

# Specifications R55W-9A

## ENGINE

MODEL		YANMAR 4TNV98	
Type		Water cooled, 4 cycle Diesel, 4-Cylinders in line, direct injection and low emission	
Rated flywheel horse power	SAE	J1995 (gross)	66.9 HP (49.9 kW) / 2,400 rpm
		J1349 (net)	65.1 HP (48.5 kW) / 2,400 rpm
	DIN	6271/1 (gross)	67.8 PS (49.9 kW) / 2,400 rpm
		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 displacement		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	
Type	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	

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	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 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.

Pilot control	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 16.5-12PR, 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 355 mm (6' 4" x 1' 2")
	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 m<sup>3</sup> (0.24 yd<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

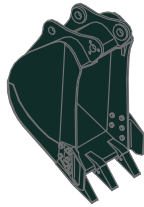
MAJOR COMPONENT WEIGHT	
Upperstructure	2,680 kg ( 5,910 lb)
Mono boom (with arm cylinder)	310 kg ( 680 lb)

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

• Mono boom with blade

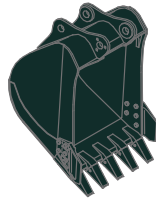
## BUCKETS R55W-9A

Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)		Weight kg (lb)
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 m<sup>3</sup>(yd<sup>3</sup>)

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 R55W-9A

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	42.4 kN	42.4 kN
		4,330 kgf	4,330 kgf
Arm crowd force	SAE	28.4 kN	25.5 kN
		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

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 m<sup>3</sup> (0.24 yd<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									*960	*960	4.47
	lb									*2120	*2120	(14.7)
4.0 m (13 ft)	kg				*1020	*1020				*990	720	5.26
	lb				*2250	*2250				*2180	1590	(17.3)
3.0 m (10 ft)	kg				*1150	1120	*990	760		*1020	620	5.69
	lb				*2540	2470	*2180	1680		*2250	1370	(18.7)
2.0 m (7 ft)	kg		*1900	1690	*1400	1070	*1200	740		*1070	570	5.86
	lb		*4190	3730	*3090	2360	*2650	1630		*2360	1260	(19.2)
1.0 m (3 ft)	kg		*2500	1580	*1670	1020	*1310	720		*1110	570	5.81
	lb		*5510	3480	*3680	2250	*2890	1590		*2450	1260	(19.1)
Ground Line	kg	*2690	*2690	*2720	1530	*1820	990	*1350	700	*1160	620	5.51
	lb	*5930	*5930	*6000	3370	*4010	2180	*2980	1540	*2560	1370	(18.1)
-1.0 m (-3 ft)	kg	*4040	3040	*2610	1520	*1760	980			*1180	740	4.92
	lb	*8910	6700	*5750	3350	*3880	2160			*2600	1630	(16.1)
-2.0 m (-7 ft)	kg	*3400	3100	*2090	1550							
	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.
- The load point is a hook located on the back of the bucket.
- (\* ) indicates the load limited by hydraulic capacity.

# 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 m<sup>3</sup> (0.24 yd<sup>3</sup>) SAE heaped / Dozer blade up

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

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

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

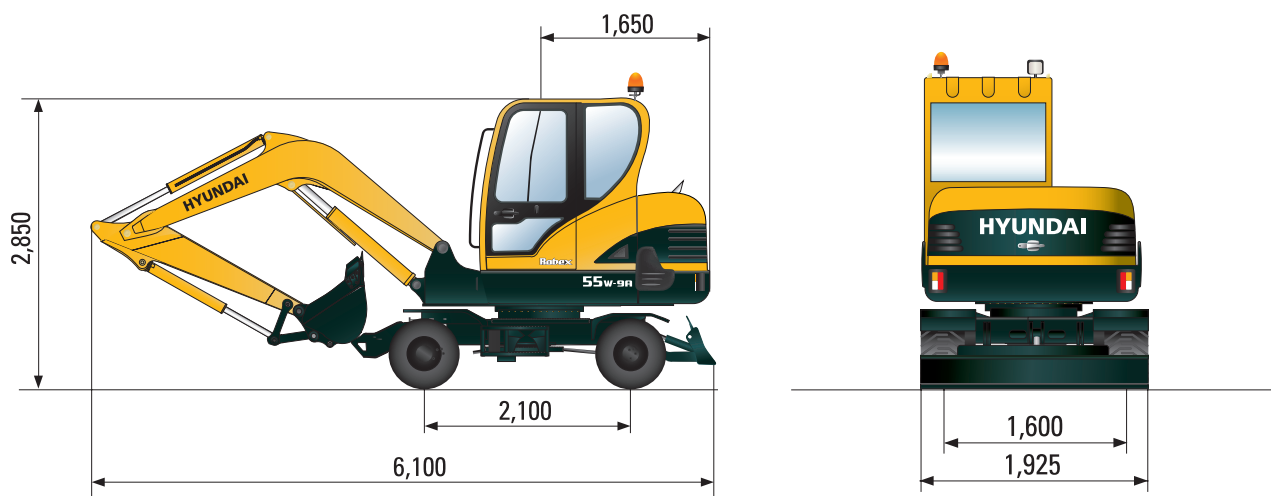
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		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach m (ft)
5.0 m (16 ft)	kg					*940	*940			*880	760	4.88
	lb					*2070	*2070			*1940	1680	(16.0)
4.0 m (13 ft)	kg									690	580	5.60
	lb									1520	1280	(18.4)
3.0 m (10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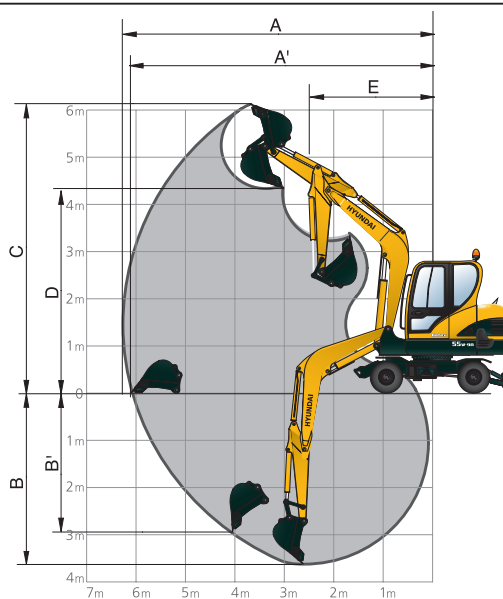
# Dimensions & Working Ranges

## DIMENSIONS R55W-9A

mm (ft · in)



## WORKING RANGE R55W-9A



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

## STANDARD EQUIPMENT R55W-9A

### ISO standard cabin

Cabin	ROPS (ISO 3471)
	FOPS (ISO 3449)
	FOG (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

Storage compartment & Ashtray

Centralized monitoring

Engine speed

Gauges

- Fuel level gauge

- Engine coolant temperature gauge

Warning lamps

- Fuel level

- 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.

\* Materials and specifications are subject to change without advance notice.

\* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

