







Machine Walk-Around

Robust Upper and Lower Frame

The structure of the upper frame is designed to absorb high stress and to resist inherent external influences. An X-type center frame and a reinforced box section track frame provide exceptional strength and loger service life to withstand tough working conditions.

Engine Technology

Powerful and reliable, Tier 3a / EU stage Illa certified, fuel efficient Yanmar 37 1088 el lis Electronically controlled, clean and efficient combustion.

Low noise / anti-restart function.

Control System

Control devices are well located for increased operator's comfort and arise or productivity. A safety lever on the left side console is installed to prevent exiting the cabin with active partial. In the left side console is installed to prevent exiting the cabin with active partial.

Advanced Hydraulic System

The hydraulic system of the R35Z-9 is designed for fast of ratio combined with high controllability.

Comfortable and High-Steng (Cabh

The spacious cabin is ergonomically a figned, with mow noise level and high visibility. Canopy & cabin frame are complying with international standard in SS, ROPS & FOPS, for maximum protection of the operator.

Operators' Convenience

R35Z-9 cabin equipped verb a securision seat, foldable pedals and various storage space for advanced operator comfort. The next toring sycem displays warning indicators, water temperature gauge, fuel gauge and hour meter to check the full station of the machine at a single glance.

Easy Mai tain

volumbee of doors, covers and engine hoods, air cleaner and centralized grease fittings the machine is a ple of maintain.

Extended Life of Components

cong-life hydraulic filters, long-life hydraulic oil, long-lasting shims and long-lasting bushes are reducing operation costs.

Preference

An operator, who sets his machine to his needs, takes pleasure in his work. 9 Series respects operator preference with regards to comfort, ease-of-use and controllability.

Operators can fully customize their work environment and operating preferences to fit their individual needs.



*Pho may include optional equipment.



Dashboard

The dashboard of the R35Z-9 indicates the status of the machine like warnings of engine oil pressure, battery charge, engine coolant temperature and fuel gauges.

Comfortable Operating Cabin console and armrests to suit your preferred

In a 9 series cabin, you can adjust the seat, comfort level.

- 1. The pedals (travel boom offset attachment) are installed in a convenient position and can be folded in to gain extra foot space.
- 2. Different sizes of cup holders.
- 3. Operator's belongings can be stored in a lockable storage box under the seat.
- 4. Armrests to increase operator's comfort.
- 5. Slidable front window can be opened easily and is kept safely in open position (cabin Type)





Stressless

Work is stressful enough; your working pyiron nent should be stressless. Hyundai's 9 Series provides improve cabonic or and additional storage space to minimize the stress of the operator.



Precision

An operator, who feels his machine respond smoothly, takes pleasure in his work. 9 Series delivers fast precision by combining smoother hydraulics with wider view and less stress. Innovative hydraulic system technologies make the R35Z-9 excavator fast, smooth and easy to control.





Offset Boom

With an offset function of the boom from 75° to the lesside and 50° to the right side, the zero-tail mornine ever more flexible to use on narrow jobsites.

Hydraulic System Improve nents

To achieve optimum preculon, yundar redesigned the hydraulic system to provide the operator with super fine touch and top level controls. Tity.

Newly improved cature include arm flow summation system and book holdings stem, in order to save energy, prevent against call ation, increase speed and to avoid the drop or attack ments an actual condition.



Structural Strength

The 9 Series cabin structure is resigned with slimmer but stronger tubing for more safety and have visibility. Low-stress and high strength steel is welded to firm a strong and stable lower frame. Structural durability is analysed and tested by FEM-analysis (Finite Elements Method) and anglession 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 3a / EU stage Illa certified, Yanmar 3TNV88 engine provides maximum power, reduced emissions, reliability and optimum fuel efficiency.

Profitability

An owner, who knows his machine saves money, takes pleasure in owning it. 9 Series excavators contribute to your business as a time, fuel, spare-part and cost saving earthmoving solution.





Easy Maintenance Access

The R35Z-9 was built with accessibility in mind. All doors, covers and hoods are designed for full open accessibility. The R35Z-9 offers plenty of space to complete regular maintenance.



Easy to Change Air Cleaner

The R35Z-9 is equipped with a durante plasticair cleaner, designed for easy maintenance.



Extended Life of Components

By adopting long in phycoulic filters (1000 hrs) and long-life hydraulic oil (5 00 hrs, operation costs are reduced. Oil change intervals are stended to 250 operating hours because self-lubrication hyshes and rean shims are applied.



Centralized Grease Fittings

Centralized grease fittings for faster and easier maintenance.



Lever Pattern Change Valve (option)

Joystick control pattern can be changed easily through a pattern change valve (2 different patterns).



Selector Valve for Single or Double Acting Piping



Lever direction

Vertical: Single acting piping (Breaker) Horizontal: Double acting piping (clamshell)

Specifications

ENGINE

MODEL	- -	YANMAR 3TNV88
Ivne		Water cooled, 4 cycle Diesel, 3-Cylinders in line, direct injection and low emission
Rated fly	wheel horse power	
SAE	J1995 (gross)	27.3 HP (20.4 kW) at 2,200rpm
JAE	J1349 (net)	26.5 HP (19.8 kW) at 2,200rpm
DIN	627 1/1 (gross)	27.7 PS (20.4 kW) at 2,200rpm
DIN	627 1/1 (net)	26.9 PS (19.8 kW) at 2,200rpm
Max. tor	que	10.9 kgf.m (79 lbf.ft) at 1,100 rpm
Bore x st	roke	88 mm x 90 mm (3.5" x 3.5")
Piston displacement		1,642cc (100 in³)
Batteries		12V - 80 AH
Starting motor		12V - 2.3 kW
Alternate	or	12V - 55 Amp

HYDRAULIC SYSTEM

Main pump					
Туре	Two variable displacement piston pumps + gear pump				
Rated flow	2 x 38.5 + 23.5 l/min				
Pilot pump	Gear pump 11.2 ℓ/min				
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 (3,270 psi)				
Travel circuit	230 Kgf/cm² (3,270 psi)				
Swing circuit	230 Kgf/cm² (3,270 psi)				
Pilot circuit	30 Kgf/cm² (430 psi)				
Service valve	Installed				

HYDRAULIC CYLINDERS

No. of cylinder - bore x stroke	
Boom	1 - 85 x 540 mm / 3" x 21.3")
Arm	1 - 80 x 585 mm 1",
Bucket	1 - 70 X 510 mm (2.8" x 20.1"
Boom swing	1 - 80 400 m (3.1")
Dozer blade	1 - 9 (152 µm (1 " x 6.0")

OPERATOR'S CA

Noise Levels (dyn	amic v	ıe)			Image: section of the content of the	
Outside cabin - L	Α			94 dB		
Inside cabin - I nA	4			dB		

COOLANT & LIBRICANT CAPACITY

(refilling)	,)	liter	US gal	UK gal
Fu tank		42	11.1	9.2
ine coolan		5	1.32	1.1
Eng. oil		6.7	1.77	1.5
Hydrau. ank		46	12.2	10.1

THAVEL LEVERS

aveling and steering: Two levers with foldable pedals.

HYDRAULIC CONTROLS

Туре	
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					
Swing reduction	Planetary gear reduction				
Swing circuit lubrication	Grease-bathed				
Swing brake	Multi wet disc				
Swing speed	9.5 rpm	_			

DRIVES & BRAKES

Max. travel speed (high / low)	4.5 1 (2. oh) / 2 (1.6 mph)
Maximum traction force	ton
Maximum gradeability	30
Parking brake	Multi t discs

DIGGING FORCE (SC)

	,200 kgf
Bucket	31.4 kN
	7,050 lbf
	1,990 kgf
Arm	19.5 kN
	4,390 lbf

WEIGHT (APPROXIMATE)

Opporting weight, including 2,500 mm (8' 2") boom; 1,300 mm (4' 3") arm, SAE heaped 0.11 m. (0.14 yd²) excavator bucket, lubricant, coolant, full fuel tank, hydraulic tank and standard equipment.

	Shoe Width		Rubber 300 mm (12")	Steel 300 mm (12")		
	Operating Weight	Cabin	3,650 Kg (8,050 lb)	3,750 Kg (8,270 lb)		
	Operating Weight	Canopy	3,500 Kg (7,720 lb)	3,600 Kg (7,940 lb)		
	Ground Pressure	Cabin	0.34 kg/cm ² (4.83 psi)	0.34 kg/cm ² (4.83 psi)		
	diouna riessure	Canopy	0.32 kg/cm ² (4.55 psi)	0.33 kg/cm ² (4.69 psi)		

UNDERCARRIAGE

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

Rating over-front Rating over-side or 360 degree

Boom: 2.50 m (8' 2") / Arm: 1.30 m (4' 3") / Bucket: 0.11 m³ (0.14 yd²) SAE heaped / Dozer up: 300 mm (12") rubber track

		Load radius									At max. reach	
Load point height m (ft)		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	(د ــــــــــــــــــــــــــــــــــــ
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	`7.0)
Ground	kg			1570	1260	790	650	500	420	360	300	4
Line	lb			3460	2780	1740	1430	1100	930	790	660	(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	97		(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 m3 (0.14	vd3) SAF heaped / Dozer down	: 300 mm (12") rubber track
B00111 : 2:30 111 (0 2) / / (1111	. 1.50 III (1 5)/ Bucket . 0,11 III (0.11	ya / 5/12 licapea / Bozel down	. 300 mm (12) rabber track

		Load radius							At max. reach			
Load point		1.0 m (3 ft) 2.0 m (7 ft) 3.0 m (10 ft) 4.0 m		رکار	Capacity		Reach					
height m (ft)				r r		r r			<u></u>			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	Ibo		1010	*1370	660	(16.8)
1.0 m	kg					2400	6°	15	440	*650	290	5.18
3 ft	lb					5290		304	970	*1430	640	(17.0)
Ground	kg			*1730	1260	2.7	650	1360	420	*740	300	4.98
Line	lb			*3810	2780	0	130	3000	930	*1630	660	(16.3)
-1.0 m	kg	*2100	*2100	*2850	1270	ر ک	טכס	1350	420	*920	370	4.45
-3 ft	lb	*4630	*4630	*6280	2800	514	1430	2980	930	*2030	820	(14.6)
-2.0 m	kg			*3540	131°	*2050	670					
-7 ft	lb			*7800	28 /	-50	1480					

- 1. Lifting capacity is based on SAE J1097, ISO 10567.
- 2. Lifting capacity of the Robex Series does not exceed 75% of the ing loa with the machine on firm, level ground or 87% of full hydralic capac
- ne 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 ROPS (ISO 3471) FOPS (ISO 3449) · Cabin TOPS (ISO 12117)

· All-weather steel cab w all-around visibil

- Safety glass windows
- · Sliding fold-in front with Sliding side will dow

ie door

· Accessory by · Ceruliz monito g Gauc

Fuel gine coolant temperature gauge

lamps Quick clamp Engine oil pressure Engine coolant temperature Preheat engine

Low battery Air cleaner clogging Fuel empty

· Door and locks, one key fits all 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 shoes (300 mm; 12") Single acting piping (Breaker, etc) Double acting piping (Clamshell, etc)

OPTIONAL EQU PMENT

ISO standard canopy Canopy ROPS (ISO 34) FOPS (ISO 3449) ``PS (ISC ∠117)

Beacon lamp Accumulator, work equipment lowering

· Travel alarm

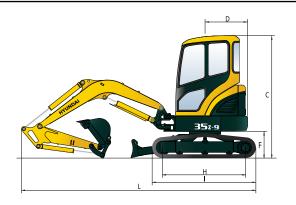
Quick coupler

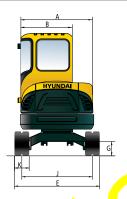
Operator suit · Heater & Defroster Lever Pattern Change Valve Steel shoes (300 mm; 12")

· Air-conditioner

Dimensions & Working Ranges

R35Z-9 DIMENSIONS





mm (ft \cdot in)

Α	Overall width of upper structure	1500 (4' 11")
В	Overall width of cabin	1050 (3' 5")
C	Overall height of cabin	2500 (8' 2")
D	Tail swing radius	870 (2' 10")
E	Overall width	1740 (5' 9")
F	Clearance under counterweight	540 (1' 9")

G	Ground clearance			290 (0' 11")
Н	Tumbler distance			1700 (5' 7")
I	Track length			2130 (6' 12")
J	Track gauge			1440 (4' 9")
K	Track shoe width	$\overline{\ }$	<u> </u>	300 (0' 12")
L	Overall length			4790 (15' 9")

R35Z-9 WORKING RANGES

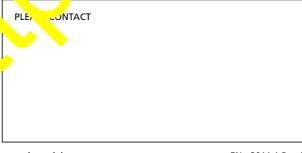
mm (ft · in)

	A A' F
D E	
СВ	

	om le tn	2500 (8' 2")
V	Ar length	1300 (4' 3")
Α	Max. digging reach	5360 (17' 7")
A'	Max. digging reach at ground	5240 (17' 2")
В	Max. digging depth	3150 (10' 4")
С	Max. vertical wall digging depth	2190 (7' 2")
D	Max. digging height	4830 (15' 10")
E	Max. dumping height	3450 (11' 4")
F	Min. front swing radius	2350 (7' 9")

Standards. All mperian easurements are vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards.

All mperian easurements rounded off to the nearest pound or inch.





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