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ZAXIS

ZX75US-5 ZX85USB-5

OAD CLOSED

FIC ONLY



BY NOT BUILDING EVERYTHING, WE COMPROMISE ON NOTHING.

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.

The ZX75US-5 and ZX85USB-5 are a perfect fit for light residential work and projects in congested areas. These reduced-tail-swing models feature productivity-boosting advantages, like a fuel-efficient Yanmar diesel engine that meets EPA Final Tier 4 (FT4)/EU Stage IV emission standards. And they deliver all the power, smoothness and ease of operation you've come to expect from our larger Hitachi excavators – in an easy-to-maneuver package. When you choose the ZX75US-5 and ZX85USB-5, you get...

PERFECTLY PACKAGED PRODUCTION.



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ZAXIS | DASH-5 ULTRASHORT-CLASS EXCAVATORS



MORE WORK DONE WITH LESS EFFORT.

FASTER DIGGING, HIGHER PRODUCTIVITY.

Like all of our excavators, the ZX75US-5 and ZX85USB-5 deliver the same multifunction capability and smooth responsiveness operators expect from Hitachi. The advanced hydraulic system 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.

Two work modes provide fuel-efficient performance. 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. With the versatile ZX75US-5 and ZX85USB-5, you can...

WORK ANYWHERE, ANYTIME.

Short-throw, low-effort controls, unmatched metering and smooth multifunction operation provide finesse and precision when they're needed.

Although not a replacement for a grading tractor, the standard backfill blade allows these excavators to fill in quite capably. Generous flow, arm force and swing torque help speed cycles and keep you productive and on schedule. Choose from a variety of track widths, rubber or steel pads, arm lengths, buckets and other options to maximize productivity.

MORE COMFORT, MORE OPTIONS.

PERFECT COMBINATION OF COMMAND AND CONVENIENCE.

It's true. A comfortable operator is more productive. And the ZX75US-5 and ZX85USB-5 cabs are designed for comfort. Spacious cabs isolate noise and vibration and provide plenty of legroom. Wide doors allow easy access. Front, side and overhead glass plus mirrors provide all-around visibility. With these excavators, operators will be...

COMFORTABLE GETTING MORE DONE.



Multi-language LCD monitor and rotary dial provide access to a wealth of info and functions. Just dial and tap to check diagnostic codes, monitor maintenance intervals, set cab temperature and more.



Ergonomically correct shortthrow pilot levers provide smooth, precise fingertip control with less movement or effort.



Standard left hand boom/ frame light, plus optional right hand boom/frame light and cab/ boom lights provide illumination to extend your working day beyond daylight hours.



Low-effort joysticks, a highly efficient HVAC system, and plenty of storage space maximize comfort and convenience. A comfortable, mechanical suspension fabric-covered highback seat provides plenty of travel, sliding together or independent of the joystick console. Automatic, high-velocity bi-level climate-control system with automotive-style adjustable louvers help keep the glass clear, the cab comfortable, and the operator productive.

ZAXIS | DASH-5 ULTRASHORT-CLASS EXCAVATORS



Yanmar EPA Final Tier 4/EU Stage IV engines deliver fuelefficient and reliable performance. The addition of a diesel particulate filter (DPF) and a diesel oxidation catalyst (DOC) reduce particulate matter and NOx. DPF cleaning happens automatically without impacting machine productivity. Auto-idle automatically reduces engine speed when hydraulics aren't in use. Auto-shutdown further preserves fuel.

MORE ENDURANCE, MORE UPTIME.

BUILT TO LAST.

Tough jobs are no match for the ZX75US-5 and ZX85USB-5. They are protected by a heavy-duty undercarriage and durable D-channel side frames. Additional strength comes from welded bulkheads within the boom that resist torsional stress, tungsten-carbide-coated surfaces and oil-impregnated bushings. Grease intervals are extended to 500 hours for the arm-and-boom joint, and IOO hours for the bucket joint. Add it all up, and these excavators deliver...

DURABILITY YOU CAN COUNT ON.



Box-section track frames, thickplate single-sheet mainframe, and superior ground clearance and industry-exclusive double-seal swing bearing deliver rock-solid durability.



With large idlers, rollers, and strutted links, the sealed and lubricated undercarriage delivers long, reliable performance.



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

MORE UPTIME, WITH LESS EXPENSE.

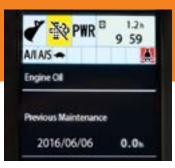
MAINTENANCE MADE EASIER.

The ZX75US-5 and ZX85USB-5 are as easy to maintain as they are to operate. Grouped service points, at-a-glance gauges and centralized lube banks make servicing quick and convenient. Extended service intervals help maximize uptime. Scheduled maintenance is easy to track using the in-cab diagnostic monitor. It's clear that these models help you...

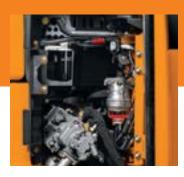
REDUCE COSTS, INCREASE UPTIME.



Left rear compartment houses the battery, engine air filter, freshair cab filter and side-by-side coolers.



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



Vertical spin-on fuel- and engine-oil filters are positioned in the right rear compartment for simplified ground-level servicing.





Easy-to-check sight gauges and fluid reservoirs, quickchange remote-mounted vertical filters, and extended engine and hydraulic oil service intervals minimize downtime for periodic maintenance. Oil-impregnated bushings enhance durability and extend lube intervals to 500 hours for the arm-and-boom joint, and IO0 hours for the bucket joint. Wider service doors and easy-access service points make quick work of daily and periodic maintenance.

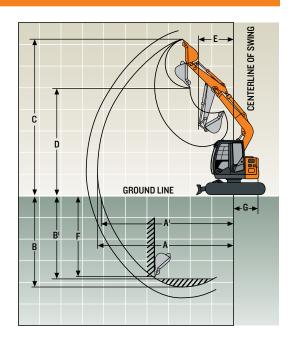


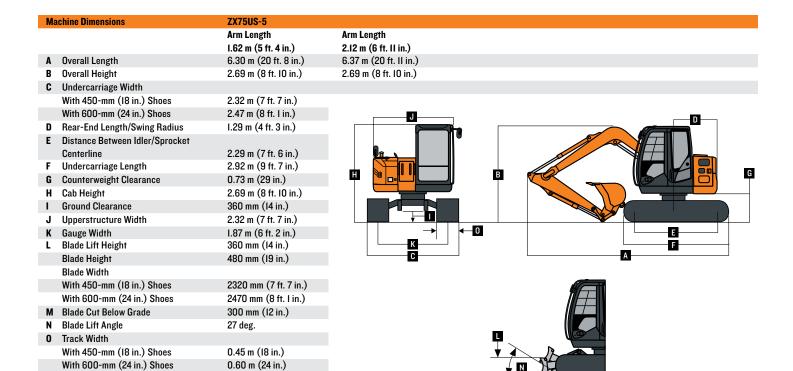
Engine	ZX75US-5									
Manufacturer and Model	Yanmar 4TNV98C									
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV									
Net Power (ISO 9249)	42.4 kW (56.9 hp) @ 2,000 rp	42.4 kW (56.9 hp) @ 2,000 rpm								
Cylinders	4	4								
Displacement	3.3 L (202 cu. in.)	3.3 L (202 cu. in.)								
Aspiration	Natural									
Off-Level Capacity	70% (35 deg.)									
Cooling										
Variable-speed fan; viscous clutch										
Powertrain										
2-speed propel with automatic shift										
Maximum Travel Speed										
Low	3.1 km/h (1.9 mph)									
High	5.0 km/h (3.1 mph)									
Drawbar Pull	6650 kgf (14,661 lb.)									
Hydraulics										
Open Center, Load Sensing										
Main Pumps	3 variable-displacement axial-p	piston pumps								
Maximum Pump Flow	2 x 72 + 56 L/m (2 x 19 + 15 gpm									
Pilot Pump	l gear									
Maximum Rated Flow	20 L/m (5.3 gpm)									
System Relief Pressure	3900 kPa (566 psi)									
System Operating Pressure										
Implement Circuits	26 000 kPa (3,771 psi)									
Travel Circuits	3I 400 kPa (4,554 psi)									
Swing Circuits	25 200 kPa (3,655 psi)									
Controls	Pilot levers, short stroke, low e	ffort; hydraulic pilot controls with shutoff lever								
Cylinders										
Heat-treated, chrome-plated, polishe	ed cylinder rods; hardened steel (replacea	able bushings) pivot pins								
	Bore	Rod Diameter	Stroke							
Boom (I)	115 mm (4.5 in.)	65 mm (2.6 in.)	885 mm (34.8 in.)							
Arm (I)	95 mm (3.7 in.)	60 mm (2.4 in.)	900 mm (35.4 in.)							
Bucket (I)	85 mm (3.3 in.)	55 mm (2.2 in.)	730 mm (28.7 in.)							
Electrical										
Batteries	2 x 12 volt									
Battery Capacity	2 x 450 CCA									
Alternator Rating	50 amp									
Work Lights	2 halogen (I mounted on boom	and I on frame)								

ZX/5US-5

Undercarriage	ZX75US-5
Rollers (each side)	
Carrier	
Track	5
Shoes (each side)	40
Track	
Adjustment	Hydraulic
Chain	Sealed and lubricated
Swing Mechanism	
Swing Speed	10.5 rpm
Swing Torque	16 600 Nm (12,244 lbft.)
Ground Pressure	
450-mm (18 in.) Rubber Crawler Pads	39 kPa (5.6 psi)
450-mm (18 in.) Continuous Rubber Belt	39 kPa (5.6 psi)
450-mm (18 in.) Triple Semi-Grouser Shoes	38 kPa (5.4 psi)
600-mm (24 in.) Triple Semi-Grouser Shoes	27 kPa (3.9 psi)
Serviceability	
Refill Capacities	
Fuel Tank	135 L (35.7 gal.)
Cooling System	9.7 L (2.6 gal.)
Engine Oil with Filter	I2.3 L (3.2 gal.)
Hydraulic Tank	56 L (15 gal.)
Hydraulic System	103 L (27 gal.)
Propel Gearbox (each)	I.2 L (I.3 qt.)
Operating Weights	
	(691 lb.) Bucket; 2.12-m (6 ft. 11 in.) Arm; 1305-kg (2,877 lb.) Counterweight; 2470-mm (8 ft. 1 in.) Blade; Full Fuel Tank; and
75-kg (165 lb.) Operator	
450-mm (18 in.) Rubber Crawler Pads	8143 kg (17,952 lb.)
450-mm (18 in.) Triple Semi-Grouser Shoes	7882 kg (17,377 lb.)
600-mm (24 in.) Triple Semi-Grouser Shoes	8265 kg (18,221 lb.)
450-mm (18 in.) Continuous Rubber Belt	7898 kg (17,412 lb.)
Optional Components	
Undercarriage (with the following)	
450-mm (18 in.) Rubber Crawler Pads	2903 kg (6.400 lb.)
450-mm (18 in.) Continuous Rubber Belt	2867 kg (6,321 lb.)
450-mm (18 in.) Triple Semi-Grouser Shoes	2851 kg (6,285 lb.)
600-mm (24 in.) Triple Semi-Grouser Shoes	3025 kg (6,669 lb.)
I-Piece Boom (with arm cylinder)	497 kg (1,096 lb.)
Arm with Bucket Cylinder and Linkage	
1.62 m (5 ft. 4 in.)	238 kg (525 lb.)
2.12 m (6 ft. 11 in.)	276 kg (608 lb.)
Boom Lift Cylinders (2), Total Weight	178 kg (392 lb.)
Counterweight, Standard	I305 kg (2,877 lb.)

Op	erating Dimensions	ZX75US-5	
		Arm Length	Arm Length
		1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)
Arı	m Digging Force (ISO)	35.5 kN (7,981 lb.)	30.7 kN (6,902 lb.)
Bu	cket Digging Force (ISO)	46.6 kN (10,476 lb.)	46.6 kN (10,476 lb.)
A	Maximum Reach	6.43 m (21 ft. 1 in.)	6.92 m (22 ft. 8 in.)
A	Maximum Reach at Ground Level	6.26 m (20 ft. 6 in.)	6.76 m (22 ft. 2 in.)
В	Maximum Digging Depth	4.11 m (13 ft. 6 in.)	4.61 m (15 ft. 1 in.)
B	Maximum Digging Depth at 2.44-m		
	(8 ft.) Flat Bottom	3.75 m (12 ft. 4 in.)	4.32 m (14 ft. 2 in.)
C	Maximum Cutting Height	7.21 m (23 ft. 8 in.)	7.61 m (25 ft. 0 in.)
D	Maximum Dumping Height	5.12 m (16 ft. 10 in.)	5.51 m (18 ft. l in.)
Ε	Minimum Swing Radius	l.81 m (5 ft. 11 in.)	2.17 m (7 ft. 1 in.)
F	Maximum Vertical Wall	3.67 m (12 ft. 0 in.)	4.22 m (13 ft. 10 in.)
G	Tail Swing Radius	1.29 m (4 ft. 3 in.)	1.29 m (4 ft. 3 in.)
G	Tail Swing Radius	· · ·	· /



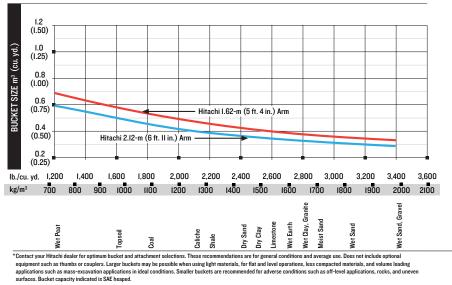




Lift Capacities ZX75US-5

Load Point Height	1.5 m	(5 ft.)	3.0 m (10 ft.)		4.5 m	(15 ft.)	6.0 m (20 ft.)		
Horizontal Distance from									
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
Vith 3.72-m (12 ft. 8 in.) boom, 1.62-	-m (5 ft. 4 in.) arm, 0.28-m³ (().37 cu. yd.) bucket, 45			9 in.) blade				
4.5 m (I5 ft.)			1616	1616					
			(3,562)	(3,562)	1000	1005			
3.0 m (IO ft.)			2223	2223	1829	1605			
l.5 m (5 ft.)			(4,901) 3192	(4,901) 2752	(4,032) 2121	(3,539) 1538			
1.5 m (5 m.)			(7,038)	(6,067)	(4,675)	(3,390)			
Ground Line			3615	2635	2327	(3,390)			
diounu Line			(7,969)	(5,810)	(5,131)	(3,275)			
-1.5 m (-5 ft.)	4476	4476	3402	2634	(0,101)	(0,210)			
	(9,867)	(9,867)	(7,500)	(5,807)					
With 3.72-m (12 ft. 8 in.) boom, 2.12-		0.37 cu. yd.) bucket, 45			9 in.) blade				
4.5 m (15 ft.)					1475	1475			
					(3,252)	(3,252)			
3.0 m (10 ft.)			1834	1834	1613	1613			
			(4,043)	(4,043)	(3,557)	(3,557)			
l.5 m (5 ft.)			2864	2797	1958	1541			
			(6,313)	(6,167)	(4,317)	(3,397)			
Ground Line			3508	2629	2248	1472			
			(7,734)	(5,797)	(4,956)	(3,246)			
-1.5 m (-5 ft.)	3544	3544	3514	2594	2252	1451			
	(7,813)	(7,813)	(7,746)	(5,718)	(4,964)	(3,199)			
-3.0 m (-10 ft.)	5020	5020	2742	2663					
With 3.72-m (12 ft. 8 in.) boom, 1.62-	(II,068)	(II,068)	(6,044)	(5,870)	blada				
	-m (5 m. 4 m.) arm, 0.28-m° (0	J.37 Cu. ya.) bucket, bu	1616 IGI6	10 2470-mm (8 m. 1 m.) 1616	biade				
4.5 m (15 ft.)			(3,562)	(3,562)					
3.0 m (I0 ft.)			2223	2223	1829	1630			
0.0 m (10 m.)			(4,901)	(4,901)	(4,032)	(3,594)			
l.5 m (5 ft.)			3192	2796	2121	1563			
			(7,038)	(6,164)	(4,675)	(3,446)			
Ground Line			3615	2679	2327	1510			
			(7,969)	(5,906)	(5,131)	(3,330)			
-1.5 m (-5 ft.)	4476	4476	3402	2678					
	(9,867)	(9,867)	(7,500)	(5,903)					
With 3.72-m (12 ft. 8 in.) boom, 2.12-	·m (6 ft. II in.) arm, 0.28-m³ (l).37 cu. yd.) bucket, 60	00-mm (24 in.) shoes, a	nd 2470-mm (8 ft. I in.)	blade				
4.5 m (I5 ft.)					1475	1475			
					(3,252)	(3,252)			
3.0 m (10 ft.)			1834	1834	1613	1613			
			(4,043)	(4,043)	(3,557)	(3,557)			
l.5 m (5 ft.)			2864	2841	1958	1566			
• • • • •			(6,313)	(6,263)	(4,317)	(3,452)			
Ground Line			3508	2673	2248	1497			
			(7,734)	(5,893)	(4,956)	(3,301)			
-1.5 m (-5 ft.)	3544	3544	3514	2637	2252	1476			
20	(7,813)	(7,813)	(7,746)	(5,814)	(4,964)	(3,254)			
-3.0 m (-10 ft.)	5020 (11,068)	5020 (11,068)	2742 (6.044)	2707 (5.967)					
With 3.72-m (12 ft. 8 in.) boom, 1.62-					-mm (9 ft lin) blada				
3.0 m (10 ft.)	m (3 n. 4 m.) arm, 0.28-m° (l	, buckef, 45	224I (18 in.) continuol	us rubber beit, and 2470 224 1	-mini (o n. i m.) biade				
5.0 m (10 11.)			(4,940)	(4,940)					
l.5 m (5 ft.)			3207	2608					
1.0 III (0 II.)			(7,070)	(5,750)					
Ground Line			3620	2499	2327	1415			
Ground Line			(7,980)	(5,510)	(5,130)	(3,120)			
-1.5 m (-5 ft.)	4527	4527	3393	2499	(0,100)	(0,120)			
	(9,980)	(9,980)	0000	2400					

Buckets	ZX75US-	5													
A full line of buckets is	s offered to meet a v	wide variety	of application	s. Replaceabl	e cutting edg	ges are avail	able through H	litachi Parts. C)ptional side	cutters add	150 mm (6 in	.) to bucket w	idths.		
									Arm Dig F	orce (ISO)	Arm Dig F	orce (ISO)			
Type Bucket	Bucket	Width	Bucket	Capacity	Bucket	Weight	Bucket Dig	Force (ISO)	1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)	Bucket T	'ip Radius	Number of Teeth
	mm	in.	m ³	cu. yd.	kg	lb.	kN	lb.	kN	lb.	kN	lb.	mm	in.	
Heavy Duty	610	24	0.24	0.31	268	591	44	9,892	34	7,545	29	6,524	883	34.76	5
	762	30	0.31	0.41	313	691	44	9,892	34	7,545	29	6,524	883	34.76	6
	914	36	0.39	0.51	358	790	44	9,892	34	7,545	29	6,524	883	34.76	7
Ditching	1219	48	0.49	0.64	330	727	64	14,344	40	8,911	33	7,473	907	35.69	0
Bucket Selection	Cuido*														



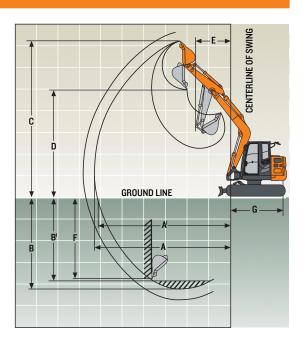
ZX85USB-5

Engine	ZX85USB-5									
Manufacturer and Model	Yanmar 4TNV98C-WHBW									
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV									
Net Power (ISO 9249)	42.4 kW (56.9 hp) @ 2,000 rpm	42.4 kW (56.9 hp) @ 2,000 rpm								
Cylinders	4									
Displacement	3.3 L (202 cu. in.)	3.3 L (202 cu. in.)								
Aspiration	Natural									
Off-Level Capacity	70% (35 deg.)									
Cooling										
Variable-speed fan; viscous clutch										
Powertrain										
2-speed propel with automatic shift										
Maximum Travel Speed										
Low	3.1 km/h (1.9 mph)									
High	5.0 km/h (3.1 mph)									
Drawbar Pull	6650 kgf (14,661 lb.)									
Hydraulics										
Open Center, Load Sensing										
Main Pumps	3 variable-displacement axial-piston pumps									
Maximum Pump Flow	2 x 72 + 56 L/m (2 x I9 + I5 gpm)									
Pilot Pump	l gear									
Maximum Rated Flow	20 L/m (5.3 gpm)									
System Relief Pressure	3900 kPa (566 psi)									
System Operating Pressure										
Implement Circuits	26 000 kPa (3,771 psi)									
Travel Circuits	3l 400 kPa (4,554 psi)									
Swing Circuits	25 000 kPa (3,626 psi)									
Controls	Pilot levers, short stroke, low effort; hydraulio	c pilot controls with shutoff lever								
Cylinders										
Heat-treated, chrome-plated, polished cylir	nder rods; hardened steel (replaceable bushings)	pivot pins								
	Bore	Rod Diameter	Stroke							
Boom (I)	115 mm (4.5 in.)	65 mm (2.6 in.)	885 mm (34.8 in.)							
Arm (I)	95 mm (3.7 in.)	60 mm (2.4 in.)	900 mm (35.4 in.)							
Bucket (I)	85 mm (3.3 in.)	55 mm (2.2 in.)	730 mm (28.7 in.)							
Electrical										
Batteries	2 x I2 volt									
Battery Capacity	2 x 450 CCA									
Alternator Rating	50 amp									
Work Lights	2 halogen (I mounted on boom and I on frame									

ZX85USB-5

Undercarriage	ZX85USB-5
Rollers (each side)	
Carrier	
Track	5
	5 40
Shoes (each side)	40
Track	
Adjustment	Hydraulic Control of the second sec
Chain	Sealed and lubricated
Swing Mechanism	
Swing Speed	IO.5 rpm
Swing Torque	16 600 Nm (12,244 lbft.)
Boom Swing	
Left	60 deg.
Right	60 deg.
Ground Pressure	
450-mm (18 in.) Rubber Crawler Pads	41.5 kPa (6.0 psi)
450-mm (18 in.) Continuous Rubber Belt	4I.4 kPa (6.0 psi)
450-mm (18 in.) Triple Semi-Grouser Shoes	41.3 kPa (6.0 psi)
600-mm (24 in.) Triple Semi-Grouser Shoes	31.7 kPa (4.6 psi)
Serviceability	
Refill Capacities	
Fuel Tank	120 L (31.7 gal.)
Cooling System	9.7 L (2.6 gal.)
Engine Oil with Filter	12.3 L (3.2 gal.)
Hydraulic Tank	56 L (15 gal.)
Hydraulic System	103 L (27 gal.)
Propel Gearbox (each)	I.2 L (I.3 qt.)
Operating Weights	
	(691 lb.) Bucket; 2.12-m (6 ft. 11 in.) Arm; 1408-kg (3,104 lb.) Counterweight; Full Fuel Tank; and 75-kg (165 lb.) Operator
2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)	
Rubber Crawler Pads	8729 kg (19,244 lb.)
2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)	
Triple Semi-Grouser Shoes	8677 kg (19,130 lb.)
2470-mm (8 ft. I in.) Blade and 600-mm (24 in.)	
Triple Semi-Grouser Shoes	8874 kg (19,564 lb.)
2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)	
Continuous Rubber Belt	8701 kg (19,182 lb.)
Optional Components	
Undercarriage (with the following)	
450-mm (18 in.) Rubber Crawler Pads	2871 kg (6,329 lb.)
450-mm (18 in.) Continuous Rubber Belt	2843 kg (6,268 lb.)
450-mm (18 in.) Triple Semi-Grouser Shoes	2819 kg (6,215 lb.)
600-mm (24 in.) Triple Semi-Grouser Shoes	2970 kg (6,548 lb.)
I-Piece Boom (with arm cylinder)	491 kg (1,082 lb.)
Arm with Bucket Cylinder and Linkage	
1.62 m (5 ft. 4 in.)	237 kg (522 lb.)
2.12 m (6 ft. 11 in.)	275 kg (606 lb.)
Boom Lift Cylinders	89 kg (196 lb.)
0.49-m ³ (0.64 cu. yd.), 1219-mm (48 in.)	
Ditching Bucket	330 kg (728 lb.)
Counterweight (standard)	1408 kg (3,104 lb.)

Op	erating Dimensions	ZX85USB-5	
		Arm Length	Arm Length
		1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)
Ar	m Digging Force (ISO)	35.5 kN (7,981 lb.)	30.7 kN (6,902 lb.)
Βι	icket Digging Force (ISO)	46.6 kN (10,476 lb.)	46.6 kN (10,476 lb.)
A	Maximum Reach	7.21 m (23 ft. 8 in.)	7.70 m (25 ft. 3 in.)
A	Maximum Reach at Ground Level	7.05 m (23 ft. 2 in.)	7.55 m (24 ft. 9 in.)
В	Maximum Digging Depth	3.99 m (13 ft. 1 in.)	4.51 m (14 ft. 10 in.)
B	Maximum Digging Depth at 2.44-m		
	(8 ft.) Flat Bottom	3.62 m (II ft. II in.)	4.20 m (13 ft. 9 in.)
C	Maximum Cutting Height	6.79 m (22 ft. 3 in.)	7.14 m (23 ft. 5 in.)
D	Maximum Dumping Height	4.77 m (15 ft. 8 in.)	5.08 m (16 ft. 8 in.)
Ε	Minimum Swing Radius	2.74 m (9 ft. 0 in.)	2.89 m (9 ft. 6 in.)
F	Maximum Vertical Wall	3.47 m (II ft. 5 in.)	4.05 m (13 ft. 3 in.)
G	Tail Swing Radius	1.49 m (4 ft. 11 in.)	1.49 m (4 ft. 11 in.)



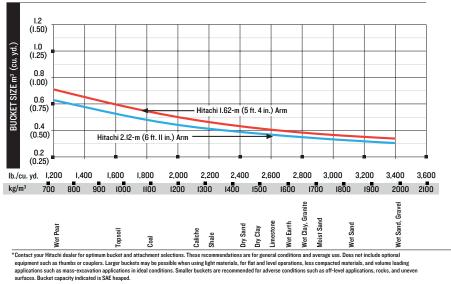
ZX85USB-5

Ma	chine Dimensions	ZX85USB-5	
		Arm Length	Arm Length
		1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)
A	Overall Length	6.64 m (21 ft. 9 in.)	6.82 m (22 ft. 5 in.)
В	Overall Height		
	With 450-mm (18 in.) Rubber Crawler Pads	2.61 m (8 ft. 7 in.)	
	With Steel Shoes	2.53 m (8 ft. 4 in.)	
C	Undercarriage Width		
	With 450-mm (18 in.) Shoes	2.20 m (7 ft. 3 in.)	
	With 600-mm (24 in.) Shoes	2.35 m (7 ft. 9 in.)	
D	Rear-End Length/Swing Radius	1.49 m (4 ft. 11 in.)	
Ε	Distance Between Idler/Sprocket Centerline	2.29 m (7 ft. 6 in.)	
F	Undercarriage Length	2.92 m (9 ft. 7 in.)	
G	Counterweight Clearance	0.72 m (28 in.)	
Н	Cab Height	2.53 m (8 ft. 4 in.)	
I	Ground Clearance	360 mm (14 in.)	
J	Upperstructure Width	2.32 m (7 ft. 7 in.)	
K	Gauge Width	1.75 m (5 ft. 9 in.)	
L	Blade Lift Height	340 mm (13 in.)	C
	Blade Height	460 mm (18 in.)	
	Blade Width		
	With 450-mm (18 in.) Shoes	2200 mm (7 ft. 3 in.)	
	With 600-mm (24 in.) Shoes	2350 mm (7 ft. 9 in.)	
М	Blade Cut Below Grade	320 mm (13 in.)	
Ν	Blade Lift Angle	26 deg.	
0	Track Width		
	With 450-mm (18 in.) Shoes	0.45 m (18 in.)	
	With 600-mm (24 in.) Shoes	0.60 m (24 in.)	
			M
			—

Lift Capacities ZX85USB-5

oad Point Height	of cables, hook, etc. Figures do 1.5 m (9	,	3.0 m (• .		(15 ft.)	6.0 m ((20 ft.)
Iorizontal Distance from		511.)	0.0 11	(1011.)	4.0 11		0.0 11 ((2011.)
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
Vith 3.67-m (12 ft. 2 in.) boom, 1.62							O tor From	ever elle
3.0 m (10 ft.)	in (0 n. 4 n.) ann, 0.20 m (0	.07 cu. yu./ bucket, 40	3432	2887	2312	1580		
0.0 m (10 m.)			(7,567)	(6,365)	(5.096)	(3,484)		
1.5 m (5 ft.)			(1,307)	(0,303)	2819	(3,484)	2078	992
1.5 m (5 m.)						(3,265)	(4,582)	(2,188)
0			0404	0404	(6,215)		(4,382)	(2,188)
Ground Line			2434	2434	3047	1416		
			(5,367)	(5,367)	(6,717)	(3,121)		
-1.5 m (-5 ft.)			4279	2503	2711	1410		
			(9,433)	(5,518)	(5,976)	(3,109)		
Vith 3.67-m (12 ft. 2 in.) boom, 2.12	-m (6 ft. II in.) arm, 0.28-m³ (0	.37 cu. yd.) bucket, 45	0-mm (18 in.) rubber pa	ds, and 2200-mm (7 ft.				
4.5 m (I5 ft.)					1735	1656		
					(3,825)	(3,651)		
3.0 m (IO ft.)					2044	1597	1809	1022
					(4,506)	(3,521)	(3,988)	(2,253)
1.5 m (5 ft.)					2619	1488	1968	986
					(5,773)	(3,280)	(4,339)	(2,174)
Ground Line			2577	2445	2992	1403	2069	952
			(5,682)	(5,391)	(6,597)	(3,092)	(4,561)	(2,098)
-1.5 m (-5 ft.)	2683	2683	4770	2448	2868	1377		
	(5,914)	(5,914)	(10,516)	(5,397)	(6,322)	(3,036)		
-3.0 m (-10 ft.)		(3130	3130	(-/- /	(-//		
			(7,012)	(5,560)				
With 3.67-m (12 ft. 2 in.) boom, 1.62	-m (5 ft 4 in) arm 0.28-m ³ (0	37 cu vd.) bucket 60			hlada			
3.0 m (10 ft.)	in (5 n. 4 in.) ann, 6.26 in (6	.07 cu. yu./ buckci, ou	3432	2927	2312	1603		
5.0 m (10 m.)			(7,567)	(6,453)	(5,096)	(3,535)		
			(1,507)	(0,455)			0070	1000
l.5 m (5 ft.)					2819	1505	2078	1009
o					(6,215)	(3,317)	(4,582)	(2,224)
Ground Line			2434	2434	3047	1439		
			(5,367)	(5,367)	(6,717)	(3,172)		
-1.5 m (-5 ft.)			4279	2543	2711	1433		
			(9,433)	(5,606)	(5,976)	(3,160)		
With 3.67-m (12 ft. 2 in.) boom, 2.12	-m (6 ft. II in.) arm, 0.28-m³ (0	.37 cu. yd.) bucket, 60	10-mm (24 in.) shoes, ar	ıd 2470-mm (8 ft. I in.)				
4.5 m (I5 ft.)					1735	1679		
					(3,825)	(3,702)		
3.0 m (10 ft.)					2044	1620	1809	1038
					(4,506)	(3,572)	(3,988)	(2,289)
I.5 m (5 ft.)					2619	1511	1968	1002
					(5,773)	(3,332)	(4,339)	(2,210)
Ground Line			2577	2485	2992	1426	2069	968
			(5,682)	(5,479)	(6,597)	(3,143)	(4,561)	(2,134)
-1.5 m (-5 ft.)	2683	2683	4770	2488	2868	1400		
	(5,914)	(5,914)	(10,516)	(5,485)	(6,322)	(3,087)		
-3.0 m (-10 ft.)	(0,014)	(0,017)	3130	3130	(0,011)	(0,001)		
			(7,012)	(5,647)				
With 3.67-m (12 ft. 2 in.) boom, 2.12	-m (6 ft II in) arm lass husked	450-mm (18 in) cont		,	lade			
4.5 m (15 ft.)	in (o n. ii iii.) ariii, iess bucker	,	muous lunnei neil, allu	2200 mm (7 m. 3 m.) D	1728	1579		
4.5 III (13 II. <i>)</i>					(3,810)	(3,480)		
20 m (10 ft)							1005	071
3.0 m (10 ft.)					2050	1520	1805	971
					(4,520)	(3,350)	(3,980)	(2,140)
I.5 m (5 ft.)					2626	1411	1969	934
					(5,790)	(3,110)	(4,340)	(2,060)
Ground Line			2595	2309	2994	1329	2068	903
			(5,720)	(5,090)	(6,600)	(2,930)	(4,560)	(1,990)
-1.5 m (-5 ft.)	2708	2708	4758	2309	2862	1306		
	(5,970)	(5,970)	(10,490)	(5,090)	(6,310)	(2,880)		
-3.0 m (-10 ft.)			3139	2386				
· · ·			(6,920)	(5,260)				

Buckets	ZX85USE	3-5													
A full line of buckets is	offered to meet a v	wide variety	of application	ıs. Replaceabl	e cutting edg	ges are avail	able through H	litachi Parts. C	ptional side	e cutters add	150 mm (6 in	.) to bucket w	idths.		
									Arm Dig F	Force (ISO)	Arm Dig F	orce (ISO)			
Type Bucket	Bucket	Width	Bucket	Capacity	Bucket	t Weight	Bucket Dig	Force (ISO)	1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)	Bucket T	'ip Radius	Number of Teeth
	mm	in.	m ³	cu. yd.	kg	lb.	kN	lb.	kN	lb.	kN	lb.	mm	in.	
Heavy Duty	610	24	0.31	0.40	287	633	54	12,061	38	8,491	32	7,162	1087	42.80	5
	762	30	0.41	0.53	333	735	54	12,061	38	8,491	32	7,162	1087	42.80	6
	914	36	0.50	0.66	380	837	54	12,061	38	8,491	32	7,162	1087	42.80	7
Ditching	1219	48	0.49	0.64	330	727	64	14,344	40	8,911	33	7,473	907	35.69	0
Bucket Selection	Suido*														



ADDITIONAL EQUIPMENT

Key: Standard Optional 	or special kit
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75	85	Engine
•	٠	Auto-idle system
•	٠	Batteries (2 – 12 volt)
•	•	Coolant recovery tank
•	•	Single-element air filter
•	•	Electronic engine control
•	•	Enclosed fan guard
		(conforms to SAE JI308)
•	•	Engine coolant to –37 deg. C (–34 deg. F)
•	•	Fuel filter with water separator
•	•	Full-flow oil filter
•	٠	Radiator and oil cooler with
		dust-protective net
•	٠	Glow-plug start aid
•	•	500-hour engine oil-change interval
•	•	70% (35 deg.) off-level capacity
•	•	Isolation mounted
		Hydraulic System
	•	Reduced-drift valve for boom down, arm in
•	•	Auxiliary hydraulic valve section
•	•	Spring-applied, hydraulically released
		automatic swing brake
•	•	5,000-hour hydraulic-oil-change interval
		Auxiliary hydraulic lines
		Auxiliary pilot and electric controls
A		Hydraulic filter restriction indicator kit
A		Load-lowering control device
A		Single-pedal propel control
A	A	Control pattern change valve
		Undercarriage
•	•	Planetary drive with axial piston motors
•		Propel motor shields
•	•	Spring-applied, hydraulically released
•		automatic propel brake
•	•	2-speed propel with automatic shift
•		Upper carrier roller (I) Sealed and lubricated track chain
•		
▲		Undercarriage with blade Triple semi-grouser shoes, 450 mm (18 in.)
		Triple semi-grouser shoes, 600 mm (24 in.)
		Rubber crawler pads, 450 mm (18 in.)
		Rubber belt, continuous, 450 mm (18 in.)
-	-	

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•	•	Right- and left-hand mirrors
•	•	Vandal locks with ignition key: Cab door /
		Engine hood / Fuel cap / Service doors
•	•	Remote-mounted engine oil and fuel filters
		Front Attachments
•	•	Centralized lubrication system
•	•	Dirt seals on all bucket pins
•	•	Less boom and arm
•	•	Oil-impregnated bushings
•	•	Reinforced resin thrust plates
•	•	Tungsten carbide thermal coating on
		arm-to-bucket joint
		Arm, 1.62 m (5 ft. 4 in.)
A		Arm, 2.12 m (6 ft. 11 in.)
		Attachment quick-couplers
A		Buckets: Ditching / Heavy duty / Heavy-duty
		high capacity / Side cutters and teeth
		Operator's Station
•	•	Meets ISO 12117-2 for ROPS
•	•	Adjustable independent control positions
		(seat-to-pedals)
•	•	AM/FM radio
•	•	Auto climate control/air conditioner with
		heater and pressurizer
•	•	Built-in operator's manual storage
		compartment and manual
•	•	Cell-phone power outlet, I2 volt, 60 watt,
		5 amp
•	•	Coat hook
•	•	Deluxe cloth suspension seat with
		adjustable armrests
•	•	Floor mat
•	•	Front windshield wiper with
		intermittent speeds
•	•	Gauges (illuminated): Engine coolant / Fuel
•	•	Horn, electric
•	•	Hour meter, electric
•	•	Hydraulic shutoff lever, all controls
•	•	Hydraulic warm-up control
•	•	Interior light
•	٠	Large cup holder
•	•	Machine Information Center (MIC)

85

Upperstructure

Counterweight, I305 kg (2,877 lb.) Counterweight, 1408 kg (3,104 lb.)

75	85	Operator's Station (continued)
•	•	Mode selectors (illuminated):
		Power modes (2) / Travel modes (2 with
		automatic shift) / Work mode(I)
•	٠	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, 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)
•	•	Auxiliary hydraulic control switches in right
		console lever
•	•	SAE 2-lever control pattern
•	•	Seat belt, 51 mm (2 in.), retractable
•	•	Tinted glass
•		Transparent tinted overhead hatch
-	•	Transparent tinted overhead window
•	•	Hot/cold beverage compartment
		Seat belt, 76 mm (3 in.), non-retractable
	-	Protection screens for cab front,
		rear and side
	A	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)
		Lights
•	•	Work lights: Halogen / I mounted on boom /
		I mounted on frame

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 standard equipment; 0.31-w (0.41 cu, yd.), 762-mm (30 in.), 313-kg (691 lb.) bucket; 450-mm (18 in.) rubber crawler pad shoes; 2.12-m (6 ft. II in.) arm; full fuel tank; and 75-kg (165 lb.) operators; a ZX75US-5 with 1305-kg (2,877 lb.) counterweight and a ZX85USB-5 with a 1408-kg (3,104 lb.) counterweight.

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