## Dimensions & Working Range

### R27Z-9 DIMENSIONS

| A | Overall width of upper structure | 1,485 (4' 10") |
| B | 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") |
| H | 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

| A | Max. digging reach | 4,650 (15' 3") |
| A' | Max. digging reach at ground | 4,515 (14' 10") |
| B | Max. digging depth | 2,500 (8' 2") |
| C | Max. vertical wall digging depth | 2,085 (6' 10") |
| D | Max. digging height | 2,085 (6' 10") |
| E | Max. dumping height | 2,890 (9' 6") |
| F | Min. swing radius | 2,030 (6' 8") |

### Notes

* 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 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!

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.

*Photo may include optional equipment.
Preference

The R27Z-9 offers an operator an optimal work environment with a cabin designed for comfort and sophistication. Operating R27Z-9 is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.

Comfortable Operating Cabin

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.

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.

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.

*Photo may include optional equipment.
New technologies designed to improve performance and precision, make the R27Z-9 smooth, fast and easy to control.

*Photo may include optional equipment.

Boom Swing
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.

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.

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.

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.

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.

Easy Change Air Cleaner
The R27Z-9 is equipped with a durable plastic air cleaner designed for easy maintenance.

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.

*Photo may include optional equipment.
Specifications

**ENGINE**
- Model: Mitsubishi 53L2
  - Type: 4 Cycle, in line, water cooled Diesel
  - Rated flywheel horse power
    - SAE J1995 (gross): 24.7 HP (18.4kW) at 2,300rpm
    - J3348 (net): 23.1 HP (17.2kW) at 2,300rpm
    - DIN: 26.7 HP (19.7kW) at 2,300rpm
  - Max. torque
    - 2.5 m (7 ft): 260 lbf ft (353 Nm)
    - 3.0 m (10 ft): 350 lbf ft (478 Nm)
  - Bore x stroke: 78mm x 92mm (3.07" x 3.62")
  - Piston displacement: 1,318cc (80.4 in³)
  - Batteries: 12V - 50AH
  - Starting motor: 12V - 50AH
  - Alternator: 12V - 50AH

**HYDRAULIC SYSTEM**
- Two variable displacement piston pumps: 2 x 27.6 + 19.6 L/min
- Gear pump
- Two speed axial piston motor with counter rotating brake
- Rated pressure:
  - 220 Kgf/cm² (3,130 psi)
  - 175 Kgf/cm² (2,490 psi)
  - 30 Kgf/cm² (430 psi)
- Installed
- 75 x 565 mm (3.0" x 22.2")
- 65 x 500 mm (2.6" x 19.7")
- 60 X 420 mm (2.4" x 16.5")
- 75 X 400 mm (3.0" x 15.7")
- 85 X 140 mm (3.3" x 5.5")
- 2,050 kgf
- 20.1 kN
- 4,520 lbf
- 1,400 kgf
- 13.7 kN
- 3,090 lbf

**HYDRAULIC CYLINDER**
- Diameter: 150 mm (5.9"")
- Length: 1,100 mm (43.3"")

**NOISE LEVEL(CAB)**
- Noise Levels (dynamic value)
  - 5.9 m (19.4 ft): 94dB
  - 2.0 m (7 ft): 75dB

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

**TRAVEL LEVERS**
- Traveling and steering: Two levers with pedals.

**CONTROL LEVERS**
- Type: Two joystick with one safety lever (LH: Swing and arm, RH: Boom and bucket with horn (ISO))
- Engine throttle
- Pilot control

**DIGGING FORCE(ISO)**
- Bucket
- Arm
- Cab
- Canopy

**WEIGHT(APPORXIMATE)**
- Operating weight, including: 2,080 mm (8' 0") 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
- Operating Weight
- Ground Pressure

**UNDERCARRYAGE**
- Load point height
- Load radius
- Load capacity

**LIFTING CAPACITIES R27Z-9**
- Boom: 2.03 m (8' 0") / 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
- Reach: 2.03 m (8' 0")
- Load point height
- Load radius
- Load capacity

**STANDARD EQUIPMENT**
- ISO standard canopy
- Cab
- Canopy
- Door
- Rear view mirror
- Interior lights
- Windshield wipers
- Crane arm
- Fuel tank
- Engine
- Sonar radar
- Safety sensors
- Grapple arm
- Quick coupler
- Tool kit
- Operator suit
- Heater & Defroster
- Lever pattern change valve

**OPTIONAL EQUIPMENT**
- ISO standard canopy
- Cab
- Canopy
- Door
- Rear view mirror
- Interior lights
- Windshield wipers
- Crane arm
- Fuel tank
- Engine
- Sonar radar
- Safety sensors
- Grapple arm
- Quick coupler
- Tool kit
- Operator suit
- Heater & Defroster
- Lever pattern change valve