R35Z-9A Motor YANMAR STNV88F

ENGINE

MODEL			YANMAR 3TNV88F
Туре			Water-cooled, 4-cycle diesel
			3 cylinders in line,
			direct injection, low emission
Rated	SAE	J1995 (gross)	24.4 HP (18.2 kW) at 2,200 rpm
flywheel SAE horsepower	J1349 (net)	23.7 HP (17.7 kW) at 2,200 rpm	
Max. torque			9.1 kgf·m (79 lbf·ft) at 1,320 rpm
Bore X stroke			88 mm (3.46") x 90 mm (3.54")
Piston displacement		t	1,642 cc (100 in³)
Battery			1 x 12V x 70 Ah
Starting motor			12 V - 2.3 kW
Alternator			12 V - 55 Amp

HYDRAULIC SYSTEM

	MAIN PUMP		
	Туре	Variable displacement piston pumps + gear pump	
Max. flow		2 x 37.4 ℓ/min (2 x 9.9 gpm) + 23.1 ℓ/min (6.1 gpm) at 2,200 rpm	
	Sub-pump for pilot circuit (Gear Pump)	23.1 / 9.9 l/min (6.1 / 2.6 gpm)	

CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

HYDRAULIC	MOTORS

Travel	Two-speed axial piston motor with counter balance valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING

Implement circuits	230 kgf/cm² (3,560 psi)
Travel circuit	230 kgf/cm² (3,270 psi)
Swing circuit	200 kgf/cm² (2,845 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

	Boom: 85 x 540 mm (3.3" x 21.3")
No. of a diameter	Arm: 80 x 585 mm (3.1" x 23.0")
No. of cylinders bore X stroke	Bucket: 70 X 510 mm (2.8" x 20.1")
	Boom swing: 80 X 400 mm (3.1" x 15.7")
	Dozer blade: 95 X 152 mm (3.7" x 6.0")

Net Power 23.7 hp (17.7 kW) at 2,200 rpm Bucket Breakout Force (ISO) 3,130 kgf / 6,900 lbf **Operating Weight** (cab / canopy) 3,840 kg (8,470 lb) / 3,550 kg (7,800 lb)

Arm Digging Force (ISO) 1,990 kgf / 4,390 lbf

TRAVEL SYSTEM

Drive method	Full hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	2-stage planetary
Max. drawbar pull	3,100 kgf (6,835 lbf)
Max. travel speed (high) / (low)	4.2 km/hr (2.6 mph) / 2.5 km/hr (1.6 mph)
Gradeability	30° (58%)
Parking brake	Multi-wet disc

CONTROLS

Pilot-pressure-operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Arm swing, Boom swing (RH): Boom and bucket with horn (ISO)	
Traveling and steering	Two levers with pedals	
Engine throttle	Electric, dial type	

SWING SYSTEM

Swing motor	Axial piston motor	
Swing reduction	2-stage planetary	
Swing bearing lubrication	Grease-bathed	
Swing brake	Multi wet disc	
Swing speed	9.5 rpm	

COOLANT AND LUBRICANT CAPACITY

(Refilling)	liter	gal
Fuel tank	40.0	10.5
Engine coolant	5.5	1.5
Engine oil	6.7	1.8
Hydraulic tank	37.0	9.8
Hydraulic system	60	15.9

WEIGHT (APPROXIMATE)

Operating weight, including 2,500 mm (8' 12") boom, 1,300 mm (4' 3") arm, SAE heaped 0.11 m³ (0.14 yd³) excavator bucket, 300 mm (11.8") rubber track, lubricant, coolant, full fuel tank, hydraulic tank, 560 kg (1,230 lb) counterweight and the standard equipment.

Operating weight (canopy)	3,550 kg (7,800 lb)
Ground pressure (canopy)	0.33 kg/cm ² (4.69 psi)

UNDERCARRIAGE

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricate rollers, track adjusters with shock absorbing springs and sprockets, and track chain with triple grouser shoes.

<u> </u>		
Center frame	X - leg type	
Track frame	Pentagonal box type	
No. of track shoes on each side	44	
No. of upper rollers on each side	1	
No. of lower rollers on each side	4	

R35Z-9A Lifting Capacity ISO Condition 2



Boom: 2.50 m (8' 2") / Arm: 1.30 m (4' 3") / Bucket: 0.11 m³ (0.14 yd³) SAE heaped / Dozer down / Rubber track: 300 mm (12") / Cabin Type / Counterweight: 560 kg (1,230 lb)

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1 164	a int	Lift-point radius						At max. reach				
Lift-p		1.0 m (3.3 ft)		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		Capacity		Reach
hei m	_											m(ft)
4.0 m	kg									*670	*670	3.12
13.1 ft	lb									*1,470	*1,470	(10.2)
3.0 m	kg							*620	590	*630	580	4.04
9.8 ft	lb							*1,370	1,300	*1,380	1,280	(13.3)
2.0 m	kg					*790	*790	*650	580	*630	480	4.48
6.6 ft	lb					*1,730	*1,730	*1,430	1,280	*1,390	1,070	(14.7)
1.0 m	kg					*1,060	850	*740	560	*650	450	4.61
3.3 ft	lb					*2,340	1,870	*1,620	1,230	*1,430	1,000	(15.1)
0.0 m	kg			*1,260	*1,260	*1,190	810	*790	540	*670	470	4.46
0.0 ft	lb			*2,770	*2,770	*2,620	1,800	*1,740	1,200	*1,480	1,030	(14.6)
-1.0 m	kg	*1,930	*1,930	*1,890	1,550	*1,110	810			*690	550	4.00
-3.3 ft	lb	*4,250	*4,250	*4,160	3,430	*2,440	1,790			*1,520	1,210	(13.1)
-2.0 m	kg			*1,210	*1,210	*670	*670			*650	*650	3.03
-6.6 ft	lb			*2,670	*2,670	*1,490	*1,490			*1,440	*1,440	(9.9)

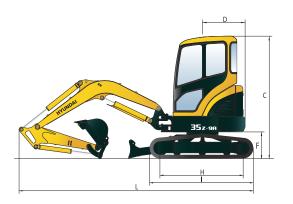
Notes:

- 1. Lifting capacities are based on ISO 10567.
- Lifting capacities of the 9A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The lift-point is a hook (standard equipment) located on the back of the bucket.
- 4. (*) indicates load limited by hydraulic capacity.

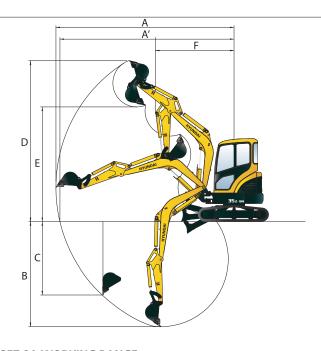


Dimensions & Working Range

R35Z-9A DIMENSIONS







R35Z-	-9Δ	DIN	ЛFN	งรเ	ON	19

Α	Overall width of upper structure	1,500 (4' 11")				
В	Overall width of cab	1,050 (3' 5")				
C	Overall height of cab	2,500 (8' 2")				
D	Tail swing radius	870 (2' 10")				
Е	Overall width	1,740 (5' 9")				
F	Clearance under counterweight	540 (1' 9")				

mm (π·in,					
G	Ground c	290 (0' 11")			
Н	Tumbler	1,700 (5' 7")			
1	Track len	2,130 (7' 10")			
J	Track gau	1,440 (4' 9")			
K	Track sho	300 (1' 0")			
L	Overall length	1,300-mm Arm	4,790 (15' 9")		
		1,600-mm Arm	4,815 (15' 10")		

	R35	5Z-9A WORKING RANGE	mm (ft-in)				
		Boom length	2,500 (8' 2")				
		Arm length	1,300 (4' 3")	1,600 (5' 3")			
	Α	Max. digging reach	5,315 (17' 5")	5,605 (18' 5")			
	\mathbf{A}^{1}	Max. digging reach on ground	5,200 (17' 1")	5,495 (18' 0")			
	В	Max. digging depth	3,135 (10' 3")	3,440 (11' 3")			
	C	Max. vertical wall digging depth	2,190 (7' 2")	2,565 (8' 5")			
	D	Max. digging height	4,810 (15'9")	5,010 (16' 5")			
	Е	Max. dumping height	3,425 (11' 3")	3,615 (11'10")			
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STANDARD EQUIPMENT

Cabin **TOPS ISO 12117**

> (ROPS ISO 12117-2) FOG ISO 10262 Level I

(FOPS ISO 3449 Level I)

All-weather steel cab with all-around visibility Safety glass windows

Sliding fold-in front window Sliding side window Lockable door Accessory box Air conditioner and heater Centralized monitoring

Gauges

- Fuel level gauge
- Engine coolant temperature gauge

Warning indicators

- Quick clamp
- Engine oil pressure
- Engine coolant temperature
- Preheat
- Low battery
- Air cleaner clogging

• Fuel empty

Door and locks, universal key

Mechanical suspension seat with seat belt Radio / USB Player

Console box tilting system (LH)
One front working lights

Flectric horn

Battery (1 x 12 V x 70 AH)

Battery master switch

Automatic swing brake

Min. swing radius 2,350 (7' 9") 2,330 (7' 8")

Removable reservoir tank Water separator, fuel line

Mono boom (2.5 m / 8' 2") Arm (1.3 m / 4' 3")

Rubber track shoes (300 mm / 12")

Double acting piping (Clamshell, etc)

Auto idle function Universal start key

Emergency stop switch
Auto travel shift down travel motor

Cabin lamp Travel alarm

Quick coupler with piping

Heater and defroster

Pattern-change lever

Hyundai bucket (0.11 m³ / 0.14 yd³)

OPTIONAL EQUIPMENT

TOPS ISO 12117 (ROPS ISO 12117-2)

FOG ISO 10262 Level I (FOPS ISO 3449 Level I) Accumulator Steel track shoes (300 mm / 12") Long Arm (1.6 m) Additional counterweight (150 kg / 330 lb)

RCV with proportional control switch Rotating attachment piping Safety lock valve





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Made in the U.S.A. 1040-EX-SP 2/2018v5