

55w-9A

With Tier 4 Interim Engine installed

MOVING YOU FURTHER



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!







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.

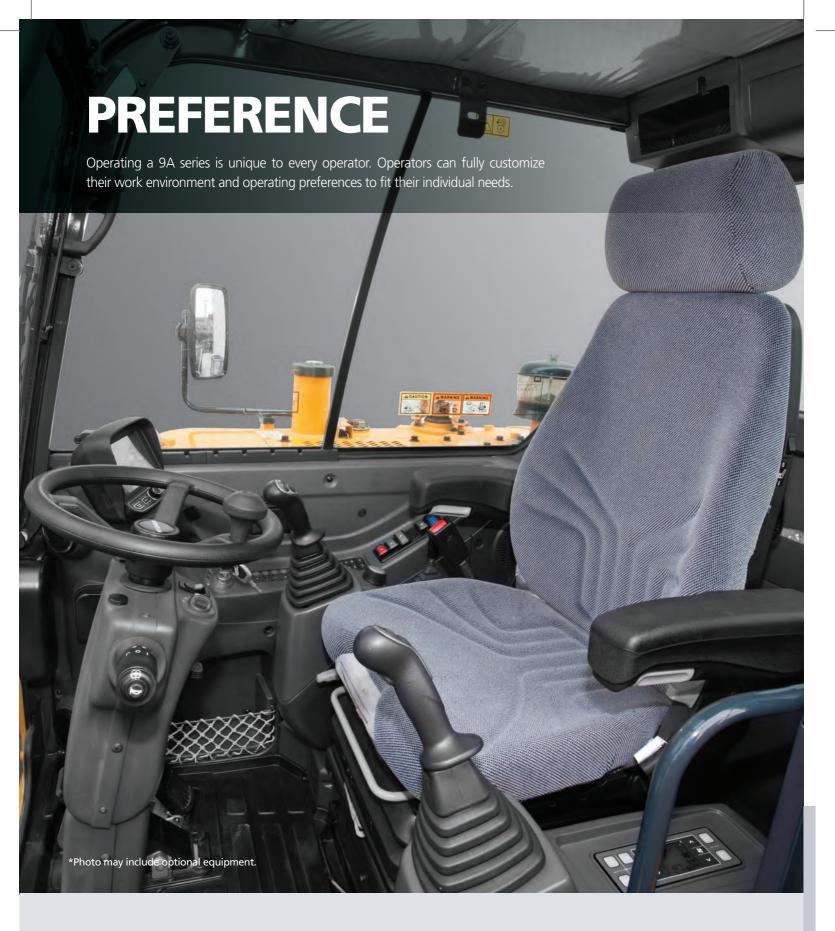
A powerful air conditioning system and MP3 interface contribute to a productive work environment.

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.





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

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 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.



Sun screen

Radio & USB player with remote control and blue tooth hands free

Hands-free cell phone

Joystick

Storage compartment

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

Climate control system

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.



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



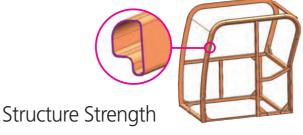
To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption. Improved spool valves in the control valve are engineered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





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.



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.



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.





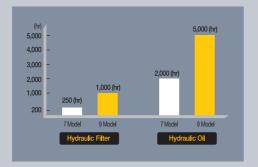
Easy Access

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		
Туре			Water cooled, 4 cycle diesel 4 cylinders in line, direct injection, low emission		
Rated	SAE	J1995 (gross)	66.9 HP (49.9 kW) at 2,400 rpm		
	SAE	J1349 (net)	65.1 HP (48.5 kW) at 2,400 rpm		
flywheel	DIN	6271/1 (gross)	67.8 PS (49.9 kW) at 2,400 rpm		
horsepower		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 displace	Piston displacement		3,319 cc (203 cu in)		
Batteries			1 x 12 V x 100 AH		
Starting motor	r		12V-3.0 kW		
Alternator			12V-80 Amp		

HYDRAULIC SYSTEM

MAIN PUMP

Туре	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					
liavei	balance valve and parking brake					
Swing	Axial piston motor with automatic brake					
RELIEF VALVE SETTING						
Implement circuits	220 kgf/cm² (3,130 psi)					
Travel circuit	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")

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")

Arm: 1-90 x 850 mm (3.5" x 33.5")

TRAVEL SYSTEM

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

CONTROLS

No. of cylinder

bore X stroke

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

Re-filling	liter	US gal	UK gal	
Fuel tank	125.0	33.0	27.5	
Engine coolant	9.5	9.5 2.5		
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.

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 355mm(6' 4" x 1' 2")				
Dozer blade	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 m3 (0.24 yd3) 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

Сар	acity	Wi	Weight	
SAE heaped CECE heaped		Without side cutters		
0.07 m³ (0.09 yd³)	0.07 m² (0.09 yd²) 0.06 m² (0.08 yd²)		360 mm(14.2")	115 kg(255 lb)
0.18 m³ (0.24 yd³)	0.15 m ³ (0.20 yd ³)	670 mm(26.4")	740 mm(29.1")	170 kg(375 lb)





SAE heaped

0.07 m³ (0.09 yd³)

0.18 m³ (0.24 yd³)

DIGGING FORCE

Arm	Length	1,600 mm (5' 3")	1,900 mm (6' 3")	
AIIII	Weight	210 kg (460 lb)	230 kg (510 lb)	
		37.7 kN	37.7 kN	
	SAE	3,850 kgf	3,850 kgf	
Bucket digging		8,490 lbf	8,490 lbf	
force		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	
Arm crowd		6,390 lbf	5,730 lbf	
force		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



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

1 1	_:_4		Load 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.

Lifting Capacity

R55W-9A

Rating over-front Rating over-side or 360 degree

Boom: 3.0	m (9′ 10	") / Arm : 1.6 n	n (5' 3") / Buck	et : 0.18m³ (0.2	4yd³) SAE heap	oed / Dozer bla	de up					
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
						l l						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							

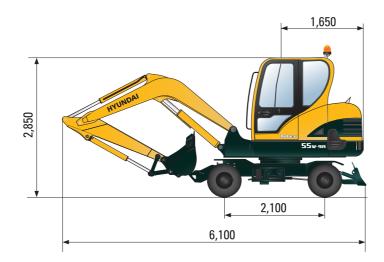
Boom: 3.0	m (9′ 10	") / Arm : 1.9 n	n (6′ 3″) / Bucke	et : 0.18m³ (0.2	4yd³) SAE heap	ed / Dozer bla	de down					
Load point height m (ft)				At max. reach								
		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
												m (ft)
5.0 m	kg					*940	*940			*880	840	4.88
(16 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)	lb	*4560	*4560									

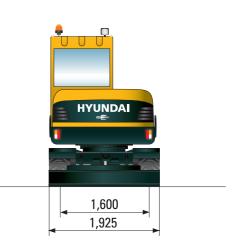
Boom : 3.0	m (9′ 10	") / Arm : 1.9 r	n (6′ 3″) / Buck	et : 0.18m³ (0.2	24yd³) SAE heap	ed / Dozer bla	de up					
Load point				At max. reach								
		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach
height m (ft)												m (ft)
5.0 m	kg					*940	*940			*880	760	4.88
(16 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.

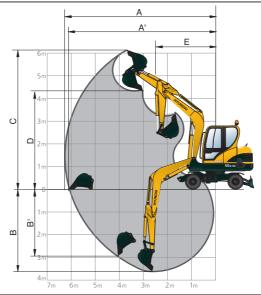
Dimensions & Working Range

R55W-9A DIMENSIONS unit: mm(ft · in)





R55W-9A WORKING RANGE



unit: mm(ft \cdot 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

 $\cdot \textbf{Rise-up type windshield wiper}$

·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(0.07m3, 0.09yd3)

Tool kit

Operator suit

Mechanical suspension seat with heater

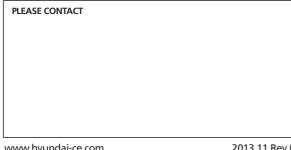
Safety lock valve for Boom swing cylinder with

overload warning

Safety lock valve for Arm cylinder

Rear view camera

^{*} All imperial measurements rounded off to the nearest pound or inch.





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^{*} 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.