ZX35U-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 fixed-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

Unit: in (mm)

	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)
Angle blade	1	2.4" (60)	1.4" (35)
Boom swing	1	3.3" (85)	1.8" (45)

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	9.0 rpm
Swing torque	4,425.4 lbf-ft (6.0 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
Steel track (optional)	44

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 (27.0 kN)
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)

SERVICE REFILL CAPACITIES

Unit; gal (L)

Fuel tank	11.1 (42.0)
Engine coolant	1.3 (5.0)
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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SPECIFICATIONS

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WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

Shoe type and arm length	Shoe width, in (mm)	Operating Weight lb (kg)	Ground Pressure psi (kPa)
*Rubber track, Canopy 4' 4" (1,315 mm) arm	12" (300 mm)	7,584 lb (3,440 kg)	4.6 psi (32.0 kPa)
*Rubber track, Cab 4' 4" (1,315 mm) arm	12" (300 mm)	7,959 lb (3,610 kg)	4.8 psi (33.0 kPa)
**Rubber track, Canopy 5' 8" (1,715 mm) arm	12" (300 mm)	8,157 lb (3,700 kg)	4.9 psi (33.7 kPa)
**Rubber track, Cab 5' 8" (1,715 mm) arm	12" (300 mm)	8,532 lb (3,870 kg)	5.1 psi (35.2 kPa)
*Steel track, Canopy 4' 4" (1,315 mm) arm	12" (300 mm)	8,069 lb (3,660 kg)	4.8 psi (33.0 kPa)
*Steel track, Cab 4' 4" (1,315 mm) arm	12" (300 mm)	8,444 lb (3,830 kg)	4.9 psi (34.0 kPa)
**Steel track, Canopy 5' 8" (1,715 mm) arm	12" (300 mm)	8,642 lb (3,920 kg)	5.1 psi (35.0 kPa)
**Steel track, Cab 5' 8" (1,715 mm) arm	12" (300 mm)	9,017 lb (4,090 kg)	5.4 psi (37.0 kPa)

*With full fuel tank, standard counterweight, 175 lb (79 kg) operator
**With full fuel tank, extra counterweight, 175 lb (79 kg) operator

Components Weight

Unit: lb (kg)

Counterweight	
Standard	1,190 (540)
Additional	529 (240)
Optional Angle Blade	653 (296)
Optional Angle Blade weight increase	573 (260)

BUCKET AND ARM DIGGING FORCE

Unit: lbf (kN)

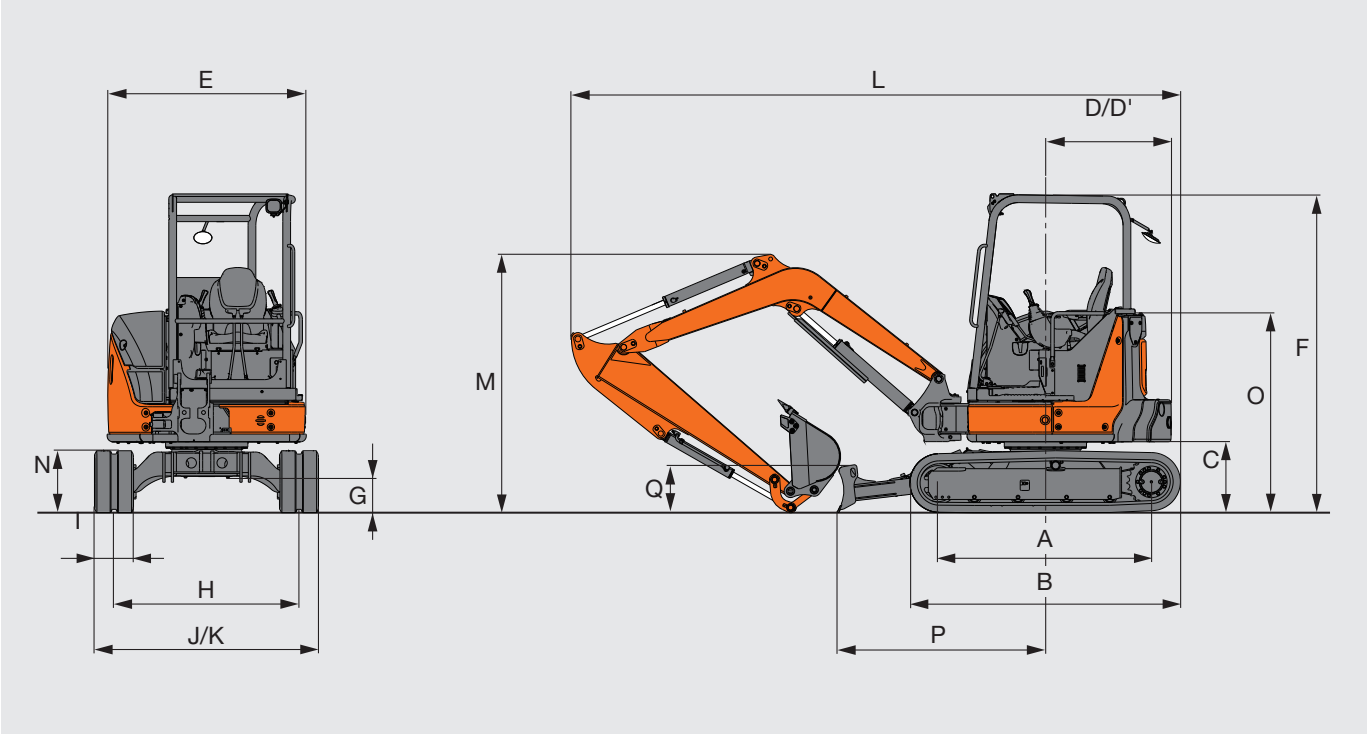
Arm length	4' 4" (1.315 m)	5' 8" (1.715 m)
Arm crowd force* ISO 6015: 2006	4,277 (19.0)	3,792 (16.9)
Bucket digging force* ISO 6015: 2006	6,085 (27.1)	6,085 (27.1)

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SPECIFICATIONS

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DIMENSIONS



Unit: ft-in (mm)

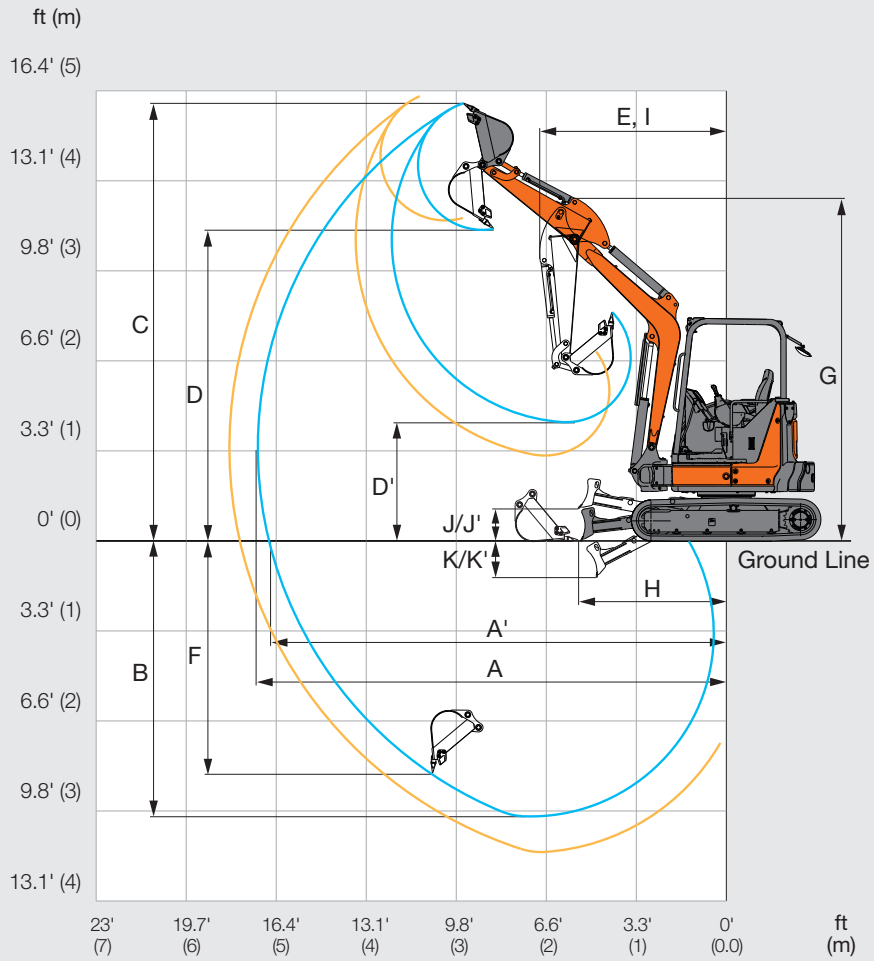
		ZX35U-5N (Canopy)	ZX35U-5N (Canopy)	ZX35U-5N (Cab)	ZX35U-5N (Cab)
	Arm length	4' 4" (1,315)	5' 8" (1,715)	4' 4" (1,315)	5' 8" (1,715)
A	Distance between tumblers	5' 5" (1,660)	5' 5" (1,660)	5' 5" (1,660)	5' 5" (1,660)
B	Undercarriage length	6' 11" (2,110)	6' 11" (2,110)	6' 11" (2,110)	6' 11" (2,110)
C	Counterweight clearance	1' 10" (550)	1' 10" (550)	1' 10" (550)	1' 10" (550)
D	Rear-end swing radius	2' 10" (870)	3' 33" (980)	2' 10" (870)	3' 33" (980)
D'	Rear-end length	2' 10" (870)	3' 33" (980)	2' 10" (870)	3' 33" (980)
E	Overall width of upperstructure	5' 1" (1,550)	5' 1" (1,550)	5' 1" (1,550)	5' 1" (1,550)
F	Overall height of canopy/cab	8' 2" (2,480)	8' 2" (2,480)	8' 2" (2,480)	8' 2" (2,480)
G	Min. ground clearance	0" 11" (280)	0" 11" (280)	0" 11" (280)	0" 11" (280)
H	Track gauge	4' 9" (1,440)	4' 9" (1,440)	4' 9" (1,440)	4' 9" (1,440)
I	Track shoe width	12" (300)	12" (300)	12" (300)	12" (300)
J	Undercarriage width	5' 9" (1,740)	5' 9" (1,740)	5' 9" (1,740)	5' 9" (1,740)
K	Overall width	5' 9" (1,740)	5' 9" (1,740)	5' 9" (1,740)	5' 9" (1,740)
L	Overall length blade in front	15' 3" (4,640)	15' 6" (4,760)	15' 3" (4,640)	15' 6" (4,760)
M	Overall height of boom	5' 0" (1,530)	6' 6" (1,990)	5' 0" (1,530)	6' 6" (1,990)
N	Track height	1' 7" (480)	1' 7" (480)	1' 7" (480)	1' 7" (480)
O	Engine cover height	5' 0" (1,530)	5' 0" (1,530)	5' 0" (1,530)	5' 0" (1,530)
P	Horizontal distance to blade	5' 4" (1,620)	5' 4" (1,620)	5' 4" (1,620)	5' 4" (1,620)
P'	Horizontal distance to angle blade	5' 9" (1,750)	5' 9" (1,750)	5' 9" (1,750)	5' 9" (1,750)
Q	Blade height	1' 2" (360)	1' 2" (360)	1' 2" (360)	1' 2" (360)
Q'	Angle blade height	1' 2" (362)	1' 2" (362)	1' 2" (362)	1' 2" (362)

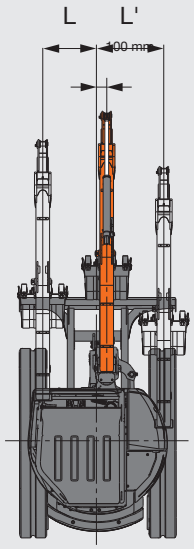
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SPECIFICATIONS

ZX35U-5N

WORKING RANGES





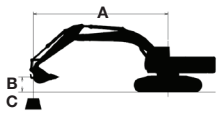
Unit: ft-in (mm)

		ZX35U-5N (Canopy)	ZX35U-5N (Canopy)	ZX35U-5N (Cab)	ZX35U-5N (Cab)
Arm length		4' 4" (1,315)	5' 8" (1,715)	4' 4" (1,315)	5' 8" (1,715)
A	Max. digging reach	17' 1" (5,210)	18' 1" (5,520)	17' 1" (5,210)	18' 1" (5,520)
A'	Max. digging reach (on ground)	16' 8" (5,080)	17' 9" (5,410)	16' 8" (5,080)	17' 9" (5,410)
B	Max. digging depth	10' 0" (3,060)	11' 4" (3,460)	10' 0" (3,060)	11' 4" (3,460)
C	Max. cutting height	15' 11" (4,870)	16' 3" (4,950)	15' 5" (4,700)	15' 7" (4,740)
D	Max. dumping height	11' 4" (3,460)	11' 9" (3,570)	10' 10" (3,310)	11' 1' (3,390)
D'	Min. dumping height	4' 4" (1,320)	3' 1" (950)	4' 1" (1,250)	2' 10" (860)
E	Min. swing radius	6' 10" (2,080)	7' 2" (2,190)	7' 4" (2,240)	7' 7" (2,300)
F	Max. vertical wall digging depth	8' 6" (2,580)	9' 1" (2,780)	8' 6" (2,580)	9' 1" (2,780)
G	Front height at Min. swing radius	12' 2" (3,720)	12' 4" (3,760)	11' 11" (3,640)	12' 1" (3,680)
H	Min. level crowding distance	5' 3" (1,610)	5' 2" (1,570)	5' 3" (1,610)	5' 2" (1,570)
I	Working radius at Min. swing radius (Max. boom-swing angle)	5' 6" (1,670)	5' 10" (1,770)	6' 3" (1,910)	6' 6" (1,970)
J	Blade bottom highest position	1' 2" (360)	1' 2" (360)	1' 2" (360)	1' 2" (360)
K	Blade bottom lowest position	1' 4" (400)	1' 4" (400)	1' 4" (400)	1' 4" (400)
J'	Angle blade bottom highest position	1' 3" (390)	1' 3" (390)	1' 3" (390)	1' 3" (390)
K'	Angle blade bottom lowest position	1' 6" (460)	1' 6" (460)	1' 6" (460)	1' 6" (460)
L/L'	Offset distance, left/right	2' (610)/2' 5" (735)	2' (610))/2' 5" (735)	2' (610))/2' 4" (700)	2' (610)/2' 4" (700)

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LIFTING CAPACITIES

ZX35U-5N



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

3' 10" (1.17 m) Standard Arm, Standard Counterweight, and Rubber Track
Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in lb (kg). Machine equipped with 5' 9" (1,740 mm) blade and 12" (300 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.

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

ZX35U-5N								
	Rubber Track and Standard Counterweight		**Steel Track and Standard Counterweight**		**Rubber Track and Extra Counterweight**		**Steel Track and Extra Counterweight**	
Ground level at 5' (1.52) radius	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**
4' 4" (1,315 mm) Standard Arm and Cab								
5' 8" (1,715 mm) Long Arm and Cab	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**
4' 4" (1,315 mm) Standard Arm and Canopy								
5' 8" (1,715 mm) Long Arm and Canopy	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**	**1,812 (822)**
Ground level at 10' (3.05 m) radius	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**
4' 4" (1,315 mm) Standard Arm and Cab	**3,453 (1,566)**	1,506 (683)	**3,453 (1,566)**	1,577 (715)	**3,453 (1,566)**	1,780 (807)	**3,453 (1,566)**	1,852 (840)
5' 8" (1,715 mm) Long Arm and Cab	**3,307 (1,500)**	1,481 (672)	**3,307 (1,500)**	1,553 (704)	**3,307 (1,500)**	1,756 (797)	**3,307 (1,500)**	1,827 (829)
4' 4" (1,315 mm) Standard Arm and Canopy	**3,453 (1,566)**	1,412 (640)	**3,453 (1,566)**	1,484 (673)	**3,453 (1,566)**	1,686 (765)	**3,453 (1,566)**	1,758 (797)
5' 8" (1,715 mm) Long Arm and Canopy	**3,307 (1,500)**	1,388 (630)	**3,307 (1,500)**	1,460 (662)	**3,307 (1,500)**	1,662 (754)	**3,307 (1,500)**	1,734 (787)
Ground level at 15' (4.57 m) radius	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**	**Over Front**	**Over Side**
4' 4" (1,315 mm) Standard Arm and Cab								
5' 8" (1,715 mm) Long Arm and Cab	**1,976 (896)**	835 (379)	**1,976 (896)**	878 (398)	**1,976 (896)**	1,000 (454)	**1,976 (896)**	1,043 (473)
4' 4" (1,315 mm) Standard Arm and Canopy								
5' 8" (1,715 mm) Long Arm and Canopy	**1,976 (896)**	779 (353)	**1,976 (896)**	822 (373)	**1,976 (896)**	944 (428)	**1,976 (896)**	987 (448)

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EQUIPMENT

ZX35U-5N

●: Standard equipment ○: Optional equipment

ENGINE	ZX35U-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	ZX35U-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	ZX35U-5N
12" (300 mm) rubber track	●
12" (300 mm) steel track	○
12" (300 mm) rubber pad track	○
Angle blade	○
Axial plunger propel motor	●
Backfill blade 5' 8" (1.74 m)	●
NEW Blade float	●
Planetary final drive	●
Propel motor shield	●
Two speed travel with automatic shifting	●

UPPER STRUCTURE	ZX35U-5N
360 degree upper structure rotation	●
NEW Battery disconnect switch	●
Counterweight; 1,190 lb (540 kg)	●
Additional Counterweight; 529 lb (240 kg)	○
Independent boom swing (72 degree left and 62 degree right rotation for canopy) (62 degree left and 62 degree 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	ZX35U-5N
Boom 8' 1" (2.47 m)	●
Arm 4' 4" (1.32 m)	○
Arm 5' 8" (1.72 m)	●
Mechanical quick coupler	●
NEW Seatscrew for quick coupler piping	●

QUICK LINKS	ZX35U-5N
Website's Product Page	

OPERATOR'S STATION	ZX35U-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	●

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