

**Robex**

# 55w-9A

With Tier 4 Interim Engine installed

MOVING YOU FURTHER

**HYUNDAI HEAVY INDUSTRIES**



\*Photo may include optional equipment.

 **HYUNDAI**  
HEAVY INDUSTRIES CO.,LTD.



# PRIDE AT WORK

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!***





# Robex 55w-9A

## Machine Walk-Around

### Engine Technology

The fuel efficient, Tier 4 Final certified Yanmar 4TNV98C engine provides proven, reliable power. This engine is electronically controlled for optimum fuel to air ratio and clean, efficient combustion and provides low noise.

### 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.

### 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 R55-9A'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 LCD 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 intergrated.


A powerful air conditioning system and 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.



\*Photo may include optional equipment.

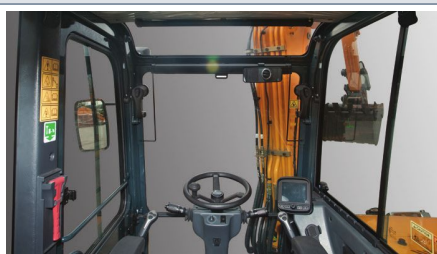


# PREFERENCE

Operating a 9A series is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.



\*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 R55W-9A 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 R55W-9A 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 LCD 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 R55W-9 excavator fast, smooth and easy to control. Also R55W-9 is designed for maximum performance to keep the operator working productively.



\*Photo may include optional equipment.



## Excellent Performance

Hyundai's 9A 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 R55W-9A also features an auto idle system which improves fuel efficiency and reduces cab noise.

## Improved Hydraulic System

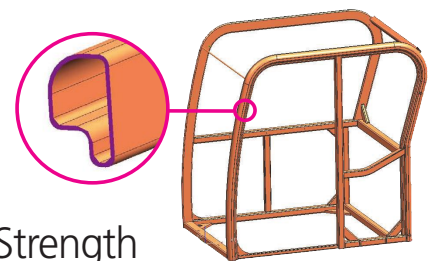
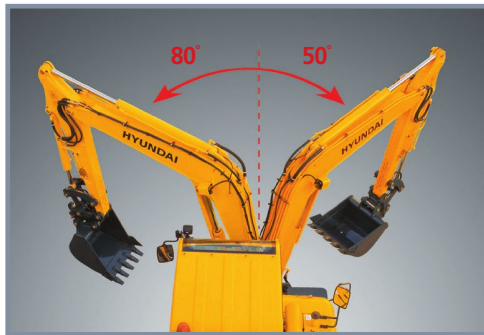


To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption. Improved spool valves in the control valve are engineered 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. Boom-down flow regeneration

and control valve technology are newly improved.

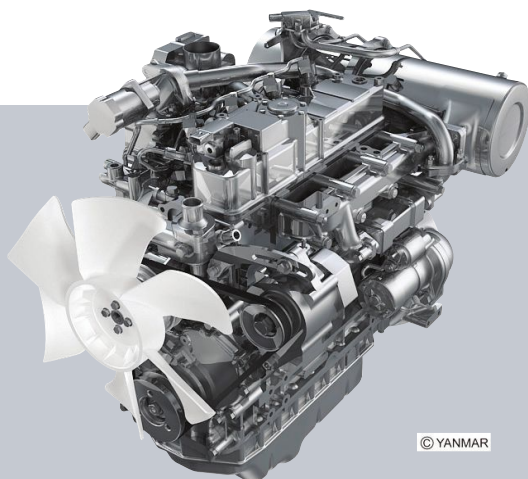
## Variable Swing Boom

The R55W-9A'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 9A 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.



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## Yanmar 4TNV98

### The Highest Engine Power in its Class

Yanmar 4TNV98 engine provides 24 kgf.m (174 lbf.ft) of maximum torque with 66.9 HP at 2,400rpm of rated power. This means the R55W-9A runs with the most power in its class, giving you more power to get the job done.

# PROFITABILITY

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



\*Photo may include optional equipment.



## Fuel Efficient

9A series compact excavators are engineered to be extremely fuel efficient.



## Improved Durability

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

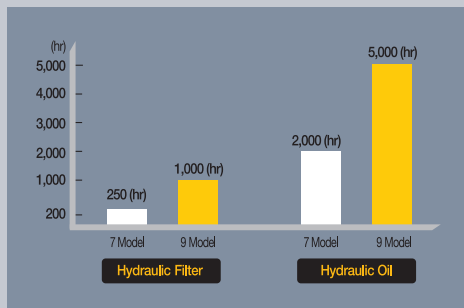
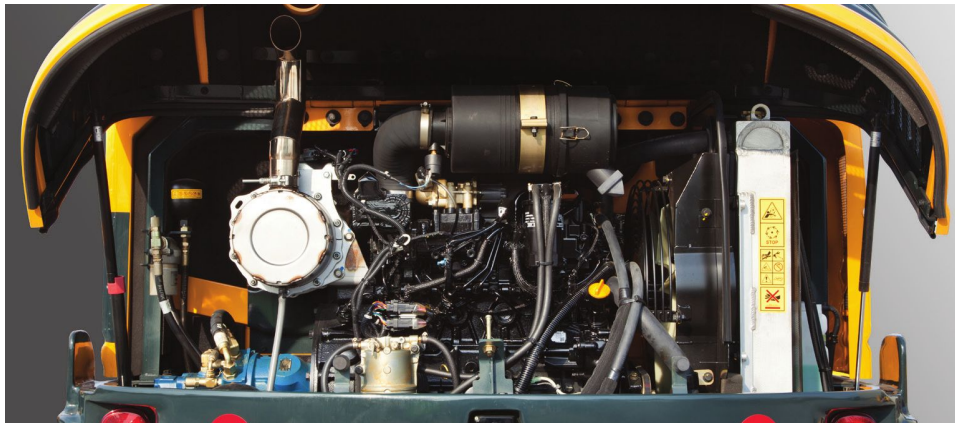


## Easy Access

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 R55-9A.



## Extended Life Components

9A series excavators were designed with bushings designed for extended lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), extended-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated preheating systems which extend service intervals, minimize operating costs and reduce machine down time.



# Specifications

## ENGINE

MODEL		YANMAR 4TNV98	
Type		Water cooled, 4 cycle diesel 4 cylinders in line, direct injection, low emission	
Rated flywheel horsepower	SAE	J1995 (gross)	66.9 HP (49.9 kW) at 2,400 rpm
		J1349 (net)	65.1 HP (48.5 kW) at 2,400 rpm
	DIN	6271/1 (gross)	67.8 PS (49.9 kW) at 2,400 rpm
		6271/1 (net)	66 PS (48.5 kW) at 2,400 rpm
Max. torque		24 kgf-m (174 lbf-ft) at 1,560 rpm	
Bore X stroke		98 mm (3.86") x 110 mm (4.33")	
Piston displacement		3,319 cc (203 cu in)	
Batteries		1 x 12 V x 100 AH	
Starting motor		12V-3.0 kW	
Alternator		12V-80 Amp	

## HYDRAULIC SYSTEM

MAIN PUMP	
Type	Two variable displacement piston pumps
Max. flow	2 X 60.5 ℓ/min(16.0 US gpm/13.3 UK gpm)pumps
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> (3,130 psi)
Travel circuit	220 kgf/cm <sup>2</sup> (3,130 psi)
Swing circuit	220 kgf/cm <sup>2</sup> (3,130 psi)
Pilot circuit	30 kgf/cm <sup>2</sup> (430 psi)
Service valve	Installed

### HYDRAULIC CYLINDERS

No. of cylinder bore X stroke	Boom: 1-110 x 715 mm (4.3" x 28.1")
	Arm: 1-90 x 850 mm (3.5" x 33.5")
	Bucket: 1-80 x 660 mm (3.1" x 26.0")
	Boom swing: 1-95 x 527 mm (3.7" x 20.7")
	Dozer blade: 1-110 x 224 mm (4.3" x 8.8")

## TRAVEL SYSTEM

Max. travel speed(high) / (low)	30 km/h (18.6mph) / 11.6 km/h (7.2mph)
Gradeability	35° (70%)

## CONTROLS

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

Pilot control	Two joysticks with one safety lever (LH): Swing & Arm (RH): Boom and bucket (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type

## SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	7.8 rpm

## COOLANT & LUBRICANT CAPACITY

	liter	US gal	UK gal
Re-filling			
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
Hydraulic tank	70.0	18.5	15.4
Hydraulic system	120.0	31.7	26.4
Axle(Front/Rear)	5.3/5.3	1.4/1.4	1.2/1.2

## AXLES & TIRES

Full floating front axle is supported by center pin for oscillation.

It can be locked by oscillation lock cylinders.

Rear axle is fixed on the lower chassis.

Tires	12.0 x 16.5-12PR, single
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## DOZER BLADE

Pin-on type dozer blade is standard. Dozer blade is a very useful addition for leveling and back filling or clean-up work.

Dozer blade	Width x Height: 1,925 x 355mm(6' 4" x 1' 2" )
	Max. lifting above ground level: 445mm(17.5")
	Max. depth below ground level: 140mm(5.5")

## OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 3,000 mm (9' 10") boom, 1,600 mm (5' 3") arm, SAE heaped 0.18 m<sup>3</sup> (0.24 yd<sup>3</sup>) digging bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

MAJOR COMPONENT WEIGHT	
Upperstructure	2,680 kg ( 5,910 lb)
Mono boom(with arm cylinder)	310 kg ( 680 lb)

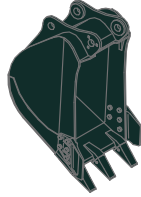
OPERATING WEIGHT	
Operating weight	5,550 kg ( 12,240 lb)

·Mono boom with blade



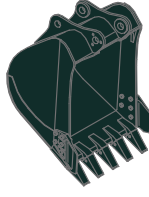
## BUCKETS

Capacity		Width		Weight
SAE heaped	CECE heaped	Without side cutters	With side cutters	
0.07 m <sup>3</sup> (0.09 yd <sup>3</sup> )	0.06 m <sup>3</sup> (0.08 yd <sup>3</sup> )	315 mm(12.4")	360 mm(14.2")	115 kg(255 lb)
0.18 m <sup>3</sup> (0.24 yd <sup>3</sup> )	0.15 m <sup>3</sup> (0.20 yd <sup>3</sup> )	670 mm(26.4")	740 mm(29.1")	170 kg(375 lb)



SAE heaped

0.07 m<sup>3</sup> (0.09 yd<sup>3</sup>)



0.18 m<sup>3</sup> (0.24 yd<sup>3</sup>)

## DIGGING FORCE

Arm	Length	1,600 mm (5' 3")	1,900 mm (6' 3")
	Weight	210 kg (460 lb)	230 kg (510 lb)
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
		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	

\* Arm weight including cylinder and linkage.

## Lifting Capacity

### R55W-9A

Rating over-front Rating over-side or 360 degree

Boom : 3.0m (9' 10") / Arm : 1.6 m (5' 3") / Bucket : 0.18m<sup>3</sup> (0.24yd<sup>3</sup>) SAE heaped / Dozer blade down

Load point height m (ft)		Load radius						At max. reach				
		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity	Reach	
												m (ft)
5.0 m (16 ft)	kg lb									*960 *2120	*960 *2120	4.47 (14.7)
4.0 m (13 ft)	kg lb					*1020 *2250	*1020 *2250			*990 *2180	720 1590	5.26 (17.3)
3.0 m (10 ft)	kg lb					*1150 *2540	1120 2470	*990 *2180	760 1680	*1020 *2250	620 1370	5.69 (18.7)
2.0 m (7 ft)	kg lb			*1900 *4190	1690 3730	*1400 *3090	1070 2360	*1200 *2650	740 1630	*1070 *2360	570 1260	5.86 (19.2)
1.0 m (3 ft)	kg lb			*2500 *5510	1580 3480	*1670 *3680	1020 2250	*1310 *2890	720 1590	*1110 *2450	570 1260	5.81 (19.1)
Ground	kg lb	*2690 *5930	*2690 *5930	*2720 *6000	1530 3370	*1820 *4010	990 2180	*1350 *2980	700 1540	*1160 *2560	620 1370	5.51 (18.1)
-1.0 m (-3 ft)	kg lb	*4040 *8910	3040 6700	*2610 *5750	1520 3350	*1760 *3880	980 2160			*1180 *2600	740 1630	4.92 (16.1)
-2.0 m (-7 ft)	kg lb	*3400 *7500	3100 6830	*2090 *4610	1550 3420							

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.













# Lifting Capacity











## R55W-9A

 Rating over-front  Rating over-side or 360 degree











Boom : 3.0m (9' 10") / Arm : 1.6 m (5' 3") / Bucket : 0.18m<sup>3</sup> (0.24yd<sup>3</sup>) SAE heaped / Dozer blade up

Load point height m (ft)		Load radius								At max. reach		Reach m (ft)
		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		
												
5.0 m (16 ft)	kg lb									*960 *2120	880 1940	4.47 (14.7)
4.0 m (13 ft)	kg lb					*1020 *2250	*1020 *2250			760 1680	650 1430	5.26 (17.3)
3.0 m (10 ft)	kg lb					*1150 *2540	1010 2230	810 1790	690 1520	650 1430	550 1210	5.69 (18.7)
2.0 m (7 ft)	kg lb			1770 3900	1510 3330	1130 2490	960 2120	790 1740	670 1480	610 1340	510 1120	5.86 (19.2)
1.0 m (3 ft)	kg lb			1660 3660	1410 3110	1080 2380	910 2010	760 1680	640 1410	610 1340	510 1120	5.81 (19.1)
Ground	kg lb	*2690 *5930	2630 5800	1610 3550	1360 3000	1040 2290	880 1940	750 1650	630 1390	650 1430	550 1210	5.51 (18.1)
-1.0 m (-3 ft)	kg lb	3210 7080	2650 5840	1600 3530	1350 2980	1040 2290	870 1920			790 1740	660 1460	4.92 (16.1)
-2.0 m (-7 ft)	kg lb	3270 7210	2700 5950	1630 3590	1380 3040							

Boom : 3.0m (9' 10") / Arm : 1.9 m (6' 3") / Bucket : 0.18m<sup>3</sup> (0.24yd<sup>3</sup>) SAE heaped / Dozer blade down

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		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		
												
5.0 m (16 ft)	kg lb					*940 *2070	*940 *2070			*880 *1940	840 1850	4.88 (16.0)
4.0 m (13 ft)	kg lb									*910 *2010	650 1430	5.60 (18.4)
3.0 m (10 ft)	kg lb					*1010 *2230	*1010 *2230	*1010 *2230	770 1700	*940 *2070	560 1230	6.00 (19.7)
2.0 m (7 ft)	kg lb	*3000 *6610	*3000 *6610	*1660 *3660	*1660 *3660	*1280 *2820	1080 2380	*1120 *2470	750 1650	*980 *2160	520 1150	6.16 (20.2)
1.0 m (3 ft)	kg lb	*1940 *4280	*1940 *4280	*2330 *5140	1590 3510	*1580 *3480	1020 2250	*1250 *2760	720 1590	*1030 *2270	520 1150	6.10 (20.0)
Ground	kg lb	*2520 *5560	*2520 *5560	*2670 *5890	1520 3350	*1770 *3900	980 2160	*1330 *2930	700 1540	*1070 *2360	560 1230	5.83 (19.1)
-1.0 m (-3 ft)	kg lb	*3580 *7890	3000 6610	*2660 *5860	1500 3310	*1790 *3950	970 2140			*1110 *2450	650 1430	5.29 (17.4)
-2.0 m (-7 ft)	kg lb	*3830 *8440	3050 6720	*2290 *5050	1520 3350	*1490 *3280	980 2160			*1080 *2380	910 2010	4.33 (14.2)
-3.0 m (-10 ft)	kg lb	*2070 *4560	*2070 *4560									

Boom : 3.0m (9' 10") / Arm : 1.9 m (6' 3") / Bucket : 0.18m<sup>3</sup> (0.24yd<sup>3</sup>) SAE heaped / Dozer blade up

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5.0 m (16 ft)	kg lb					*940 *2070	*940 *2070			*880 *1940	760 1680	4.88 (16.0)
4.0 m (13 ft)	kg lb									690 1520	580 1280	5.60 (18.4)
3.0 m (10 ft)	kg lb					*1010 *2230	*1010 *2230	810 1790	690 1520	600 1320	500 1100	6.00 (19.7)
2.0 m (7 ft)	kg lb	*3000 *6610	2990 6590	*1660 *3660	1540 3400	1140 2510	970 2140	790 1740	670 1480	560 1230	470 1040	6.16 (20.2)
1.0 m (3 ft)	kg lb	*1940 *4280	*1940 *4280	1670 3680	1420 3130	1080 2380	920 2030	760 1680	640 1410	560 1230	460 1010	6.10 (20.0)
Ground	kg lb	*2520 *5560	*2520 *5560	1600 3530	1350 2980	1040 2290	880 1940	740 1630	620 1370	590 1300	500 1100	5.83 (19.1)
-1.0 m (-3 ft)	kg lb	3160 6970	2610 5750	1580 3480	1330 2930	1020 2250	860 1900			690 1520	580 1280	5.29 (17.4)
-2.0 m (-7 ft)	kg lb	3210 7080	2650 5840	1600 3530	1350 2980	1040 2290	870 1920			960 2120	810 1790	4.33 (14.2)
-3.0 m (-10 ft)	kg lb	*2070 *4560	*2070 *4560									

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.

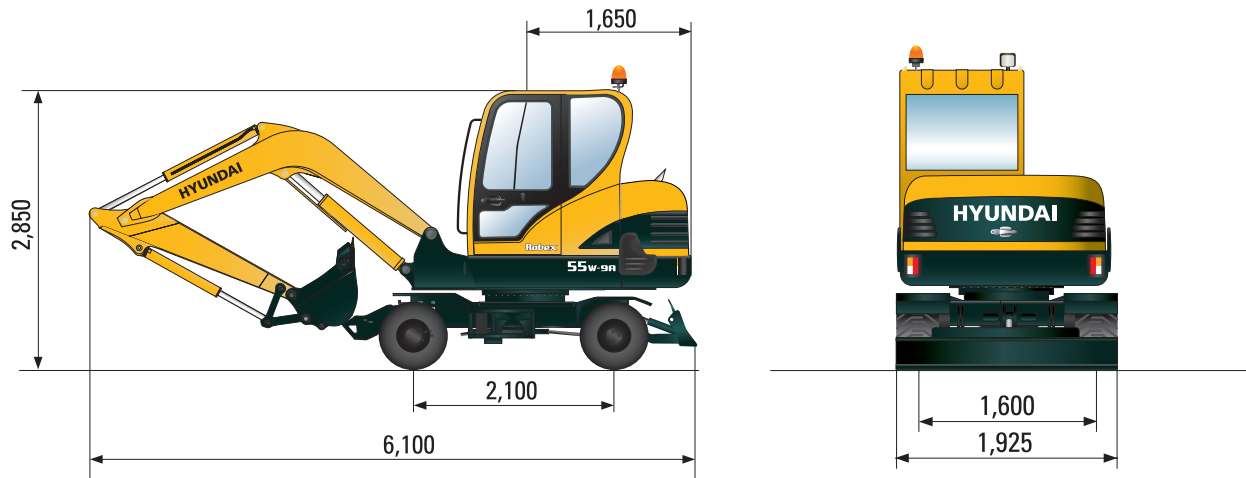
3. The load point is a hook located on the back of the bucket.

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

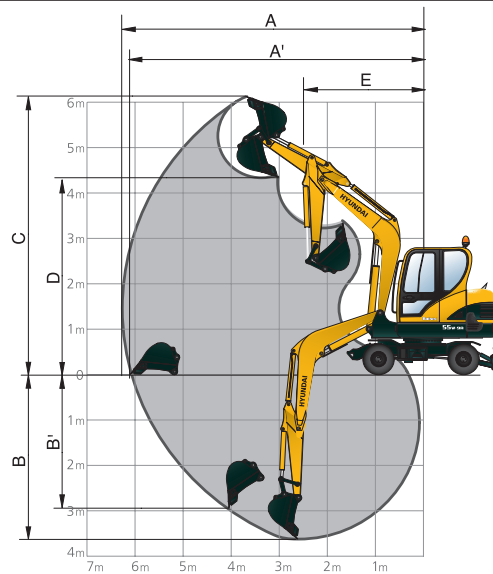
# Dimensions & Working Range

## R55W-9A DIMENSIONS

unit: mm(ft · in)



## R55W-9A WORKING RANGE



unit: mm(ft · in)

Boom length	3,000 (9' 10")	
Arm length	1,600 (5' 3")	1,900 (6' 3")
A Max. digging reach	6,150 (20' 2")	6,430 (21' 1")
A' Max. digging reach on ground	5,980 (19' 7")	6,200 (20' 4")
B Max. digging depth	3,500 (11' 6")	3,800 (12' 6")
B' Max. vertical wall digging depth	2,960 (9' 9")	3,160 (10' 4")
C Max. digging height	6,070 (19' 11")	6,260 (20' 6")
D Max. dumping height	4,340 (14' 3")	4,530 (14' 10")
E Min. swing radius	2,350 (7' 9")	2,350 (7' 9")
F Tail swing radius	1,650 (5' 5")	1,650 (5' 5")



# Notes

# Notes



## STANDARD EQUIPMENT

### ISO standard cabin

- Cabin ROPS(ISO 3471)
- FOG(ISO 10262 Level )
- FOPS(ISO 3449)
- 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**
- Two outside rear view mirrors**
- 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 boom (3.0 m, 9'10")**
- Arm (1.6 m, 5' 3")**
- Tires (12.0 x 16.5 - 12PR, single)**
- Blade (1925 x 354mm, 6'4" x 14")**
- Starting aid (air grid heater) cold weather**
- Viscous fan clutch**

## OPTIONAL EQUIPMENT

- Air-conditioner & heater**
- Fuel filler pump(35l/min, 9.2 US gpm)**
- Beacon lamp**
- Single acting piping kit( breaker, etc)**
- Double acting piping kit(clamshell, etc)**
- Accumulator, work equipment lowering**

- Cabin front, rear work lamp**
- Quick coupler**
- Long arm (1.9m, 6' 3")**
- Narrow bucket(0.07m<sup>3</sup>, 0.09yd<sup>3</sup>)**
- Tool kit**
- Operator suit**

- Mechanical suspension seat with heater**
- Safety lock valve for Boom swing cylinder with overload warning**
- Safety lock valve for Arm cylinder**
- Rear view camera**

\* 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

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