STANDARD EQUIPMENT

ISO standard cabin
- Cab door (Grade 304 SS409)
- Torsion (ISO 1217)
- All-weather steel cab with all-around visibility
- Safety glass side windows
- Rise-up type windshield wiper
- Sliding hood in front window
- Sliding side window
- Lockable door
- Accessory box & Ash-tray
- Centralised monitoring
- Engine speed
- Fuel level gauge
- Engine coolant temperature gauge

Optional equipment

- Warning
- Engine oil pressure
- Engine coolant temperature
- Hyd. oil temperature
- Low battery
- Air cleaner diving
- Fuel prefilter
- Door and cab locks, one key
- AM/FM radio and CD/MP3 with remote control
- Two outside rear view mirrors
- Fully adjustable suspension seat with seat belt
- Console front wiring system(s)
- Four front working lights
- Electric horn
- Battery (12V x 180 AH)

- Battery master switch
- 12 volt power supply (DC-DC converter)
- Removable clean out screen for radiator
- Automatic acting brake
- Removable reservoir tank
- Water separator, fuel line
- Counterweight (2380kg, 5200lbs)
- Main boom (8.6 m, 28’)
- Arms (3.0 m, 10’)
- Track shoes (380 mm, 15”)
- Track rail guard
- Starting aid (air grid heater) cold weather

ISO standard cabin
- Cabin ROPS (ISO 3479)
- FOPS (ISO 3449)
- TOPS (ISO 12117)
- All-weather steel cab with all-around visibility
- Safety glass side windows
- Rise-up type windshield wiper
- Sliding hood in front window
- Sliding side window
- Lockable door
- Accessory box & Ash-tray
- Centralised monitoring
- Engine speed
- Fuel level gauge
- Engine coolant temperature gauge

Optional equipment

- Warning
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- Track rail guard
- Starting aid (air grid heater) cold weather

- Air-conditioner & heater
- Fuel filler pump (35l/min, 9.2 US gpm)
- Beacon lamp
- Single acting piping kit (breaker, etc)
- Double acting piping kit (manifold, etc)
- Accumulator, work equipment lowering
- Durable transducer
- Travel alarm
- Quick coupler
- Rubber crawler (600mm, 16”)
- Narrow bucket (0.07m 3, 0.09yd 3)
- Long arm (1.9m, 6’3”)
- Tool kit
- Operator suit
- Mechanical suspension seat with heater

- Accumulator, work equipment lowering
- Durable transducer
- Travel alarm
- Quick coupler
- Rubber crawler (600mm, 16”)
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- Operator suit
- Mechanical suspension seat with heater

* 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.

Please contact

www.hyundai-ce.com

2010.05 Rev 0

We build a better future
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!

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.

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 R55-9’s 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, ROPS, 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 CD/MP3 interface contribute to a productive 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.

Engine Technology
The fuel efficient, Tier III certified Yanmar 4TNV98 engine provides proven, reliable power. This engine is electronically controlled for optimum fuel-to-air ratio and clean, efficient combustion and provides low noise, anti-restart features.

*Photo may include optional equipment.
Preference

The powerful and sophisticated R55-9 provides the operator with a large, comfortable operating environment and an ergonomically designed suspension seat with arm rests for an enhanced operating experience. For additional convenience, precision designed joystick controllers and an easy to read monitor provide the operator with quick access to information and machine control.

Operator Comfort

The R55-9 operator’s cab is designed for a comfortable operating experience. An ergonomically designed suspension seat, adjustable arm rests and a spacious environment help to minimize operator fatigue. Control levers are easily accessible and a 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/CD player interface input, plus remotely controlled is perfect for listening to music and enjoying your favorite tunes.
3. A hands-free cell phone function is available for safe and convenient phone use.
4. Ergonomically designed joystick controllers reduce operator fatigue during the work day.
5. Multiple storage compartments are available for additional convenience.

Enhanced Cabin

Hyundai’s R55-9 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 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.

1. 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.
2. This well balanced combination of precision aspects put the operator in the perfect position to work safely and securely.

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.

*Photo may include optional equipment.
**Precision & Performance**

Innovative hydraulic system technologies make the R55-9 excavator fast, smooth and easy to control. Also R55-9 is designed for maximum performance to keep the operator working productively.

*Photo may include optional equipment.

**Excellent Performance**

Hyundai’s 9 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 R55-9 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 9 series look like a smooth operator. Newly improved features include arm-in and boom-down flow regeneration, improved control valve technology and innovative auto boom and swing priority for optimal performance in any application.

**Variable Swing Boom**

The R55-9’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. Plus, increased swing torque provides enhanced operating capability on the slope.

**Structure Strength**

The 9 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 4TNV98**

The Highest Engine Power in its Class

Yanmar 4TNV98 engine provides 20.5 kgf.m (148 lbf ft) of maximum torque with 57 HP at 2,400rpm of rated power. This means the R55-9 runs with the most power in its class, giving you more power to get the job done.
Profitable

R55-9 is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.

Fuel Efficient

9 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 R55-9 is equipped with counterweight rear guards to protect the engine hood. Boom cylinder cover provides added protection on the tough working condition.

Extended Life Components

9 series excavators were designed with improved bushings, extended lubrication intervals, wear resistant and noise reducing polymer shims, extended-life hydraulic filters (1,000hr), long-life hydraulic oil (5,000hr), more efficient cooling systems and integrated preheating systems to extend service intervals, minimize operating costs and reduce machine down time.

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 R55-9.

*Photo may include optional equipment.
### Specifications

#### ENGINE

<table>
<thead>
<tr>
<th>Model</th>
<th>YANMAR 4TN98</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Water cooled, 4-cylinder diesel</td>
</tr>
<tr>
<td>Rated hp</td>
<td>57 HP (42.5 kW) at 2,400 rpm</td>
</tr>
<tr>
<td>Max. flow</td>
<td>0.06 m³ (0.08 yd³)</td>
</tr>
<tr>
<td>Sub-pump for pilot circuit</td>
<td>0.15 m³ (0.20 yd³)</td>
</tr>
</tbody>
</table>

#### HYDRAULIC SYSTEM

**MAIN PUMP**

- Type: Two variable displacement piston pumps
- Max. flow: 2 X 51.6 l/min (14.5 US gpm)
- Sub-pump for pilot circuit: Gear pump
- Gear-speed and fuel saving pump system

**HYDRAULIC MOTORS**

- Travel: Two speed axial piston motor with counterbalance valve and parking brake
- Swing: Axial piston motor with automatic brake

**RELIEF VALVE SETTING**

- Implement circuits: 220 kgf/cm² (3,130 psi)
- Travel circuit: 180 kgf/cm² (2,560 psi)
- Swing circuit: 120 kgf/cm² (1,710 psi)
- Pilot circuit: 30 kgf/cm² (430 psi)

**HYDRAULIC CYLINDERS**

- No. of cylinder: Boom: 1-110, Arm: 1-90, Bucket: 1-80
- Bore X stroke: 670 mm (26.4") boom, 1,600 mm (5' 3") arm, 800 mm (31") bucket
- Stroke: 400 mm (15.7") boom, 850 mm (33.5") arm, 660 mm (26") bucket
- Service valve: Installed

**TRAVEL SYSTEM**

- Drive method: Full hydropneumatic type
- Drive motor: Axial piston motor, in-shoe design
- Reduction system: Planetary reduction gear
- Max. drawbar pull: 3,050 kgf (6,750 lbs)
- Max. travel speed/light (left)/diesel: 4.0 km/hr (2.5 mph)
- Gradability: 35% (70%)
- Parking brake: Multi-disc brake

**COOLANT & LUBRICANT CAPACITY**

<table>
<thead>
<tr>
<th>(Refilling)</th>
<th>Liter</th>
<th>US gal</th>
<th>UK gal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boilover</td>
<td>25.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper case</td>
<td>180</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counterv</td>
<td>230</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mono boom/extend arm cylinder</td>
<td>310</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OPERATING WEIGHT (APPROXIMATE)**

<table>
<thead>
<tr>
<th>Operating weight (kg)</th>
<th>Mono boom/extend arm cylinder</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,650 kg (12,460 lbs)</td>
<td></td>
</tr>
</tbody>
</table>

**BUCKETS**

<table>
<thead>
<tr>
<th>SAE heaped</th>
<th>Capacity</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.07 m³ (0.09 yd³)</td>
<td>315 mm (12.4&quot;)</td>
<td>115 kg (251 lb)</td>
</tr>
<tr>
<td>0.18 m³ (0.24 yd³)</td>
<td>0.15 m³ (0.20 yd³)</td>
<td>780 kg (1,725 lb)</td>
</tr>
</tbody>
</table>

**DIGGING FORCE**

<table>
<thead>
<tr>
<th>Arm</th>
<th>Length (m)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm</td>
<td>1.600 mm (5' 3&quot;)</td>
<td>210 kg (460 lbs)</td>
</tr>
<tr>
<td>Bucket digging force</td>
<td>230 kg (510 lbs)</td>
<td></td>
</tr>
<tr>
<td>ISO</td>
<td>3,890 kgf</td>
<td>3,330 lbf</td>
</tr>
<tr>
<td>Arm</td>
<td>2,900 kgf</td>
<td>7,180 lbf</td>
</tr>
</tbody>
</table>

**LIFTING CAPACITY**

**Rating over-front**

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. (*) indicates the load limited by hydraulic capacity.
### Lifting Capacity

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

#### Lifting Capacity

- **Boom:** 3.0 m (9' 10") / **Arm:** 1.9 m (6' 3") / **Bucket:** 0.18 m$^3$ (0.24 yd$^3$) SAE heaped / **Dozer blade down** with 230 kg (510 lb) counterweight.

<table>
<thead>
<tr>
<th>Load point height (m)</th>
<th>2.0 m (6' 7&quot;)</th>
<th>3.0 m (9' 10&quot;)</th>
<th>4.0 m (13' 1&quot;)</th>
<th>5.0 m (16' 4&quot;)</th>
<th>Capacity (m$^3$)</th>
<th>Reach (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 m (16' 7&quot;) kg</td>
<td>2,400</td>
<td>3,000</td>
<td>3,900</td>
<td>4,900</td>
<td>3,050</td>
<td>8.95</td>
</tr>
<tr>
<td>4.0 m (13' 1&quot;) kg</td>
<td>2,000</td>
<td>2,600</td>
<td>3,300</td>
<td>4,200</td>
<td>2,750</td>
<td>7.60</td>
</tr>
<tr>
<td>3.0 m (10' 2&quot;) kg</td>
<td>1,600</td>
<td>2,200</td>
<td>2,900</td>
<td>3,700</td>
<td>2,350</td>
<td>6.95</td>
</tr>
<tr>
<td>2.0 m (6' 7&quot;) kg</td>
<td>1,200</td>
<td>1,800</td>
<td>2,400</td>
<td>3,100</td>
<td>1,900</td>
<td>6.05</td>
</tr>
<tr>
<td>1.0 m (3' 4&quot;) kg</td>
<td>800</td>
<td>1,200</td>
<td>1,600</td>
<td>2,100</td>
<td>1,300</td>
<td>5.20</td>
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<td>5.20</td>
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<td></td>
<td></td>
<td>720</td>
<td>720</td>
<td>5.20</td>
</tr>
</tbody>
</table>

2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load. The load point is a hook located on the back of the bucket.

3. (*) indicates the load limited by hydraulic capacity.

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### Dimensions & Working Range

#### R55-9 DIMENSIONS

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<td>2,400</td>
<td>3,000</td>
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</tr>
</tbody>
</table>

#### R55-9 WORKING RANGE

- **Boom length:** 3,000 (9' 10")
- **Arm length:** 1,400 (4' 7")
- **A.** Max. digging reach 6,100 (20' 0")
- **A'.** Max. digging reach on ground 6,610 (21' 9")
- **B.** Max. digging depth 4,050 (13' 4")
- **B'.** Max. vertical wall digging depth 3,990 (13' 1")
- **C.** Max. digging height 5,460 (18' 0")
- **D.** Max. dumping height 4,960 (16' 4")
- **E.** Min. swing radius 4,260 (14' 0")
- **F.** Tail swing radius 1,650 (5' 5")

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. (*) indicates the load limited by hydraulic capacity.

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