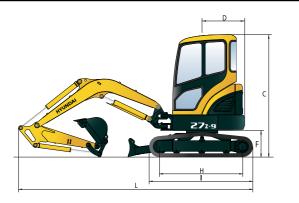
### **Dimensions & Working Range**

### **R27Z-9 DIMENSIONS**





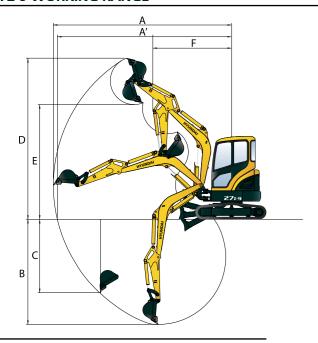
| mm | (ft- | ii |
|----|------|----|
|    |      |    |

| 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")  |
| I | 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") |

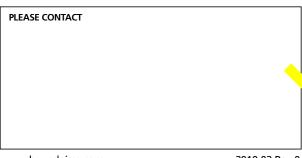
### **R27Z-9 WORKING RANGE**

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 ( 2")     |
| С  | Max. vertical wall digging depth | (6' 1           |
| D  | Max. digging height              | ,_10 (14 )")    |
| E  | Max. dumping height              | 2,890 (9' 6")   |
| F  | Min. swing rad                   | 2,055 (6' 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.



# HYUNDAI N. VY IN VISTRIES CO.,LTD.

### CONSTRUCTION EQUIPMENT

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955 ESTES AVENUE, ELK GROVE VILLAGE, IL. 60007, U.S.A. TEL: (1) 847-437-3333 FAX: (1) 847-437-3574

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







### **Machine Walk-Around**

### Rugged Upper and Lowe Frame

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

### Engine Tech. No.

The 827Z-9 is powered by a proven and reliable, Tier 4 certified Mitsubishi S3L2. This engine provides efficient fuel combustion and sluced noise.

### Efficie c Control System

Control devices are all conveniently located for improved operator comfort and productivity.

afety 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, arm 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.





#### Monit

The monitor, a 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 arm rest settings to best suit your preferred operating condition.

- 1. All pedals are foldable for additional floor space. Foot rest, a decement pedals and boom swing pedal are arranged for convenient access
- 2. Two cup holders are integrated into the right console for large and smarr drink storage.
- 3. An additional storage box with key lock is accessible and the corrator's seat.
- 4. Adjustable arm rests provide additional comfort.
- 5. A sliding fold-in front window is easily opened and afely 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**

HYUNDAI

\*Photo may include optional equipment.

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



### 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.



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.



### 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.







### Easy Acces

The R27Z-9 mas but with accessibility in mind. All doors, covers at a hour were built for complete open access. Regular cryic and printenance is easy and convenient with the P27Z-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 |                                   |
| C A F   | J1995 (gross)        | 24.7 HP ( 18.4kW) at 2,300rpm     |
| SAE     | J1349 (net)          | 23.1 HP ( 17.2kW) at 2,300rpm     |
| DIM     | 627 1/1 (gross)      | 25.0 HP ( 18.4kW) at 2,300rpm     |
| DIN     | 627 1/1 (net)        | 23.1 HP ( 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)                |
| Batteri | es                   | 12V - 80AH                        |
| Startin | g motor              | 12V - 1.7kW                       |
| Altern  | ator                 | 12V - 40A                         |
|         |                      |                                   |

### **HYDRAULIC SYSTEM**

| Main pumps                 |   |
|----------------------------|---|
| Туре                       | Two variable displacement piston pumps    |
| Rated flow                 | 2 x 27.6 + 19.6 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         | 220 Kgf/cm² (3,130 psi)                   |
| Travel circuit             | 220 Kgf/cm² (3,130 psi)                   |
| Swing circuit              | 175 Kgf/cm² (2,490 psi)                   |
| Pilot circuit              | 30 Kgf/cm² (430 psi)                      |
| Service valve              | 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    | 1.7    |
| Hydraulic tank | 32    | 8.5    |        |

#### **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 mn, 2' 8") arm, SAE heaped 0.08 m<sup>3</sup> (0.1 yd<sup>3</sup>) excavator bucket ubricant. coolant, full fuel tank, hydraulic tank and the stan rd ...pn nt.

| Shoe Width       |          | Rubbe 300 mm (12")                  |
|------------------|----------|-------------------------------------|
| Operating Weight | Cabin    | 2,88 <mark>′ Kg (۶ حنا 0</mark> 50) |
| Operating Weight | Canopy   | 2,73( (,6,02( ))                    |
| Ground Pressure  | <u> </u> | 9 kg <sup>2</sup> ,4.12psi)         |
| diodila riessule | Car      | 0.22 n / cm <sup>2</sup> (3.84psi)  |

#### UNDERCARRI. GE

X-leg type center fram is interally welded with reinforced box-section track frames. The underchirage includes lubricated rollers, track adjusters with shock absorbing spring and sprockets, and rubber shoes.

| Cen er fram                       | X-leg type          |
|-----------------------------------|---------------------|
| Tra frame                         | Pentagonal box type |
| No. of collar roller on each side | 1                   |
| of track ller on each side        | 3                   |

### **LIFTING CAPACITIES R27Z-9**

| Rating over-front Rating | over-side or 360 degre |
|--------------------------|------------------------|
|--------------------------|------------------------|

|   |                               | <u> </u> | `              |      |             | <u>, , , , , , , , , , , , , , , , , , , </u> | <u> </u>     |     | ` '          |     | . ,           |      |           |
|---|-------------------------------|----------|----------------|------|-------------|---|--------------|-----|--------------|-----|---------------|------|-----------|
|   |                               |          |                |      |             | Load  | ra⁄ "s       |     |              |     | At max. reach |      |           |
|   | Load point<br>height<br>m(ft) |          | 2.0 m(7 ft)    |      | 2.5 m(8 ft) |   | 3.0 1 10 ft) |     | 3.5 m(11 ft) |     | Capacity      |      | Reach     |
|   |                               |          | l <sup>1</sup> |      | r r         |   | <b>1</b> 4   |     |              |     |               |      | m<br>(ft) |
|   | 3.5 m                         | kg       |                |      |             |   |              |     |              |     | 610           | 460  | 3.07      |
|   | 11 ft                         | lb       |                |      |             |   |              |     |              |     | 1340          | 1010 | (10.1)    |
|   | 3.0 m                         | kg       |                |      |             |   | 610          | 450 |              |     | 460           | 340  | 3.63      |
|   | 10 ft                         | lb       |                |      |             |   | 1340         | 990 |              |     | 1010          | 750  | (11.9)    |
|   | 2.5 m                         | kg       |                |      |             |   | 610          | 450 | 460          | 340 | 380           | 290  | 3.99      |
|   | 8 ft                          | lb       |                |      |             |   | 1340         | 990 | 1010         | 750 | 840           | 640  | (13.1)    |
|   | 2.0 m                         | kg       |                |      | 0.          | 10  | 600          | 450 | 460          | 340 | 350           | 250  | 4.22      |
|   | 7 ft                          | lb       |                |      | 18.         | .340  | 1320         | 990 | 1010         | 750 | 770           | 550  | (13.8)    |
|   | 1.5 m                         | kg       |                |      | 800         | 590   | 590          | 440 | 460          | 340 | 320           | 240  | 4.35      |
| - | 5 ft                          | lb       |                |      | 1760        | 1300  | 1300         | 970 | 1010         | 750 | 710           | 530  | (14.3)    |
|   | 1.0 m                         | kg       |                |      | 7 3         | 560   | 580          | 420 | 450          | 330 | 320           | 230  | 4.39      |
|   | 3 ft                          | lb       |                |      | 17⊍0        | 1230  | 1280         | 930 | 990          | 730 | 710           | 510  | (14.4)    |
|   | 0.5 m                         | kg       |                |      | 750         | 540   | 570          | 410 | 440          | 320 | 320           | 230  | 4.35      |
|   | 2 ft                          | lb       |                |      | 1650        | 1190  | 1260         | 900 | 970          | 710 | 710           | 510  | (14.3)    |
|   | Ground                        | kg       | 10             | 7.0  | 740         | 530   | 560          | 400 | 440          | 320 | 330           | 240  | 4.22      |
|   | Line                          | lb       | ∠380           | 1650 | 1630        | 1170  | 1230         | 880 | 970          | 710 | 730           | 530  | (13.8)    |
|   | -0.5 m                        | kg       | 1080           | 50   | 740         | 530   | 550          | 400 | 440          | 320 | 360           | 260  | 4.00      |
| - | -2 ft                         | lb       | ?380           | 1650 | 1630        | 1170  | 1210         | 880 | 970          | 710 | 790           | 570  | (13.1)    |
|   | -1.0 m                        | 17       | 90             | 760  | 740         | 530   | 560          | 400 |              |     | 420           | 300  | 3.64      |
|   | -3 ft                         | - Ik     | 24             | 1680 | 1630        | 1170  | 1230         | 880 |              |     | 930           | 660  | (11.9)    |
|   | -1.5 m                        | k        | 111c           | 780  | 760         | 550   |              |     |              |     | 550           | 400  | 3.09      |
| - | -5 ft                         | 7        | 150            | 1720 | 1680        | 1210  |              |     |              |     | 1210          | 880  | (10.1)    |
|   | -2.5 m                        | кg       |                |      |             |   |              |     |              |     | 570           | 420  | 3.06      |
|   |                               | lb l     |                |      |             |   |              |     |              |     | 1260          | 930  | (10.0)    |

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

| Boon. 2.03 m (6 3") / 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 |                 |    |             |      |             |      |              |      |              |     |               |      |           |
|---|-----------------|----|-------------|------|-------------|------|--------------|------|--------------|-----|---------------|------|-----------|
|   | on nint         |    | Load radius |      |             |      |              |      |              |     | At max. reach |      |           |
| ,   | Loac pint       |    | 2.0 m(7 ft) |      | 2.5 m(8 ft) |      | 3.0 m(10 ft) |      | 3.5 m(11 ft) |     | Capacity      |      | Reach     |
|   | heigi.<br>m(ft) | •  |             |      | r r         |      |              |      |              |     | r r           |      | m<br>(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)    |

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

Engine oil pressure Quick clamp

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

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)

### **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