

ZX30U-5N

SPECIFICATIONS

HITACHI

Reliable Solutions

LANDCROS

ENGINE	
Model	Yanmar 3TNV88F
Type	4-cycle water-cooled, vertical in-line, direct injection
Aspiration	Natural
Aftertreatment	—
No. of cylinders	3
Rated power	
ISO 14396: Gross	24.7 hp (18.2 kW) at 2,400 rpm
ISO 9249: Net	23.7 hp (17.4 kW) at 2,400 rpm
Maximum torque	66.5 lbf-ft (90.2 Nm) at 1,300 min-1
Piston displacement	100.2 cu. in. (1.642 L)
Bore and stroke	3.5" x 3.5" (88 mm x 90 mm)
Batteries	1 x 12 V/55 Ah

HYDRAULIC SYSTEM			
Hydraulic Pumps			
Main pumps	Open center, pilot operated, with 2 variable-displacement pumps, 1 single gear pump		
Maximum oil flow	2 x 10.1 gpm (2 x 38.4 L/m)		
Gear pump	6.0 gpm (22.8 L/min)		
Auxiliary flow	16.2 gpm (61.2 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	2,697.7 psi (18.6 MPa)		
Travel circuit	3,553.4 psi (24.5 MPa)		
Pilot circuit	594.7 psi (4.1 MPa)		
Hydraulic Cylinders			
	Quantity	Bore	Rod diameter
Boom (Canopy)	1	3.3" (85)	2.0" (50)
Boom (Cab)	1	3.3" (85)	2.0" (50)
Arm	1	3.0" (75)	1.8" (45)
Bucket	1	2.6" (65)	1.6" (40)
Blade	1	3.5" (90)	2.0" (50)
Boom swing	1	3.3" (85)	1.8" (45)

Unit: in (mm)

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	9.1 rpm
Swing torque	3,761.6 lbf-ft (5.1 kNm)
Max boom swing angle (Canopy), left/right	72 degrees / 62 degrees
Max boom swing angle (Cab), left/right	62 degrees / 62 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
Travel Device	
Each track driven by a 2-speed axial piston motor. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low	
Travel speeds	High: 0 to 2.7 mph (0 to 4.8 km/h)
	Low: 0 to 1.7 mph (0 to 2.8 km/h)
Maximum traction force	6,069.9 lbf (27.0kN)
Gradeability	58% (30 degree) continuous

ENVIRONMENT	
Engine Emissions	EPA Final Tier 4
Sound Level*	
Sound level in canopy according to ISO 6396: 2008	*LpA 78.0 (right) / 75.4 (left) dB(A)
Sound level in cab according to ISO 6396: 2008	*LpA 70.4 (right) / 70.2 (left) dB(A)
External sound level according to ISO 6395: 2008	*LwA 95.5 (cab) dB(A)

*Since sound level test on ZX30U-5N is not measured, ZX35U-5N sound level is indicated for the reference purpose.

SERVICE REFILL CAPACITIES	
	Unit: gal (L)
Fuel tank	11.1 (42.0)
Engine coolant	1.0 (3.9)
Engine oil	1.9 (7.2)
Travel device (each side)	0.2 (0.6)
Hydraulic system	11.4 (43.0)
Hydraulic oil tank	8.5 (32.0)

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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 and Canopy	12" (300 mm)	6,680 lb (3,030 kg)	4.1 psi (28.0 kPa)
*Rubber track and Cab	12" (300 mm)	7,055 lb (3,200 kg)	4.4 psi (30.0 kPa)

*With 723 lb (328 kg) counterweight, Standard front attachment, Rubber track, Full fuel tank and 165 lb (75 kg) Operator

Unit: lb (kg)

Components Weight

Counterweight; Standard	723 lb (328 kg)
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BUCKET AND ARM DIGGING FORCE

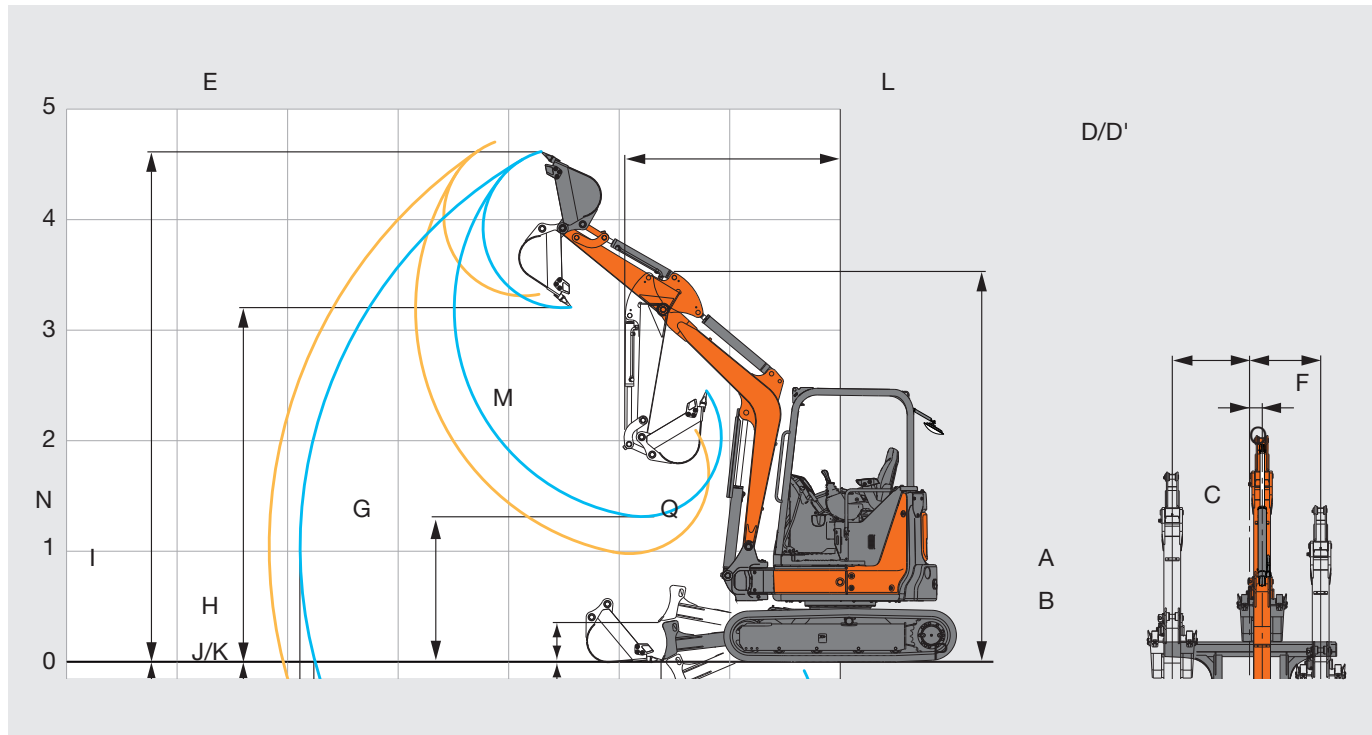
Unit: lb (kg)

Arm length	3' 10" (1.17 m)
Arm crowd force* ISO 6015: 2006	3,790 (17.0)
Bucket digging force* ISO 6015: 2006	6,110 (27.0)

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DIMENSIONS



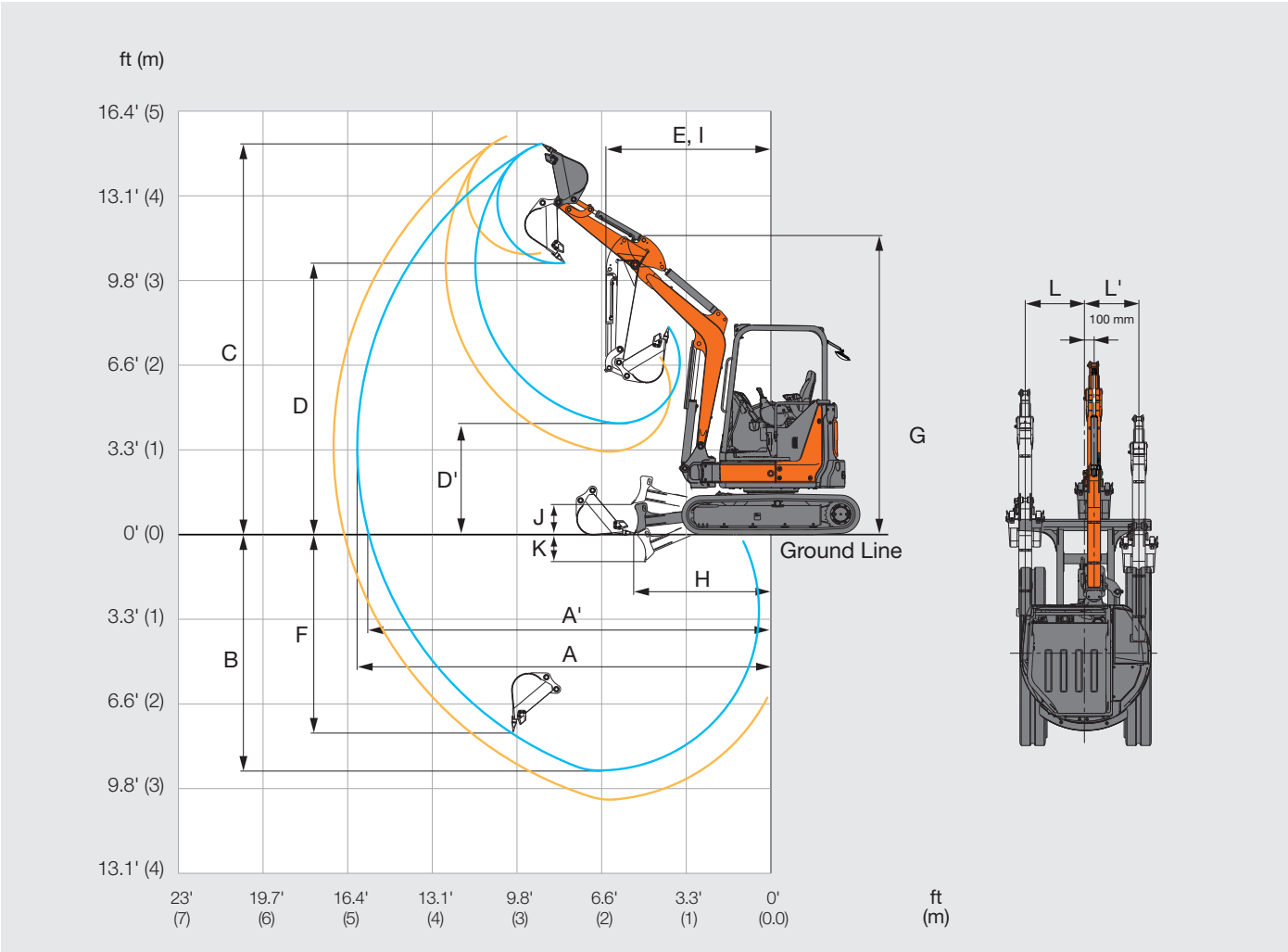
Unit: ft-in (mm)

		ZX30U-5N (Canopy)	ZX30U-5N (Cab)
A	Distance between tumblers	5' 5" (1,660)	5' 5" (1,660)
B	Undercarriage length	6' 11" (2,110)	6' 11" (2,110)
C	Counterweight clearance	1' 10" (550)	1' 10" (550)
D	Rear-end swing radius	2' 7" (775)	2' 7" (775)
D'	Rear-end length	2' 7" (775)	2' 7" (775)
E	Overall width of upperstructure	5' 1" (1,550)	5' 1" (1,550)
F	Overall height of canopy/cab	8' 2" (2,480)	8' 2" (2,480)
G	Min. ground clearance	11" (280)	11" (280)
H	Track gauge	4' 1" (1,250)	4' 1" (1,250)
I	Track shoe width	12" (300)	12" (300)
J	Undercarriage width	5' 1" (1,550)	5' 1" (1,550)
K	Overall width	5' 1" (1,550)	5' 1" (1,550)
L	Overall length blade in front	14' 7" (4,450)	14' 7" (4,450)
M	Overall height of boom	4' 11" (1,510)	4' 11" (1,510)
N	Track height	1' 7" (480)	1' 7" (480)
O	Engine cover height	5' 0" (1,530)	5' 0" (1,530)
P	Horizontal distance to blade	5' 4" (1,620)	5' 4" (1,620)
Q	Blade height	1' 2" (360)	1' 2" (360)

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WORKING RANGES



Unit: ft-in (mm)

		ZX30U-5N (Canopy)	ZX30U-5N (Cab)
Arm length		3' 10" (1,170)	3' 10" (1,170)
A	Max. digging reach	16' 1" (4,890)	16' 1" (4,890)
A'	Max. digging reach (on ground)	15' 7" (4,750)	15' 7" (4,750)
B	Max. digging depth	9' 2" (2,790)	9' 2" (2,790)
C	Max. cutting height	15' 2" (4,620)	14' 6" (4,420)
D	Max. dumping height	10' 6" (3,200)	9' 11" (3,030)
D'	Min. dumping height	4' 4" (1,310)	4' 0" (1,220)
E	Min. swing radius	6' 6" (1,970)	7' 1" (2,150)
F	Max. vertical wall digging depth	7' 8" (2,330)	7' 8" (2,330)
G	Front height at Min. swing radius	11' 7" (3,530)	11' 3" (3,440)
H	Min. level crowding distance	5' 3" (1,610)	5' 3" (1,610)
I	Working radius at Min. swing radius (Max. boom-swing angle)	5' 2" (1,580)	6' (1,820)
J	Blade bottom highest position	1' 2" (360)	1' 2" (360)
K	Blade bottom lowest position	1' 1" (320)	1' 1" (320)
L/L'	Offset distance, left/right	2' (610)/2' 5" (735)	2' (610)/2' 4" (700)

LIFTING CAPACITIES

ZX30U-5N



Rating over-front, Rating over-side or 360 degrees Unit: lb (kg)				
ZX30U-5N	3' 10" (1.17 m) Standard Arm, Standard Counterweight, and Rubber Track			
	Canopy		Cab	
	Over Front*	Over Front*	Over Front*	Over Front*
Ground Level at 10' (3.0 m) Radius	3,170 lb (1,440 kg)	1,050 lb (480 kg)	3,170 lb (1,440 kg)	1,124 lb (510 kg)

*Blade down (limited by hydraulics).

EQUIPMENT

ZX30U-5N

●: Standard equipment ○: Optional equipment


ENGINE	ZX30U-5N
Yanmar 3TNV88F 100.2 cu. in. (1.642 l)	●
ISO 9249: 23.7 hp (17.4 kW) at 2,400 rpm	●
ISO 14396: 24.7 hp (18.2 kW) at 2,400 rpm	●
40 amp alternator, 12 volt	●
Antifreeze	●
Certified to EPA Tier 4 Final	●
Direct injection	●
Electric fuel shutoff	●
Fan guard	●
Fuel filter & water separator	●
Isolation mounted	●
Low maintenance battery	●
Single dry-type air filter	●
Under hood muffler	●

HYDRAULIC SYSTEM	ZX30U-5N
NEW 2nd auxiliary hydraulic coupler piping	○
NEW Auxiliary flow rate changer, high and low	●
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	●
Excavator to backhoe control pattern change	●
Full flow oil filter	●
Hydraulic pilot controls for boom, arm, bucket, swing, blade and propel	●
Open center with two variable displacement pumps and one fixed gear pump	●
NEW Quick coupler piping	○
Wet disk swing brake	●

UNDERCARRIAGE	ZX30U-5N
12" (300 mm) rubber track	●
Backfill blade 5' 2" (1.55 m)	●
NEW Blade float	●
Axial plunger propel motor	●
Planetary final drive	●
Propel motor shield	●
Two speed travel with automatic shifting	●

UPPER STRUCTURE	ZX30U-5N
360 degree upper structure rotation	●
NEW Battery disconnect switch	●
Counterweight; 723 lb (328 kg)	●
Independent boom swing (72 degrees left and 62 degrees right rotation for canopy) (62 degrees left and 62 degrees right rotation for cab)	●
ROPS/OPG/FOPS Canopy	●
ROPS/OPG/FOPS cab with air conditioning and heater	○
Vandal locks for service doors	●
NEW LED work light	
One mounted on boom	●
One mounted on canopy (cab)	●
Zero swing configuration	●

FRONT ATTACHMENTS	ZX30U-5N
Boom 7' 6" (2.28 m)	●
Arm 3' 10" (1.17 m)	●
Mechanical quick coupler	●
NEW Seatscrew for quick coupler piping	●

QUICK LINKS	ZX30U-5N
Website's Product Page	

OPERATOR'S STATION	ZX30U-5N
12 Volt outlet	●
NEW 3 in. retractable seat belt	●
Air conditioner for cab	○
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 warning indicator	●
Auto idle indicator	●
Auto shut-down indicator	●
Clock	●
Diagnostic capability	●
Engine coolant temperature gauge and indicator	●
Engine oil pressure indicator	●
Engine preheat indicator and alarm	●
Fuel gauge with low fuel indicator	●
Hour meter	●
Power/Economy mode	●
System monitoring capability	●
Travel mode indicator	●
Work lights indicator	●
Motion alarm with cancel switch	●
Operator manual storage in back of seat	●
Seat with fore/aft adjustment	●
NEW Telematics	●
Two travel modes with automatic shifting and speed selection switch	●
NEW USB power outlet (CAB only)	●
Work lights switch	●