ZX60USB-5N SPECIFICATIONS

HITACHI
Reliable Solutions

LANDCROS

ENGINE	
Model	Yanmar 4TNV98C
Type	4-cycle water-cooled, common rail direct injection
Aspiration	Natural
Aftertreatment	DPF
No. of cylinders	4
Rated power	
ISO 14396: Gross	57.6 hp (42.4 kW) at 2,000 rpm
ISO 9249: Net	53.8 hp (39.6 kW) at 2,000 rpm
Maximum torque	166.7 lbf-ft (226.0 Nm) at 1,300 min-1
Piston displacement	202 cu. in. (3.318 L)
Bore and stroke	3.9" x 4.3" (98 mm x 110 mm)
Batteries	1 x 12 V/92 Ah

HYDRAULIC SYSTEM	
Hydraulic Pumps	
Main pumps	Closed center load sensing with variable-displacment pump
Maximum oil flow	38.0 gpm (144 L/m)
Auxiliary flow	24.2gpm (90 L/min)
Auxiliary Pressure	2,495 psi (17.2 Mpa)
Hydraulic Motors	
Travel	2 variable displacement axial piston motors
Swing	1 axial piston motor
Relief Valve Settings	
Implement circuit	3,553.4 psi (24.5 MPa)
Swing circuit	2,842.7 psi (19.6 MPa)
Travel circuit	3,727.5 psi (25.7 MPa)
Pilot circuit	594.7 psi (4.1 MPa)

Hydraulic Cylinders — **Unit: in (mm)**

	Quantity	Bore	Rod diameter
Boom (Cab)	1	4.3" (110)	2.4" (60)
Arm	1	3.5" (90)	2.2" (55)
Bucket	1	3.1" (80)	2.0" (50)
Blade	1	4.7" (120)	2.8" (70)
Angle blade	1	2.8" (70)	1.6" (40)
Boom swing	1	3.7" (95)	2.2" (55)

UPPER STRUCTURE	
Revolving Frame	
D-section frame for resistance to deformation	
Swing Device	
Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single row. Swing parking brake is spring-set/hydraulic released disc type	
Swing speed	9.5 rpm
Swing torque	8,113.2 lbf-ft (11 kNm)
Max boom swing angle, left/right	80 degrees/60 degrees

UNDERCARRIAGE	
Tracks	
Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame	
Numbers of Rollers on Each Side	
Upper rollers	1
Lower rollers	4
Steel track (optional)	39
Travel Device	
Each track driven by 2-speed axial piston motor. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low	
Travel speeds	High: 0 to 3.0 mph (0 to 4.8 km/h)
	Low: 0 to 1.8 mph (0 to 2.9 km/h)
Maximum traction force	8,947.4 lbf (39.8 kN)
Gradeability	46.6% (25 degree) continuous

ENVIROMENT	
Engine Emissions	EPA Final Tier 4
Sound Level*	
Sound level in cab according to ISO 6396: 2008	*LpA 78.0 (right)/78.5 (left) dB(A)
External sound level according to ISO 6395: 2008	*LwA 100.3 dB(A)

SERVICE REFILL CAPACITIES	**Unit; gal (L)**
Fuel tank	31.7 (120.0)
Engine coolant	2.0 (7.7)
Engine oil	2.9 (11.2)
Travel device (each side)	0.2 (0.9)
Hydraulic system	28.4 (107.5)
Hydraulic oil tank	21.1 (80.0)

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WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

	Shoe width, in (mm)	Operating Weight lb (kg)	Ground Pressure psi (kPa)
*Rubber track, Cab, 6' 1" (1,850 mm) arm	16" (400 mm)	14,021 lb (6,340 kg)	5.4 psi (37.0 kPa)
**Steel track, Cab 6' 1" (1,850 mm) arm	16" (400 mm)	14,418 lb (6,540 kg)	5.4 psi (37.0 kPa)

*With 16" (400 mm) rubber track, 2,237 lb (1,015 kg) extra counterweight, full fuel tank, straight blade, 165 lb (79 kg) operator
**With 16" (400 mm) steel track, 1,642 lb (745kg) counterweight, full fuel tank, straight blade, 165 lb (79 kg) operator

Components Weight	Unit: lb (kg)
Counterweight	
Standard	1,642 (745)
Additional	595 (270)
Optional Angle Blade	1,010 (458)
Optional Angle Blade weight increase	683 (310)

BUCKET AND ARM DIGGING FORCE

Unit: lbf (kN)

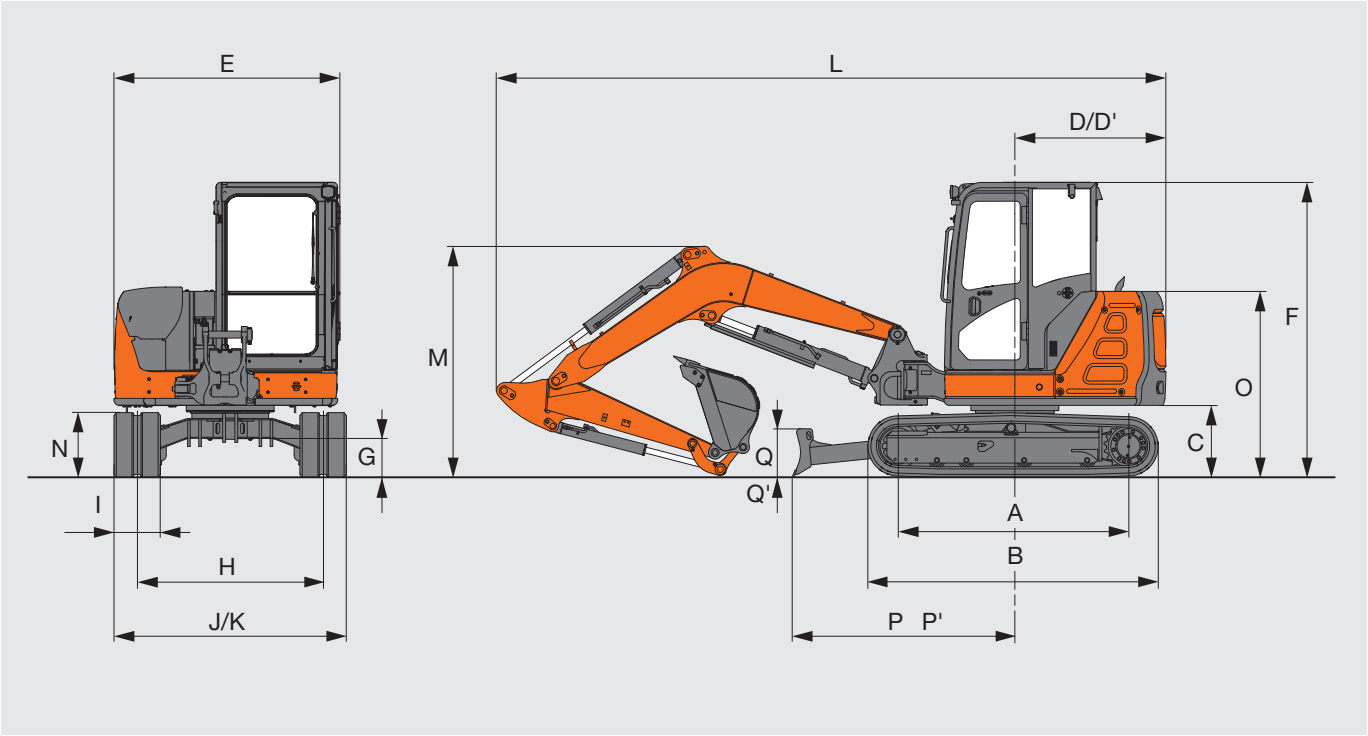
Arm length	6' 1" (1.850 m)
Arm crowd force* ISO 6015: 2006	6,063 (27.0)
Bucket digging force* ISO 6015: 2006	9,237 (41.1)

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DIMENSIONS



Unit: ft-in (mm)

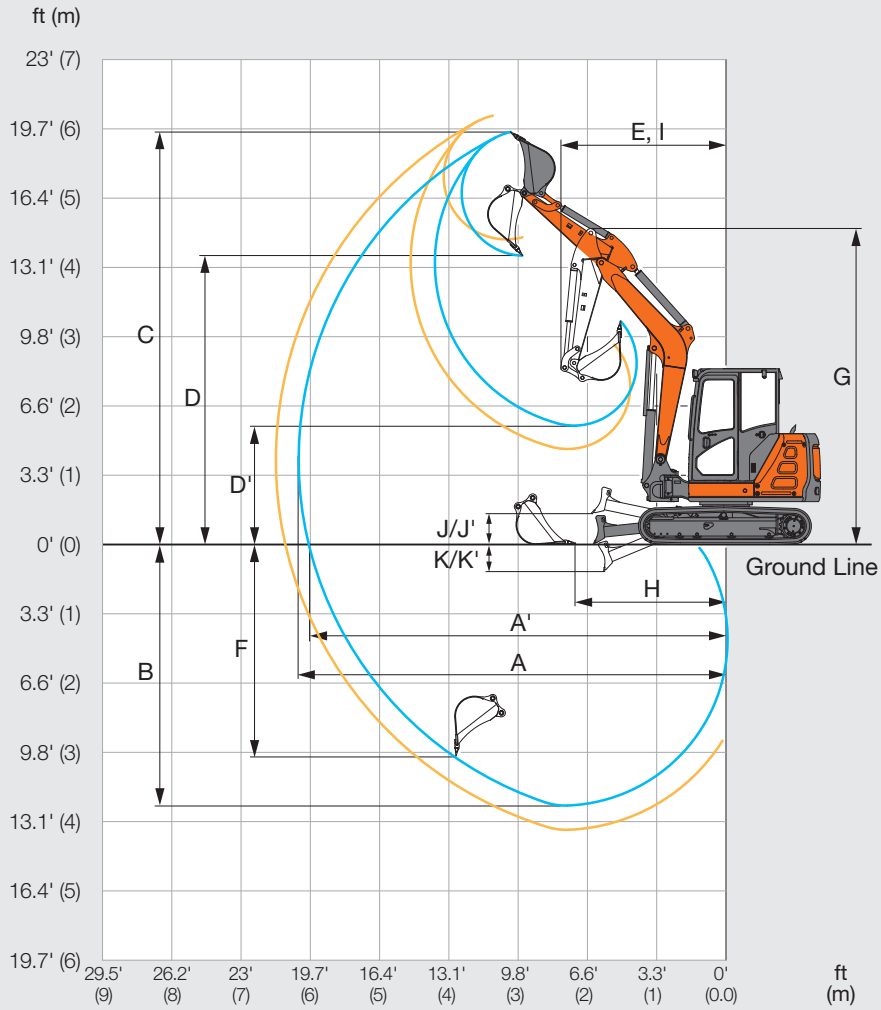
		ZX60USB-5N (Cab)
	Arm length	6' 1" (1,850)
A	Distance between tumblers	6' 6" (1,990)
B	Undercarriage length	8' 2" (2,500)
C	Counterweight clearance	2' 0" (620)
D	Rear-end swing radius	4' 8" (1,410)
D'	Rear-end length	4' 8" (1,410)
E	Overall width of upperstructure	6' 3" (1,930)
F	Overall height of cab	8' 4" (2,540)
G	Min. ground clearance	1' 1" (340)
H	Track gauge	5' 3" (1,600)
I	Track shoe width	16" (400)
J	Undercarriage width	6' 7" (2,000)
K	Overall width	6' 7" (2,000)
L	Overall length blade in front	19' 0" (5,790)
M	Overall height of boom	7' 1" (2,170)
N	Track height	1' 10" (560)
O	Engine cover height	5' 3" (1,600)
P	Horizontal distance to blade	6' 4" (1,920)
P'	Horizontal distance to angle blade	6' 7" (2,019)
Q	Blade height	1' 5" (420)
Q'	Angle blade height	1' 4" (408)

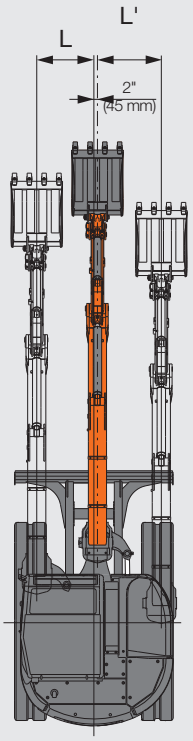
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WORKING RANGES



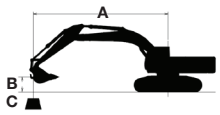


Unit: ft-in (mm)

		ZX60USB-5N (Cab)
	Arm length	6' 1" (1,850)
A	Max. digging reach	21' 6" (6,560)
A'	Max. digging reach (on ground)	21' 1" (6,420)
B	Max. digging depth	13' 6" (4,120)
C	Max. cutting height	20' 4" (6,190)
D	Max. dumping height	14' 6" (4,410)
D'	Min. dumping height	4' 6" (1,380)
E	Min. swing radius	8' 4" (2,540)
F	Max. vertical wall digging depth	11' 1" (3,390)
G	Front height at Min. swing radius	15' (4,560)
H	Min. level crowding distance	6' 7" (2,000)
I	Working radius at Min. swing radius (Max. boom-swing angle)	6' 9" (2,060)
J	Blade bottom highest position	1' 6" (450)
K	Blade bottom lowest position	1' 3" (390)
J'	Angle blade bottom highest position	1' 5" (424)
K'	Angle blade bottom lowest position	1' 6" (450)
L/L'	Offset distance, left/right	2'4" (720)/2'9" (850)

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LIFTING CAPACITIES
ZX60USB-5N



A: Load radius
B: Load point height
C: Machine capacity

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in lb (kg). Machine equipped with 6' 7" (2000 mm) blade and 16" (400 mm) track; lifting measurement from center of arm to bucket pin; 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).

Rating over-front, Rating over-side or 360 degrees Unit: lb (kg

ZX60USB-5N								
	Rubber Track and Standard Counterweight		Steel Track and Standard Counterweight		Rubber Track and Extra Counterweight		Steel Track and Extra Counterweight	
Ground level at 9' 10" (3 m) radius	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**
6' 1" (1,850 mm) Long Arm and Cab	**8,400 (3,810)**	3,260 (1,480)	**8,400 (3,810)**	3,310 (1,500)	**8,400 (3,810)**	3,700 (1,680)	**8,400 (3,810)**	3,750 (1,700)
Ground level at 13' 2" (4 m) radius	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**
6' 1" (1,850 mm) Long Arm and Cab	**5,470 (2,480)**	2,180 (990)	**5,470 (2,480)**	2,230 (1,010)	**5,470 (2,480)**	2,490 (1,130)	**5,470 (2,480)**	2,540 (1,150)
Ground level at 16' 5" (5 m) radius	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**
6' 1" (1,850 mm) Long Arm and Cab	**4,120 (1,870)**	1,610 (730)	**4,120 (1,870)**	1,630 (740)	**4,120 (1,870)**	1,830 (830)	**4,120 (1,870)**	1,870 (850)

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EQUIPMENT

ZX60USB-5N

●: Standard equipment ○: Optional equipment

ENGINE	ZX60USB-5N
Yanmar 4TNV98C 202 cu. in. (3.318 L)	●
ISO 9249: 53.8 hp (39.6 kW) at 2,000 rpm	●
ISO 14396: 57.6 hp (42.4 kW) at 2,000 rpm	●
55 amp alternator, 12 volt	●
Antifreeze	●
Certified to EPA Tier 4 Final	●
Electric fuel shutoff	●
Fan guard	●
Fuel filter & water separator	●
Full flow oil filter	●
Isolation mounted	●
Low maintenance battery	●
Single dry-type air filter	●
Under hood muffler	●
DPF	●

HYDRAULIC SYSTEM	ZX60USB-5N
NEW 2nd auxiliary hydraulic coupler piping	○
NEW Auxiliary flow rate changer (5-stage)	●
Auxiliary function control and right hand pilot lever	●
NEW Auxiliary hydraulic diverter for breaker or thumb on arm to arm	●
Auxiliary valve section	●
Axial plunger swing motor	●
Boom swing foot control	●
Closed-center, load sensing with one variable displacement pump	●
Excavator to backhoe control pattern change	●
Full flow oil filter	●
Hydraulic pilot controls for boom, arm, bucket, swing, blade and propel	●
NEW Pilot accumulator	○
NEW Quick coupler piping	○
Wet disk swing brake	●

UNDERCARRIAGE	ZX60USB-5N
16" (400 mm) rubber track	●
16" (400 mm) steel track	○
16" (400 mm) rubber pad track	○
Angle blade	○
Axial plunger propel motor	●
Backfill blade 6' 7" (2.0 m)	●
NEW Blade float (not available for Angle blade)	●
Planetary final drive	●
Propel motor shield	●
Two speed travel with automatic shifting	●

UPPER STRUCTURE	ZX60USB-5N
360 degree upper structure rotation	●
NEW Battery disconnect switch	●
Counterweight; 1,642 lb (745 kg)	●
Additional Counterweight; 595 lb (270 kg)	●
Independent boom swing (80 degree left and 60 degree right rotation)	●
ROPS/OPG/FOPS cab with air conditioning and heater	●
Tool box	●
Vandal locks for service doors	●
NEW LED work light	
One mounted on boom	●
One mounted on canopy (cab)	●

FRONT ATTACHMENTS	ZX60USB-5N
Boom 9' 9" (2.97 m)	●
Arm 6' 1" (1.85 m)	●
Mechanical quick coupler	●
NEW Seatscrew for quick coupler piping	●

QUICK LINKS	ZX60USB-5N
Website's Product Page	

OPERATOR'S STATION	ZX60USB-5N
12 Volt outlet	●
NEW 3 in. retractable seat belt	●
Air Conditioning and heater	●
NEW Blade lever with High & Low travel switch	●
NEW CAB front window power assist dampener (CAB only)	○
Cupholder	●
Electronic throttle control with auto idle	●
Foldable propel pedals and levers	●
Horn	●
Instrumentation lights	●
Monitor system with:	
Alternator voltage indicator	●
Auto idle indicator	●
Auto shut-down indicator	●
Clock	●
Diagnostic capability	●
Engine coolant temperature gauge and indicator"	●
Engine oil pressure indicator	●
Engine preheat indicator	●
Fuel gauge and level indicator	●
Hour meter	●
Muffler filter indicator	●
Power/Economy mode	●
System monitoring capability	●
Travel mode indicator	●
Work lights indicator	●
Motion alarm with cancel switch	●
Operator manual storage in back of seat	●
Suspension seat	●
NEW Telematics	●
Two travel modes with automatic shifting and speed selection switch	●
NEW USB power outlet (CAB only)	○
Work lights switch	●

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