 940    | 14 820          | 10 150    | 12 050          | 8280      |                 |           |               |           |
|  | (41,300)       | (41,300)  | (53,950)       | (53,950)  | (59,690)       | (53,740)  | (47,680)       | (37,230)  | (38,790)       | (27,850)  | (31,810)        | (21,870)  | (25,490)        | (17,890)  |                 |           |               |           |
| -7.5 m (-25 ft.)   | 25 380         | 25 380    | 31 580         | 31 580    | 24 810         | 24 810    | 19 990         | 17 760    | 16 250         | 13 300    | 13 000          | 10 520    |                 |           |                 |           |               |           |
|  | (57,800)       | (57,800)  | (67,920)       | (67,920)  | (53,320)       | (53,320)  | (42,880)       | (38,270)  | (34,680)       | (28,710)  | (27,340)        | (22,780)  |                 |           |                 |           |               |           |
| -9.0 m (-30 ft.)   |                |           | 25 770         | 25 770    | 20 520         | 20 520    | 16 470         | 16 470    | 12 800         | 12 800    |                 |           |                 |           |                 |           |               |           |
|  |                |           | (54,680)       | (54,680)  | (43,480)       | (43,480)  | (34,640)       | (34,640)  | (26,220)       | (26,220)  |                 |           |                 |           |                 |           |               |           |

### Lift Charts

**Boldface type** indicates hydraulically limited capacity; **lightface type** indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; 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. All lift capacities are based on ISO 10567 (with power boost).

| Load Point Height   | 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.) |           | 12.0 m (40 ft.) |           | 13.5 m (45 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 | Over Front      | Over Side |  |
| With 2-m <sup>3</sup> (2.63 cu. yd.) bucket, 4-4-m (14 ft. 5 in.) arm, 10-m (32 ft. 10 in.) boom, and 1020-mm (40 in.) double-bar grouser shoes |                |           |                |           |                |           |                |           |                |           |                 |           |                 |           |                 |           |  |
| 10.5 m (35 ft.)   |                |           |                |           |                |           |                |           |                |           |                 |           |                 | 7660      | 7660            |           |  |
| 9.0 m (30 ft.)  |                |           |                |           |                |           |                |           |                |           |                 |           | (21,430)        | (21,430)  |                 |           |  |
|   |                |           |                |           |                |           |                |           |                |           |                 |           | 10 150          | 10 150    | 9760            | 9760      |  |
|   |                |           |                |           |                |           |                |           |                |           |                 |           | (22,130)        | (22,130)  | (21,450)        | (21,450)  |  |
| 7.5 m (25 ft.)  |                |           |                |           |                |           |                |           |                |           |                 |           | 10 900          | 10 900    | 10 130          | 10 130    |  |
|   |                |           |                |           |                |           |                |           |                |           |                 |           | (23,660)        | (23,660)  | (22,110)        | (21,730)  |  |
| 6.0 m (20 ft.)  |                |           |                |           |                |           | 16 520         | 16 520    | 13 630         | 13 630    | 11 860          | 11 860    | 10 720          | 9840      | 10 030          | 7670      |  |
|   |                |           |                |           |                |           | (35,420)       | (35,420)  | (29,380)       | (29,380)  | (25,670)        | (25,670)  | (23,320)        | (21,080)  | (20,810)        | (16,290)  |  |
| 4.5 m (15 ft.)  |                |           |                |           |                |           | 19 240         | 19 240    | 15 300         | 15 300    | 12 930          | 11 960    | 11 410          | 9440      | 10 420          | 7470      |  |
|   |                |           |                |           |                |           | (41,260)       | (41,260)  | (32,950)       | (32,950)  | (27,960)        | (25,730)  | (24,750)        | (20,240)  | (22,710)        | (15,920)  |  |
| 3.0 m (10 ft.)  |                |           |                |           |                |           | 21 600         | 18 930    | 16 860         | 14 490    | 13 990          | 11 360    | 12 110          | 9040      | 10 850          | 7240      |  |
|   |                |           |                |           |                |           | (46,410)       | (40,900)  | (36,330)       | (31,250)  | (30,220)        | (24,450)  | (26,240)        | (19,400)  | (23,590)        | (15,470)  |  |
| 1.5 m (5 ft.)   |                |           |                |           |                |           | 23 190         | 18 020    | 18 100         | 13 790    | 14 890          | 10 860    | 12 730          | 8690      | 11 230          | 7020      |  |
|   |                |           |                |           |                |           | (49,970)       | (38,850)  | (39,060)       | (29,710)  | (32,180)        | (23,360)  | (27,570)        | (18,660)  | (24,350)        | (15,020)  |  |
| Ground Line   |                |           |                |           |                |           | 23 960         | 17 520    | 18 920         | 13 310    | 15 550          | 10 490    | 13 190          | 8430      | 11 440          | 6850      |  |
|   |                |           |                |           |                |           | (51,760)       | (37,720)  | (40,870)       | (28,660)  | (33,600)        | (22,540)  | (28,550)        | (18,080)  | (24,580)        | (14,690)  |  |
| -1.5 m (-5 ft.)   |                |           |                |           | 13 350         | 13 350    | 24 070         | 17 320    | 19 270         | 13 050    | 15 880          | 10 260    | 13 400          | 8260      | 11 370          | 6780      |  |
|   |                |           |                |           | (31,420)       | (31,420)  | (52,080)       | (37,240)  | (41,660)       | (28,070)  | (34,320)        | (22,050)  | (28,960)        | (17,740)  |                 |           |  |
| -3.0 m (-10 ft.)  |                |           | 11 970         | 11 970    | 20 970         | 20 970    | 23 610         | 17 320    | 19 130         | 12 970    | 15 810          | 10 170    | 13 240          | 8220      |                 |           |  |
|   |                |           | (27,640)       | (27,640)  | (48,640)       | (48,640)  | (51,100)       | (37,230)  | (41,350)       | (27,900)  | (34,130)        | (21,870)  | (28,510)        | (17,680)  |                 |           |  |
| -4.5 m (-15 ft.)  | 15 260         | 15 260    | 20 150         | 20 150    | 27 960         | 25 380    | 22 560         | 17 490    | 18 430         | 13 060    | 15 210          | 10 250    | 12 440          | 8350      |                 |           |  |
|   | (34,670)       | (34,670)  | (46,110)       | (46,110)  | (60,590)       | (54,510)  | (48,790)       | (37,620)  | (39,780)       | (28,110)  | (32,730)        | (22,060)  | (26,420)        | (18,050)  |                 |           |  |
| -6.0 m (-20 ft.)  | 23 300         | 23 300    | 29 880         | 29 880    | 25 530         | 25 530    | 20 770         | 17 850    | 16 990         | 13 340    | 13 760          | 10 530    |                 |           |                 |           |  |
|   | (52,950)       | (52,950)  | (68,530)       | (68,530)  | (55,120)       | (55,120)  | (44,760)       | (38,420)  | (36,480)       | (28,750)  | (29,210)        | (22,750)  |                 |           |                 |           |  |
| -7.5 m (-25 ft.)  |                |           | 26 930         | 26 930    | 21 900         | 21 900    | 17 840         | 17 840    | 14 240         | 13 890    |                 |           |                 |           |                 |           |  |
|   |                |           | (57,740)       | (57,740)  | (46,870)       | (46,870)  | (38,010)       | (38,010)  | (29,900)       | (29,900)  |                 |           |                 |           |                 |           |  |

### Buckets

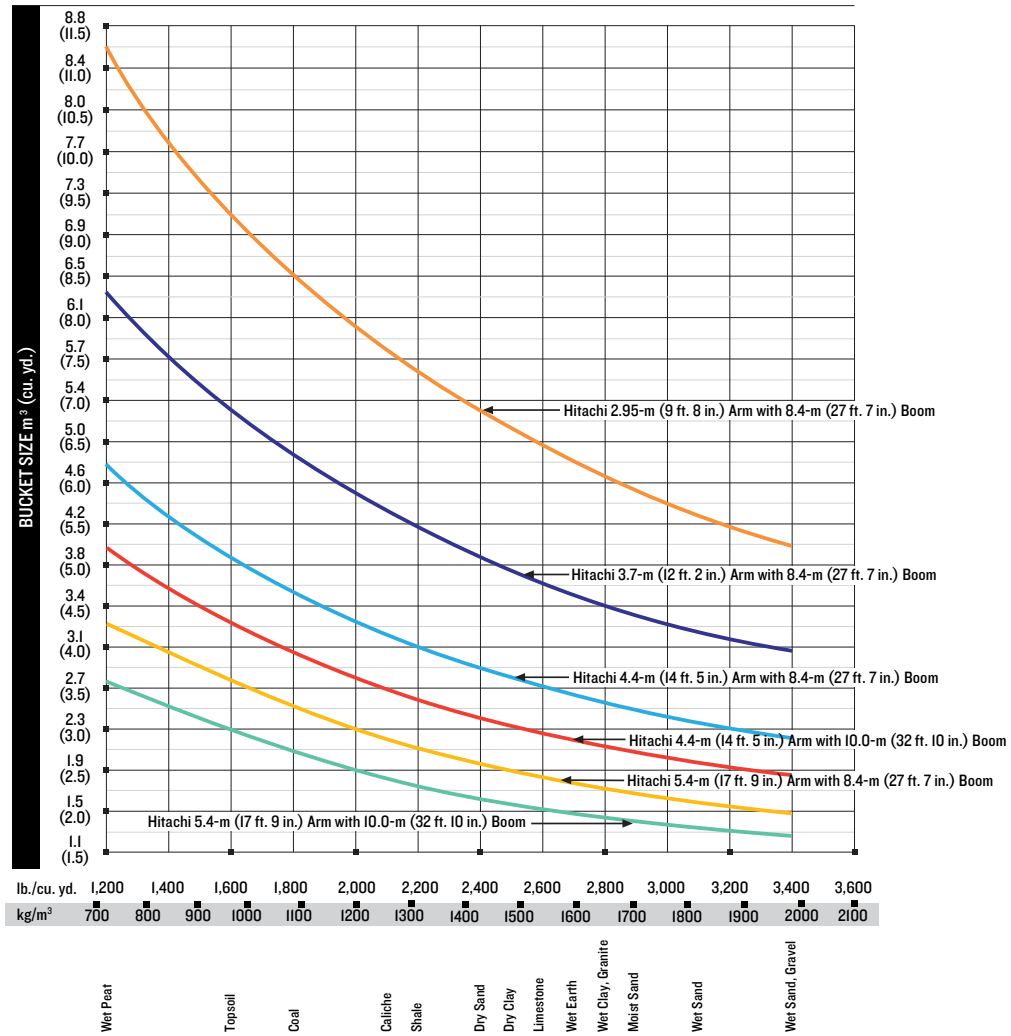
A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with ESCO teeth standard. Replaceable cutting edges and a variety of teeth are available through Hitachi parts. Optional side cutters add 150 mm (6 in.) to bucket widths.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

| Type Bucket              | Bucket Width |      | Bucket Capacity |         | Bucket Weight |       | Bucket Dig Force |        | Arm Dig Force 4.4 m (14 ft. 5 in.) |        | Arm Dig Force 5.4 m (17 ft. 9 in.) |        | ME Arm Dig Force 2.95 m (9 ft. 8 in.) |        | Bucket Tip Radius |       | Number of Teeth |   |
|--------------------------|--------------|------|-----------------|---------|---------------|-------|------------------|--------|------------------------------------|--------|------------------------------------|--------|---------------------------------------|--------|-------------------|-------|-----------------|---|
|                          | mm           | in.  | m <sup>3</sup>  | cu. yd. | kg            | lb.   | kN               | lb.    | kN                                 | lb.    | kN                                 | lb.    | kN                                    | lb.    | mm                | in.   |                 |   |
| Heavy-Duty High Capacity | 914          | 36   | 2.09            | 2.7     | 2767          | 6,100 | 360              | 80,973 | 264                                | 59,251 | 230                                | 51,673 | 361                                   | 81,247 | 2426              | 95.53 | 3               |   |
|                          | 1067         | 42   | 2.55            | 3.3     | 2972          | 6,552 | 360              | 80,973 | 264                                | 59,251 | 230                                | 51,673 | 361                                   | 81,247 | 2426              | 95.53 | 4               |   |
|                          | 1219         | 48   | 3.02            | 3.9     | 3177          | 7,004 | 360              | 80,973 | 264                                | 59,251 | 230                                | 51,673 | 361                                   | 81,247 | 2426              | 95.53 | 4               |   |
|                          | 1372         | 54   | 3.49            | 4.6     | 3558          | 7,844 | 360              | 80,973 | 264                                | 59,251 | 230                                | 51,673 | 361                                   | 81,247 | 2426              | 95.53 | 5               |   |
|                          | 1524         | 60   | 3.98            | 5.2     | 3572          | 7,875 | 360              | 80,973 | 264                                | 59,251 | 230                                | 51,673 | 361                                   | 81,247 | 2426              | 95.53 | 5               |   |
|                          | 1829         | 72   | 4.96            | 6.5     | 3786          | 8,346 | 360              | 80,973 | 264                                | 59,251 | 230                                | 51,673 | 361                                   | 81,247 | 2426              | 95.53 | 6               |   |
| Heavy Capacity Dirt      | 2032         | 80   | 5.63            | 7.4     | 4519          | 9,963 | 360              | 80,973 | 264                                | 59,251 | 230                                | 51,673 | 361                                   | 81,247 | 2426              | 95.53 | 6               |   |
|                          | 2286         | 90   | 5.81            | 7.6     | 4296          | 9,471 | 341              | 76,746 | 268                                | 60,338 | 275                                | 61,782 | 370                                   | 83,150 | 2303              | 90.66 | 7               |   |
|                          | Heavy-Duty   | 914  | 36              | 1.51    | 2.0           | 2510  | 5,534            | 372    | 83,647                             | 276    | 62,098                             | 300    | 67,336                                | 384    | 86,270            | 2113  | 83.19           | 3 |
|                          |              | 1067 | 42              | 1.86    | 2.4           | 2761  | 6,087            | 372    | 83,647                             | 276    | 62,098                             | 300    | 67,336                                | 384    | 86,270            | 2113  | 83.19           | 4 |
|                          |              | 1219 | 48              | 2.22    | 2.9           | 2935  | 6,471            | 372    | 83,647                             | 276    | 62,098                             | 300    | 67,336                                | 384    | 86,270            | 2113  | 83.19           | 4 |
|                          |              | 1372 | 54              | 2.58    | 3.4           | 3091  | 6,814            | 372    | 83,647                             | 276    | 62,098                             | 300    | 67,336                                | 384    | 86,270            | 2113  | 83.19           | 5 |
| Truck Loading            | 1524         | 60   | 2.95            | 3.9     | 3232          | 7,125 | 372              | 83,647 | 276                                | 62,098 | 300                                | 67,336 | 384                                   | 86,270 | 2113              | 83.19 | 5               |   |
|                          | 2134         | 84   | 4.21            | 5.5     | 3285          | 7,242 | 363              | 81,638 | 274                                | 61,607 | 238                                | 53,456 | 380                                   | 85,393 | 2165              | 85.22 | 6               |   |
|                          | 2337         | 92   | 4.63            | 6.0     | 3598          | 7,932 | 363              | 81,638 | 274                                | 61,607 | 238                                | 53,456 | 380                                   | 85,393 | 2165              | 85.22 | 8               |   |

# ZX870LC-6

Bucket Selection Guide\*

ZX670LC-6



\*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.

# SPECS

## ADDITIONAL EQUIPMENT

Key: ● Standard ▲ Optional or special kit

### 670 870 Engine

- ● Auto-idle system
- ● Batteries (2 – 12 volt), 280-min. reserve capacity
- ● Coolant expansion 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
- ● Glow-plug start aid
- ● 500-hour engine-oil-change interval
- ● 70% (35 deg.) off-level capability
- ● Hydraulic fan reverser

### 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
- ● 4,000-hour hydraulic-oil-change interval
- ▲ ▲ 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
- ● Upper carrier rollers (3)
- ● Sealed and lubricated track chain
- ▲ ▲ Double-bar grouser shoes, 650 mm (26 in.)
- ▲ ▲ Double-bar grouser shoes, 750 mm (30 in.)
- ▲ ▲ Double-bar grouser shoes, 900 mm (36 in.)
- ▲ ▲ Double-bar grouser shoes, 1020 mm (40 in.)

### 670 870 Upperstructure

- ● Right-hand and 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, 7.8 m (25 ft. 7 in.)
- ▲ ▲ Boom, mass excavating, 6.8 m (22 ft. 4 in.)
- ▲ ▲ Arm, mass excavating, 2.9 m (9 ft. 6 in.)
- ▲ ▲ Arm, 3.6 m (11 ft. 10 in.)
- ▲ ▲ Arm, 4.2 m (13 ft. 9 in.)
- ▲ ▲ Arm, 5.3 m (17 ft. 5 in.)
- ▲ ▲ Boom, 8.4 m (27 ft. 7 in.)
- ▲ ▲ Boom, 10 m (32 ft. 10 in.)
- ▲ ▲ Boom, mass excavating, 7.1 m (23 ft. 4 in.)
- ▲ ▲ Arm, mass excavating, 2.95 m (9 ft. 8 in.)
- ▲ ▲ Arm, 3.7 m (12 ft. 1 in.)
- ▲ ▲ Arm, 4.4 m (14 ft. 5 in.)
- ▲ ▲ Arm, 5.4 m (17 ft. 9 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

### 670 870 Operator's Station (continued)

- ● Hydraulic warm-up control
- ● Interior light
- ● Large cup holders (2)
- ● Machine Information Center (MIC)
- ● Mode selectors (illuminated): Power modes (3) / Travel modes (2) / Work modes (2)
- ● 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
- ● Fluid-level switch and indicator light for engine coolant and engine oil
- ● 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
- ● Seat belt, 51 mm (2 in.), retractable
- ● Tinted glass
- ● Transparent tinted overhead hatch
- ● Hot/cold beverage compartment
- ▲ ▲ Protection screens for cab front
- ▲ ▲ Seat belt, 76 mm (3 in.), non-retractable
- ▲ ▲ Window vandal-protection covers

### Electrical

- ● 50-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)

### ▲ ▲ Cab extension wiring harness

### 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 specified per ISO 9249. No derating is required up to 2000-m (6,560 ft.) altitude. 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 1370-mm (54 in.) buckets, full fuel tanks and 79-kg (175 lb.) operators; a ZX670LC-6 unit with 9800-kg (21,605 lb.) counterweight; counterweight removal device and 900-mm (36 in.) double-bar grouser shoes; and a ZX870LC-6 unit with 12,400-kg (27,337 lb.) counterweight; counterweight removal device and 900-mm (36 in.) double-bar grouser shoes.

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