

**ZX470LC-6** 



9

# 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 our productionclass excavators, like the ZX470LC-6, prove it.

The ZX470LC-6 is purpose-built with productivity-boosting advantages. This workhorse features a fuel-efficient EPA Final Tier 4 (FT4)/EU Stage IV Isuzu engine that meets rigid emission standards – no diesel particulate filter needed. Generous swing torque, digging force and lift capacity. Standard upperstructure handrails for added safety and accessibility. 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 ZX470LC-6 gives you...

2

# A COMPETITIVE EDGE.





# READY TO TACKLE YOUR TOUGHEST JOBS.

# **PRODUCTIVITY ON A HIGHER LEVEL.**

The ZX470LC-6 takes 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.

The ZX470LC-6 provides efficient power with three work modes 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 ZX470LC-6, you get...

# MORE DONE, MORE EFFICIENTLY.

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.

# MORE COMFORT MEANS MORE PRODUCTIVITY.

## **COMFORTABLE AND SAFE CAB.**

It's true – a more comfortable operator is more productive and efficient. And the ZX470LC-6 cab keeps operators focused on the job. Siliconefilled cab mounts provide isolation from noise and vibration. A refined, multifunction LCD monitor employs a rotary control for easy access to a wealth of performance and convenience functions and features. Operators will also appreciate the wide entryway, fully adjustable highback sculpted seat, lots of storage 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 shortthrow pilot levers provide smooth, precise control with less effort.



Get unobstructed all-around visibility thanks to a new hood design paired with 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.



■ The ZX470LC-6 is standard equipped with five years of ZXLink<sup>™</sup> 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.

# **ZX470LC-6**



Step positioning on the track frame and walkway on the upperstructure allow for easy access around the machine while maintaining appropriate points of contact. Auto-idle, 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 ZX470LC-5 (Interim Tier 4/EU Stage IIIB) consumption.

# SIMPLIFIED MAINTENANCE. More uptime.

## LOWER OPERATING COSTS.

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

EASY TO MAINTAIN.



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 timeconsuming.



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

The boom, arm and mainframe are so tough, they're warranted for three years or 10,000 hours, whichever comes first. Add it all up, and the ZX470LC-6 gives you...

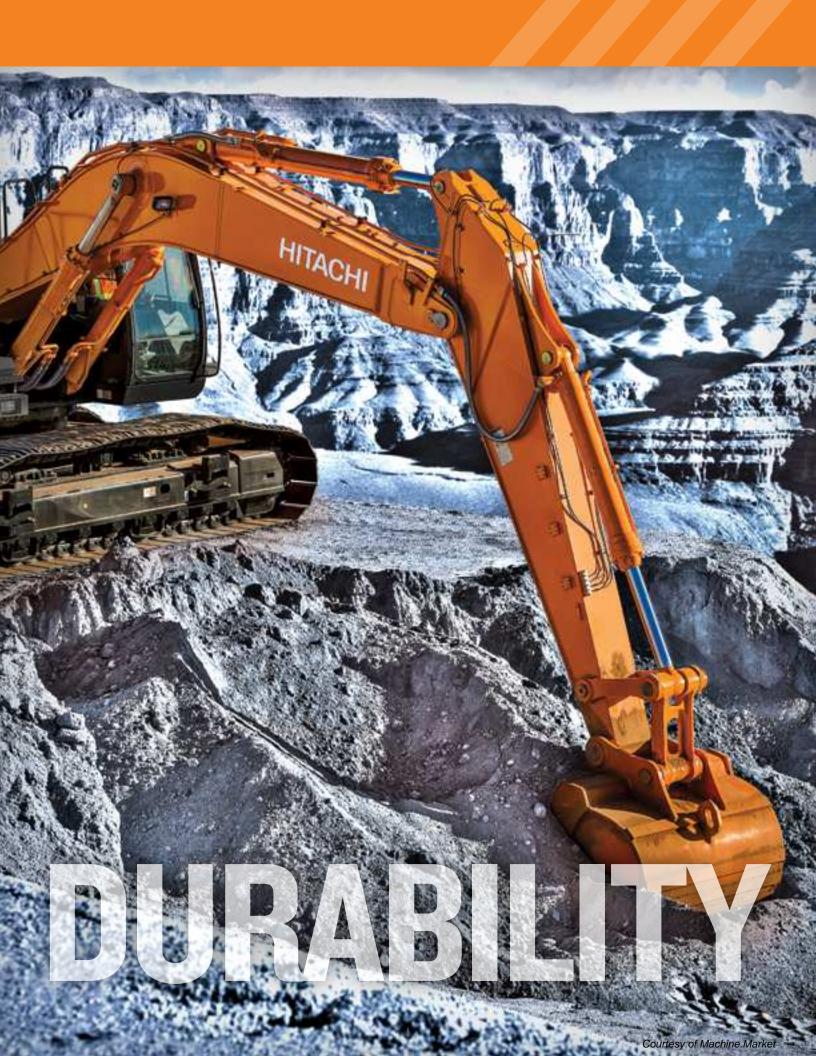
DEPENDABLE DURABILITY.

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.



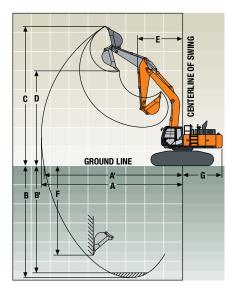


End m     CAVIAGE       Manufacturer and Model     Luce Victoria       Manufacturer and Model     Luce Victoria       PA Final Tire / LU Stage IV     Image And Company       Non-Road Emission Standards     EPA Final Tire / LU Stage IV       Non-Road Emission Standards     6       Displacement     8.4 L(600 cu. in.)       Chindre Capacity     70% (56 deg.)       Apprintion     Turbe/Langed, sint-in-archarge-sint cooler       Cooler - demand, Hydraulic driven, suction-type far with remote-mounted drive     Image: Sint Cooler And Sint Cooler       Power Tain     Sint Cooler And Sint Cooler     Image: Sint Cooler And Sint Cooler       Cooler And Sint Cooler And Sint Cooler And Sint Cooler     Image: Sint Cooler And Sint Cooler       Power Tain     Sint Cooler And Sint Cooler And Sint Cooler     Image: Sint Cooler And Sint Cooler       Free Tain     Sint Cooler And Sint Cooler And Sint Cooler     Image: Sint Cooler And Sint Cooler       Sint Cooler And Sint Cooler     Image: Sint Cooler And		78 4701 0 0				
Non-RankalowsPFinal Par / PI Stage IVNon-Rankalows944 (900 gun)Orinore944 (940 gun) <td>Engine Manufacturer and Madel</td> <td>ZX470LC-6</td> <td></td> <td></td> <td></td>	Engine Manufacturer and Madel	ZX470LC-6				
<table-container>Net Rato Power (SB 9249)270 kW (38 249) © 2.000 rpmClinder9.44 L (600 cs in,)Displacement9.44 L (600 cs in,)Closen-demant, Jvaralle-driven, suction-ty-t-air charge-air cooler</table-container>			- IV/			
Cylinders6Diplapasement94 ( 600 cu. m)AppirationTorbeharges, air-to-air charge-air coolerAppirationTorbeharges, air-to-air charge-air coolerCool-on-demand, lydraulic-triven, suction-type Kar with remote-mounted drivePowertrainSecondemand, lydraulic-triven, suction-type Kar with remote-mounted driveCool-on-demand, lydraulic-triven, suction-type Kar with remote-mounted drivePowertrainSecondemand, lydraulic-triven, suction-type Kar with Remote-mounted driveCondemater, lod sansingSecondemater, succional succion						
Displacement9.44 (.600 cm. in.)Off-Level Gapacity70% (35 dsg.)Appiration70% (35 dsg.)Colon-dendand, lydradio-driven, sucton-tye trait-search arge-air coolerPowertand.Speed projent WattoShiftSpeed projent WattoShiftSpeed projent WattoShiftSpeed projent WattoShiftLor3 b Sn/h (2.4 mph)Lor3 b Sn/h (2.4 mph)Lor3 b Sn/h (3.4 mph)Derwbar Pull35 Str (3.0 397 lb,)Derwbar Pull35 Str (3.0 397 lb,)Derwbar PullStr (3.0 397 lb,)Speed projent WattoShiftStr (3.0 397 lb,)Derwbar PullStr (3.0 397 lb,)Speed projent WattoShiftStr (3.0 397 lb,)Main DungsStr (3.0 297 lb,)Main Marke Flow1900 L/m (106 gpm) x 2Speed projent WattoShiftStr (3.0 20 Rb, (3.120 lb,)Travel31 900 Pa (4.627 ps)Inprivat31 900 Pa (4.627 ps)Travel33 00 Rb, (3.120 lb,)Speed projent WattoShiftStr (3.0 20 Rb, (3.120 lb,)Speed projent WattoShiftStr (3.0 20 Rb, (3.120 lb,)Speed projent WattoShiftStr (3.0 20 Rb, (3.120 lb,)Travel33 00 Rb, (3.120 lb,)Speed projent WattoShiftStr (3.0 20 Rb, (3.120 lb,)Speed projent WattoShiftStr (3.0 20 Rb, (3.120 lb,)Travel1900 Rb, (3.100 lb, (3.0 10, (3.0	. ,	• • • •	Jrpm			
Off-legn ApirationVix (36 deg.)ApirationTwookarged, air-to-air a (arage-air color and a)ApirationTwookarged, air-to-air a (arage-air color and a)Color-to-atmand, hydraule-tolven, sector-to-to-sector and arage-air color and a)Twookarged, air to-air a (araged, araged, arag						
AppriationTurbooharged, air-to-air charge-air coolerCooler-demad, hydraulic-driven, suction-type fan with remote-mounted drivePower ran->	•					
Conien-demand, hydraulic driven, suction-type fan with remote-mounted drive       Cool-on-demand, hydraulic driven, suction-type fan with remote-mounted drive       Cool-on-demand, hydraulic driven, suction-type fan with remote-mounted drive       Careborn and the substrim       Careborn and the substrim       Maximum Travel Speed       Low     3.9 km/h (2.4 mph)       Drawbar Pull     33 537 kg (73,937 lb.)       Hydraulist     Demander of the substrime subst						
<table-container>Caol-and hydraulic-drive, suction-type is with remote-mounted drive<td c<="" td=""><td>Aspiration</td><td>Turbocharged, air-to-air c</td><td>harge-air cooler</td><td></td><td></td></td></table-container>	<td>Aspiration</td> <td>Turbocharged, air-to-air c</td> <td>harge-air cooler</td> <td></td> <td></td>	Aspiration	Turbocharged, air-to-air c	harge-air cooler		
2-speed propi with AutoShift2-speed propi with AutoShiftbarware Speediow3.9 km/h (2.4 mph)barware Speed Number Speed Num	Cooling					
<table-container>Present propertiesMaximum Travel SpeedLow3.9 km/h (2.4 mph)High5.5 km/h (3.4 mph)Drawbar PuloStarking (3.9 arg h)Trave PuloStarking Mande FlowVariable-displacement pumpsMaximum Rated FlowVariable-displacement pumpsVariable-displacement pumpsVariable displacement pumpsVariable</table-container>	Cool-on-demand, hydraulic-driven, suction-ty	pe fan with remote-mounted dri	ve			
<table-container>Maximum Tavel SpecifyIww35 km/h (3.4 mph)Drawer Pall35 STk (73.937 h).Drawer Pall35 STk (73.937 h).Operator Inde Sensing</table-container>	Powertrain					
Low     3.9 km/h (2.4 mph)       Hg/raulice     5.5 km/h (3.4 mph)       Drawbar Pull     39 357 kg (73.937 lb.)       Main Dumps     2 variable-displacement pumps       Main Pumps     2 variable-displacement pumps       System Operating Brossure     System Operating Brossure       System Operating Brossure     System Operating Brossure       Circuits     19 900 kPa (4,627 ps)       Travel     35 300 kPa (5,120 ps)       Systing Operating Brossure     System Operating System Oper	2-speed propel with AutoShift					
High55 km/h (3.4 mph)Drawba Pull33 S37 kg (7.3, 937 kg / 3.4 sg / 3.	Maximum Travel Speed					
Drawbar Pull     38 357 kg (73,937 lb.)       Hydrauics     Hydrauics       Open centre, load sensing     401 L/m (106 gpm) x 2       Maximum Rated Flow     400 L/m (106 gpm) x 2       System Operating Pressure	Low	3.9 km/h (2.4 mph)				
Hydraulics2 variable-displacement pumpsMain Pumps2 variable-displacement pumpsMaximum Rated Flow40 L /m (106 gpm) x 2System Operating PressureCircuitsCircuits53 300 kPa (4,527 psi)Tarval35 300 kPa (5,120 psi)Power Boost35 300 kPa (5,120 psi)Power Boost35 300 kPa (5,120 psi)ControlsPolet levers, short-stroke, low-offort hydraulic pilot controls with shut-off leverPower Boost35 300 kPa (5,120 psi)ControlsPolot levers, short-stroke, low-offort hydraulic pilot controls with shut-off leverPower Boost35 300 kPa (5,120 psi)ControlsPolot levers, short-stroke, low-offort hydraulic pilot controls with shut-off leverPower Boost35 300 kPa (5,120 psi)ControlsPolot meters, short-stroke, low-offort hydraulic pilot controls with shut-off leverPower BoostBoreRod DiameterStrokePower BoostBore (2)170 mm (6,7 in.)100 mm (75 in.)130 mm (5,1 in.)Power (1)170 mm (6,7 in.)Battery CapacitySou CCAAtternator Rating100 appWork Lights5 halogen (1 moutted on frame. J = united on boom, and 2 mounted on T6.4 in.)HoterstrigtShalogen (1 moutted on frame. J = united on boom, and 2 mounted on t6.2 in.)HoterstrigtShalogen (1 moutted on frame. J = united on boom, and 2 mounted on t6.2 in.)ControlsShalogen (1 moutted on frame. J = united on boom, and 2 mounted on t6.2 in.)RoterstrigtShalogen (1 moutte	High	5.5 km/h (3.4 mph)				
Hydraulics2 variable-displacement pumpsMain Pumps2 variable-displacement pumpsMaximum Rated Flow40 L /m (106 gpm) x 2System Operating PressureCircuitsCircuits53 300 kPa (4,527 psi)Tarval35 300 kPa (5,120 psi)Power Boost35 300 kPa (5,120 psi)Power Boost35 300 kPa (5,120 psi)ControlsPolet levers, short-stroke, low-offort hydraulic pilot controls with shut-off leverPower Boost35 300 kPa (5,120 psi)ControlsPolot levers, short-stroke, low-offort hydraulic pilot controls with shut-off leverPower Boost35 300 kPa (5,120 psi)ControlsPolot levers, short-stroke, low-offort hydraulic pilot controls with shut-off leverPower Boost35 300 kPa (5,120 psi)ControlsPolot meters, short-stroke, low-offort hydraulic pilot controls with shut-off leverPower BoostBoreRod DiameterStrokePower BoostBore (2)170 mm (6,7 in.)100 mm (75 in.)130 mm (5,1 in.)Power (1)170 mm (6,7 in.)Battery CapacitySou CCAAtternator Rating100 appWork Lights5 halogen (1 moutted on frame. J = united on boom, and 2 mounted on T6.4 in.)HoterstrigtShalogen (1 moutted on frame. J = united on boom, and 2 mounted on t6.2 in.)HoterstrigtShalogen (1 moutted on frame. J = united on boom, and 2 mounted on t6.2 in.)ControlsShalogen (1 moutted on frame. J = united on boom, and 2 mounted on t6.2 in.)RoterstrigtShalogen (1 moutte	Drawbar Pull	33 537 kg (73,937 lb.)				
Main Pungs2 variable-displacement pungsMaxium Rated Flow20 U/m (106 gpm) x 2Nature Rated Flow20 U/m (106 gpm) x 2System Querting PressureUCircuitsUInplement3900 kPa (5,120 ps)Travel35 300 kPa (5,120 ps)Powe Boost28 400 kPa (5,120 ps)Powe Boost35 300 kPa (5,120 ps)Controls90 let Jevers, short-stroke, low-effort Jevalic pilot controls with shut of FlowControls90 let Jevers, short-stroke, low-effort Jevalic pilot controls with shut of FlowRest Teated, chrome-plated, polished cylinder O's, hardened steel (replaceable busings) pivot pinsHeat Teated, chrome-plated, polished cylinder O's, include and the flow1500 nm (62.6 in.)Bom (2)170 ma (6.7 in.)150 ma (4.5 in.)1590 nm (62.6 in.)Bom (2)100 ma (6.7 in.)130 mm (4.5 in.)1590 nm (62.6 in.)Barter Of Batteries (12 volt)20 Controls1500 nm (62.6 in.)Batter Of Statteries (12 volt)20 Controls150 nm (4.5 in.)1590 nm (62.6 in.)Batter Of Statteries (12 volt)20 Controls150 nm (4.5 in.)1500 nm (62.6 in.)Batter Of Statteries (12 volt)20 Controls150 nm (4.5 in.)1500 nm (62.6 in.)Batter Of Statteries (12 volt)20 Controls150 nm (4.5 in.)1500 nm (62.6 in.)Batter Of Statteries (12 volt)20 Controls150 nm (4.5 in.)1500 nm (62.6 in.)Controls20 Controls20 Controls20 Controls20 ControlsBatter Of Statteries (12 volt)20 Controls <t< td=""><td>Hydraulics</td><td></td><td></td><td></td><td></td></t<>	Hydraulics					
Main Pungs2 variable-displacement pungsMaxium Rated Flow20 U/m (106 gpm) x 2Nature Rated Flow20 U/m (106 gpm) x 2System Querting PressureUCircuitsUInplement3900 kPa (5,120 ps)Travel35 300 kPa (5,120 ps)Powe Boost28 400 kPa (5,120 ps)Powe Boost35 300 kPa (5,120 ps)Controls90 let Jevers, short-stroke, low-effort Jevalic pilot controls with shut of FlowControls90 let Jevers, short-stroke, low-effort Jevalic pilot controls with shut of FlowRest Teated, chrome-plated, polished cylinder O's, hardened steel (replaceable busings) pivot pinsHeat Teated, chrome-plated, polished cylinder O's, include and the flow1500 nm (62.6 in.)Bom (2)170 ma (6.7 in.)150 ma (4.5 in.)1590 nm (62.6 in.)Bom (2)100 ma (6.7 in.)130 mm (4.5 in.)1590 nm (62.6 in.)Barter Of Batteries (12 volt)20 Controls1500 nm (62.6 in.)Batter Of Statteries (12 volt)20 Controls150 nm (4.5 in.)1590 nm (62.6 in.)Batter Of Statteries (12 volt)20 Controls150 nm (4.5 in.)1500 nm (62.6 in.)Batter Of Statteries (12 volt)20 Controls150 nm (4.5 in.)1500 nm (62.6 in.)Batter Of Statteries (12 volt)20 Controls150 nm (4.5 in.)1500 nm (62.6 in.)Batter Of Statteries (12 volt)20 Controls150 nm (4.5 in.)1500 nm (62.6 in.)Controls20 Controls20 Controls20 Controls20 ControlsBatter Of Statteries (12 volt)20 Controls <t< td=""><td>Open center, load sensing</td><td></td><td></td><td></td><td></td></t<>	Open center, load sensing					
Maximum Rated Flow400 L/m (106 gpm) x 2System Operating PresureCircuitsImplement31 900 kPa (4,627 psi)Travel35 300 kPa (5,120 psi)Swing28 400 kPa (4,19 psi)Power Boost35 300 kPa (5,120 psi)OttodsPolit levers, short-stroke, low-effort lydraulic pilot controls with shutoff leverControls28 400 kPa (4,19 psi)Power Boost35 300 kPa (5,120 psi)ControlsPolit levers, short-stroke, low-effort lydraulic pilot controls with shutoff leverControlsPolit levers, short-stroke, low-effort lydraulic pilot controls with shutoff leverRead DiameterStrokeBoom (20 (17 0m (6.7 in.)16 0m (4.5 in.)BrokRod DiameterStrokeStrokeBorn (10 (10 (17 0m (6.7 in.)130 nm (5.1 in.)Buckt (1)170 nm (6.7 in.)170 nm (6.7 in.)120 nm (4.7 in.)Buckt (1)20 cm (4.7 in.)StrokeStrokeBattery Capacity500 CCAAlternator Rating100 cmVork Lights5 halogen (I nounted on frame, 2 mounted on toop of cab)UndecarriageStrokeRollers (each side)3Track9Shoes, Triple Semi-Grouser (each side)5Striple Semi-Grouser (each side)5Track9AljosthertHydraulicGuidesFront and centerChainSeed and lubricated		2 variable-displacement p	umps			
System Operating Pressure       Circuits       Implement     31 900 kPa (4,627 psi)       Travel     35 300 kPa (5,120 psi)       Swing     28 400 kPa (4,119 psi)       Power Boost     35 300 kPa (5,120 psi)       Controls     Poid vers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Poid vers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Poid vers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Poid vers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Poid vers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Poid vers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Poid vers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Versex, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Versex, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Versex, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Bower (2)     I70 mm (6.7 in.)     I10 mm (5.1 in.)     I590 mm (52.6 in.)       Atrot (1)	-					
Bore     Stoke       Concurs     Stoke       Travel     35 300 kPa (5,120 psi)       Swing     28 400 kPa (4,119 psi)       Power Boost     35 300 kPa (5,120 psi)       Controls     Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Controls     Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Verkity     Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever       Information Rating     Pilot levers, short encore       Control     Sioo CCA       Alternator Rating <td></td> <td></td> <td></td> <td></td> <td></td>						
Implement31 900 kPa (4,627 ps)Travel35 300 kPa (5,120 ps)Power Boost28 400 kPa (4,118 ps)Power Boost35 300 kPa (5,120 ps)Controls9101 levers, short-stroke, low-effort Juraulic pilot controls with shutfleverCytient9101 levers, short-stroke, low-effort Juraulic pilot controls with shutfleverCytient9100 m (2,6 in)Born800 m (2,6 in)Born100 m (7,5 in)100 mm (4,5 in)1900 m (6,2 in)Bouct170 m (6,7 in)130 m (4,5 in)1940 m (764 in)Bucket (1)00 m (7,5 in)130 m (4,5 in)130 m (5,2 in)Bortestate000 m (7,5 in)130 m (4,5 in)130 m (5,2 in)Buttery Capacity00 CCAIst mutered and the strest (12 value)000 angButtery Capacity000 capIst mutered and the strest (12 value)130 m (3,1 in)130 m (5,2 in)Carrier300 cCAIst mutered and the strest (12 value)300 m (2,6 in)130 m (5,2 in)Interstrestate100 angIst mutered and the strest (12 value)130 m (5,2 in)130 m (5,2 in)Carrier300 cCAIst mutered and the strest (12 value)300 m (2,6 in)300 m (2,6 in)Interstrestate100 angIst mutered and the strest (12 value)130 m (5,2 in)300 m (5,2 in)Carrier300 cCAIst mutered and the strest (12 value)Ist mutered and the strest (12 value)130 m (5,2 in)Interstrestate100 angIst mutered and the strest (12 value)Ist mutered and the strest (12 value)Interstre						
Travel   35 300 kPa (5,120 psi)     Swing   28 400 kPa (4,119 psi)     Power Boost   35 300 kPa (5,120 psi)     Controls   Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever     Cylinders   Filot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever     Cylinders   Bore   Rod Diameter   Stroke     Boom (2)   170 mm (6.7 in.)   115 mm (4.5 in.)   1590 mm (62.6 in.)     Arm (1)   190 mm (7.5 in.)   130 mm (5.1 in.)   1940 mm (76.4 in.)     Bucket (1)   170 mm (6.7 in.)   120 mm (4.7 in.)   1325 mm (52.2 in.)     Electrical   Vome of Batteries (12 volt)   2   Stroke     Mumber of Batteries (12 volt)   2   Stogen (100 amp   Vork Lights     Vork Lights   100 amp   Vork Lights   Stogen (5.2 in.)     Undercartage   Stogen (100 unted on frame, 2 mounted on boom, and 2 mounted on to for ab.)   Vork Lights     Carrier   3   3   Stogen (100 unted on frame, 2 mounted on boom, and 2 mounted on frame, 2 mounted on boom, and 2 mounted on frame, 2 mounted on boom, and 2 mounted on frame, 2 mounted on boom, and 2 mounted on frame, 2 mounted on boom, and 2 mounted on frame, 2 mounted on boom, and 2 mounted on frame, 2 mounted on frame, 2 mounted on frame, 2 mounted		31 900 kPa (4.627 nsi)				
Świng28 400 kPa (4,119 ps)Power Boost35 300 kPa (5,120 ps)Controls9 liot levers, short-stroke, low-effort hydralic pilot controls with shuts-structured structured	•					
Power Boost35 300 kPa (5,120 psi)ControlsPilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff leverCylinetFilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff leverCylinetStrokeCylinetBooeRed DiameterStrokeBoreRed DiameterStrokeBooe (2)170 m (6.7 in.)115 m (4.5 in.)1590 mm (62.6 in.)Arm (1)190 mm (75.1 in.)130 mm (5.1 in.)1940 mm (76.4 in.)Bucket (1)100 mm (6.7 in.)120 mm (4.7 in.)1325 mm (52.2 in.)ElectricaUUUVumber of Batteries (12 volt)2StoreStoreBattery Capacity500 CCAUUVumber of Batteries (12 volt)5 halogen (1 mounted on frame, 2 munted on boom, and 2 mounted on top of castUVork Light5 halogen (1 mounted on frame, 2 munted on boom, and 2 mounted on top of castURoles3StoreStoreStoreRolesStoreStoreStoreStoreRolesStoreStoreStoreStoreRolesStoreStoreStoreStoreRolesStoreStoreStoreStoreRolesStoreStoreStoreStoreRolesStoreStoreStoreStoreRolesStoreStoreStoreStoreRolesStoreStoreStoreStoreRolesStoreStoreStoreRoles						
Controls   Pilot lavers, short-stroke, low-effort hydraulic pilot controls with shutoff lever     Cylinders     Heat treated, chrome-plated, polished cylinder rots, hardened steel (replaceable bus/ings) pivot pins     Bore   Rod Diameter   Stroke     Boom (2)   I70 mm (6.7 in.)   I15 mm (4.5 in.)   I590 mm (76.4 in.)     Bucket (1)   I70 mm (6.7 in.)   I20 mm (4.7 in.)   I325 mm (52.2 in.)     Electrical   Under of Batteris (12 volt)   2     Battery Capacity   500 CCA   Under of batteries (12 volt)   2     Number of Batteris (12 volt)   2   Under of batteries (12 volt)   2     Battery Capacity   500 CCA   Under of batteries (12 volt)   2     Number of Batteries (12 volt)   2   Under of batteries (12 volt)   2     Battery Capacity   500 CCA   Under of batteries (12 volt)   2     Vork Lights   5 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on top of cab)   Under of cab)     Under carriage   3   Under of cab)   Under of cab)   Under of cab)     Shoes, Triple Semi-Grousers (each side)   5   3   Under of cab)   Under of cab)     Shoes, Triple Semi-Grousers (each side)<	5					
Work in a constraint of a c			low-effort hydraulic pilot controls wi	th shutoff lever		
BoreBore (2)Arm (-)Bucket (1)Bucket (1)Butter (2)Butter (2)Number of Batteries (12 volt)Butter (2)Number of Batteries (12 volt)Number of Batteries (12 volt)Vork LightsNumber of Batteries (12 volt)Vork LightsVork LightsCarrierTrackNumber of CalspaceI reductI reduct <td></td> <td></td> <td>low chort hydraulic phot controls wi</td> <td></td> <td></td>			low chort hydraulic phot controls wi			
Bore     Rod Diameter     Stroke       Boom (2)     170 mm (6.7 in.)     115 mm (4.5 in.)     1590 mm (62.6 in.)       Arm (1)     190 mm (7.5 in.)     130 mm (5.1 in.)     1940 mm (76.4 in.)       Bucket (1)     170 mm (6.7 in.)     120 mm (4.7 in.)     1940 mm (76.4 in.)       Bucket (1)     170 mm (6.7 in.)     120 mm (4.7 in.)     1325 mm (52.2 in.)       Electrical          Number of Batteries (12 volt)     2         Battery Capacity     500 CCA         Alternator Rating     100 amp         Work Lights     5 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on top of cab)        Undercarriage          Carrier     3         Track     9         Shoes, Triple Semi-Grouvers (each side)     53        Track     Hydraulic         Guides     Front and center         Algustment     Hydraulic   <		r rods, hardened steel (replaces	hle hushings) nivet nins			
Boom (2)I70 mm (6.7 in.)I15 mm (4.5 in.)I590 mm (62.6 in.)Arm (1)I90 mm (7.5 in.)I30 mm (5.1 in.)I940 mm (7.6.4 in.)Bucket (1)I70 mm (6.7 in.)I20 mm (4.7 in.)I325 mm (52.2 in.)ElectricalIIIINumber of Batteries (12 volt)2IINumber of Batteries (12 volt)2IINumber of Batteries (12 volt)00 CAIIVork Lights00 ampIIVork Lights5 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on trop of cab)IVork Lights6 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on trop of cab)IVork Lights6 halogen (1 mounted on frame, 2 mounted on trop of cab)IVork Lights9IIIRoters frank9IIITrack9IIIMustement Goussen Geach side)3III additional Gaussen Geach side)9III additional Gaussen Gaussen Geach side)9III additional Gaussen Gauss	near rearca, chrome platea, poilsilea cymuc		• / · ·	Straka		
Arm (1)     190 mm (7.5 in.)     130 mm (5.1 in.)     1940 mm (76.4 in.)       Bucket (1)     170 mm (6.7 in.)     120 mm (4.7 in.)     1325 mm (52.2 in.)       Electrical     Image: Constraint of Batteries (12 volt)     2     Image: Constraint of Batteries (12 volt)     2       Battery Capacity     500 CCA     Image: Constraint of Batteries (12 volt)     2     Image: Constraint of Batteries (12 volt)     2       Muther of Batteries (12 volt)     2     Image: Constraint of Batteries (12 volt)     2     Image: Constraint of Batteries (12 volt)     2       Battery Capacity     500 CCA     Image: Constraint of Batteries (12 volt)     2     Image: Constraint of Consteneeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee	Poom (2)					
Bucket (1) 170 mm (6.7 in.) 120 mm (4.7 in.) 1325 mm (52.2 in.)   Electrical   Number of Batteries (12 volt) 2   Battery Capacity 500 CCA   Alternator Rating 100 amp   Work Lights 5 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on top of cab)   Undercarriage Image: Carrier   Rollers (each side) 3   Track 9   Shoes, Triple Semi-Grousers (each side) 53   Tack Hydraulic   Adjustment Hydraulic   Guides Front and center   Chain Sealed and lubricated		· · ·	· /			
Electrical Number of Batteries (l2 volt) 2   Battery Capacity 500 CCA   Alternator Rating I00 amp   Work Lights 5 halogen (I mounted on frame, 2 mounted on top of cab)   Undercarriage   Rollers (each side)   Carrier 3   Track 9   Shoes, Triple Semi-Grousers (each side) 53   Track 4djustment   Adjustment Hydraulic   Guides Front and center   Chain Sealed and lubricated	.,	· ,	, ,	. ,		
Number of Batteries (12 volt)2Battery Capacity500 CCAAlternator Rating100 ampWork Lights5 halogen (1 mounted on frame, 2 mounted on top of cab)UntercarriageVork LightsFollers (each side)Carrier3Track9Shoes, Triple Semi-Grousers (each side)53TrackAdjustmentHydraulicAdjustmentFront and centerChainSealed and lubricated		170 MM (8.7 M.)	120 11111 (4.7 111.)	1323 11111 (32.2 11.)		
Battery Capacity 500 CCA   Alternator Rating 100 amp   Work Lights 5 halogen (1 mounted on frame, 2 mounted on top of cab)   Undercarriage Image: Capacity   Rollers (each side) 3   Track 9   Shoes, Triple Semi-Grousers (each side) 53   Track Image: Capacity   Adjustment Hydraulic   Guides Front and center   Chain Sealed and lubricated		2				
Alternator Rating IOO amp   Work Lights 5 halogen (I mounted on frame, 2 mounted on top of cab)   Undercarriage Image: Cach side)   Rollers (each side) 3   Track 9   Shoes, Triple Semi-Grousers (each side) 53   Track Image: Cach side)   Adjustment Hydraulic   Guides Front and center   Chain Sealed and lubricated	~ /					
Work Lights 5 halogen (1 mounted on frame, 2 mounted on boom, and 2 mounted on top of cab)   Undercarriage   Rollers (each side)   Carrier 3   Track 9   Shoes, Triple Semi-Grousers (each side) 53   Track 4djustment   Adjustment Hydraulic   Guides Front and center   Chain Sealed and lubricated						
Undercarriage   Rollers (each side)   Carrier 3   Track 9   Shoes, Triple Semi-Grousers (each side) 53   Track Hydraulic   Guides Front and center   Chain Sealed and lubricated	-	•				
Rollers (ach side)     Carrier   3     Track   9     Shoes, Triple Semi-Grousers (each side)   53     Track   4/justment     Adjustment   Hydraulic     Guides   Front and center     Chain   Sealed and lubricated	-	5 halogen (I mounted on f	rame, 2 mounted on boom, and 2 mo	inted on top of cab)		
Carrier 3   Track 9   Shoes, Triple Semi-Grousers (each side) 53   Track Hydraulic   Guides Front and center   Chain Sealed and lubricated	-					
Track 9   Shoes, Triple Semi-Grousers (each side) 53   Track Track   Adjustment Hydraulic   Guides Front and center   Chain Sealed and lubricated						
Shoes, Triple Semi-Grousers (each side) 53   Track Hydraulic   Adjustment Hydraulic   Guides Front and center   Chain Sealed and lubricated						
Track   Adjustment Hydraulic   Guides Front and center   Chain Sealed and lubricated						
AdjustmentHydraulicGuidesFront and centerChainSealed and lubricated	Shoes, Triple Semi-Grousers (each side)	53				
Guides Front and center   Chain Sealed and lubricated	Track					
Chain Sealed and lubricated	Adjustment	Hydraulic				
	Guides	Front and center				
Planetary Final Drives with Axial Piston Motors	Chain	Sealed and lubricated				
	Planetary Final Drives with Axial Piston Motors	S				

#### **Ground Pressure** ZX470LC-6 750-mm (30 in.) Triple Semi-Grouser Shoes 72.1 kPa (10.5 psi) 900-mm (36 in.) Triple Semi-Grouser Shoes 60.1 kPa (8.7 psi) **Swing Mechanism** Swing Speed 9.5 rpm 148 000 Nm (109,159 lb.-ft.) Swing Torque **Serviceability Refill Capacities** Fuel Tank 675 L (178 gal.) Diesel Exhaust Fluid (DEF) Tank 95 L (25.I gal.) 62.3 L (16.5 gal.) **Cooling System** Engine Oil with Filter 41 L (11 gal.) Hydraulic Tank 310 L (82 gal.) Hydraulic System 510 L (135 gal.) Gearbox Swing (each) 6.5 L (6.9 qt.) Travel (each) II L (II.6 qt.) **Operating Weights** With full fuel tank; 79-kg (175 lb.) operator; 2.34-m<sup>3</sup> (3.06 cu. yd.), 1370-mm (54 in.), 2031-kg (4,478 lb.) bucket; 3.9-m (12 ft. 10 in.) arm; 8400-kg (18,519 lb.) counterweight with removal device; and 900-mm (36 in.) triple semi-grouser shoes 50 260 kg (II0,804 lb.) **SAE Operating Weight Optional Components** Undercarriage w/ Triple Semi-Grouser Shoes 750 mm (30 in.) 18 298 kg (40,340 lb.) 900 mm (36 in.) 18 978 kg (41,839 lb.) One-Piece Boom (w/ arm cylinder) 4499 kg (9,919 lb.) 7-m (23 ft.) Μ

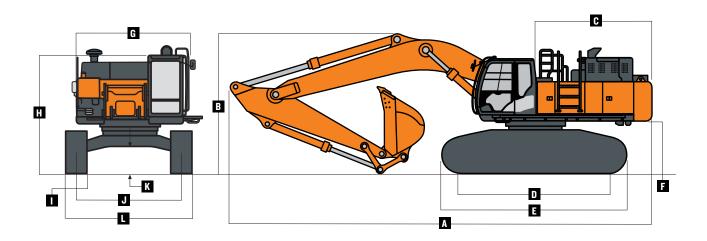
Mass Excavating Boom		
6.3-m (20 ft. 7 in.)	4544 kg (10,018 lb.)	
Arm with Bucket Cylinder and Linkage		
2.9 m (9 ft. 6 in.)	2534 kg (5,587 lb.)	
3.4 m (II ft. 2 in.)	2539 kg (5,598 lb.)	
3.9 m (12 ft. 10 in.)	2640 kg (5,820 lb.)	
4.9 m (16 ft. 1 in.)	2320 kg (5,115 lb.)	
Boom-Lift Cylinders (2), Total Weight	840 kg (1,853 lb.)	

Operating Dimensions	ZX470LC-6				
Arm Length	2.9 m (9 ft. 6 in.)	2.9 m (9 ft. 6 in.) w/ 6.3-m (20 ft. 7 in.) Mass-Excavating Boom	3.4 m (11 ft. 2 in.)	3.9 m (12 ft. 10 in.)	4.9 m (16 ft. 1 in.)
Arm Digging Force					
SAE	252 kN (56,652 lb.)	249 kN (55,977 lb.)	215 kN (48,334 lb.)	196 kN (44,063 lb.)	175 kN (39,342 lb.)
ISO	259 kN (58,226 lb.)	256 kN (57,551 lb.)	222 kN (49,908 lb.)	201 kN (45,187 lb.)	177 kN (39,791 lb.)
Bucket Digging Force					
SAE	254 kN (57,101 lb.)	257 kN (57,776 lb.)	256 kN (57,551 lb.)	256 kN (57,551 lb.)	213 kN (47,884 lb.)
ISO	285 kN (64,071 lb.)	285 kN (64,071 lb.)	286 kN (64,295 lb.)	286 kN (64,295 lb.)	238 kN (53,505 lb.)
A Maximum Reach	II.40 m (37 ft. 5 in.)	10.86 m (35 ft. 8 in.)	12.06 m (39 ft. 7 in.)	12.49 m (41 ft.)	13.34 m (43 ft. 9 in.)
A <sup>I</sup> Maximum Reach at Ground Level	11.17 m (36 ft. 8 in.)	10.61 m (34 ft. 10 in.)	11.84 m (38 ft. 10 in.)	12.28 m (40 ft. 3 in.)	13.14 m (43 ft. 1 in.)
B Maximum Digging Depth	7.28 m (23 ft. II in.)	6.23 m (20 ft. 5 in.)	7.77 m (25 ft. 6 in.)	8.27 m (27 ft. 2 in.)	9.11 m (29 ft. 11 in.)
B <sup>I</sup> Maximum Digging Depth at					
2.44-m (8 ft.) Flat Bottom	7.08 m (23 ft. 3 in.)	6.08 m (19 ft. 11 in.)	7.63 m (25 ft.)	8.14 m (26 ft. 8 in.)	9.0 m (29 ft. 6 in.)
C Maximum Cutting Height	10.25 m (33 ft. 8 in.)	10.88 m (35 ft. 8 in.)	11.06 m (36 ft. 3 in.)	II.I6 m (36 ft. 7 in.)	II.73 m (38 ft. 6 in.)
D Maximum Dumping Height	7.03 m (23 ft. 1 in.)	7.33 m (24 ft. I in.)	7.65 m (25 ft. l in.)	7.77 m (25 ft. 6 in.)	8.67 m (28 ft. 5 in.)
E Minimum Swing Radius	5.02 m (16 ft. 6 in.)	3.93 m (12 ft. 11 in.)	4.84 m (15 ft. 11 in.)	4.81 m (15 ft. 9 in.)	4.85 m (15 ft. 11 in.)
F Maximum Vertical Wall	5.27 m (17 ft. 3 in.)	5.02 m (16 ft. 6 in.)	6.59 m (21 ft. 7 in.)	6.98 m (22 ft. II in.)	8.42 m (27 ft. 7 in.)
G Tail Swing Radius	3.67 m (12 ft.)	3.67 m (12 ft.)	3.67 m (12 ft.)	3.67 m (12 ft.)	3.67 m (12 ft.)



# **ZX4/0LC-6**

Ma	chine Dimensions	ZX470LC-6
A	Overall Length w/ Arm	
	2.9 m (9 ft. 6 in.)	I2.IO m (39 ft. 8 in.)
	3.4 m (II ft. 2 in.)	I2.0I m (39 ft. 5 in.)
	3.9 m (12 ft. 10 in.)	I2.0I m (39 ft. 5 in.)
	4.9 m (16 ft. 1 in.)	I2.0 m (39 ft. 4 in.)
	2.9 m (9 ft. 6 in.) with 6.3-m (20 ft. 7 in.) Boom	II.32 m (37 ft. 2 in.)
В	Overall Height w/ Arm	
	2.9 m (9 ft. 6 in.)	3.60 m (II ft. 10 in.)
	3.4 m (II ft. 2 in.)	3.48 m (II ft. 5 in.)
	3.9 m (12 ft. 10 in.)	3.50 m (II ft. 6 in.)
	4.9 m (16 ft. I in.)	4.55 m (l4 ft. II in.)
	2.9 m (9 ft. 6 in.) with 6.3-m (20 ft. 7 in.) Boom	3.74 m (l2 ft. 3 in.)
C	Rear-End Length/Swing Radius	3.67 m (I2 ft.)
D	Distance Between Idler/Sprocket Centerline	4.47 m (l4 ft. 8 in.)
E	Undercarriage Length	5.47 m (I7 ft. II in.)
F	Counterweight Clearance	I.36 m (4 ft. 6 in.)
G	Upperstructure Width	3.48 m (II ft. 5 in.)
Н	Cab Height	3.33 m (10 ft. 11 in.)
1	Track Width w/ Triple Semi-Grouser Shoes	750 mm (30 in.) / 900 mm (36 in.)
J	Gauge Width	
	Operating Position	2.89 m (9 ft. 6 in.)
	Transport Position	2.39 m (7 ft. 10 in.)
K	Ground Clearance	0.74 m (29 in.)
L	Overall Width w/ Triple Semi-Grouser Shoes	
	750 mm (30 in.)	
	Operating Position	3.64 m (II ft. II in.)
	Transport Position	3.14 m (10 ft. 4 in.)
	900 mm (36 in.)	
	Operating Position	3.79 m (12 ft. 5 in.)
	Transport Position	3.29 m (10 ft. 10 in.)



Lift Charts	ZX470LC-	6												
Boldface type indicates hydra	ulically limited cap	acity; lightface	e type indicates	stability-limite	d capacities, in l	kg (lb.). All lift c	apacities are ba	ased on ISO 105	567 (with power	boost). Machi	ne equipped wit	h standard gau	ge; and situated	i on firm,
uniform supporting surface. T	otal load includes	weight of cable	es, hook, etc. Fi	gures do not ex	ceed 87 percen	t of hydraulic ca	apacities or 75 p	percent of weig	ht needed to tip	machine.				
Load Point Height	1.5 m	(5 ft.)	3.0 m	(10 ft.)	4.5 m	(15 ft.)	6.0 m	(20 ft.)	7.5 m (	(25 ft.)	9.0 m	(30 ft.)	10.5 m	(35 ft.)
Horizontal Distance from														
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	<b>Over Front</b>	Over Side	<b>Over Front</b>	Over Side	<b>Over Front</b>	Over Side	<b>Over Front</b>	Over Side	Over Front	Over Sid
With 3.9-m (12 ft. 10 in.) arn	n, 7.0-m (23 ft.) k	000m, 1.9-m³ (	2.5 cu. yd.) bu	cket and 750-	mm (30 in.) tri	ple semi-grous	er shoes							
7.5 m (25 ft.)											6350	6350		
6.0 m (20 ft.)									10 300	10 300	9530	7440		
									(22,410)	(22,370)	(19,670)	(15,900)		
4.5 m (I5 ft.)							13 640	13 640	II 4I0	9960	10 080	7220		
							(29,430)	(29,430)	(24,740)	(21,430)	(21,940)	(15,490)		
3.0 m (10 ft.)					22 520	21 220	15 940	13 520	12 670	9460	10 750	6940	6160	5200
					(48,350)	(45,760)	(34,390)	(29,130)	(27,430)	(20,360)	(23,350)	(14,900)		
1.5 m (5 ft.)					18 450	18 450	17 800	12 720	13 780	9000	11 350	6680	6690	5080
					(44,110)	(42,600)	(38,470)	(27,400)	(29,820)	(19,360)	(24,380)	(14,340)		
Ground Line					18 470	18 470	18 780	12 210	14 460	8660	11 120	6470		
					(42,920)	(41,210)	(40,650)	(26,280)	(31,300)	(18,630)	(23,910)	(13,900)		
-1.5 m (-5 ft.)			11 930	11 930	23 290	19 040	18 770	II 980	14 520	8480	11 010	6370		
			(26,990)	(26,990)	(53,590)	(40,870)	(40,650)	(25,770)	(31,410)	(18,230)	(23,670)	(13,690)		
-3.0 m (-10 ft.)	14 070	14 070	18 590	18590	23 450	19 160	17 740	II 970	13 750	8460	10 530	6410		
	(31,520)	(31,520)	(42,050)	(42,050)	(50,810)	(41,140)	(38,340)	(25,760)	(29,620)	(18,200)				
-4.5 m (-15 ft.)			26 700	26 700	20 090	19 520	15 400	12 180	II 620	8640				
			(57,600)	(57,600)	(43,280)	(41,940)	(33,050)	(26,220)	(24,590)	(18,640)				
-6.0 m (-20 ft.)					14 470	14 470	10 680	10 680						
					(30,450)	(30,450)	(21,930)	(21,930)						

#### Lift Charts ZX470LC-6

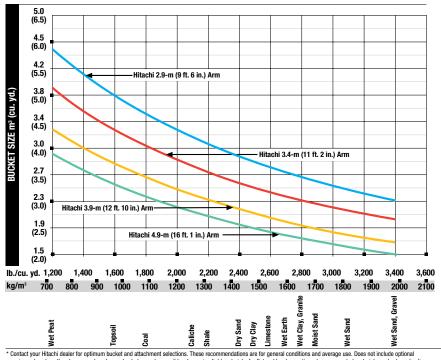
Load Point Height	1.5 m	(5 ft.)	3.0 m	(10 ft.)	4.5 m	(15 ft.)	6.0 m	(20 ft.)	7.5 m (	25 ft.)	9.0 m	(30 ft.)	10.5 m	(35 ft.)
Horizontal Distance from														
Centerline of Rotation	<b>Over Front</b>	Over Side	<b>Over Front</b>	Over Side	<b>Over Front</b>	Over Side	<b>Over Front</b>	Over Side	<b>Over Front</b>	Over Side	<b>Over Front</b>	Over Side	<b>Over Front</b>	Over Sid
With 2.9-m (9 ft. 6 in.) arm,	7.0-m (23 ft.) bo	om, 2.3-m³ (3	.0 cu. yd.) bucl	ket and 900-m	nm (36 in.) trip	le semi-grouse	er shoes							
6.0 m (20 ft.)							13 260 (28,560)	13 260 (28,560)	11 450 (24,910)	10 090 (21,660)				
4.5 m (15 ft.)					21 100 (44,910)	21 100 (44,910)	15 270 (32,750)	14 040 (30,070)	12 440 (26,860)	9720 (20,800)	10 830 (23,590)	7000 (14,970)		
3.0 m (IO ft.)							17 260 (37,080)	13 150 (28,180)	13 500 (29,090)	9280 (19,840)	II 3I0 (24,520)	6810 (14,550)		
1.5 m (5 ft.)							18 540 (39,980)	12 480 (26,790)	14 300 (30,810)	89I0 (19,010)	II 350 (24,300)	6620 (14,130)		
Ground Line					18 040 (42,030)	<b>18 040</b> (41,240)	18 810 (40,680)	12 I50 (26,070)	14 570 (31,400)	8660 (18,490)	II 210 (24,020)	6490 (13,870)		
-1.5 m (-5 ft.)			14 410 (32,620)	14 410 (32,620)	23 410 (51,050)	19 250 (41,460)	(40,000) 18 100 (39,140)	(25,910) (25,910)	14 110 (30,340)	8590 (18,340)	(1,010)	(10,010)		
-3.0 m (-10 ft.)			25 090 (54,980)	25 090 (54,980)	20 680 (44,930)	(42,090)	(60,140) 16 290 (35,050)	12 250 (26,230)	12 510 (26,600)	8710 (18,620)				
-4.5 m (-15 ft.)			(04,000)	(04,000)	(34,880)	16 300 (34,880)	12 690 (26,720)	12 670 (26,720)	(20,000)	(10,020)				
With 3.4-m (II ft. 2 in.) arm,	7.0-m (23 ft.) bo	om. 2.1-m <sup>3</sup> (2.	7 cu. vd.) buck	et and 900-m		,	,	(/						
7.5 m (25 ft.)						0			10 340 (22,650)	10 340 (22,650)				
6.0 m (20 ft.)									10 990 (23,910)	10 390 (22,330)	9760 (18,910)	7420 (15,850)		
4.5 m (15 ft.)					19 590 (41,940)	19 590 (41,940)	14 580 (31,450)	14 400 (31,040)	12 040 (26,110)	9980 (21,460)	10 580 (23,040)	7260		
3.0 m (IO ft.)					21 700	21 010 (45,320)	16 770 (36,170)	(31,040) 13 520 (29,140)	(28,610)	9510 (20,470)	(24,240) (24,240)	7010 (15,050)		
1.5 m (5 ft.)					(31,720) (32,940)	13 630 (32,940)	18 390 (39,730)	12 820 (27,620)	14 190 (30,710)	9100 (19,590)	II 510 (24,740)	6780 (14,570)		
Ground Line					16 690 (38,950)	(62,010) 16 690 (38,950)	(00,100) 19 040 (41,220)	12 410 (26,720)	14 680 (31,780)	8820 (18,980)	II 330 (24,360)	6620 (14,220)		
-1.5 m (-5 ft.)			11 830 (26,860)	11 830 (26,860)	23 690 (53,970)	19 530 (41,920)	18 680 (40,460)	(26,390)	(31,340)	8690 (18,700)	(24,250)	6560 (I4,I20)		
-3.0 m (-10 ft.)			20 250 (45,890)	20 250 (45,890)	22 440 (48,650)	(1,020) 19 730 (42,360)	17 260 (37,280)	12 330 (26,520)	(3,510) (3,350 (28,700)	8730 (18,800)	(= .,== 5)	(		
-4.5 m (-15 ft.)			23 560 (50,800)	23 560 (50,800)	(39,860)	18 530 (39,860)	14 340 (30,650)	12 600 (27,140)	10 290	9010				

uniform supporting surface. T	otal load includes	weight of cable	es, hook etc. Fig	ures do not ev	ceed 87 nercen	t of hydraulic ca	pacities or 75 r	ercent of weig	ht needed to tin	machine		•	-	l on firm,
Load Point Height	ad Point Height I.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.)	
lorizontal Distance from														
Centerline of Rotation Vith 3.9-m (12 ft. 10 in.) arm	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 Sid
7.5 m (25 ft.)	i, <i>i</i> .0-iii (23 ii. <i>)</i> i	000111, 1. <b>9-</b> 111° (A	2.0 Cu. yu./ Dul	Ket and 500-	iiiii (30 iii.) iii	pie seini-grous	el shues				6350	6350		
1.0 m (20 m.)											0000	0000		
6.0 m (20 ft.)									10 300	10 300	9530	7540		
									(22,410)	(22,410)	(19,670)	(16,130)		
4.5 m (15 ft.)							13 640	13 640	II 4I0	10 090	10 080	7330		
							(29,430)	(29,430)	(24,740)	(21,710)	(21,940)	(15,710)		
3.0 m (IO ft.)					22 520	21 480	15 940	13 690	12 670	9590	10 750	7050	6160	5290
15 (54)					(48,350)	(46,330)	(34,390) 17 800	(29,510)	(27,430) 13 780	(20,640)	(23,350) 11 360	(15,130) 6780	6690	5170
1.5 m (5 ft.)					18 450 (44,110)	<b>18 450</b> (43,160)	(38,470)	12 900 (27,780)	(29,820)	9130 (19,650)	(24,640)	6780 (14,560)	6690	5170
Ground Line					18 470	(43,180)	(38,470)	12 390	(29,820)	(19,050) 8790	(24,840)	6580		
					(42,920)	(41,770)	(40,650)	(26,660)	(31,300)	(18,910)	(24,280)	(14,130)		
-1.5 m (-5 ft.)			11 930	11 930	23 290	19 300	18 770	12 150	14 520	8610	11 180	6470		
			(26,990)	(26,990)	(53,590)	(41,430)	(40,650)	(26,140)	(31,410)	(18,510)	(24,040)	(13,910)		
-3.0 m (-10 ft.)	14 070	14 070	18 590	18 590	23 450	19 420	17 740	12 150	13 750	8590	10 530	6510		
	(31,520)	(31,520)	(42,050)	(42,050)	(50,810)	(41,700)	(38,340)	(26,130)	(29,620)	(18,480)				
-4.5 m (-15 ft.)			26 700	26 700	20 090	19 780	15 400	12 350	11 620	8770				
			(57,600)	(57,600)	(43,280)	(42,510)	(33,050)	(26,600)	(24,590)	(18,920)				
-4.5 m (-15 ft.)					14 470	14 470	10 680	10 680						
					(30,450)	(30,450)	(21,930)	(21,930)						
With 4.9-m (16 ft. l in.) arm,	7.0-m (23 ft.) be	oom, 1.4-m³ (1.1	8 cu. yd.) buck	et and 900-m	m (36 in.) tripl	e semi-grousei	r shoes							
4.5 m (I5 ft.)									10 670	10 670	9690	8140		
()									(23,180)	(23,180)				
3.0 m (10 ft.)					19 780	19780	14760	14 760	12 130	10 500	10 540	7820		
					(42,530)	(42,530)	(31,890)	(31,890)	(26,310)	(22,610)	(22,920)	(16,820)	0570	5000
1.5 m (5 ft.)					24 060	21 610	17 130	13 950	13 530	9970	11 380	7500	9570	5820
Ground Line			7330	7330	(51,890) 21 020	(46,540) 20 500	(37,040) 18 790	(30,080) 13 260	(29,330) 14 610	(21,470) 9530	(24,710) 11 960	(16,140)	9400	5660
			(16,700)	(16,700)	(48,940)	(44,090)	(40,670)	(28,560)	(31,660)	(20,530)	(25,730)	7230 (15,560)	5400	0000
-1.5 m (-5 ft.)	6910	6910	10 850	10 850	(48,940)	20 000	(40,870)	(28,560)	(31,000)	9240	(25,730) II 760	7040	9300	5570
-1.0 III (-0 II.)	(15,440)	(15,440)	(24,550)	(24,550)	(50,830)	(42,970)	(42,260)	(27,660)	(32,830)	(19,900)	(25,290)	(15,160)	3300	3370
-3.0 m (-10 ft.)	11 090	11 090	15 440	15 440	25 950	19 880	19 250	12 680	15 020	9100	11 670	6960		
	(24,840)	(24,840)	(34,920)	(34,920)	(56,210)	(42,710)	(41,670)	(27,290)	(32,470)	(19,610)	(25,120)	(15,000)		
-4.5 m (-15 ft.)	15 890	15 890	21 400	21 400	23 700	20 030	17 910	12 720	13 950	9130	10 790	7030		
	(35,710)	(35,710)	(48,560)	(48,560)	(51,190)	(43,060)	(38,620)	(27,390)	(29,990)	(19,680)	(22,850)	(15,180)		
-6.0 m (-20 ft.)		,	27 000	27 000	19 750	19 750	15 050	12 970	11 290	9360	,	,		
			(57,750)	(57,750)	(42,260)	(42,260)	(32,060)	(27,990)	(23,630)	(20,240)				
With 2.9-m (9 ft. 6 in.) ME-a	arm, 6.3-m (20 f	t. 8 in.) ME-bo	om, 2.5-m³ (3.3	3 cu. yd.) bucł	cet and 900-mi	m (36 in.) tripl	e semi-grousei	shoes						
7.5 m (25 ft.)							12 480	12 480						
							(27,350)	(27,350)						
6.0 m (20 ft.)							13 440	13 440	12 060	10 060				
							(29,190)	(29,190)	(24,660)	(21,530)				
4.5 m (15 ft.)					19 860	19 860	15 220	14 420	12 810	9820				
0.0 (10.4)					(42,650)	(42,650)	(32,910)	(31,040)	(27,860)	(21,080)				
3.0 m (IO ft.)					24 020	21 400	17 200	13 630	13 780	9460				
15m (5#)					(51,680)	(46,170)	(37,160)	(29,350)	(29,880)	(20,340)				
1.5 m (5 ft.)					26 230	20 130 (43,340)	18 660 (40,370)	12 950 (27,890)	14 550 (31,510)	9120 (19,600)				
Ground Line					(56,710) 26 140	(43,340)	(40,370) 19 120	(27,890)	(31,510)	(19,600) 8890				
Ground Line					26 140 (56,720)	19 690 (42,310)	19 120 (41,420)	(27,020)	14750 (31,910)	8890 (19,120)				
-1.5 m (-5 ft.)			22 400	22 400	24 450	(42,310)	(41,420)	(27,020)	(31,910)	8840				
1.0 m (=0 n.)			(50,640)	(50,640)	(53,060)	(42,360)	(39,720)	(26,790)	(30,010)	(19,020)				
-3.0 m (-10 ft.)			27 190	27 190	21 060	20 070	(55,720)	12 630	(00,010)	(10,020)				
0.0 m ( 10 m.)			(59.020)	(59,020)	(45,540)	(43,130)	(34,230)	(27,190)						

#### Buckets ZX470LC-6

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with ESCO teeth standard. Replaceable cutting edges and a variety of teeth are available through Hitachi parts. Optional side cutters add I50 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

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



\* Contact your Hitachi dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less compacted materials, and volume loading applications, such as mass-averadin 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.

#### 470 Engine

- Auto-idle system
- Batteries (2 I2 volt)
- Coolant recovery tank
- Dual-element dry-type air filter
- Electronic engine control
- Enclosed fan guard (conforms to SAE JI308)
- Engine coolant to -37 deg. C (-34 deg. F)
- Automatic belt-tension device
- Fuel filter with water separator
- Full-flow oil filter
- Turbocharger with charge air cooler
- Cool-on-demand hydraulic-driven fan
- 500-hour engine-oil-change interval
- 70% (35 deg.) off-level capability
- Hydraulic fan reverser

#### 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
- Auxiliary hydraulic lines
- Auxiliary pilot and electric controls
- Hydraulic-filter-restriction indicator kit
- Single-pedal propel control
- Control pattern change valve
- Undercarriage
- Planetary drive with axial piston motors
- Propel motor shields
- Spring-applied, hydraulically released automatic propel brake
- Track guides, front idler and center
- 2-speed propel with automatic shift
- Upper carrier rollers (3)

DKZX470 Litho in U.S.A. (16-06)

- Sealed and lubricated track chain
- ▲ Triple semi-grouser shoes, 750 mm (30 in.)
- ▲ Triple semi-grouser shoes, 900 mm (36 in.)

#### 470 Upperstructure

- Right-hand, left-hand mirrors
- Vandal locks with ignition key: Cab door / Fuel cap / Service doors / Toolbox
- Debris screen in side panel
- Remote-mounted engine oil and fuel filters
- Service platform, left side
- Service handrails
- Counterweight-removal system
- Front Attachments
- Centralized lubrication system
- Dirt seals on all bucket pins
- No-boom-arm option
- A Boom, 7 m (23 ft.)
- Boom, mass excavating, 6.3 m (20 ft. 7 in.)
- Arm, mass excavating, 2.9 m (9 ft. 6 in.)
- Arm, 3.4 m (11 ft. 2 in.)
- Arm, 3.9 m (12 ft. 10 in.)
- Arm, 4.9 m (16 ft. 1 in.)
- Buckets: Heavy duty / Heavy-duty high capacity / Side cutters and teeth

#### Operator's Station

- Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
- AM/FM radio
- Auto climate control / air conditioner / heater / pressurizer
- Cell-phone power outlet, 12 volt, 60 watt, 5 amp
- Coat hook
- Deluxe-suspension cloth seat with IOO-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
- Hvdraulic shutoff lever, all controls
- Hydraulic warm-up control
- Interior light
- Large cup holder

Hitachi Construction & Mining Division - Americas

1515 5th Avenue • Moline, IL 61265

Machine Information Center (MIC)

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 a unit with 1370-mm (54 in.) bucket, 900-mm (36 in.) triple somi-grouser shoes, 8400-kg (18,510 h.) counterveignt with removal device, full helt ank and 79-kg (1751b.) operator.

HITACHI

# ADDITIONAL EQUIPMENT

#### Key: • Standard A Optional or special kit

#### 470 Operator's Station (continued)

- Mode selectors (illuminated): Power modes (3) / Travel modes (2 with automatic shift) / Work mode (I)
- 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, flow-alternator-charge indicator light, low-fuel indicator light, low DEF indication with audible alarm, fault-code-alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator and work-mode indicator
- Motion alarm with cancel switch (conforms to SAE J994)
- Power-boost switch on right console lever
- Propel pedals and levers
- SAE 2-lever control pattern
- 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
  - IOO-amp alternator
- Blade-type multi-fused circuits
- Positive-terminal battery covers
- Battery disconnect switch
- ZXLink<sup>™</sup> wireless communication system (available in specific countries; see your dealer for details)
- Cab extension wiring harness
- Lights
- Work lights: Halogen / 2 mounted on boom / I mounted on frame / 2 mounted on top of cab

#### See your Hitachi dealer for further information.

hitachiconstruction.com

Courtesy of Machine.Market