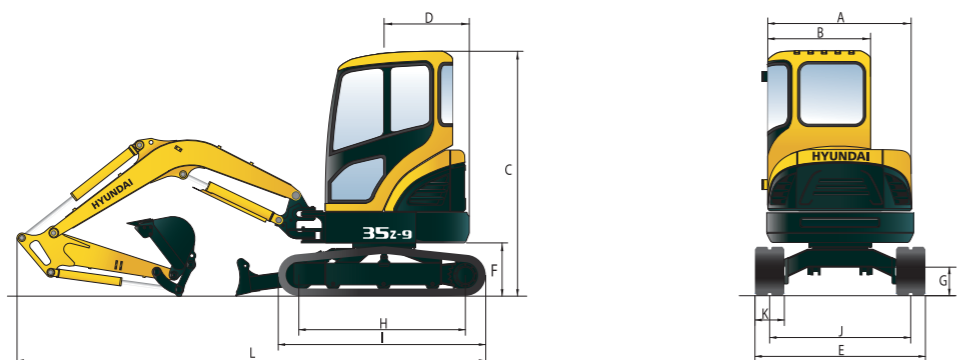


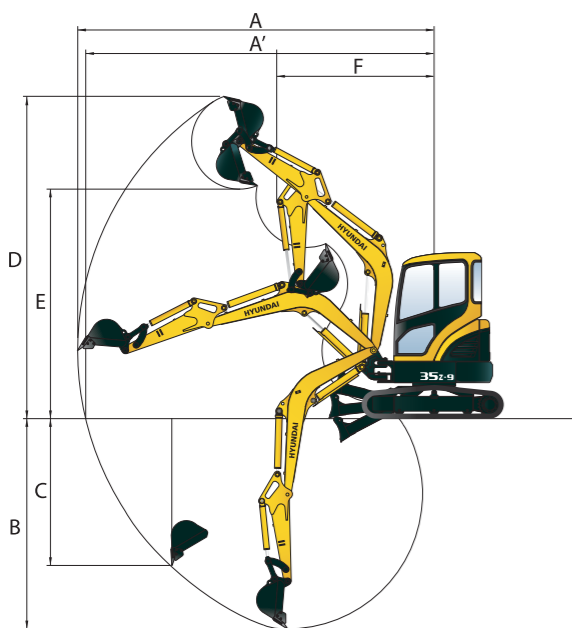
## Dimensions & Working Range

### R35Z-9 DIMENSIONS



mm (ft-in)					
A	Overall width of upper structure	1,500 (4' 11")	G	Ground clearance	290 (0' 11")
B	Overall width of cab	1,050 (3' 5")	H	Tumbler distance	1,700 (5' 7")
C	Overall height of cab	2,500 (8' 2")	I	Track length	2,130 (6' 12")
D	Tail swing radius	870 (2' 10")	J	Track gauge	1,440 (4' 9")
E	Overall width	1,740 (5' 9")	K	Track shoe width	300 (0' 12")
F	Clearance under counterweight	540 (1' 9")	L	Overall length	4,790 (15' 9")

### R35Z-9 WORKING RANGE



mm (ft-in)		
	Boom length	2,500 (8' 2")
	Arm length	1,300 (4' 3")
A	Max. digging reach	5,360 (17' 7")
A'	Max. digging reach at ground	5,240 (17' 2")
B	Max. digging depth	3,150 (10' 4")
C	Max. vertical wall digging depth	2,190 (7' 2")
D	Max. digging height	4,830 (15' 10")
E	Max. dumping height	3,450 (11' 4")
F	Min. swing radius	2,350 (7' 9")

\* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.  
 \* The photos may include attachments and optional equipment that are not available in your area.  
 \* Materials and specifications are subject to change without advance notice.  
 \* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

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2011.1 Rev. 0

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We build a better future

**Robex**  
**35z-9**

With Tier 4 Engine installed



\*Photo may include optional equipment.

**HYUNDAI**  
 HEAVY INDUSTRIES CO.,LTD.

# Pride at Work

Hyundai Heavy Industries strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality. Take pride in your work with Hyundai!

# Robex 35z-9

## Machine Walk-Around

### Rugged Upper and Lower Frame

The upper frame is designed to be heavy duty to absorb high stress load on the job. X-leg center frame and reinforced box section track frame provide exceptional strength and longer service life to withstand tough working conditions.

### Engine Technology

The R35Z-9 is powered by a proven and reliable, Tier 4 certified YANMAR 3TNV88. This engine provides efficient fuel combustion and reduced noise.

### Efficient Control System

Control devices are all conveniently located for improved operator comfort and productivity. A safety lever on the left-side console is designed to prevent exiting the cabin while hydraulic controls are live.

### Advanced Hydraulic System

The R35Z-9 hydraulic system is precision designed for fast operation with fine control capabilities.

### Comfortable and Durable Cabin

The cabin is roomy and ergonomically designed, with reduced sound levels and good visibility. Both canopy and cabin style frames meet international standards TOPS, ROPS, FOPS ensuring operator's safety.

### Operator Convenience

The R35Z-9 features a suspension seat, foldable pedals for added space and multiple storage compartments. The monitoring system includes seven warning indicators, water temperature gauge, fuel gauge and hour meter for productive, convenient operating.

### Easy and Simple Maintenance

An adjustable suspension seat, wrist rests, ergonomically designed joysticks and plenty of leg room help to reduce operator fatigue. A array of indicators and gauges are displayed on the monitor which keep the operator aware of machine performance at all times. The monitoring system includes seven warning indicators, water temperature gauge, fuel gauge and hour meter.

### Extended Life of Components

The R35Z-9 reduces operating costs over time with long life hydraulic filters, hydraulic oil, shims and bushings.



\*Photo may include optional equipment.

# Preference

The R35Z-9 offers an operator an optimal work environment with a cabin designed for comfort and sophistication. Operating R35Z-9 is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.



\*Photo may include optional equipment.



## Monitor

The monitoring system of the R35Z-9 provides the operator with machine status information, including: engine oil pressure, battery charge, engine coolant temperature and a fuel gauge.

## 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.



# Performance & Precision

New technologies designed to improve performance and precision, make the R35Z-9 smooth, fast and easy to control.



\*Photo may include optional equipment.



## 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

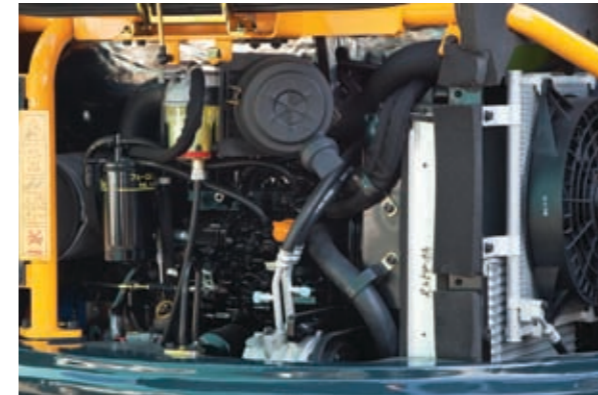
R35Z-9's short tail swing radius allows the operator work in confined areas like close to buildings on roadways, and in urban areas. This compact radius design provides easy and efficient operation in any limited space work environment.

## Yanmar 3TNV88

Tier 4 certified, Yanmar 3TNV88 engine provides maximum power, reliability, optimum fuel economy, and reduced emissions.

# Profitability

R35Z-9 is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.



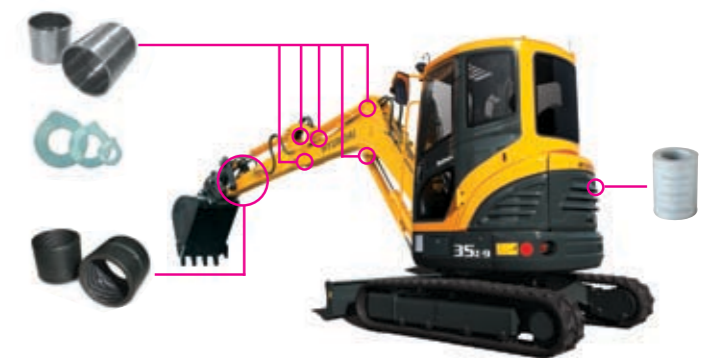
## Easy Access

The R35Z-9 was built with accessibility in mind. All doors, covers and hoods were built for complete open access. Regular service and maintenance is easy and convenient with the R35Z-9.



## Easy Change Air Cleaner

The R35Z-9 is equipped with a durable plastic air cleaner designed for easy maintenance.



## Extended Life Components

Reliability is improved and maintenance costs are reduced due to long-life hydraulic filters (1,000 hrs) and hydraulic oil (5,000 hrs). The addition of lubricated bushings and resin shims has extended lube intervals throughout the attachment to 250 hours.



## Centralized Grease Fittings

A centralized lubrication bank is available for faster, easier service and maintenance.

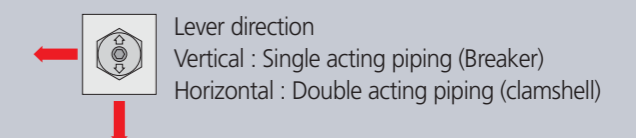


## Lever Pattern Change Valve(option)

Joystick control patterns can be changed through an optional pattern change valve positioned for easy access.



## Selector Valve for Single or Double Acting Piping



\*Photo may include optional equipment.

# Specifications

## 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	627 1/1 (gross)	27.7 PS ( 20.4kW) at 2,200rpm
	627 1/1 (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	1,642cc (100 in <sup>3</sup> )	
Batteries	12V - 80AH	
Starting motor	12V - 2.3kW	
Alternator	12V - 55A	

## HYDRAULIC SYSTEM

Main pumps		
Type	Two 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 Kg/cm <sup>2</sup> (3,270 psi)	
Travel circuit	230 Kg/cm <sup>2</sup> (3,270 psi)	
Swing circuit	230 Kg/cm <sup>2</sup> (3,270 psi)	
Pilot circuit	30 Kg/cm <sup>2</sup> (430 psi)	
Service valve	Installed	

## HYDRAULIC CYLINDER

No. of cylinder - bore x stroke		
Boom	85 x 540 mm (3.3" x 21.3")	
Arm	80 x 585 mm (3.1" x 23.0")	
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")	

## 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 with horn (ISO)	
Engine throttle	Mechanical, cable type	

## SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing circuit lubrication	Grease - bathed
Swing brake	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)

Bucket	3,200 kgf
	31.4 kN
	7,050 lbf
	1,990 kgf
Arm	19.5 kN
	4,390 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> (0.14 yd<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	Cabin 3,650 Kg (8,050lb)	3,750 Kg (8,270lb)
Weight	Canopy 3,500 Kg (7,720lb)	3,600 Kg (7,940lb)
Ground	Cabin 0.34 kg/cm <sup>2</sup> (4.83psi)	0.34 kg/cm <sup>2</sup> (4.83psi)
Pressure	Canopy 0.32 kg/cm <sup>2</sup> (4.55psi)	0.33 kg/cm <sup>2</sup> (4.69psi)

## 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

## LIFTING CAPACITIES R35Z-9

Boom : 2.50 m (8' 2") / Arm : 1.30 m (4' 3") / Bucket : 0.11 m<sup>3</sup> (0.14 yd<sup>3</sup>) SAE heaped / Dozer blade up : 300mm(12") rubber track

Load point height m(ft)	Load radius								At max. reach			
	1.0 m(3 ft)		2.0 m(7 ft)		3.0 m(10 ft)		4.0 m(13 ft)		Capacity	Reach		
										m (ft)		
4.0 m	kg								600	510	3.94	
13 ft	lb								1320	1120	(12.9)	
3.0 m	kg						560	470	420	360	4.74	
10 ft	lb						1230	1040	930	790	(15.6)	
2.0 m	kg				890	750	540	460	360	300	5.11	
7 ft	lb				1960	1650	1190	1010	790	660	(16.8)	
1.0 m	kg				830	690	520	440	340	290	5.18	
3 ft	lb				1830	1520	1150	970	750	640	(17.0)	
Ground	kg			1570	1260	790	650	500	420	360	4.98	
Line	lb			3460	2780	1740	1430	1100	930	790	(16.3)	
-1.0 m	kg	*2100	*2100	1590	1270	780	650	500	420	440	370	4.45
-3 ft	lb	*4630	*4630	3510	2800	1720	1430	1100	930	790	820	(14.6)
-2.0 m	kg			1630	1310	810	670					
-7 ft	lb			3590	2890	1790	1480					

Boom : 2.50 m (8' 2") / Arm : 1.30 m (4' 3") / Bucket : 0.11 m<sup>3</sup> (0.14 yd<sup>3</sup>) SAE heaped / Dozer blade down : 300mm(12") rubber track

Load point height m(ft)	Load radius								At max. reach			
	1.0 m(3 ft)		2.0 m(7 ft)		3.0 m(10 ft)		4.0 m(13 ft)		Capacity	Reach		
										m (ft)		
4.0 m	kg								*700	510	3.94	
13 ft	lb								*1540	1120	(12.9)	
3.0 m	kg						*760	470	*630	360	4.74	
10 ft	lb						*1680	1040	*1390	790	(15.6)	
2.0 m	kg				*1780	750	1410	460	*620	300	5.11	
7 ft	lb				*3920	1650	3110	1010	*1370	660	(16.8)	
1.0 m	kg				2400	690	1380	440	*650	290	5.18	
3 ft	lb				5290	1520	3040	970	*1430	640	(17.0)	
Ground	kg			*1730	1260	2340	650	1360	420	*740	300	4.98
Line	lb			*3810	2780	5160	1430	3000	930	*1630	660	(16.3)
-1.0 m	kg	*2100	*2100	*2850	1270	2330	650	1350	420	*920	370	4.45
-3 ft	lb	*4630	*4630	*6280	2800	5140	1430	2980	930	*2030	820	(14.6)
-2.0 m	kg			*3540	1310	*2050	670					
-7 ft	lb			*7800	2890	*4520	1480					

1. Lifting capacity is based on SAE J1097, ISO 10567.

2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The load point is a hook located on the back of the bucket.

4. (\*) indicates the load limited by hydraulic capacity.

## STANDARD EQUIPMENT

ISO standard cabin -Cabin ROPS(ISO 3471) FOPS(ISO 3449) TOPS(ISO 12117) -All-weather steel cab with all-around visibility -Safety glass windows -Sliding fold-in front window -Sliding side window	-Lockable door -Accessory box -Centralized monitoring -Gauges Fuel level gauge Engine coolant temperature gauge -Warning Quick clamp	Engine oil pressure Engine coolant temperature Preheat Low battery Air cleaner clogging Fuel empty -Door and locks, one key -Mechanical suspension seat with seat belt	-Radio / USB Player -Console box tilting system(LH.) -Two front working lights -Electric horn -Battery (1 x 12 V x 80 AH) -Battery master switch -Automatic swing brake -Removable reservoir tank -Water separator, fuel line	-Mono boom (2.5 m, 8' 2") -Arm (1.3 m, 4' 3") -Rubber shoe (300mm, 12") -Single acting piping (Breaker, etc) -Double acting piping (Clamshell, etc)
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## OPTIONAL EQUIPMENT

ISO standard canopy -Canopy ROPS(ISO 3471) FOPS(ISO 3449) TOPS(ISO 12117)	-Beacon lamp -Accumulator, work equipment lowering -Travel alarm	-Quick coupler -Tool kit -Operator suit -Heater & Defroster	-Lever pattern change valve -Steel shoe (300mm, 12") -Air conditioner
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