ULTRASHORT-CLASS EXCAVATORS

ZAXIS

DASH-6

ZX135US-6
ZX245USLC-6

HITACHI

HitachiConstruction.com

EXCAVATOR DRIVEN.
NEVER SIDETRACKED.

EXCAVATOR EXPERTS.

Unlike other manufacturers, we don't build every kind of earthmoving equipment. Instead, we specialize in excavators. The result? Highly efficient, reliable and durable machines.

Designed with a tight tail-swing radius, the ZX135US-6 and ZX245USLC-6 are perfect for working in and around obstacles. These models feature a fuel-efficient EPA Final Tier 4 (FT4)/EU Stage IV Isuzu engine with no diesel particulate filter (DPF) needed. You also get simplified maintenance with single-side ground-level filter service and a battery disconnect switch. Standard factory-installed auxiliary hydraulics with programmable attachment modes. And all the power you've come to expect from our larger Hitachi excavators – in an easy-to-maneuver package. When you choose the ZX135US-6 and ZX245USLC-6, you get...

PERFECTLY PACKAGED PRODUCTION.

SPECIALISTS

PRODUCTIVITY

IMPRESSIVE PERFORMANCE ON ANY JOB.

WORK ANYWHERE, ANYTIME.

Work where others can't with the easy-to-maneuver ZXI35US-6 and ZX245USLC-6. Their hydraulic systems perfectly balance engine performance with hydraulic flow.

The ZX245USLC-6 features a unique three-pump hydraulic system that provides even more flow. When demanded, the third pump supplies additional hydraulic oil to the swing circuit without stealing oil and speed from other functions. This hydraulic system enables an operator to maximize productivity without sacrificing fuel economy.

Both models provide fuel-efficient performance with three work modes. Economy (ECO) maximizes fuel efficiency while delivering an enhanced level of productivity. Power (PWR) delivers a balance of power and speed, plus fuel economy for normal operation. High Productivity (H/P) delivers more power and faster hydraulic response.

Need extra stability or lift capacity? Choose from a wide variety of track widths, arm lengths, bucket sizes and teeth, high-flow auxiliary hydraulic packages and other options.

WORK ANYWHERE, ANYTIME.

- The pressurized fuel system improves fuel injector operation, and the fuel recirculation system helps prevent fuel gelling in cold climates – so you can maintain maximum productivity.
- Stay on schedule with generous swing torque, digging force and lift capacity.
- It's not always about brute force. Unmatched metering and smooth multifunction operation provide finesse and precision.
- Muscle through tough-digging by pressing the power-boost button.
- Optional rubber pad on the ZXI35US-6 helps reduce damage when working on concrete or asphalt, and when crossing streets in residential developments.
- Complete factory-installed standard auxiliary hydraulics with proportional control help improve productivity on the jobsite.

MORE COMFORT, MORE PRODUCTIVITY.

COMFORTABLE CABS.

It's true. A comfortable operator is more productive. And the ZX135US-6 and ZX245USLC-6 cabs are designed for comfort. Silicone-filled cab mounts provide isolation from noise and vibration. A refined, multifunction LCD monitor features a rotary control for easy access to performance and convenience functions and features. Operators will also appreciate the wide entryway; the fully adjustable, high-back sculpted seat; storage space and generous legroom. Unsurpassed visibility, ergonomically placed low-effort joysticks and a highly efficient HVAC system, plus other features keep operators...

COMFORTABLE GETTING MORE DONE.

■ 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.

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

■ Ergonomically correct short-throw pilot levers provide smooth, precise control with less effort. Standard sliding switch provides proportional speed control, giving you full command from your fingertips.

■ Optional cab and right-side boom lights provide extra illumination to extend your production.

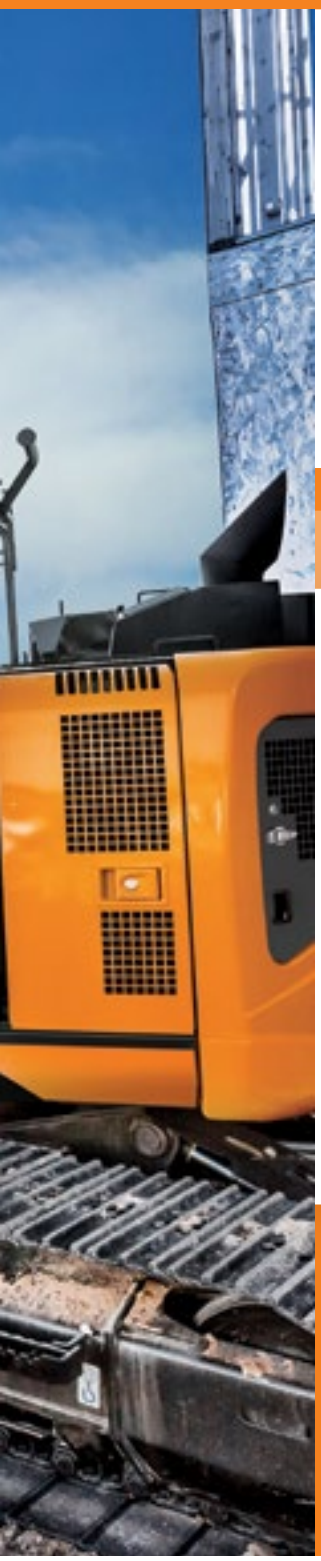
COMFORT

■ 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 sculpted mechanical suspension high-back seat for the ZXI35US-6. An air-suspension heated seat comes standard for the ZX245USLC-6.

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 diesel particulate filter (DPF).
- Oil-impregnated bushings enhance durability and extend lube intervals.
- Tungsten-carbide-coated surfaces protect the critical bucket-to-arm joint.
- Optional backfill blade for the ZX135US-6 adds stability and versatility, eliminating the need for another machine on the job.



BUILT TO TACKLE THE TOUGHEST JOBS.

RELIABLE STRENGTH.

Power through tough jobs with the ZXI35US-6 and ZX245USLC-6. They're protected by a heavy-duty undercarriage and durable D-channel side frames. Added strength comes from welded bulkheads within the boom that resist torsional stress, tungsten-carbide-coated surfaces and oil-impregnated bushings.

The boom, arm and mainframe are so tough, they're warranted for three years or 10,000 hours, whichever comes first. No matter where you're working, the ZXI35US-6 and ZX245USLC-6 give you...

DEPENDABLE DURABILITY.

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

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

■ Reinforced D-channel side frames provide maximum cab and component protection.

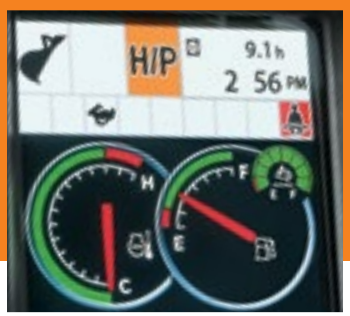
MINIMIZE MAINTENANCE. MAXIMIZE UPTIME.

SIMPLIFIED SERVICE.

Maintenance is minimized with the ZX135US-6 and ZX245USLC-6 — from grouped service points to at-a-glance gauges. No diesel particulate filter (DPF) is needed with the FT4 engine solution. Extended service intervals help maximize uptime. And scheduled maintenance is easy to track using ZXLink™ and the in-cab diagnostic monitor. These models are easy to maintain so you get...

LOWER OPERATING COSTS.

■ Easy-to-reach dipstick and see-through coolant reservoir make daily checks and/or additions quick and easy.



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

■ Engine oil, fuel and hydraulic pilot oil filters are all located on the same side at ground level for easy servicing.

■ Ground-level-accessible coolers with easily removed pre-cleaner screens help prevent trash from plugging up the cores – helping maintain cool-running efficiency.

MAINTENANCE

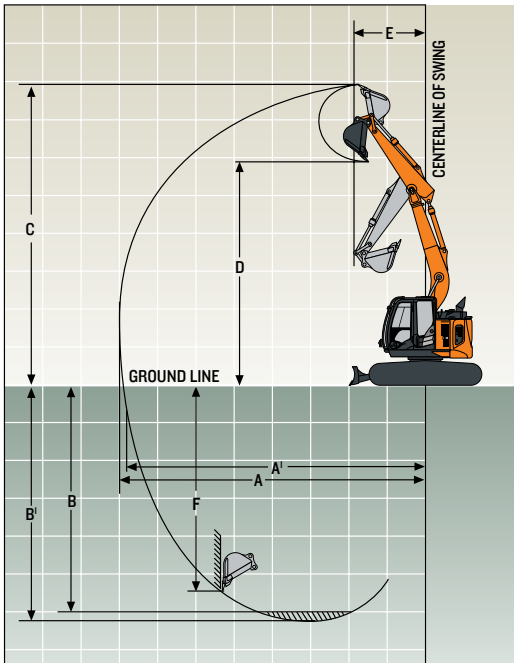
- The FT4 engine solution does not require a DPF, saving service time and lowering operating costs.
- Auto-idle, which reduces engine speed when hydraulics aren't in use, and auto-shutdown contribute to fuel efficiency.
- A battery disconnect switch, located in the rear door behind the cab, is easily accessible and extends battery life.

Engine	ZX135US-6		
Manufacturer and Model	Isuzu 4JJ1		
Non-Road Emissions Standard	EPA Final Tier 4 (FT4)/EU Stage IV		
Net Rated Power (ISO 9249)	75 kW (101 hp) at 2,000 rpm		
Cylinders	4		
Displacement	3.0 L (182 cu. in.)		
Off Level Capacity	70% (35 deg.)		
Aspiration	Turbocharged and charged air cooled		
Cooling			
Direct-drive, suction-type fan			
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed			
Low	3.4 km/h (2.1 mph)		
High	5.5 km/h (3.4 mph)		
Drawbar Pull	11 216 kg (24,727 lb.)		
Hydraulics			
Open center, load sensing			
Main Pumps	2 variable-displacement axial-piston pumps		
Maximum Rated Flow	105 L/m (28 gpm) x 2		
Pilot Pump	One gear		
Maximum Rated Flow	32.9 L/m (8.7 gpm)		
Pressure Setting	3930 kPa (570 psi)		
System Operating Pressure			
Circuits			
Implement	34 300 kPa (4,975 psi)		
Travel	34 800 kPa (5,047 psi)		
Swing	32 300 kPa (4,685 psi)		
Power Boost	36 300 kPa (5,265 psi)		
Controls	Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever		
Cylinders			
	Bore	**Rod Diameter**	**Stroke**
Boom (2)	105 mm (4.13 in.)	70 mm (2.76 in)	941 mm (37.05 in.)
Arm (1)	115 mm (4.53 in.)	80 mm (3.15 in.)	1135 mm (44.69 in.)
Bucket (1)	100 mm (3.94 in.)	70 mm (2.76 in.)	875 mm (34.45 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	300 CCA		
Alternator Rating	50 amp		
Work Lights	2 halogen (one mounted on boom, one on frame)		
Undercarriage			
Rollers (each side)			
Carrier Rollers	1		
Track Rollers	7		
Shoes, Triple Semi-Grousers (each side)	44		
Track			
Adjustment	Hydraulic		
Guides	Front idler		
Chain	Sealed and lubricated		
Ground Pressure			
	Without Blade	With Blade	
Rubber Crawler Pads, 500 mm (20 in.)	43 kPa (6.24 psi)	46 kPa (6.67 psi)	
Triple Semi-Grouser Shoes			
600 mm (24 in.)	37 kPa (5.37 psi)	39 kPa (5.66 psi)	
700 mm (28 in.)	32 kPa (4.64 psi)	34 kPa (4.93 psi)	

ZX135US-6

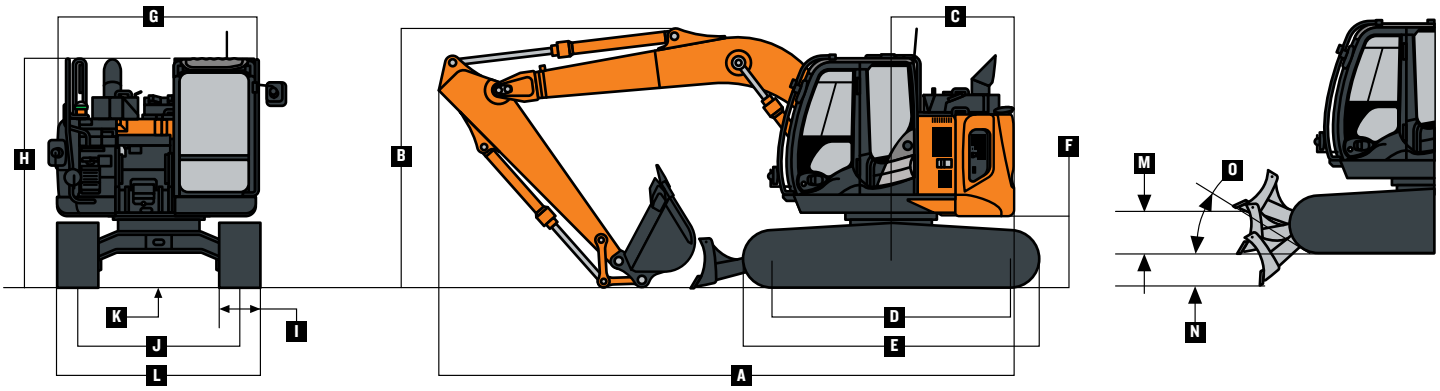
Swing Mechanism	ZX135US-6	
Swing Speed	13.3 rpm	
Swing Torque	34 000 Nm (25,000 lb.-ft.)	
Serviceability		
Refill Capacities		
Fuel Tank	220 L (58 gal.)	
Diesel Exhaust Fluid (DEF) Tank	12 L (12.7 qt.)	
Cooling System	21 L (22.2 qt.)	
Engine Oil with Filter	17 L (18 qt.)	
Hydraulic Tank	60 L (15.9 gal.)	
Hydraulic System	155 L (40.9 gal.)	
Gearbox		
Swing	3.2 L (3.4 qt.)	
Propel (each)	4 L (4.2 qt.)	
Operating Weights		
With full fuel tank; 79-kg (175 lb.) operator; 914-mm (36 in.), 0.62-m^3 (0.81-cu. yd.), 448 kg (987-lb.) heavy-duty bucket; 3.01-m (9 ft. 11 in.) arm; and 3650-kg (8,047 lb.) counterweight		
	Without Blade	**With Blade**
Rubber Crawler Pad, 500 mm (20 in.)	13 900 kg (30,620 lb.)	14 900 kg (32,820 lb.)
Triple Semi-Grouser Shoes		
600 mm (24 in.)	14 100 kg (31,060 lb.)	15 100 kg (33,260 lb.)
700 mm (28 in.)	14 300 kg (31,500 lb.)	15 400 kg (33,920 lb.)
Component Weights		
Undercarriage		
Rubber Crawler Pad, 500 mm (20 in.)	4210 kg (9,270 lb.)	5247 kg (11,560 lb.)
Triple Semi-Grouser Shoes		
600 mm (24 in.)	4436 kg (9,770 lb.)	5473 kg (12,060 lb.)
700 mm (28 in.)	4628 kg (10,190 lb.)	5701 kg (12,560 lb.)
One-Piece Boom (with arm cylinder)	995 kg (2,190 lb.)	
Arm with Bucket Cylinder and Linkage		
2.52 m (8 ft. 3 in.)	594 kg (1,310 lb.)	
3.01 m (9 ft. 11 in.)	663 kg (1,460 lb.)	
Boom-Lift Cylinders (2), Total Weight	232 kg (511 lb.)	

Operating Dimensions	ZX135US-6	
Arm Length	**2.52 m (8 ft. 3 in.)**	**3.01 m (9 ft. 11 in.)**
Arm Digging Force		
SAE	67 kN (15,060 lb.)	60 kN (13,490 lb.)
ISO	69 kN (15,510 lb.)	61 kN (13,710 lb.)
Bucket Digging Force		
SAE	91 kN (20,460 lb.)	91 kN (20,460 lb.)
ISO	104 kN (23,380 lb.)	104 kN (23,380 lb.)
A Maximum Reach	8.39 m (27 ft. 6 in.)	8.86 m (29 ft. 1 in.)
A' Maximum Reach at Ground Level	8.24 m (27 ft.)	8.72 m (28 ft. 7 in.)
B Maximum Digging Depth	5.49 m (18 ft.)	5.98 m (19 ft. 7 in.)
B' Maximum Digging Depth at 2.44-m (8 ft.) Flat Bottom	5.27 m (17 ft. 3 in.)	5.79 m (19 ft.)
C Maximum Cutting Height	9.29 m (30 ft. 6 in.)	9.69 m (31 ft. 9 in.)
D Maximum Dumping Height	6.83 m (22 ft. 5 in.)	7.22 m (23 ft. 8 in.)
E Minimum Swing Radius	2.11 m (6 ft. 11 in.)	2.45 m (8 ft.)
F Maximum Vertical Wall	4.73 m (15 ft. 6 in.)	5.19 m (17 ft.)



ZX135US-6

Machine Dimensions	ZX135US-6
A Overall Length with Arm	
2.52 m (8 ft. 3 in.)	7.37 m (24 ft. 2 in.)
3.01 m (9 ft. 11 in.)	7.39 m (24 ft. 3 in.)
B Overall Height with Arm	
2.52 m (8 ft. 3 in.)	2.79 m (9 ft. 2 in.)
3.01 m (9 ft. 11 in.)	2.78 m (9 ft. 1 in.)
C Rear-End Length/Swing Radius	1.49 m (4 ft. 11 in.)
D Distance Between Idler/Sprocket Centerline	2.88 m (9 ft. 5 in.)
E Undercarriage Length	3.58 m (11 ft. 9 in.)
F Counterweight Clearance	840 mm (33 in.)
G Upperstructure Width	2.48 m (8 ft. 2 in.)
H Cab Height	2.87 m (9 ft. 5 in.)
I Track Width with Triple Semi-Grouser Shoes	600 mm (24 in.) / 700 mm (28 in.)
J Gauge Width	1.99 m (6 ft. 6 in.)
K Ground Clearance	410 mm (16 in.)
L Overall Width	
Rubber Crawler Pad, 500 mm (20 in.)	2.49 m (8 ft. 2 in.)
Triple Semi-Grouser Shoes	
600 mm (24 in.)	2.59 m (8 ft. 6 in.)
700 mm (28 in.)	2.69 m (8 ft. 10 in.)
M Blade Lift Height	460 mm (18 in.)
N Blade Cut Below Grade	540 mm (21 in.)
O Blade Lift Angle	28.5 deg.
Blade	
Length	2.51 m (8 ft. 3 in.)
Height	460 mm (18 in.)
Width	
Rubber Crawler Pad, 500 mm (20 in.)	2490 mm (8 ft. 2 in.)
Triple Semi-Grouser Shoes	
600 mm (24 in.)	2490 mm (8 ft. 2 in.)
700 mm (28 in.)	2690 mm (8 ft. 10 in.)



Lift Charts ZX135US-6

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). Machine equipped with 414-kg (913 lb.) bucket and standard counterweight; and situated on firm, level, 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.)	
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
With 2.52-m (8 ft. 3 in.) arm and 600-mm (24 in.) triple semi-grouser shoes, blade on ground										
6.0 m (20 ft.)					**3310 (7,340)**	**3310 (7,340)**				
4.5 m (15 ft.)			**3570 (7,830)**	**3570 (7,830)**	**3560 (7,750)**	**3490 (7,500)**	3180 **(6,490)**	2090 **(4,480)**		
3.0 m (10 ft.)			**6260 (13,390)**	**6260 (13,390)**	**4370 (9,470)**	**3290 (7,090)**	3620 (7,890)	2020 (4,350)		
1.5 m (5 ft.)			**6430 (15,850)**	**5730 (12,330)**	5330 (11,520)	3060 (6,580)	4000 (8,670)	1930 (4,140)		
Ground Line			**5770 (13,410)**	**5450 (11,710)**	5870 (12,720)	2890 (6,220)	4220 (9,130)	1850 (3,970)		
–1.5 m (–5 ft.)	**4360 (9,790)**	**4360 (9,790)**	**8740 (18,950)**	**5430 (11,660)**	5750 (12,430)	2830 (6,090)	4010 (8,620)	1820 (3,920)		
–3.0 m (–10 ft.)	**8240 (18,630)**	**8240 (18,630)**	**7080 (15,240)**	**5540 (11,900)**	4750 (10,150)	2880 (6,200)				
With 3.01-m (9 ft. 11 in.) arm and 500-mm (20 in.) rubber crawler pad, blade on ground										
6.0 m (20 ft.)					**2780 (6,170)**	**2780 (6,170)**	**2000**	**2000**		
4.5 m (15 ft.)					**3080 (6,710)**	**3080 (6,710)**	2990 **(6,410)**	2160 **(4,620)**		
3.0 m (10 ft.)			**4910 (10,240)**	**4910 (10,240)**	**3920 (8,490)**	**3390 (7,310)**	3330 (7,260)	2070 (4,450)		
1.5 m (5 ft.)			**8050 (17,310)**	**5950 (12,820)**	4970 (10,750)	3130 (6,740)	3780 (8,210)	1960 (4,210)	2170 (3,700)	1310 (2,790)
Ground Line			**6270 (14,570)**	**5530 (11,870)**	5700 (12,340)	2930 (6,300)	4110 (8,910)	1860 (4,000)		
–1.5 m (–5 ft.)	**3780 (8,490)**	**3780 (8,490)**	**8260 (18,970)**	**5430 (11,650)**	5810 (12,560)	2830 (6,090)	4100 (8,850)	1810 (3,890)		
–3.0 m (–10 ft.)	**6840 (15,430)**	**6840 (15,430)**	**7780 (16,770)**	**5500 (11,800)**	5140 (11,050)	2840 (6,120)	3340	1840		
–4.5 m (–15 ft.)			**5030 (10,500)**	**5030 (10,500)**	2900	2900				
With 3.01-m (9 ft. 11 in.) arm and 600-mm (24 in.) triple semi-grouser shoes, blade on ground										
6.0 m (20 ft.)					**2780 (6,170)**	**2780 (6,170)**	**2000**	**2000**		
4.5 m (15 ft.)					**3080 (6,710)**	**3080 (6,710)**	2990 **(6,410)**	2120 **(4,540)**		
3.0 m (10 ft.)			**4910 (10,240)**	**4910 (10,240)**	**3920 (8,490)**	**3340 (7,200)**	3330 (7,260)	2040 (4,370)		
1.5 m (5 ft.)			**8050 (17,310)**	**5870 (12,630)**	4970 (10,750)	3080 (6,630)	3780 (8,210)	1920 (4,130)	2170 (3,700)	1280 (2,740)
Ground Line			**6270 (14,570)**	**5440 (11,690)**	5700 (12,340)	2880 (6,190)	4110 (8,910)	1830 (3,920)		
–1.5 m (–5 ft.)	**3780 (8,490)**	**3780 (8,490)**	**8260 (18,970)**	**5340 (11,470)**	5810 (12,560)	2780 (5,980)	4100 (8,850)	1770 (3,820)		
–3.0 m (–10 ft.)	**6840 (15,430)**	**6840 (15,430)**	**7780 (16,770)**	**5410 (11,610)**	5140 (11,050)	2790 (6,010)	3340	1810		
–4.5 m (–15 ft.)			**5030 (10,500)**	**5030 (10,500)**	2900	2900				
With 3.01-m (9 ft. 11 in.) arm and 700-mm (28 in.) triple semi-grouser shoes, blade on ground										
6.0 m (20 ft.)					**2780 (6,170)**	**2780 (6,170)**	**2000**	**2000**		
4.5 m (15 ft.)					**3080 (6,710)**	**3080 (6,710)**	2990 **(6,410)**	2150 **(4,610)**		
3.0 m (10 ft.)			**4910 (10,240)**	**4910 (10,240)**	**3920 (8,490)**	**3390 (7,300)**	3330 (7,260)	2070 (4,440)		
1.5 m (5 ft.)			**8050 (17,310)**	**5950 (12,800)**	4970 (10,750)	3130 (6,730)	3780 (8,210)	1960 (4,200)	2170 (3,700)	1300 (2,790)
Ground Line			**6270 (14,570)**	**5520 (11,860)**	5700 (12,340)	2920 (6,290)	4110 (8,910)	1860 (3,990)		
–1.5 m (–5 ft.)	**3780 (8,490)**	**3780 (8,490)**	**8260 (18,970)**	**5420 (11,640)**	5810 (12,560)	2830 (6,080)	4100 (8,850)	1810 (3,880)		
–3.0 m (–10 ft.)	**6840 (15,430)**	**6840 (15,430)**	**7780 (16,770)**	**5490 (11,780)**	5140 (11,050)	2840 (6,110)	3340	1840		
–4.5 m (–15 ft.)			**5030 (10,500)**	**5030 (10,500)**	2900	2900				

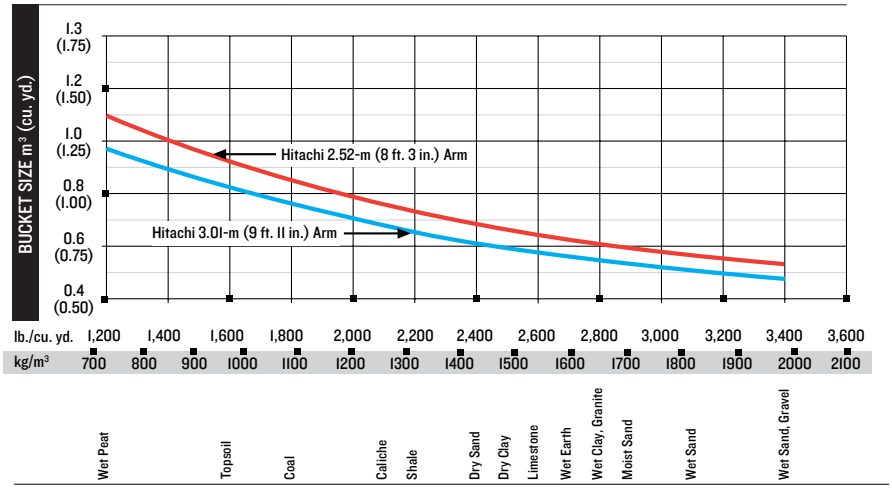
ZX135US-6

Buckets ZX135US-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 dealer parts. Optional side cutters add 6 inches (150 mm) to bucket widths. Capacities are SAE heaped ratings.

Type Bucket	Bucket Width		Bucket Capacity		Bucket Weight	
	mm	in.	m^3	cu. yd.	kg	lb.
Heavy Duty	610	24	0.36	0.47	359	791
	762	30	0.49	0.64	397	875
	914	36	0.62	0.81	448	987
	1067	42	0.76	0.99	484	1,065
Ditching	1524	60	0.63	0.83	457	1,007

Bucket Selection Guide*



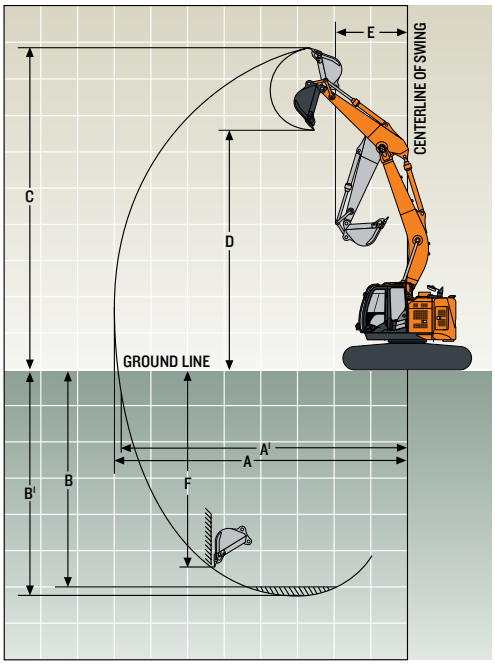
*Contact your Hitachi dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less compacted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

Engine	ZX245USLC-6		
Manufacturer and Model	Isuzu 4HK1		
Non-Road Emissions Standard	EPA Final Tier 4 (FT4)/EU Stage IV		
Net Rated Power (ISO 9249)	119 kW (159 hp) @ 2,000 rpm		
Cylinders	4		
Displacement	5.19 L (317 cu. in.)		
Off Level Capacity	70% (35 deg.)		
Aspiration	Turbocharged and charged air cooled		
Cooling			
Direct-drive suction-type fan			
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed			
Low	3.5 km/h (2.2 mph)		
High	5.5 km/h (3.4 mph)		
Drawbar Pull	20 700 kg (45,636 lb.)		
Hydraulics			
Open center, load sensing			
Main Pumps	3 variable-displacement axial-piston pumps		
Maximum Rated Flow	212 x 2 + 189 L/m (56 x 2 + 50 gpm)		
Pilot Pump	One gear		
Maximum Rated Flow	30 L/m (7.9 gpm)		
Pressure Setting	3999 kPa (580 psi)		
System Operating Pressure			
Circuits			
Implement	34 300 kPa (4,975 psi)		
Travel	35 500 kPa (5,149 psi)		
Swing	32 300 kPa (4,685 psi)		
Power Boost	38 000 kPa (5,511 psi)		
Controls	Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever		
Cylinders			
	Bore	**Rod Diameter**	**Stroke**
Boom (2)	120 mm (4.72 in.)	85 mm (3.35 in.)	1260 mm (49.61 in.)
Arm (1)	135 mm (5.31 in.)	95 mm (3.74 in.)	1475 mm (58.07 in.)
Bucket (1)	115 mm (4.53 in.)	80 mm (3.15 in.)	1060 mm (41.73 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	651 CCA		
Alternator Rating	50 amp		
Work Lights	2 halogen (1 mounted on boom, 1 on frame)		
Undercarriage			
Rollers (each side)			
Carrier Rollers	2		
Track Rollers	8		
Shoes, Triple Semi-Grousers	49		
Track			
Adjustment	Hydraulic		
Guides	Center		
Chain	Sealed and lubricated		
Ground Pressure			
600-mm (24 in.) Triple Semi-Grouser Shoes	51 kPa (7.40 psi)		
700-mm (28 in.) Triple Semi-Grouser Shoes	45 kPa (6.53 psi)		
800-mm (32 in.) Triple Semi-Grouser Shoes	40 kPa (5.80 psi)		
Swing Mechanism			
Swing Speed	11.8 rpm		
Swing Torque	68 000 Nm (50,000 lb.-ft.)		

ZX245USLC-6

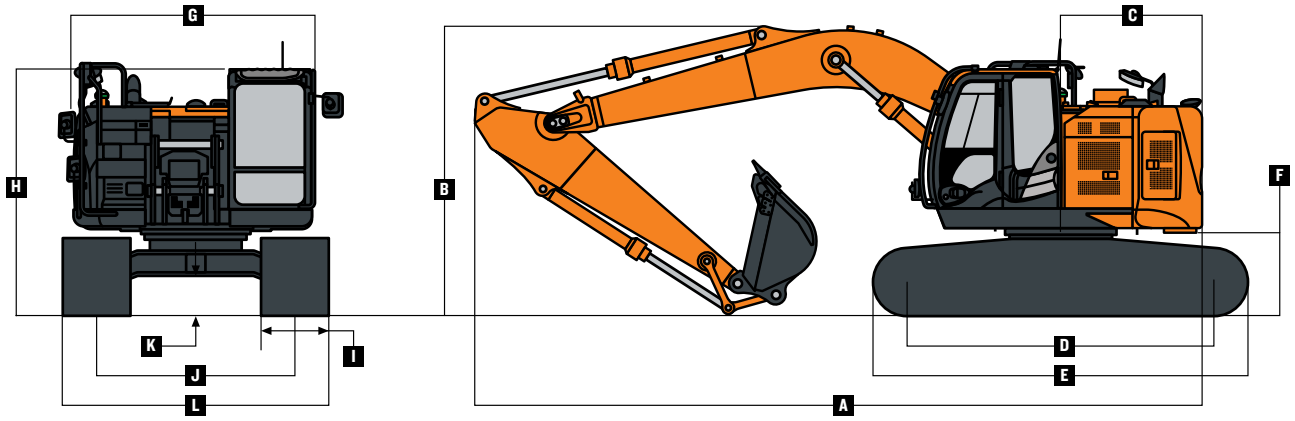
Serviceability	ZX245USLC-6
Refill Capacities	
Fuel Tank	380 L (100.4 gal)
Diesel Exhaust Fluid (DEF) Tank	16 L (16.9 qt.)
Cooling System	28 L (29.6 qt.)
Engine Oil with Filter	23 L (24.3 qt.)
Hydraulic Tank	130 L (34.3 gal.)
Hydraulic System	240 L (63.4 gal.)
Gearbox	
Swing	6.2 L (6.6 qt.)
Propel (each)	6.8 L (7.2 qt.)
Operating Weights	
With full fuel tank; 79-kg (175 lb.) operator; 1219-mm (48 in.), 1.09 m^3 (1.43 cu. yd.), 871-kg (1921 lb.) heavy-duty bucket; 2.91-m (9 ft. 7 in.) arm; 7280-kg (16,050 lb.) counterweight.	
Operating Weight	
700-mm (28 in.) Triple Semi-Grouser Shoes	25 500 kg (56,170 lb.)
800-mm (32 in.) Triple Semi-Grouser Shoes	25 800 kg (56,830 lb.)
Optional Components	
Undercarriage w/ Triple Semi-Grouser Shoes	
700 mm (28 in.)	8002 kg (17,630 lb.)
800 mm (32 in.)	8278 kg (18,230 lb.)
One-Piece Boom (with arm cylinder)	1760 kg (3,880 lb.)
Arm with Bucket Cylinder and Linkage	
2.91 m (9 ft. 7 in.)	918 kg (2,020 lb.)
Boom Lift Cylinders (2) Total Weight	340 kg (750 lb.)

Operating Dimensions	ZX245USLC-6
Arm Length	**2.91 m (9 ft. 7 in.)**
Arm Digging Force	
SAE	110 kN (24,730 lb.)
ISO	114 kN (25,630 lb.)
Bucket Digging Force	
SAE	141 kN (31,700 lb.)
ISO	158 kN (35,520 lb.)
A Maximum Reach	10.11 m (33 ft. 2 in.)
A' Maximum Reach at Ground Level	9.90 m (32 ft. 6 in.)
B Maximum Digging Depth	6.62 m (21 ft. 9 in.)
B' Maximum Digging Depth at 2.44-m (8 ft.) Flat Bottom	6.41 m (21 ft.)
C Maximum Cutting Height	11.23 m (36 ft. 10 in.)
D Maximum Dumping Height	8.29 m (27 ft. 2 in.)
E Minimum Swing Radius	2.38 m (7 ft. 10 in.)
F Maximum Vertical Wall	5.81 m (19 ft. 1 in.)



ZX245USLC-6

Machine Dimensions		ZX245USLC-6
A	Overall Length with Arm	
	2.91-m (9 ft. 7 in.)	9.11 m (29 ft. 11 in.)
B	Overall Height with Arm	
	2.91-m (9 ft. 7 in.)	2.98 m (9 ft. 9 in.)
C	Rear-End Length/Swing Radius	1.68 m (5 ft. 6 in.)
D	Distance Between Idler/Sprocket Centerline	3.66 m (12 ft.)
E	Undercarriage Length	4.46 m (14 ft. 8 in.)
F	Counterweight Clearance	980 mm (3 ft. 3 in.)
G	Upperstructure Width	2.97 m (9 ft. 9 in.)
H	Cab Height	3.03 m (9 ft. 11 in.)
I	Track Width w/ Triple Semi-Grouser Shoes	700 mm (28 in.) / 800 mm (32 in.)
J	Gauge Width	2.39 m (7 ft. 10 in.)
K	Ground Clearance	450 mm (17.72 in.)
L	Overall Width w/ Triple Semi-Grouser Shoes	
	700 mm (28 in.)	3.09 m (10 ft. 2 in.)
	800 mm (32 in.)	3.19 m (10 ft. 6 in.)



Lift Capacities ZX245USLC-6

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). All lift capacities are based on ISO 10567 (with power boost). Machine equipped with 666-kg (1,468 lb.) bucket and standard counterweight; and situated on firm, level, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

Load Point Height	1.5 m (5 ft.)		3.0 m (10 ft.)		4.5 m (15 ft.)		6.0 m (20 ft.)		7.5 m (25 ft.)	
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
With 2.91-m (9 ft. 7 in.) arm and 700-mm (28 in.) triple semi-grouser shoes										
6.0 m (20 ft.)					**5150 (11,200)**	**5150 (11,200)**	**4850 (10,600)**	4850 (10,600)	3950	3300
4.5 m (15 ft.)			9400 **(19,900)**	9400 **(19,900)**	**6650 (14,300)**	**6650 (14,300)**	**5500 (11,900)**	4800 (10,350)	**4900 (10,750)**	3250 (7,000)
3.0 m (10 ft.)					**8700 (18,700)**	7150 (15,400)	**6400 (13,850)**	4550 (9,800)	5300 (11,500)	3150 (6,750)
1.5 m (5 ft.)					**10 300 (22,250)**	6650 (14,300)	7250 (15,650)	4300 (9,250)	5200 (11,250)	3050 (6,500)
Ground Line			3950 (9,150)	3950 (9,150)	**10 850 (23,500)**	6400 (13,800)	7300 (15,650)	4150 (8,950)	5150 (11,050)	2950 (6,300)
–1.5 m (–5 ft.)	5350 (11,950)	5350 (11,950)	**8400 (19,100)**	**8400 (19,100)**	**10 450 (22,700)**	6350 (13,700)	7200 (15,500)	4100 (8,800)	5100 (11,000)	2900 (6,300)
–3.0 m (–10 ft.)	9750 (21,900)	9750 (21,900)	**13 050 (28,250)**	**13 000 (27,850)**	**9250 (19,950)**	6450 (13,900)	**6700 (14,350)**	4150 (8,900)		
–4.5 m (–15 ft.)			**9250 (19,650)**	9250 (19,650)	**6650 (13,950)**	**6650 (13,950)**				
With 2.91-m (9 ft. 7 in.) arm and 800-mm (32 in.) triple semi-grouser shoes										
6.0 m (20 ft.)					**5150 (11,200)**	**5150 (11,200)**	**4850 (10,600)**	4850 (10,600)	3950	3350
4.5 m (15 ft.)			9400 **(19,900)**	9400 **(19,900)**	**6650 (14,300)**	**6650 (14,300)**	**5500 (11,900)**	4850 (10,450)	**4900 (10,750)**	3300 (7,100)
3.0 m (10 ft.)					**8700 (18,700)**	7200 (15,600)	**6400 (13,850)**	4600 (9,900)	5300 (11,550)	3200 (6,850)
1.5 m (5 ft.)					**10 300 (22,250)**	6750 (14,500)	7250 (15,650)	4350 (9,400)	5300 (11,400)	3050 (6,600)
Ground Line			3950 (9,150)	3950 (9,150)	**10 850 (23,500)**	6500 (14,000)	7400 (15,850)	4200 (9,050)	5200 (11,200)	3000 (6,400)
–1.5 m (–5 ft.)	5350 (11,950)	5350 (11,950)	**8400 (19,100)**	**8400 (19,100)**	**10450 (22,700)**	6450 (13,900)	7300 (15,750)	4150 (8,950)	5200 (11,150)	2950 (6,400)
–3.0 m (–10 ft.)	9750 (21,900)	9750 (21,900)	**13 050 (28,250)**	**13 050 (28,200)**	**9250 (19,950)**	6550 (14,100)	**6700 (14,350)**	4200 (9,050)		
–4.5 m (–15 ft.)			**9250 (19,650)**	9250 (19,650)	**6650 (13,950)**	**6650 (13,950)**				

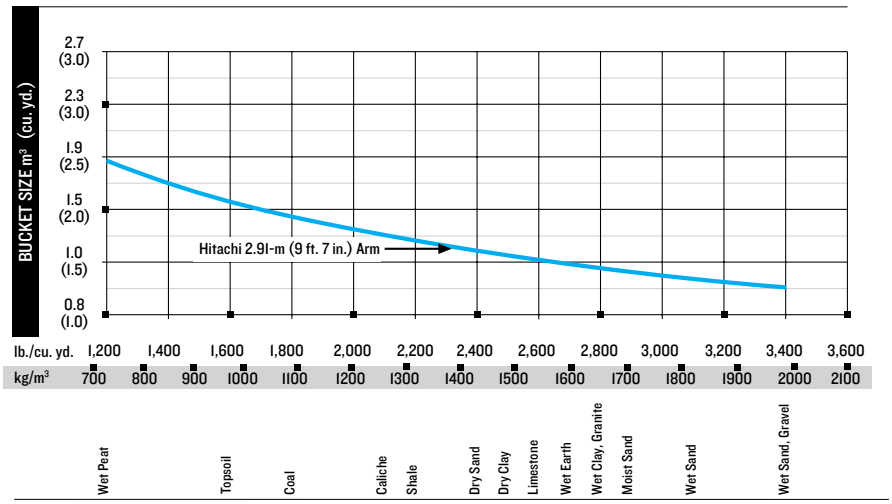
ZX245USLC-6

Buckets ZX245USLC-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 dealer parts. Optional side cutters add 6 inches (150 mm) to bucket widths. Capacities are SAE heaped ratings.

Type Bucket	Bucket Width		Bucket Capacity		Bucket Weight	
	mm	in.	m^3	cu. yd.	kg	lb.
Heavy Duty	610	24	0.39	0.51	443	975
	760	30	0.54	0.71	798	1,097
	915	36	0.70	0.91	562	1,238
	1065	42	0.85	1.11	602	1,327
	1220	48	1.00	1.31	660	1,453
Ditching	1500	60	1.19	1.55	547	1,204

Bucket Selection Guide*



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

SPECS

ADDITIONAL EQUIPMENT

Key: ● Standard ▲ Optional or special kit

ZX135US-6	ZX245USLC-6	Engine
●	●	Auto-idle system
●	●	Automatic belt-tension device
●	●	Batteries (2 – 12 volt)
●	●	Coolant recovery tank
●	●	Dual-element dry-type air filter
●	●	Electronic engine control
●	●	Enclosed fan guard (conforms to SAE J1308)
●	●	Engine coolant to –37 deg. C (–34 deg. F)
●	●	Fuel filter with water separator
●	●	Full-flow oil filter
●	●	Turbocharger with charge air cooler
●	●	500-hour engine-oil-change interval
●	●	70% (35 deg.) off-level capability
●	●	Programmable auto shutdown
▲	▲	Engine-oil-sampling valve
▲	▲	Severe-duty fuel filter
		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
●	●	5,000-hour hydraulic-oil-change interval
●	●	Auxiliary hydraulic lines with proportional control on Rh pilot lever
▲	▲	Hydraulic-oil-sampling valve
▲	▲	Hydraulic filter restriction indicator kit
▲	▲	Load-lowering control device
▲	▲	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
●		Track guides, front idler
●	●	2-speed propel with automatic shift
	●	Upper carrier rollers (2)
●		Upper carrier roller (1)
●	●	Sealed and lubricated track chain
▲		Rubber crawler pads, 500 mm (20 in.)
▲		Triple semi-grouser shoes, 600 mm (24 in.)
▲	▲	Triple semi-grouser shoes, 700 mm (28 in.)
	▲	Triple semi-grouser shoes, 800 mm (32 in.)
▲		Undercarriage with blade

ZX135	ZX245	Upperstructure
●	●	Right-hand, left-hand and counterweight mirrors
●	●	Vandal locks with ignition key: Cab door / Service doors / Toolbox
●	●	Debris screening
●	●	Service handrails
●	●	Remote-mounted engine oil and fuel filters
		Front Attachments
●	●	Centralized lubrication system
●	●	Dirt seals on all bucket pins
●	●	Oil-impregnated bushings
●	●	Reinforced resin thrust plates
●	●	Tungsten-carbide-coating on arm-to-bucket joint
	●	Arm, 2.91 m (9 ft. 7 in.)
▲		Arm, 2.52 m (8 ft. 3 in.)
▲		Arm. 3.01 m (9 ft. 11 in.)
▲	▲	Attachment quick-couplers
▲	▲	Buckets: Ditching / Heavy duty / Heavy-duty high capacity / Side cutters and teeth
▲	▲	Material clamps
		Operator's Station
●	●	Meets ISO 12117-2 for ROPS
●	●	Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
●	●	AM/FM radio
●	●	Auto climate control/air conditioner/heater/ pressurizer
●	●	Built-in Operator's Manual storage compartment and manual
●	●	Cell-phone power outlet, 12 volt, 60 watt, 5 amp
●	●	Coat hook
●		Deluxe mechanical-suspension cloth seat with 100-mm (4 in.) adjustable armrests
	●	Deluxe air-suspension heated cloth seat with 100-mm (4 in.) adjustable armrests
●	●	Floor mat
●	●	Front windshield wiper with intermittent speeds
●	●	Gauges (illuminated): Diesel Exhaust Fluid (DEF)/ Engine coolant / Fuel
●	●	Horn, electric
●	●	Hour meter, electric
●	●	Hydraulic shutoff lever, all controls
●	●	Hydraulic warm-up control
●	●	Interior light
●	●	Large cup holder
●	●	Machine Information Center (MIC)
●	●	Mode selectors (illuminated): Power modes (3) / Travel modes (2 with automatic shift) / Work mode (1)

ZX135	ZX245	Operator's Station (continued)
●	●	Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, engine-air-cleaner-restriction indicator light, engine check, engine-coolant-temperature indicator light with audible alarm, engine-oil-pressure indicator light with audible alarm, low-alternator-charge indicator light, low-fuel indicator light, low DEF indication with audible alarm, fault-code-alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator and work-mode indicator
●	●	Motion alarm with cancel switch (conforms to SAE J994)
●	●	Power-boost switch on right console lever
●	●	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, rear, and side
▲	▲	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
●	●	ZXLink™ wireless communication system (available in specific countries; see your dealer for details)
●	●	Battery disconnect switch
●	●	Rearview camera
		Lights
●	●	Work lights: Halogen / 1 mounted on boom / 1 mounted on frame
▲	▲	2 lights mounted on cab / 1 mounted on right side of boom

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 3050-m (10,000 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 full fuel tanks and 79-kg (175 lb.) operators. Based on a ZX135US-6 unit with 914-mm (36 in.), 0.62-m^3 (0.81 cu.yd.), 448 kg (987-lb.) heavy-duty bucket; 3.01-m (9 ft 11 in.) arm; and 3650-kg (8,047 lb.) counterweight and 700-mm (24 in.) shoes. Based on a ZX245USLC-6 unit with 1219-mm (48 in.), 1.09-m^3 (1.43 cu. yd.), 871-kg (1,921 lb.) heavy-duty bucket; 2.91-m (9 ft. 7 in.) arm; 7280-kg (16,050 lb.) counterweight and 800-mm (28 in.) shoes.

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