

## ENGINE

MODEL	Yanmar 3TNV88	
Type	Water cooled, 4 cycle Diesel, 3-cylinders in line, direct injection, low noise	
Rated flywheel horse power		
SAE	J1995 (gross)	27.3 HP ( 20.4kW) at 2,200rpm
	J1349 (net)	26.5 HP ( 19.8kW) at 2,200rpm
DIN	6271/1 (gross)	27.6 PS ( 20.3kW) at 2,200rpm
	6271/1 (net)	26.9 PS ( 19.8kW) at 2,200rpm
Max. torque	10.9 kgf ·m(79 lbf ·ft) at 1,100 rpm	
Bore X stroke	88mm x 90mm (3.5" x 3.5")	
Piston displacement	1,642 cc (100 in <sup>3</sup> )	
Batteries	12V - 80 AH	
Starting motor	12V - 2.3kW	
Alternator	12V - 55 A	

## HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement piston pumps
Rated flow	2 x 38.5 + 23.5 + 11.2 L/min
Sub-pump for pilot circuit	Gear pump
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/cm <sup>2</sup> (3,270 psi)
Travel circuit	230 kgf/cm <sup>2</sup> (3,270 psi)
Swing circuit	200 kgf/cm <sup>2</sup> (2,840 psi)
Pilot circuit	30 kgf/cm <sup>2</sup> (430 psi)
Service valve	Installed

## HYDRAULIC CYLINDER

NO. OF CYLINDER - BORE X STROKE	
Boom	2-120 x 1,290 mm (4.7" x 50.8")
Arm	1-140 x 1,510 mm (5.5" x 59.4")
Bucket	1-bore 120 x 1,055 mm (4.7" x 41.5")
Blade	2-125 x 222 mm (4.9" x 8.7")
Outrigger	2-130 x 427 mm (5.1" x 16.8")

## NOISE LEVEL(CAB)

NOISE LEVELS (DYNAMIC VALUE)	
LwA	94dB
LpA	75dB

## COOLANT & LUBRICANT CAPACITY

Refilling	liter	US gal	UK gal
Fuel tank	42	11.1	9.2
Engine coolant	5	1.32	1.1
Engine oil	6.7	1.77	1.5
Hydraulic tank	46	12.2	10.1

## TRAVEL LEVERS

Traveling and steering : Two levers with pedals.

## CONTROL LEVERS

Type	
Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket (ISO)
Engine throttle	Mechanical, cable type

## SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake(option)	Wet disc
Swing speed	9.5 rpm

## DRIVES & BRAKES

Max. travel speed(high) / (low)	4.5km / 2.5km (2.8mph) / (1.6mph)
Maximum traction force	3.1ton
Maximum gradeability	30°
Parking brake	Wet disc

## DIGGING FORCE(ISO)

	1.3m Arm	1.6m Arm
Bucket	3,200 kgf	3,200 kgf
	31.4 kN	31.4 kN
	7,050 lbf	7,050 lbf
Arm	1,990 kgf	1720 kgf
	19.5 kN	16.9 kN
	4,390 lbf	3,790 lbf

## WEIGHT (APPROXIMATE)

Operating weight, including 2,500 mm (8' 2") boom, 1,300 mm (4' 3") arm, SAE heaped 0.11 m<sup>3</sup> (0.14yd<sup>3</sup>) excavator bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Shoe Width		Rubber 300mm (12")	Steel 300mm (12")
Operating Weight	Cabin	3,650 kg (8,050lb)	3,750 kg (8,270lb)
	Canopy	3,500 kg (7,720lb)	3,600 kg (7,940lb)
Ground Pressure	Cabin	0.33 kg/cm <sup>2</sup> (4.76psi)	0.34 kg/cm <sup>2</sup> (4.9psi)
	Canopy	0.32 kg/cm <sup>2</sup> (4.57psi)	0.33 kg/cm <sup>2</sup> (4.7psi)

## UNDERCARRIAGE

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

Center frame	X-leg type
Track frame	Pentagonal box type
No. of carrier roller on each side	1
No. of track roller on each side	4

## AIR CONDITIONING SYSTEM

The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a. (Global Warming Potential : 1430)  
The system hold 0.6kg refrigerant consisting of a CO<sub>2</sub> equivalent 0.86kg metric tonne.  
For more information, Please refer to the manual.

MOVING YOU FURTHER

Robex

35z-9

With Tier 3 Engine installed



\*Photo may include optional equipment.



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## Comfortable Operating Cabin

In a 9 series cabin, you can easily adjust the seat and wrist rests settings to best suit your preferred operating condition.

1. All pedals are foldable for additional floor space. Foot rest, attachment pedal, left and right travel pedals and boom swing pedal are arranged for convenient access.
2. Two cup holders are integrated into the right console for large and small drink storage.
3. An additional storage box with key lock is accessible under the operator's seat.
4. Adjustable wrist rests provide additional comfort.
5. A sliding fold-in front window is easily opened and safely stored in an open position to improve ventilation and visibility.(Cabin type only)

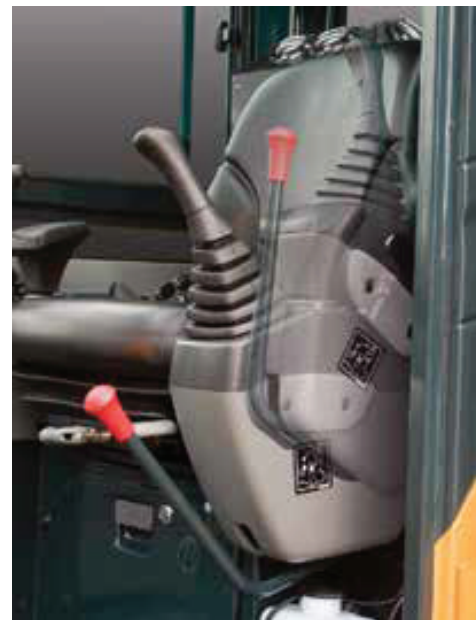


### Reduced Stress

An operator's work environment should be stress free. Hyundai's R35Z-9 compact excavator is designed for comfort, reduced sound and plenty of space to reduce stress on the operator.

### Operator Comfort

The left and right control levers are ergonomically located for convenient access. A safety lock system is designed to prevent exiting the cabin while hydraulic controls are live. When the safety lever and left side console are positioned upright, hydraulic functions are disengaged.



A tiltable left-side console make the operator easier to enter and exit the cab.



### Boom Swing

The R35Z-9's boom swing function is designed for efficient work in congested residential and urban areas. The boom can be offset left or right within an operating range.

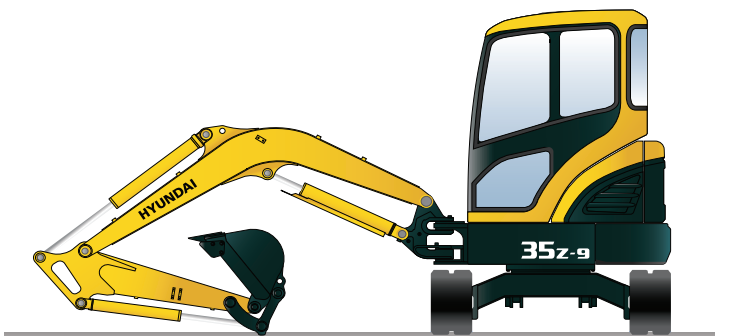
### Improved Hydraulic System

Optimized matching between the joystick and main control valve improves fine control and smoothness of operation. An arm flow summation system provides energy savings, reduced cavitation and increased speed. To improve safety and avoid boom drift the R35Z-9 is equipped with an integrated boom holding system.



### Structure Strength

The R35Z-9 cabin structure has been fitted with stronger but slimmer tubing for added safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests.



### Zero-tail Swing

R35Z-9's short tail swing radius allows the operator work in confined areas like close to buildings on roadways, and in urban areas. This compact radius design provides easy and efficient operation in any limited space work environment.

### Yanmar 3TNV88

Tier 3 certified, Yanmar 3TNV88 engine provides maximum power, reliability, optimum fuel economy, and reduced emissions.