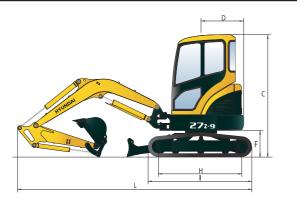
Dimensions & Working Range

R27Z-9 DIMENSIONS



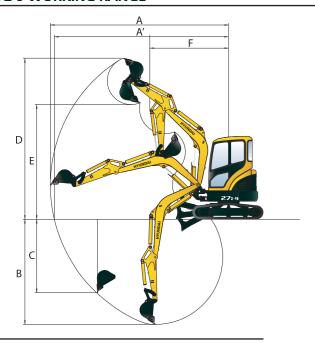


Α	Overall width of upper structure	1,485 (4' 10")
В	Overall width of cab	1,050 (3' 5")
C	Overall height of cab	2,500 (8' 2")
D	Tail swing radius	775 (2' 7")
E	Overall width	1,550 (5' 1")
F	Clearance under counterweight	540 (1' 9")

G	Ground clearance	290 (0' 11")
Н	Tumbler distance	1,550 (5' 1")
1	Track length	1,970 (6' 6")
J	Track gauge	1,250 (4' 1")
K	Track shoe width	300 (0' 12")
L	Overall length	4,180 (13' 9")

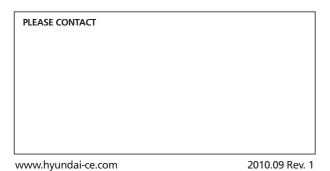
R27Z-9 WORKING RANGE

mm (ft-in)



	Boom length	2,030 (6' 8")
	Arm length	1,120 (3' 8")
Α	Max. digging reach	4,650 (15' 3")
A'	Max. digging reach at ground	4,515 (14' 10")
В	Max. digging depth	2,500 (8' 2")
С	Max. vertical wall digging depth	2,085 (6' 10")
D	Max. digging height	4,270 (14' 0")
E	Max. dumping height	2,890 (9' 6")
F	Min. swing radius	2,055 (6' 9")

- ${\color{blue} * Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.}\\$
- * 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.



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CONSTRUCTION EQUIPMENT

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We build a better future Robex **27**z-9 With Tier 4 Engine installed *Photo may include optional equipment.





100 27z-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 R27Z-9 is powered by a proven and reliable, Tier 4 certified Mitsubishi S3L2. 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 R27Z-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

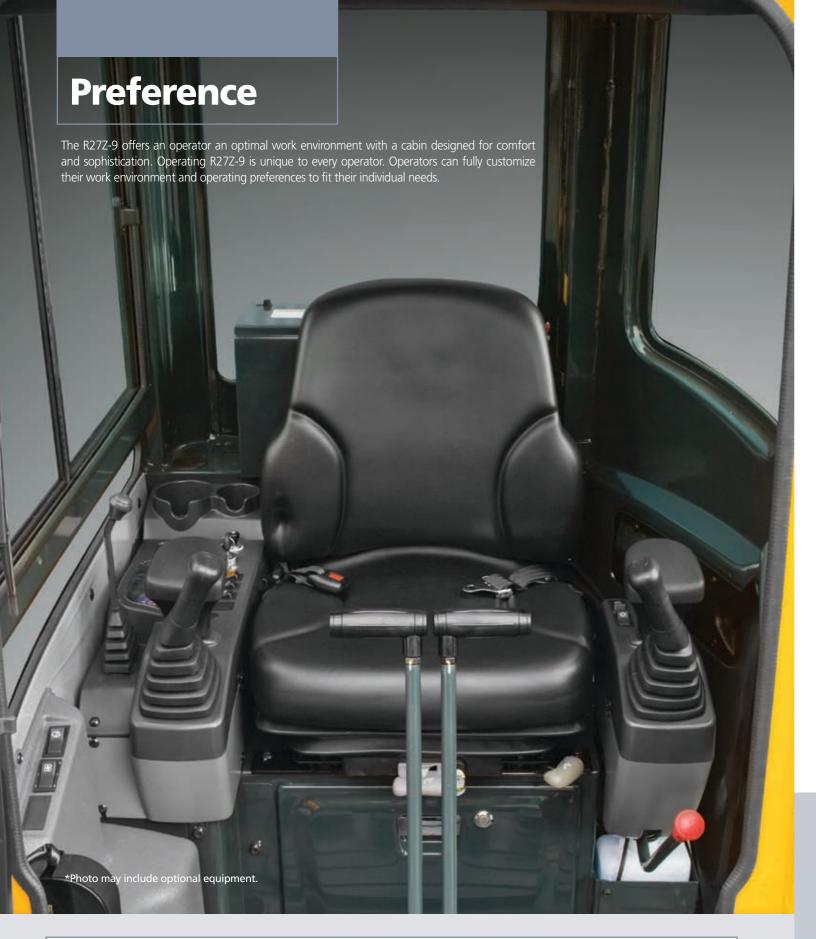
The R27Z-9 features a suspension seat, foldable pedals for added space and multiple storage compartments. The monitoring system includes seven warning indicators, water temperature gauge, fuel gauge and hour meter for productive, convenient operating.

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 R27Z-9 reduces operating costs over time with long life hydraulic filters, hydraulic oil, shims and bushings.





Monitor

The monitoring system of the R27Z-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 R27Z-9 compact excavator is designed for comfort, reduced sound and plenty of space to reduce stress on the operator.



Performance & Precision

New technologies designed to improve performance and precision, make the R27Z-9 smooth, fast and easy to control.



The R27Z-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 R27Z-9 is equipped with an integrated boom holding system.



Structure Strength

The R27Z-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

R27Z-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.



Mitsubishi S3L2

Tier 4 certified, Mitsubishi S3L2 engine provides maximum power, reliability, optimum fuel economy, and reduced emissions.

Profitability R27Z-9 is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components. *Photo may include optional equipment.



Easy Access

The R27Z-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 R27Z-9.



Easy Change Air Cleaner

The R27Z-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.



Cylinder Covers

Standard boom and dozer cylinder covers provide added protection.

Specifications

ENGINE

Model		Mitsubishi S3L2
Туре		4 Cycle. In line,
		water cooled Diesel
Rated	flywheel horse power	
SAE	J1995 (gross)	24.7 HP (18.4kW) at 2,300rpm
SAE	J1349 (net)	23.1 HP (17.2kW) at 2,300rpm
DIN	627 1/1 (gross)	25.0 PS (18.4kW) at 2,300rpm
DIN	627 1/1 (net)	23.4 PS (17.2kW) at 2,300rpm
Max. t	orque	8.0 kgf·m(58 lbf·ft) at 1,800 rpm
Bore x	stroke	78mm x 92mm (3.07" x 3.62")
Piston	displacement	1,318cc (80.4 in³)
Batter	ies	12V - 80AH
Startin	g motor	12V - 1.7kW
Altern	ator	12V - 50A

HYDRAULIC SYSTEM

Two variable displacement piston pumps
2 x 27.6 + 19.6 L/min
Gear pump
Two speed axial piston motor with counter
balance valve and parking brake
Axial piston motor with automatic brake
220 Kgf/cm² (3,130 psi)
220 Kgf/cm² (3,130 psi)
175 Kgf/cm² (2,490 psi)
30 Kgf/cm² (430 psi)
Installed

HYDRAULIC CYLINDER

No. of cylinder - bore x stroke	
Boom	75 x 565 mm (3.0" x 22.2")
Arm	65 x 500 mm (2.6" x 19.7")
Bucket	60 X 420 mm (2.4" x 16.5")
Boom swing	75 X 400 mm (3.0" x 15.7")
Dozer blade	85 X 140 mm (3.3" x 5.5")

NOISE LEVEL(CAB)

Noise Levels (dynamic value)	
LwA	94dB
LpA	75dB

COOLANT & LUBLICANT CAPACITY

(refilling)	liter	US gal	UK gal
Fuel tank	38	10.0	8.4
Engine coolant	4.2	1.1	0.9
Engine oil	5.9	1.6	1.3
Hydraulic tank	32	8.5	7.0

TRAVEL LEVERS

Traveling and steering: Two levers with pedals.

CONTROL LEVERS

Туре	
	Two joysticks with one safety lever
Pilot control	(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 rpm

DRIVES & BRAKES

Max. travel speed(high) / (low)	4.4km / 2.4km (2.7mph) / (1.5mph)
Maximum traction force	2.4ton
Maximum gradeability	30°
Parking brake	Wet disc

DIGGING FORCE(ISO)

	2,050 kgf
Bucket	20.1 kN
	4,520 lbf
	1,400 kgf
Arm	13.7 kN
	3,090 lbf

WEIGHT(APPROXIMATE)

Operating weight, including 2,030 mm (6' 8") boom, 1,120 mm (3' 8") arm, SAE heaped 0.08 m3 (0.1 yd3) excavator bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Shoe Width		Rubber shoe 300 mm (12")				
Operating Weight	Cabin	2,880 Kg (6,350lb)				
Operating Weight	Canopy	2,730 Kg (6,020lb)				
Ground Pressure	Cabin	0.29 kg / cm² (4.12psi)				
diouna i ressure	Canopy	0.27 kg / cm ² (3.84psi)				

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	3					

LIFTING CAPACITIES R27Z-9

-5 ft

Rating over-front Rating over-side or 360 degree

1210

570

Load radius At max. reach Load point 2.0 m(7 ft) 3.0 m(10 ft) Reach height m (ft) m(ft) 460 3.07 3.5 m 610 1340 1010 11 ft (10.1) 450 3.0 m 340 kg lb 1340 990 1010 750 (11.9) 10 ft 290 640 250 550 240 450 460 kg lb 840 1340 990 1010 750 830 460 350 2.0 m kg lb 600 450 4.22 1830 1340 1010 770 1320 990 750 (13.8) 320 1.5 m kg lb 1760 1300 1300 970 1010 530 1.0 m kg lb 420 450 320 710 230 510 1230 1280 1700 (14.4) 930 990 730 kg lb 710 1650 1190 1260 900 970 Ground kg lb 740 530 560 400 440 320 330 240 4.22 Line -0.5 m 1650 1630 530 260 2380 1170 1230 880 970 710 730 (13.8)360 740 kg lb 1080 530 400 320 4.00 1650 970 570 2380 1630 880 710 -2 ft -1.0 m 530 kg 2400 1680 1630 1170 1230 880 930 660 -1.5 m kg 1110 780 760 550 400 3.09

Boom : 2.03 m (6'8") / Arm : 1.12 m (3'8") / Bucket : 0.08 m³ (0.1 yd³) SAE heaped / Dozer up : 300mm(12") rubber track with 220kg (485 lb) counterweight

Boom: 2.03 m (6'8") / Arm: 1.12 m (3'8") / Bucket: 0.08 m³ (0.1 yd³) SAE heaped / Dozer down: 300mm(12") rubber track with 220kg (485 lb) counterweight

1210

			Load radius							At max. reach			
	Load point height m(ft)		2.0 m(7 ft)		2.5 m(8 ft)		3.0 m(10 ft)		3.5 m(11 ft)		Capacity		Reach
													m (ft)
	3.5 m	kg									*670	490	3.07
	11 ft	lb									*1480	1080	(10.1)
	3.0 m	kg					*760	480			*600	360	3.63
	10 ft	lb					*1680	1060			*1320	790	(11.9)
	2.5 m	kg					*970	490	*570	370	*570	310	3.99
	8 ft	lb					*2140	1080	*1260	820	*1260	680	(13.1)
	2.0 m	kg			*1270	650	*1170	480	*900	370	*570	270	4.22
	7 ft	lb			*2800	1430	*2580	1060	*1980	820	*1260	600	(13.8)
	1.5 m	kg			*2200	630	*1640	470	*1140	360	*570	260	4.35
-	5 ft	lb			*4850	1390	*3620	1040	*2510	790	*1260	570	(14.3)
	1.0 m	kg			*2710	600	1880	450	1380	350	*600	250	4.39
	3 ft	lb			*5970	1320	4140	990	3040	770	*1320	550	(14.4)
	0.5 m	kg			2840	580	1860	440	1370	350	*630	250	4.35
-	2 ft	lb			6260	1280	4100	970	3020	770	*1390	550	(14.3)
	Ground	kg	*1490	810	2820	570	1850	430	1360	340	*690	260	4.22
	Line	lb	*3280	1790	6220	1260	4080	950	3000	750	*1520	570	(13.8)
_	-0.5 m	kg	*2090	810	2810	570	1840	430	*1070	340	*790	280	4.00
-	-2 ft	lb	*4610	1790	6190	1260	4060	950	*2360	750	*1740	620	(13.1)
	-1.0 m	kg	*3030	820	*2750	570	1850	440			*950	330	3.64
-	-3 ft	lb	*6680	1810	*6060	1260	4080	970			*2090	730	(11.9)
	-1.5 m	kg	*2850	840	*2040	590					*1320	430	3.09
	-5 ft	lb	*6280	1850	*4500	1300					*2910	950	(10.1)
	-2.5 m	kg									*1040	450	3.06
_	-8 ft	lb									*2290	990	(10.0)

- 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

1720

2450

kg lb

1680

Engine coolant temperature Preheat Low battery Air cleaner closing Fuel empty Door and locks, one key ·AM/FM radio and cassette Quick clamp Mechanical suspension seat

Engine oil pressure with seat belt ·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

·Counterweight (220 kg, 485 lb) ·Mono boom (2.03 m, 6' 8") ·Arm (1.12 m, 3' 8") ·Rubber crawler (300mm, 12") ·Single acting piping (Breaker, etc) ·Double acting piping (Clamshell, etc)

(10.1)

3.06

880

420

OPTIONAL EQUIPMENT

ISO standard canopy ·Canopy ROPS(ISO 3471) FOPS(ISO 3449) TOPS(ISO 12117) ·Beacon lamp ·Accumulator, work equipment ·Travel alarm

·Quick coupler ·Tool kit Operator suit

·Heater & Defroster ·Lever pattern change valve