

# Robex 60-9S

With Tier 2 Engine installed

\* Photo may include optional equipment.



Head Office(Sales Office)  
14F, GLOBAL R&D CENTER, 477 BUNDANG SUSEO-RO, BUNDANG-GU, SEONGNAM-SI, GYEONGGI-DO, 13553, KOREA

PLEASE CONTACT

# Pride at Work

Hyundai Construction Equipment 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 60-9S

### Machine Walk-Around

#### Rugged Upper and Lower Frame

The upper frame is designed with optimum structural integrity to absorb impact and operational stress. The x-style center frame and reinforced box section track frame provide exceptional strength and longer service life to withstand tough working conditions.

#### Engine Technology

The fuel efficient, Tier 2 certified Yanmar 4TNV94L engine provides proven, reliable power.

#### Efficient Control System

All control devices are arranged for higher productivity and improved operator comfort. Efficient and ergonomic controls allow an operator to control the machine in any working environment. A safety lever on the left-side console is provided to prevent exiting the cabin while hydraulic controls are live.

#### Advanced Hydraulic System

The advanced hydraulic system includes an arm flow summation system, boom holding system and a swing parking brake for smooth and fine control. Other valuable features include a hydraulic damper in the travel pedal, and a hydraulically lubricated swing reducer with a leak-free grease chamber.

#### Comfortable and Durable Cabin

The cabin is roomy and ergonomically designed, for reduced noise and good visibility. The cabin frame meets international standard TOPS, FOPS ensuring operator safety.

#### Operator Convenience

Convenient operator features include a suspension seat, excellent visibility, and variable storage space for advanced operator comfort. The newly designed LED cluster provides current information, including engine RPM, engine coolant, fuel level, and electric components. A hydraulic function safety lock and auto diagnostic features are also available. Lock and failure diagnosis functions are also integrated.

A powerful air conditioning system and Radio/USB interface contribute to a comfortable work environment.

#### Easy and Simple Maintenance

Wide open access of doors, covers, hoods is designed for easier maintenance. The air cleaner and centralized grease fittings are also integrated for easy service.

#### Extended Life of Components

Long life components and wear parts, including hydraulic filters, oil, shims, and bushings, help to reduce operating costs.



\*Photo may include optional equipment.

# Preference



\*Photo may include optional equipment.



## Wide Cabin with Excellent Visibility

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. Special attention was given to a clear, open and convenient interior with plenty of visibility on the machine surroundings and the job at hand. This well balanced combination of precision aspects put the operator in the perfect position to work safely and securely.

## Operator Comfort

The R60-9S operator's cab is designed for a comfortable operating experience. An ergonomically designed suspension seat, adjustable arm rests and a spacious environment helps to minimize operator fatigue. Control levers are easily accessible and an instrument display is provided to keep the operator informed of pertinent machine information.

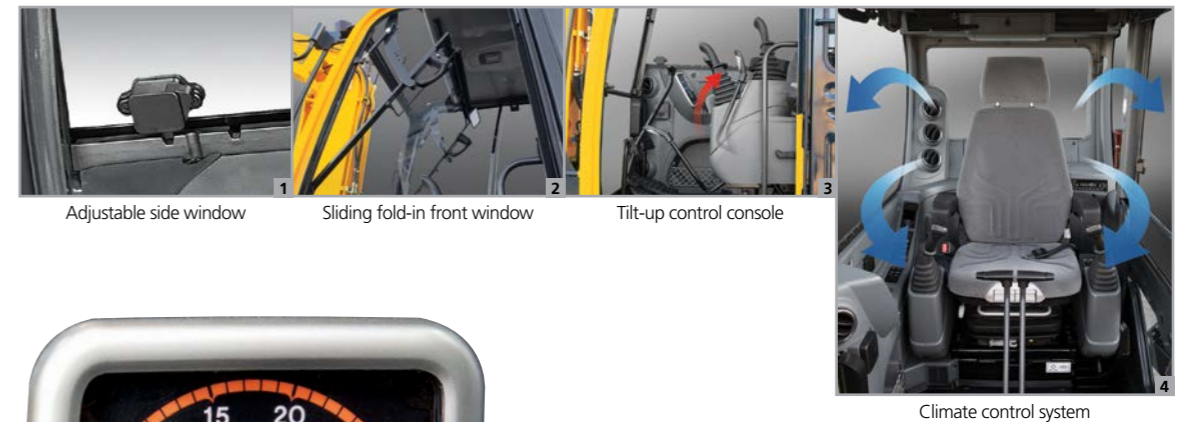
1. A large upper roof glass provides additional visibility and a roller shade is provided to reduce glare and sunlight.
2. An advanced audio system with AM/FM stereo with USB player, plus remotely located control is perfect for listening to music favorites.
3. A hands-free cell phone function is available for safe and convenient phone use.
4. Ergonomically designed joysticks reduce operator fatigue during the work day.
5. Multiple storage compartments are available for additional convenience.



## Enhanced Cabin

Hyundai's R60-9S is equipped for convenience and productivity.

1. Adjustable position window prevents window movement while operating.
2. A sliding fold-in front window is easily opened and safely stored in an open position to improve ventilation and visibility.
3. A tilt-up left side control console provides easier entrance and exit from the cab.
4. A power climate control system provides the operator with optimum air temperature.



## Operator - Friendly Cluster

The advanced new LED cluster allows the operator to select his personal machine preferences. The monitor displays engine rpm, engine oil temperature, water temperature and information for all electronic devices. Button selections are provided for auto idle mode, max power mode, and travel speed. A security feature is also provided to prevent the machine from starting without a proper password.

# Precision & Performance

Innovative hydraulic system technologies make the R60-9S excavator fast, smooth and easy to control. Also R60-9S is designed for maximum performance to keep the operator working productively.



\*Photo may include optional equipment.

## Excellent Performance

Hyundai's 9S series offers the operator maximized productivity and efficiency. A convenient throttle volume dial with LED light allows the operator to customize engine power according to job requirements. A max power button maximizes machine speed and power for mass production.

The R60-9S also features an auto idle system which improves fuel efficiency and reduces cab noise.

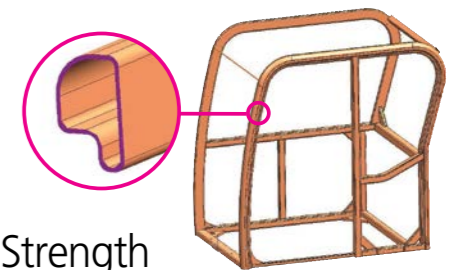
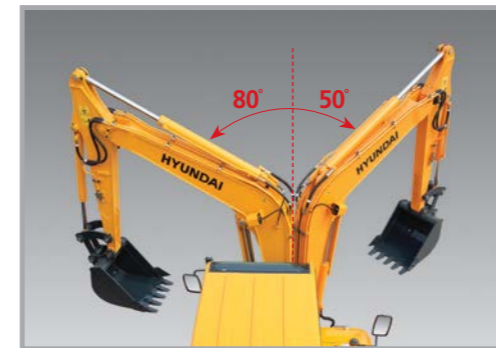
## Improved Hydraulic System



To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption. Improved spool valves in the control valve are engineered to provide more precise flow to each function with less effort. Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a 9S series look like a smooth operator. Boom-down flow regeneration and control valve technology are newly improved.

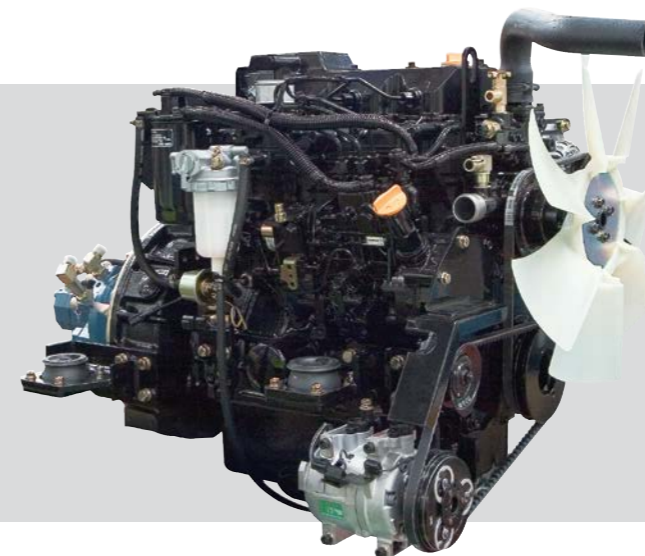
## Variable Swing Boom (Option)

The R60-9S'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. Plus, increased swing torque provides enhanced operating capability on the slope.



## Structure Strength

The 9S series cabin structure has been fitted with stronger but slimmer tubing for more 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.



## Yanmar 4TNV94L

### The Highest Engine Power in its Class

Yanmar 4TNV94L engine provides 20.6 kgf-m (149 lbf-ft) of maximum torque with 53 HP at 2,200rpm of rated power. This means the R60-9S runs with the most power in its class, giving you more power to get the job done.

# Profitability

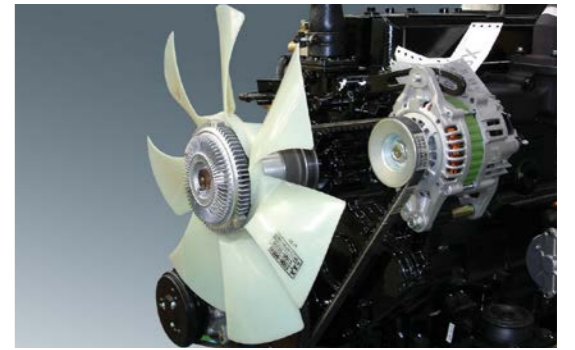
R60-9S is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.



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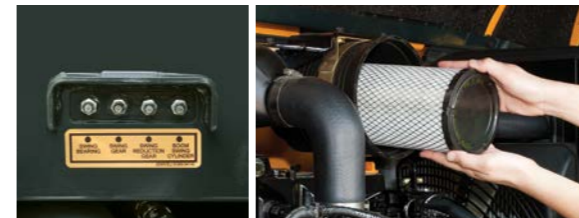
## Fuel Efficient

9S series compact excavators are engineered to be extremely fuel efficient. A newly applied cooling fan clutch contributes to reduced noise and improved fuel efficiency.



## Improved Durability

The R60-9S is equipped with counterweight rear guards to protect the engine hood. Attachment pin with lock-nut type prevents deformation of boom lug and reduces the side play at the boom to arm connection for a long life.



## Easy Access

Centralized grease fittings and easy change plastic air cleaner provide faster, easier service and maintenance.

## Wide Open Engine hood

A newly designed full-open type engine hood makes service more convenient on the R60-9S.



## Extended Life Components

The 9S series is designed for longer lubrication intervals and extended component life. Hydraulic oil can last up to 5,000 hours before changing. Also, a new center pivot roller bearing design, now double tapered, requires less maintenance as well. Long life and extended wear components save the operator time and money.

# Specifications

## ENGINE

|                           |     |  |                            |
|---------------------------|-----|--|----------------------------|
| MODEL                     |     | YANMAR 4TNV94L   |                            |
| Type                      |     | Water cooled, 4 cycle diesel<br>4 cylinders in line,<br>direct injection, low emission |                            |
| Rated flywheel horsepower | SAE | J1995 (gross)  | 53 HP (40 kW) at 2,200 rpm |
|                           |     | J1349 (net)  | 52 HP (39 kW) at 2,200 rpm |
|                           | DIN | 6271/1 (gross)   | 54 PS (40 kW) at 2,200 rpm |
|                           |     | 6271/1 (net)   | 53 PS (39 kW) at 2,200 rpm |
| Max. torque               |     | 20.6 kgf·m (149 lbf·ft) at 1,400 rpm   |                            |
| Bore X stroke             |     | 94 mm (3.7") x 110 mm (4.33")  |                            |
| Piston displacement       |     | 3,054 cc (186 cu in)   |                            |
| Batteries                 |     | 1 x 12 V x 100 AH  |                            |
| Starting motor            |     | 12 V, 3.0 kW   |                            |
| Alternator                |     | 12 V, 100 Amp  |                            |

## HYDRAULIC SYSTEM

|                            |   |
|----------------------------|---|
| MAIN PUMP                  |   |
| Type                       | Variable displacement piston pump                                     |
| Max. flow                  | 2 X 55 + 36.6ℓ/min<br>(2 X 14.5 + 9.7 US gpm / 2 X 12.1 + 8.1 UK gpm) |
| Sub-pump for pilot circuit | Gear pump   |

Cross-sensing and fuel saving pump system

|                  |   |
|------------------|---|
| 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/cm <sup>2</sup> |
| Travel circuit       | 220 kgf/cm <sup>2</sup> |
| Swing circuit        | 220 kgf/cm <sup>2</sup> |
| Pilot circuit        | 30 kgf/cm <sup>2</sup>  |
| Service valve        | Installed               |

|                                  |                             |
|----------------------------------|-----------------------------|
| HYDRAULIC CYLINDERS              |                             |
| No. of cylinder<br>bore X stroke | Boom: 1-110 x 715 mm        |
|                                  | Arm: 1-90 x 850 mm          |
|                                  | Bucket: 1-80 x 660 mm       |
|                                  | Boom swing: 1-95 x 527 mm   |
|                                  | Dozer blade: 1-110 x 224 mm |

## TRAVEL SYSTEM

|                                 |                                    |
|---------------------------------|------------------------------------|
| Drive method                    | Full hydrostatic type              |
| Drive motor                     | Axial piston motor, in-shoe design |
| Reduction system                | Planetary reduction gear           |
| Max. drawbar pull               | 5,300 kgf                          |
| Max. travel speed(high) / (low) | 4.0 km/hr / 2.2 km/hr              |
| Gradeability                    | 35° (70%)                          |
| Parking brake                   | Multi-wet disc                     |

## CONTROLS

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

|                        |   |
|------------------------|---|
| Pilot control          | Two joysticks with one safety lever<br>(LH): Arm swing, Boom swing<br>(RH): Boom and bucket (ISO) |
| Traveling and steering | Two levers with pedals  |
| Engine throttle        | Cabin(Dual type), E/G(Mechanical)   |

## SWING SYSTEM

|                           |                          |
|---------------------------|--------------------------|
| Swing motor               | Axial piston motor       |
| Swing reduction           | Planetary gear reduction |
| Swing bearing lubrication | Grease-bathed            |
| Swing brake               | Multi wet disc           |
| Swing speed               | 9.2 rpm                  |

## COOLANT & LUBRICANT CAPACITY

| (Refilling)           | liter | US gal | UK gal |
|-----------------------|-------|--------|--------|
| Fuel tank             | 125.0 | 33.0   | 27.5   |
| Engine coolant        | 9.5   | 2.5    | 2.1    |
| Engine oil            | 11.6  | 3.1    | 2.6    |
| Swing device-gear oil | 1.5   | 0.4    | 0.3    |
| Final drive(each)     | 1.2   | 0.3    | 0.3    |
| Hydraulic tank        | 70.0  | 18.5   | 15.4   |
| Hydraulic system      | 120.0 | 31.7   | 26.4   |

## UNDERCARRIAGE

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricate rollers, track adjusters with shock absorbing springs and sprockets, and track chain with triple grouser shoes.

|                                  |                     |
|----------------------------------|---------------------|
| Center frame                     | X - leg type        |
| Track frame                      | Pentagonal box type |
| No. of track shoe on each side   | 40                  |
| No. of upper roller on each side | 1                   |
| No. of lower roller on each side | 5                   |

## OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 3,000 mm boom, 1,600 mm arm, SAE heaped 0.18 m<sup>3</sup> digging bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

|                              |          |
|------------------------------|----------|
| MAJOR COMPONENT WEIGHT       |          |
| Upperstructure               | 2,710 kg |
| Mono boom(with arm cylinder) | 310 kg   |
| OPERATING WEIGHT             |          |
| Operating weight             | 5,650 kg |

·Mono boom with blade

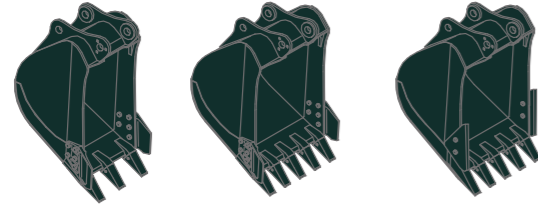
# Specifications

## BUCKETS

| Capacity              |                     | Width                |                   | Weight |
|-----------------------|---------------------|----------------------|-------------------|--------|
| SAE heaped            | CECE heaped         | Without side cutters | With side cutters |        |
| 0.07 m <sup>3</sup>   | 0.06 m <sup>3</sup> | 315 mm               | 360 mm            | 115 kg |
| 0.18 m <sup>3</sup>   | 0.15 m <sup>3</sup> | 670 mm               | 740 mm            | 170 kg |
| ◆ 0.18 m <sup>3</sup> | 0.15 m <sup>3</sup> | 610 mm               | 740 mm            | 170 kg |

## DIGGING FORCE

| Arm                  | Length | 1,600 mm  | 1,900 mm  |
|----------------------|--------|-----------|-----------|
|                      | Weight | 210 kg    | 230 kg    |
| Bucket digging force | SAE    | 37.7 kN   | 37.7 kN   |
|                      |        | 3,850 kgf | 3,850 kgf |
|                      | ISO    | 8,490 lbf | 8,490 lbf |
|                      |        | 42.4 kN   | 42.4 kN   |
| Arm crowd force      | SAE    | 4,330 kgf | 4,330 kgf |
|                      |        | 9,550 lbf | 9,550 lbf |
|                      | ISO    | 28.4 kN   | 25.5 kN   |
|                      |        | 2,900 kgf | 2,600 kgf |
| Arm crowd force      | SAE    | 6,390 lbf | 5,730 lbf |
|                      |        | 31.9 kN   | 28.7 kN   |
|                      | ISO    | 3,260 kgf | 2,930 kgf |
|                      |        | 7,190 lbf | 6,460 lbf |



SAE heaped 0.07 m<sup>3</sup> 0.18 m<sup>3</sup> ◆ 0.18 m<sup>3</sup>

◆ Heavy duty bucket

\*Arm weight including cylinder and linkage.

# Lifting Capacity

## R60-9S

Rating over-front Rating over-side or 360 degree

Boom : 3.0m / Arm : 1.6 m / Bucket : 0.18m<sup>3</sup> SAE heaped / Dozer blade down

| Load point height (m) | kg | Load radius |       |       |       |       |       |       |     | At max. reach |           |      |
|-----------------------|----|-------------|-------|-------|-------|-------|-------|-------|-----|---------------|-----------|------|
|                       |    | 2.0 m       |       | 3.0 m |       | 4.0 m |       | 5.0 m |     | Capacity      | Reach (m) |      |
| 5.0 m                 | kg |             |       |       |       |       |       |       |     | *950          | *950      | 4.12 |
| 4.0 m                 | kg |             |       |       |       | *1020 | *1020 |       |     | *980          | 780       | 5.08 |
| 3.0 m                 | kg |             |       |       |       | *1090 | *1090 |       |     | *1010         | 650       | 5.60 |
| 2.0 m                 | kg | *3050       | *3050 | *1690 | *1690 | *1320 | 1100  | *1170 | 760 | *1050         | 590       | 5.84 |
| 1.0 m                 | kg |             |       | *2360 | 1610  | *1600 | 1040  | *1280 | 740 | *1100         | 580       | 5.85 |
| Ground                | kg | *2350       | *2350 | *2700 | 1540  | *1790 | 1000  | *1350 | 720 | *1140         | 610       | 5.63 |
| -1.0 m                | kg | *3600       | 3020  | *2670 | 1530  | *1800 | 990   |       |     | *1180         | 700       | 5.13 |
| -2.0 m                | kg | *3770       | 3060  | *2300 | 1540  |       |       |       |     | *1140         | 960       | 4.23 |
| -3.0 m                | kg | *2040       | *2040 |       |       |       |       |       |     |               |           |      |

- 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.

- The load point is a hook located on the back of the bucket.
- (\*) indicates the load limited by hydraulic capacity.

# Lifting Capacity

Rating over-front Rating over-side or 360 degree

## R60-9S

Boom : 3.0m / Arm : 1.6 m / Bucket : 0.18m<sup>3</sup> SAE heaped / Dozer blade up

| Load point height (m) | kg | Load radius |       |       |      |       |       |       |     | At max. reach |           |      |
|-----------------------|----|-------------|-------|-------|------|-------|-------|-------|-----|---------------|-----------|------|
|                       |    | 2.0 m       |       | 3.0 m |      | 4.0 m |       | 5.0 m |     | Capacity      | Reach (m) |      |
| 5.0 m                 | kg |             |       |       |      |       |       |       |     | *950          | *950      | 4.12 |
| 4.0 m                 | kg |             |       |       |      | *1020 | *1020 |       |     | *980          | 740       | 5.08 |
| 3.0 m                 | kg |             |       |       |      | *1090 | 1080  |       |     | 890           | 610       | 5.60 |
| 2.0 m                 | kg | *3050       | *3050 | *1690 | 1630 | *1320 | 1030  | 1040  | 710 | 810           | 550       | 5.84 |
| 1.0 m                 | kg |             |       | 2250  | 1510 | 1430  | 980   | 1010  | 690 | 800           | 540       | 5.85 |
| Ground Line           | kg | *2350       | *2350 | 2170  | 1440 | 1390  | 940   | 990   | 670 | 840           | 570       | 5.63 |
| -1.0 m                | kg | *3600       | 2780  | 2150  | 1420 | 1370  | 930   |       |     | 970           | 660       | 5.13 |
| -2.0 m                | kg | *3770       | 2830  | 2170  | 1440 |       |       |       |     | *1140         | 900       | 4.23 |
| -3.0 m                | kg | *2040       | *2040 |       |      |       |       |       |     |               |           |      |

Boom : 3.0m / Arm : 1.9 m / Bucket : 0.18m<sup>3</sup> SAE heaped / Dozer blade down

| Load point height (m) | kg | Load radius |       |       |       |       |      |       |      | At max. reach |           |      |     |      |
|-----------------------|----|-------------|-------|-------|-------|-------|------|-------|------|---------------|-----------|------|-----|------|
|                       |    | 2.0 m       |       | 3.0 m |       | 4.0 m |      | 5.0 m |      | Capacity      | Reach (m) |      |     |      |
| 5.0 m                 | kg |             |       |       |       |       |      |       |      | *870          | *870      | 4.58 |     |      |
| 4.0 m                 | kg |             |       |       |       |       |      |       |      | *900          | 700       | 5.43 |     |      |
| 3.0 m                 | kg |             |       |       |       |       |      | *950  | *950 | *990          | 780       | *930 | 590 | 5.91 |
| 2.0 m                 | kg |             |       | *1440 | *1440 | *1190 | 1110 | *1080 | 760  | *970          | 540       | 6.13 |     |      |
| 1.0 m                 | kg | *2050       | *2050 | *2160 | 1630  | *1500 | 1050 | *1220 | 740  | *1020         | 530       | 6.14 |     |      |
| Ground Line           | kg | *2280       | *2280 | *2610 | 1540  | *1730 | 1000 | *1320 | 710  | *1060         | 550       | 5.93 |     |      |
| -1.0 m                | kg | *3230       | 2980  | *2700 | 1510  | *1810 | 980  | *1310 | 700  | *1100         | 620       | 5.48 |     |      |
| -2.0 m                | kg | *4140       | 3020  | *2450 | 1520  | *1630 | 980  |       |      | *1100         | 810       | 4.67 |     |      |
| -3.0 m                | kg | *2760       | *2760 | *1640 | 1570  |       |      |       |      |               |           |      |     |      |

Boom : 3.0m / Arm : 1.9 m / Bucket : 0.18m<sup>3</sup> SAE heaped / Dozer blade up

| Load point height (m) | kg | Load radius |       |       |       |       |      |       |      | At max. reach |           |      |     |      |
|-----------------------|----|-------------|-------|-------|-------|-------|------|-------|------|---------------|-----------|------|-----|------|
|                       |    | 2.0 m       |       | 3.0 m |       | 4.0 m |      | 5.0 m |      | Capacity      | Reach (m) |      |     |      |
| 5.0 m                 | kg |             |       |       |       |       |      |       |      | *870          | *870      | 4.58 |     |      |
| 4.0 m                 | kg |             |       |       |       |       |      |       |      | *900          | 660       | 5.43 |     |      |
| 3.0 m                 | kg |             |       |       |       |       |      | *950  | *950 | *990          | 740       | 810  | 550 | 5.91 |
| 2.0 m                 | kg |             |       | *1440 | *1440 | *1190 | 1040 | 1040  | 720  | 750           | 500       | 6.13 |     |      |
| 1.0 m                 | kg | *2050       | *2050 | *2160 | 1530  | 1440  | 980  | 1010  | 690  | 740           | 490       | 6.14 |     |      |
| Ground Line           | kg | *2280       | *2280 | 2170  | 1440  | 1390  | 940  | 990   | 670  | 770           | 510       | 5.93 |     |      |
| -1.0 m                | kg | *3230       | 2740  | 2140  | 1410  | 1360  | 910  | 980   | 660  | 870           | 580       | 5.48 |     |      |
| -2.0 m                | kg | *4140       | 2780  | 2150  | 1420  | 1370  | 920  |       |      | *1100         | 760       | 4.67 |     |      |
| -3.0 m                | kg | *2760       | *2760 | *1640 | 1470  |       |      |       |      |               |           |      |     |      |

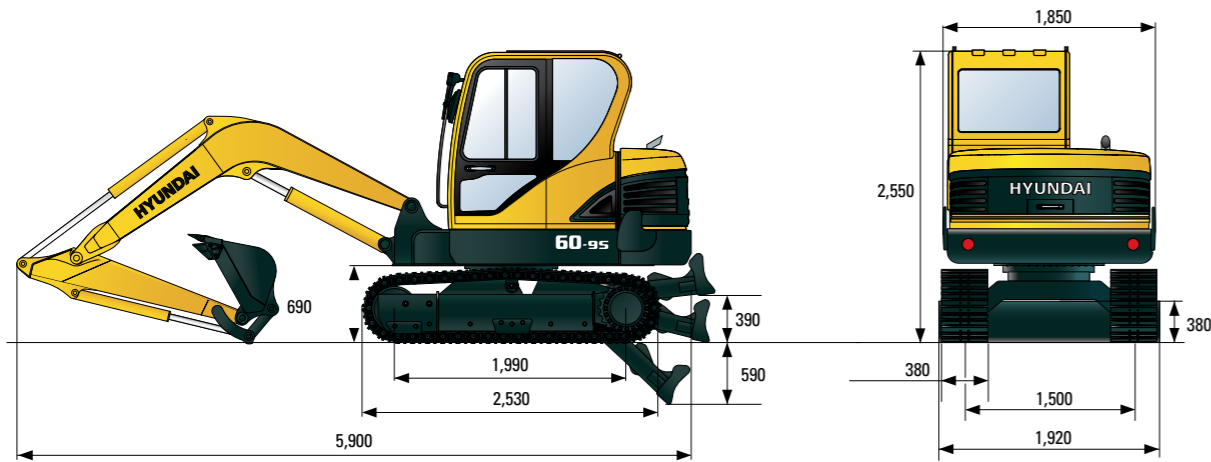
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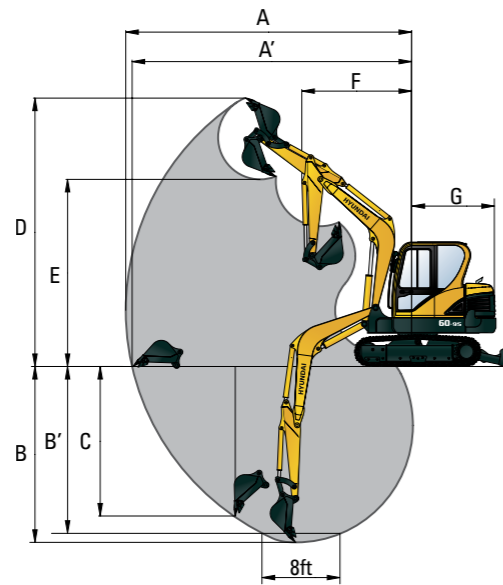
# Dimensions & Working Range

## R60-9S DIMENSIONS

unit: mm(ft · in)



## R60-9S WORKING RANGE



unit: mm

|                                    |       |       |
|------------------------------------|-------|-------|
| Boom length                        | 3,000 |       |
| Arm length                         | 1,600 | 1,900 |
| A Max. digging reach               | 6,150 | 6,400 |
| A' Max. digging reach on ground    | 6,010 | 6,270 |
| B Max. digging depth               | 3,820 | 4,060 |
| B' Max. digging depth (8ft level)  | 3,420 | 3,700 |
| C Max. vertical wall digging depth | 3,200 | 3,460 |
| D Max. digging height              | 5,780 | 5,920 |
| E Max. dumping height              | 4,050 | 4,180 |
| F Min. swing radius                | 2,350 | 2,360 |
| G Tail swing radius                | 1,650 | 1,650 |

## STANDARD EQUIPMENT

### ISO standard cabin

- Cabin FOPS(ISO 10262 Level I) TOPS(ISO 12117)
- All-weather steel cab with all-around visibility
- Safety glass windows
- Rise-up type windshield wiper
- Sliding fold-in front window
- Sliding side window
- Lockable door
- Accessory box & Ash-tray

### Centralized monitoring

- Engine speed
- Gauges
  - Fuel level gauge
  - Engine coolant temperature gauge
- Warning
  - Fuel level

- Engine oil pressure
- Engine coolant temperature
- Hyd. oil temperature
- Low battery
- Air cleaner closing

### Door and cab locks, one key

### Radio / USB player with remote control

### Two outside rear view mirrors

### Mechanical suspension seat with heater

### Fully adjustable suspension seat with seat belt

### Console box tilting system(LH.)

### Four front working lights

### Electric horn

### Battery (1 x 12 V x 100 AH)

### Battery master switch

### 12 volt power supply

### Removable clean out screen for radiator

### Automatic swing brake

### Removable reservoir tank

### Water separator, fuel line

### Mono fixed boom (3.0 m)

### Arm (1.6 m)

### Track shoes (380 mm)

### Track rail guard

### Starting aid (air grid heater) cold weather

### Single acting piping kit (breaker, etc)

### Viscous fan clutch

## OPTIONAL EQUIPMENT

### Air-conditioner & heater

### Fuel filler pump (35l/min, 9.2 US gpm)

### Beacon lamp

### Double acting piping kit (clamshell, etc)

### 4 way acting piping kit (wood grab, etc)

### Accumulator, work equipment lowering

### Electric transducer

### Cabin front (2) and rear (1) work lamp

### Travel alarm

### Quick coupler

### Rubber crawler (400mm)

### Long arm (1.9m)

### Tool kit

### Counter weight (285kg)

(335kg)

### Swing boom (3.0 m)

\* 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.