ZX85USB-5 42.4 kW (56.9 net hp)





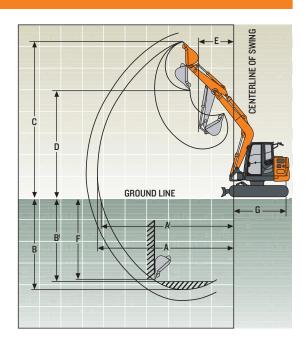
Engine								
Manufacturer and Model	Yanmar 4TNV98C-WHBW							
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV							
Net Power (ISO 9249)	42.4 kW (56.9 hp) @ 2,000 rpi	n						
Cylinders	4							
Displacement	4 3.3L (202 cu. in.)							
Aspiration	Natural							
Off-Level Capacity	70% (35 deg.)							
	70% (35 deg.)							
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							
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	25 000 kPa (3,626 psi)							
Controls	Pilot levers, short stroke, low e	ffort; hydraulic pilot controls with shutoff lever						
Cylinders								
Heat-treated, chrome-plated, polished	d cylinder rods; hardened steel (replacea	ble 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.)							
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)						
-	• •	,						

DASH-5

Underservice	
Undercarriage	
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	I6 600 Nm (I2,244 lbft.)
Boom Swing	
Left	60 deg.
Right	60 deg.
Ground Pressure	
450-mm (18 in.) Rubber Crawler Pads	4I.5 kPa (6.0 psi)
450-mm (18 in.) Continuous Rubber Belt	41.4 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	I20L (3I.7 gal.)
Cooling System	9.7L (2.6 gal.)
Engine Oil with Filter	I2.3L (3.2 gal.)
Hydraulic Tank	56L (15 gal.)
Hydraulic System	I03L (27 gal.)
Propel Gearbox (each)	I.2L (1.3 qt.)
Operating Weights	1.2E (1.9 yf.)
	(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
	(031 b.) Ducker, 2.12-III (011. II III.) AIIII, 1400-kg (0,104 b.) Gouinerweight, Fuil Fuel Tank, and 73-kg (105 b.) Operator
2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)	0720 / / (0.244 /)
Rubber Crawler Pads	8729 kg (19,244 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)	
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes	8729 kg (19,244 lb.) 8677 kg (19,130 lb.)
Rubber Crawler Pads2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)Triple Semi-Grouser Shoes2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.)	8677 kg (19,130 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes	
Rubber Crawler Pads2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)Triple Semi-Grouser Shoes2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.)Triple Semi-Grouser Shoes2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)	8677 kg (19,130 lb.) 8874 kg (19,564 lb.)
Rubber Crawler Pads2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)Triple Semi-Grouser Shoes2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.)Triple Semi-Grouser Shoes2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)Continuous Rubber Belt	8677 kg (19,130 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components	8677 kg (19,130 lb.) 8874 kg (19,564 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following)	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads 450-mm (18 in.) Continuous Rubber Belt	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Triple Semi-Grouser Shoes	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.) 2819 kg (6,215 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Triple Semi-Grouser Shoes 600-mm (24 in.) Triple Semi-Grouser Shoes	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.) 2819 kg (6,215 lb.) 2970 kg (6,548 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Triple Semi-Grouser Shoes 600-mm (24 in.) Triple Semi-Grouser Shoes I-Piece Boom (with arm cylinder)	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.) 2819 kg (6,215 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Triple Semi-Grouser Shoes 600-mm (24 in.) Triple Semi-Grouser Shoes I-Piece Boom (with arm cylinder) Arm with Bucket Cylinder and Linkage	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.) 2819 kg (6,215 lb.) 2970 kg (6,548 lb.) 491 kg (1,082 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Triple Semi-Grouser Shoes 600-mm (24 in.) Triple Semi-Grouser Shoes I-Piece Boom (with arm cylinder) Arm with Bucket Cylinder and Linkage 1.62 m (5 ft. 4 in.)	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.) 2819 kg (6,215 lb.) 2970 kg (6,548 lb.) 491 kg (1,082 lb.) 237 kg (522 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Triple Semi-Grouser Shoes 600-mm (24 in.) Triple Semi-Grouser Shoes 1-Piece Boom (with arm cylinder) Arm with Bucket Cylinder and Linkage 1.62 m (5 ft. 4 in.) 2.12 m (6 ft. 11 in.)	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.) 2819 kg (6,215 lb.) 2970 kg (6,548 lb.) 491 kg (1,082 lb.) 237 kg (522 lb.) 275 kg (606 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Triple Semi-Grouser Shoes 600-mm (24 in.) Triple Semi-Grouser Shoes I-Piece Boom (with arm cylinder) Arm with Bucket Cylinder and Linkage 1.62 m (5 ft. 4 in.)	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.) 2819 kg (6,215 lb.) 2970 kg (6,548 lb.) 491 kg (1,082 lb.) 237 kg (522 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Triple Semi-Grouser Shoes 600-mm (24 in.) Triple Semi-Grouser Shoes 1-Piece Boom (with arm cylinder) Arm with Bucket Cylinder and Linkage 1.62 m (5 ft. 4 in.) 2.12 m (6 ft. 11 in.)	8677 kg (19,130 lb.) 874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.) 2819 kg (6,215 lb.) 2970 kg (6,548 lb.) 491 kg (1,082 lb.) 237 kg (522 lb.) 275 kg (606 lb.) 89 kg (196 lb.)
Rubber Crawler Pads2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)Triple Semi-Grouser Shoes2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.)Triple Semi-Grouser Shoes2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.)Continuous Rubber BeltOptional ComponentsUndercarriage (with the following)450-mm (18 in.) Rubber Crawler Pads450-mm (18 in.) Continuous Rubber Belt450-mm (18 in.) Continuous Rubber Belt450-mm (18 in.) Triple Semi-Grouser Shoes600-mm (24 in.) Triple Semi-Grouser Shoes1-Piece Boom (with arm cylinder)Arm with Bucket Cylinder and Linkage1.62 m (5 ft. 4 in.)2.12 m (6 ft. 11 in.)Boom Lift Cylinders0.49-m³ (0.64 cu. yd.), 1219-mm (48 in.)Ditching Bucket	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.) 2819 kg (6,215 lb.) 2970 kg (6,548 lb.) 491 kg (1,082 lb.) 237 kg (522 lb.) 275 kg (606 lb.) 89 kg (196 lb.) 330 kg (728 lb.)
Rubber Crawler Pads 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Triple Semi-Grouser Shoes 2470-mm (8 ft. 1 in.) Blade and 600-mm (24 in.) Triple Semi-Grouser Shoes 2220-mm (7 ft. 3 in.) Blade and 450-mm (18 in.) Continuous Rubber Belt Optional Components Undercarriage (with the following) 450-mm (18 in.) Rubber Crawler Pads 450-mm (18 in.) Continuous Rubber Belt 450-mm (18 in.) Triple Semi-Grouser Shoes 600-mm (24 in.) Triple Semi-Grouser Shoes 1-Piece Boom (with arm cylinder) Arm with Bucket Cylinder and Linkage 1.62 m (5 ft. 4 in.) 2.12 m (6 ft. 11 in.) Boom Lift Cylinders 0.49-m ³ (0.64 cu. yd.), 1219-mm (48 in.)	8677 kg (19,130 lb.) 8874 kg (19,564 lb.) 8701 kg (19,182 lb.) 2871 kg (6,329 lb.) 2843 kg (6,268 lb.) 2819 kg (6,215 lb.) 2970 kg (6,548 lb.) 491 kg (1,082 lb.) 237 kg (522 lb.) 275 kg (606 lb.) 89 kg (196 lb.)

Operating Dimensions

		Arm Length 1.62 m (5 ft. 4 in.)	Arm Length 2.12 m (6 ft. 11 in.)
Ar	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.)
Α	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 (I5 ft. 8 in.)	5.08 m (16 ft. 8 in.)
E	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.)

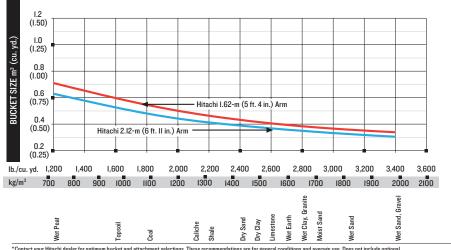


Machi	ine Dimensions		
		Arm Length	Arm Length
		1.62 m (5 ft. 4 in.)	2.12 m (6 ft. 11 in.)
A 0	verall Length	6.64 m (21 ft. 9 in.)	6.82 m (22 ft. 5 in.)
B 0	verall Height		
W	/ith 450-mm (18 in.) Rubber Crawler Pads	2.61 m (8 ft. 7 in.)	
W	/ith Steel Shoes	2.53 m (8 ft. 4 in.)	
C U	ndercarriage Width		
W	/ith 450-mm (18 in.) Shoes	2.20 m (7 ft. 3 in.)	
W	/ith 600-mm (24 in.) Shoes	2.47 m (8 ft. I in.)	
D R	ear-End Length/Swing Radius	1.49 m (4 ft. 11 in.)	
E Di	istance Between Idler/Sprocket Centerline	2.29 m (7 ft. 6 in.)	
F U	ndercarriage Length	2.92 m (9 ft. 7 in.)	
G C	ounterweight Clearance	0.72 m (28 in.)	
H Ca	ab Height	2.53 m (8 ft. 4 in.)	
I G	round Clearance	360 mm (14 in.)	
JU	pperstructure Width	2.32 m (7 ft. 7 in.)	
K Ga	auge Width	1.87 m (6 ft. 2 in.)	
L B	lade Lift Height	340 mm (13 in.)	
Blade	Height	460 mm (18 in.)	
Blade	Width		
W	/ith 450-mm (18 in.) Shoes	2200 mm (7 ft. 3 in.)	
W	/ith 600-mm (24 in.) Shoes	2470 mm (8 ft. I in.)	
M B	lade Cut Below Grade	320 mm (13 in.)	
N B	lade Lift Angle	26 deg.	
0 Tr	rack Width		
W	/ith 450-mm (18 in.) Shoes	0.45 m (18 in.)	
W	/ith 600-mm (24 in.) Shoes	0.60 m (24 in.)	
			Ţ́
			b



surface. Total load includes weight o Load Point Height	1.5 m (,	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
With 3.67-m (12 ft. 2 in.) boom, 1.62	-m (5 ft. 4 in.) arm, 0.28-m³ (0).37 cu. yd.) bucket, 45	iO-mm (18 in.) rubber pa	ds, and 2200-mm (7 ft.	3 in.) blade			
3.0 m (10 ft.)			3432	2887	2312	1580		
			(7,567)	(6,365)	(5,096)	(3,484)		
1.5 m (5 ft.)					2819	1481	2078	992
					(6,215)	(3,265)	(4,582)	(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)		
With 3.67-m (12 ft. 2 in.) boom, 2.12-	-m (6 ft. II in.) arm, 0.28-m³ (0	0.37 cu. yd.) bucket, 45	50-mm (18 in.) rubber pa	ds, and 2200-mm (7 ft.	3 in.) blade			
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)
I.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-m³ (0).37 cu. vd.) bucket. 60			blade			
3.0 m (IO ft.)			3432	2927	2312	1603		
			(7,567)	(6,453)	(5,096)	(3,535)		
I.5 m (5 ft.)			(1,001)	(0,400)	2819	1505	2078	1009
1.0 m (0 m.)					(6,215)	(3,317)	(4,582)	(2,224)
Ground Line			2434	2434	3047	1439	(4,002)	(2,224)
diound Line			(5,367)	(5,367)	(6,717)	(3,172)		
-1.5 m (-5 ft.)			4279	2543	2711	1433		
-1.5 III (-5 II.)			(9,433)	(5,606)	(5,976)	(3,160)		
With 2.67 m (12.ft 2 in) hoom 2.12	m (6 ft 11 in) orm 0.20 m ³ (0) 27 out und) buicket 60				(0,100)		
With 3.67-m (12 ft. 2 in.) boom, 2.12-	-m (6 m. ii in.) arm, 0.28-m ⁻ (0	J.37 cu. ya.) bucket, bu	JU-mm (24 in.) shoes, an	la 2470-mm (8 π. 1 m.)		1070		
4.5 m (15 ft.)					1735	1679		
0.0					(3,825)	(3,702)	(000	1000
3.0 m (IO ft.)					2044	1620	1809	1038
					(4,506)	(3,572)	(3,988)	(2,289)
l.5 m (5 ft.)					2619	1511	1968	1002
• • • • •			05	0.107	(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.)			3130	3130				
	(· · · ·)		(7,012)	(5,647)				
With 3.67-m (12 ft. 2 in.) boom, 2.12-	-m (6 ft. II in.) arm, less bucke	t, 450-mm (18 in.) con	tinuous rubber belt, and	2200-mm (7 ft. 3 in.) bl				
4.5 m (I5 ft.)					1728	1579		
					(3,810)	(3,480)		
3.0 m (10 ft.)					2050	1520	1805	971
					(4,520)	(3,350)	(3,980)	(2,140)
1.5 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															
A full line of buckets is o	ffered to meet a v	wide variety	of application	s. Replaceabl	e cutting edg	es are avail	able through I	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 Weight		Bucket Dig Force (ISO)		1.62 m (5 ft. 4 in.)		2.12 m (6 ft. 11 in.)		Bucket Tip 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
Heavy Duty	762	30	0.41	0.53	333	735	54	12,061	38	8,491	32	7,162	1087	42.80	6
Heavy Duty	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



*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

- Auto-idle system
- Batteries (2 I2 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
- Radiator and oil cooler with dust-protective net
- Glow-plug start aid
- 500-hour engine oil-change interval •
- 70% (35 deg.) off-level capacity

Isolation mounted **Hvdraulic 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
- 5,000-hour hydraulic-oil-change interval
- Auxiliary hydraulic lines
- Auxiliary pilot and electric controls
- 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
- 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.)

Upperstructure

- Counterweight, 1408 kg (3,104 lb.)
- **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-tobucket joint
- Arm, 1.62 m (5 ft. 4 in.)
- Arm, 2.12 m (6 ft. 11 in.)
- Attachment quick-couplers
- Buckets: Ditching / Heavy duty / Heavyduty 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, 12 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
- Large cup holder .
- Machine Information Center (MIC) •

ADDITIONAL EQUIPMENT

Key: • Standard A Optional or special

Operator's Station (continued)

- Mode selectors (illuminated): Power modes (2) / Travel modes (2 with automatic shift) / Work mode (1)
- Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, engine air cleaner restriction indicator light, engine check, engine coolant temperature indicator light with audible alarm, engine oil pressure indicator light with audible alarm, low-alternator-charge indicator light, low-fuel indicator light, 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 window
- Hot/cold beverage compartment .
- Seat belt, 76 mm (3 in.), non-retractable
- Protection screens for cab front, rear, and side ۸
- 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 (I0,000 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 unit with standard equipment; 0.31-m³ (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. 11 in.) arm; full fuel tank; and 75-kg (I65 lb.) operator; I408-kg (3,I04 lb.) counterweight.

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