# 55w-9A

**MOVING YOU FURTHER** 



# **PRIDE AT WORK**

130 55 W-9A

Hyundai Heavy Industries strives to build state-of-the art earthmoving equipment to give every operator maximum performance, optimal controllability, versatile machine settings and proven technology.

Be proud of your work with Hyundai!



# **Machine Walk-Around**

## **Engine Technology**

The fuel efficient, Tier 4 final 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.

### **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 R55W-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 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 player contribute to a productive work

# Easy and Simple Maintenance

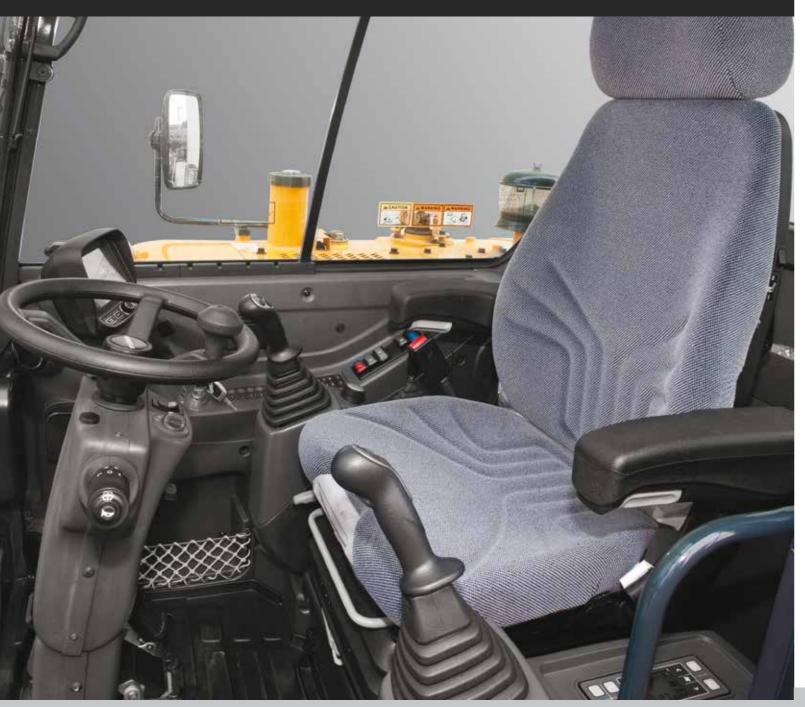
Wide open access of doors, covers, hoods is designed for easier maintenance. The air cleaner and centralized grease fittings are also integrated for easy service.

### **Extended Life of Components**

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

# **PREFERENCE**

An operator, who sets his machine to his needs, takes pleasure in his work. Operators can fully customize their work environment and operating preferences to fit their individual needs.



\*Photo may include optional equipment.



## **Spacious 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.

# 130 55 W-9A

# **Operator Comfort**

In the cabin of our R55W-9A you can experience the highest level of comfort. The ergonomic location of joysticks with arm rests, suspension seat, control levers and LED-display minimizes fatigue of the operator. The LED-display

shows all information of the machine with a blink of an eye.

- 1. A large top glass combined with a roll-up sun visor offers high visibility.
- 2. An advanced audio system with radio / MP3-player with USB-input, combined with a remote control is installed to listen to your preferred music favorites.
- 3. Operators are able to call while operating with the hands-free mobile phone feature.
- 4. Ergonomically designed joysticks reduce operator fatigue.
- 5. Cabin provides various storage compartments for operator's convenience.



oll-up Sun visor Radio / MP3-player Hands-free cell phone Ergonomic joysticks Storage compartment

# Stressless

Work is stressful enough; your working environment should be stressless. Hyundai's R55W-9A compact excavator provides many convenient devices for safe and productive work.

- 1. The window locking device keeps the right window in the preferred position.
- 2. The sliding front window is easy to open and can be locked safely in open position to improve ventilation and visibility.
- 3. The tiltable left-side console box offers easy access to the cabin.
- 4. The powerful temperature control provides the operator with the preferred air temperature.



Climate control system



# Easy-to-use Cluster

The advanced LED-cluster allows the operator to select his personal machine preferences. The monitor displays engine rpm, engine temperature and state of electronic devices. The operator can select auto deceleration mode and max power mode and he can control travel speed with the touch of a button. An engine starting lock prevents theft of the machine.

4/5

# **PERFORMANCE**

9A Series deliver fast precision by combining smoother hydraulics with wider view and less stress. Innovative hydraulic system technologies make the R55W-9A excavator fast, smooth and easy to control.





# **Excellent Performance**

Hyundai's 9A series offer maximum productivity and high efficiency. With the engine dial, the operator can adjust the engine power to the specific application. A max power button maximizes machine speed and power for maximum productivity. R55W-9A features auto deceleration to reduce fuel consumption and cabin noise level.

# Improved Hydraulic System

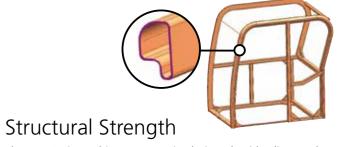


To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and high controllability. Improved pump flow control reduces hydraulic flow when controls are not activated to minimize fuel consumption. Improved spool valves in the main control valve are engineered to provide more precise flow to each function with less effort. Improved hydraulic valves, precise variable volume piston pumps, fine-touch pilot controls and enhanced travel functions make any operator of our 9A series look like a smooth operator. Additional features include arm and boom regeneration, combined with automatic boom vs. swing priority for optimal performance in any application.

# Offset Boom

The R55W-9A's boom offset function is designed for efficient work in congested residential and urban areas. The boom can be offset from 80° to the left up to 50° to the right. Increased swing torque provides better operating capability on a slope.





The 9A Series cabin structure is designed with slimmer but stronger tubing for more safety and better visibility. Low-stress and high strength steel is welded to form a strong and stable lower frame. Structural durability is analyzed and tested by FEM-analysis (Finite Elements Method) and long-term durability tests.



# Yanmar 4TNV98

Yanmar 4TNV98 engine provides a nominal power of 66.9 HP at 2,400 rpm. 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 machines are designed to maximize profitability through improved fuel efficiency, enhanced service features and long-lasting components.





# **Fuel Efficient**

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



# Improved Durability

The R55W-9A is equipped with side protection of the counterweight to protect the engine hood. A cover of the dozer cylinder provides extra protection in tough working conditions.



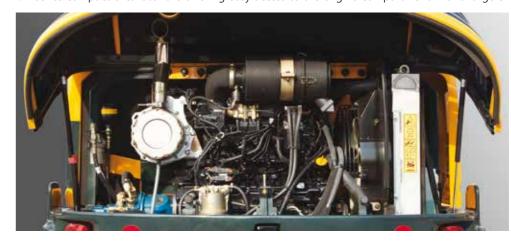


# Easy Maintenance

Centralized grease fittings and easy to change air filter provide faster and easier maintenance.

# Large Engine hood

9A series compact excavator are offering easy access to the engine compartment with a large engine hood.



# (hr) 5000 4000 3000 2000 1000 1000 (hr) 250 (hr) 7 Model 9A Model Hydraulic Filter Hydraulic Oil

# **Extended Life of Components**

By adopting long-life hydraulic filters (1000 hrs) and long-life hydraulic oil (5000 hrs) operation costs are reduced. Extended lubricant bush life & ultra high molecular weight polymer shim, more efficient cooling systems and integrated preheating systems are extending service intervals and reducing machine down time.

<sup>\*</sup>Photo may include optional equipment.

# **SPECIFICATIONS**

# 55w-9A

### **ENGINE**

MODEL			YANMAR 4TNV98			
Туре			Water cooled, 4 cycle Diesel, 4-Cylinders in line, direct injection and low emission			
	SAE	J1995 (gross)	66.9 HP (49.9 kW) / 2,400 rpm			
Rated	SAE	J1349 (net)	65.1 HP (48.5 kW) / 2,400 rpm			
flywheel horse power	DIN	6271/1 (gross)	67.8 PS (49.9 kW) / 2,400 rpm			
noise power		6271/1 (net)	66 PS (48.5 kW) / 2,400 rpm			
Max. torque			24 kgf.m (174 lbf.ft) / 1,560 rpm			
Bore x stroke			98 mm (3.86") x 110 mm (4.33")			
Piston displacem	ent		3,319 cc (203 cu in)			
Batteries			1 x 12 V x 100 Ah			
Starting motor			12 V - 3.0 kW			
Alternator			12 V - 80 A			

## **HYDRAULIC SYSTEM**

MAIN PUMP					
Туре	Two variable displacement axial piston pumps				
Max. flow	2 x 62.5 ℓ/min pumps				
Sub-pump for pilot circuit	Gear pump				
Cross-sensing and fuel saving pump system	m				
HYDRAULIC MOTORS					
Travel	Two speed axial piston motor with counter				
iravei	balance valve and parking brake				
Swing	Axial piston motor with automatic brake				
RELIEF VALVE SETTING					
Implement circuits	220 kgf/cm² (3,130 psi)				
Travel	220 kgf/cm² (3,130 psi)				
Swing circuit	220 kgf/cm² (3,130 psi)				
Pilot circuit	30 kgf/cm² (430 psi)				
Service valve	Installed				
HYDRAULIC CYLINDERS					
	Boom: 1-110 x 715 mm (4.3" x 28.1")				
	Arm: 1-90 x 850 mm (3.5" x 33.5")				
No. of cylinder- bore x stroke	Bucket: 1-80 x 660 mm (3.1" x 26.0")				
DOIE X SHOKE	Boom swing: 1-95 x 535 mm (3.7" x 21.1")				
	Dozer blade: 1-110 x 219 mm (4.3" x 8.6")				
	•				

### **TRAVEL SPEED & GRADEABILITY**

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

# CONTROL

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

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

## SWING SYSTEM

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

## **COOLANT & LUBRICANT CAPACITY**

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

## **AXLE & 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 16.5-1	2PR, 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.

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

## **OPERATING WEIGHT (APPROXIMATE)**

Operating weight, including 3,000 mm (9'10") boom, 1,600 mm (5'3") arm, SAE heaped 0.18 m³ (0.24 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

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

# 13 55 w-9A

### **BUCKETS R55W-9A**

Capacity	m³ (yd³)	Width r	Weight kg (lb)		
SAE heaped	CECE heaped	Without side cutters	With side cutters	Weight kg (lb)	
0.07 m² (0.09 yd²) 0.06 m² (0.08 yd²)		315 mm (12.4")	360 mm (14.2")	115 kg (255 lb)	
0.18 m² (0.24 yd²) 0.15 m² (0.20 yd²)		670 mm (26.4")	740 mm (29.1")	170 kg (375 lb)	





SAE heaped m<sup>3</sup> (yd<sup>3</sup>) 0.07 m³ (0.09 yd³)

0.18 m³ (0.24 yd³)

# **DIGGING FORCE R55W-9A**

Length	1,600 mm (5' 3")	1,900 mm (6' 3")	
Weight	210 kg (460 lb)	230 kg (510 lb)	
	37.7 kN	37.7 kN	
SAE	3,850 kgf	3,850 kgf	
	8,490 lbf	8,490 lbf	
	42.4 kN	42.4 kN	
ISO	4,330 kgf	4,330 kgf	
	9,550 lbf	9,550 lbf	
	28.4 kN	25.5 kN	
SAE	2,900 kgf	2,600 kgf	
ISO	6,390 lbf	5,730 lbf	
	31.9 kN	28.7 kN	
	3,260 kgf	2,930 kgf	
	7,190 lbf	6,460 lbf	
	Weight  SAE  ISO  SAE	Weight 210 kg (460 lb)  37.7 kN  SAE 3,850 kgf  8,490 lbf  42.4 kN  ISO 4,330 kgf  9,550 lbf  28.4 kN  SAE 2,900 kgf  6,390 lbf  31.9 kN  ISO 3,260 kgf	

Arm weight includes cylinder and linkage.

# **Lifting Capacities**

### R55W-9A

Rating over-front Rating over-side or 360 degrees

Boom: 3.0 m (9'10") / Arm: 1.6 m (5'3") / Bucket: 0.18 m³ (0.24 yd³) SAE heaped / Dozer blade down

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

- 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.

10/11





### Rating over-front Rating over-side or 360 degrees R55W-9A

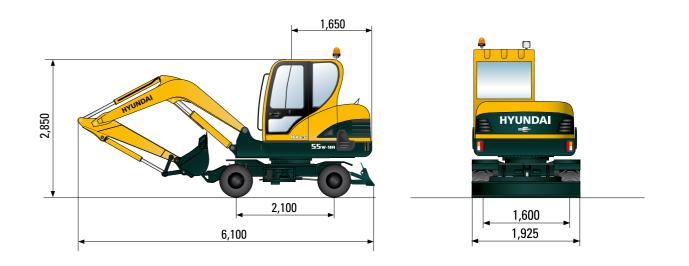
Load point height m (ft)				At max. reach								
		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
				· ·		·						m (ft)
5.0 m	kg									*960	880	4.47
(16 ft)	lb									*2120	1940	(14.7)
4.0 m	kg					*1020	*1020			760	650	5.26
(13 ft)	lb					*2250	*2250			1680	1430	(17.3)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

	0 m (9'10") / Arm : 1.9 m (6'3") / Bucket : 0.18 m³ (0.24 yd³) SAE heaped / Dozer blade down  Load radius							At may reach				
Load point		2.0	(7.6)							At max. reach		
heigh		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
m (ft			<b>-</b>									m (ft )
5.0 m	kg					*940	*940			*880	840	4.88
(16 ft)	lb					*2070	*2070			*1940	1850	(16.0)
4.0 m	kg									*910	650	5.60
(13 ft)	lb									*2010	1430	(18.4)
3.0 m	kg					*1010	*1010	*1010	770	*940	560	6.00
(10 ft)	lb					*2230	*2230	*2230	1700	*2070	1230	(19.7)
2.0 m	kg	*3000	*3000	*1660	*1660	*1280	1080	*1120	750	*980	520	6.16
(7 ft)	lb	*6610	*6610	*3660	*3660	*2820	2380	*2470	1650	*2160	1150	(20.2)
1.0 m	kg	*1940	*1940	*2330	1590	*1580	1020	*1250	720	*1030	520	6.10
(3 ft)	lb	*4280	*4280	*5140	3510	*3480	2250	*2760	1590	*2270	1150	(20.0)
Ground	kg	*2520	*2520	*2670	1520	*1770	980	*1330	700	*1070	560	5.83
Line	lb	*5560	*5560	*5890	3350	*3900	2160	*2930	1540	*2360	1230	(19.1)
-1.0 m	kg	*3580	3000	*2660	1500	*1790	970			*1110	650	5.29
(-3 ft)	lb	*7890	6610	*5860	3310	*3950	2140			*2450	1430	(17.4)
-2.0 m	kg	*3830	3050	*2290	1520	*1490	980			*1080	910	4.33
(-7 ft)	lb	*8440	6720	*5050	3350	*3280	2160			*2380	2010	(14.2)
-3.0 m	kg	*2070	*2070									
(-10 ft)	lh	*4560	*4560									

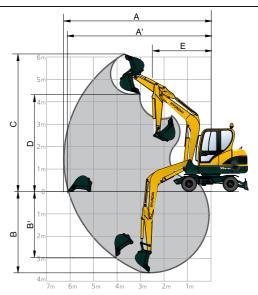
				At max. reach								
Load po		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
height m (ft)				l l							<b>=</b>	m (ft )
5.0 m	kg					*940	*940			*880	760	4.88
(16 ft)	lb					*2070	*2070			*1940	1680	(16.0)
4.0 m	kg									690	580	5.60
(13 ft)	lb									1520	1280	(18.4)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

- 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.

**DIMENSIONS R55W-9A**  $mm \, (\text{ft} \cdot \text{in})$ 



# **WORKING RANGE R55W-9A**



mm	(ft ·	į

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. front swing radius	2,350 ( 7' 9")	2,350 ( 7' 9")
F Tail swing radius	1,650 ( 5' 5")	1,650 ( 5' 5")

12/13



## STANDARD EQUIPMENT R55W-9A

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 Storage compartment & Ashtray

Engine speed

Centralized monitoring

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

- Engine oil pressure

- Engine coolant temperature

- Hyd. oil temperature

- Low battery

- Air cleaner clogging

Door and locks, one key fits all

Radio / USB Player Two outside rearview mirrors

Mechanical suspension seat with heater

Console box tilting system (LH.)

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 coolers

Automatic swing brake 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)

Dozer blade (1925 x 354 mm; 6'4" x 14") Starting Aid (air grid heater) for cold weather

Safety lock valve for boom cylinder with overload warning device

Safety lock valve for arm cylinder

Safety lock valve for dozer blade cylinder

Air conditioner & heater

Fuel filler pump (35 l/min)

Double acting piping (clamshell, etc)

Accumulator, work equipment lowering

## **OPTIONAL EQUIPMENT R55W-9A**

Beacon lamp

Single acting piping (Breaker, etc)

Quick coupler

Long arm (1.9 m; 6'3") Narrow bucket (0.07 m<sup>3</sup>; 0.09 yd<sup>3</sup>)

Tool kit

Front working lights cabin





- \* 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.

EN - 2014.10 Rev 0

- \* Materials and specifications are subject to change without advance notice.
- \* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

