# Hyundai R55-9A

**Specifications** 

MODEL			YANMAR 4TNV98C			
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			
flywheel horsepower		J1349 (net)	65.1 HP (48.5 kW) at 2,400 rpm			
Max. torque			24 kgf·m (173.6 lbf·ft) at 1,560 rpm			
Bore X stroke			98 mm (3.85") x 110 mm (4.33")			
Piston displacement			3,319 cc (203 in³)			
Battery			1 x 12 V x 100 Ah			
Starting motor			12 V - 3.0 kW			
Alternator			12 V - 60 Amp			

## **HYDRAULIC SYSTEM**

MAIN PUMP	
Type	Two variable displacement piston pumps
туре	+ gear pump
Max. flow	2 X 57.8 ℓ/min (15.3 gpm) pumps
Max. flow	+ 38.4 ℓ/min (10.1 gpm) at 2,100 rpm
Sub-pump for pilot circuit (Gear pump)	9.5 ℓ/min (2.5 gpm)

# **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	240 kgf/cm2 (3,410 psi)
Travel circuit	220 kgf/cm <sup>2</sup> (3,130 psi)
Swing circuit	220 kgf/cm² /2 120 nci)

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					
	Boom: 1-110 x 715 mm (4.3" x 28.1")				
No of advados	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")				
bore A stroke	Boom swing: 1-95 x 527 mm (3.7" x 20.7")				

Dozer blade: 110 x 219 mm (4.3" x 8.8")

# **R55-9A Lifting Capacity ISO Condition 2**

Net Power 65.1 hp (48.5 kW) at 2,400 rpm Bucket Breakout Force

(ISO) 4,330 kgf / 9,550 lbf

5,750 kg (12,570 lb) **Arm Digging Force**(ISO) 3,260 kgf / 7,190 lbf

Operating Weight (Cab)

#### TRAVEL SYSTEM

Drive method	Full hydrostatic type		
Drive motor	Axial piston motor, in-shoe design		
Reduction system	2-stage planetary		
Max. drawbar pull	5,300 kgf (11,700 lbf)		
Max. travel speed (high) / (low)	4.2 km/hr (2.6 mph) / 2.2 km/hr (1.4 mph)		
Gradeability	35° (70%)		
Parking brake	Multi-wet disc		

#### **CONTROLS**

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

	Two joysticks with one safety lever (LH): Arm swing, Boom swing (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	9.1 rpm		

## **COOLANT AND LUBRICANT CAPACITY**

(Refilling)	liter	gal		
Fuel tank	120.0	31.7		
Engine coolant	9.5	2.5		
Engine oil	11.6	3.1		
Swing device - gear oil	1.5	0.4		
Final drive (each)	1.2	0.3		
Hydraulic tank	70.0	18.5		
Hydraulic system	120.0	31.7		

## **WEIGHT (APPROXIMATE)**

Operating weight, including 3,000 mm (9' 10") boom, 1,600 mm (5' 3") arm, SAE heaped  $0.18~\text{m}^3$  ( $0.24~\text{yd}^3$ ) digging bucket, 400 mm (15.6") rubber track, lubricant, coolant, full fuel tank, hydraulic tank, 335 kg (740 lb) counterweight and the standard equipment.

Operating weight (cab)	5,750 kg (12,570 lb)
Ground pressure (cab)	0.33 kg/cm <sup>2</sup> (4.69 psi)

#### **UNDERCARRIAGE**

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricate rollers, track adjusters with shock absorbing springs and sprockets, and track chain with triple grouser shoes.

Center frame	X - leg type
Track frame	Pentagonal box type
No. of track shoes on each side	40
No. of upper rollers on each side	1
No. of lower rollers on each side	5

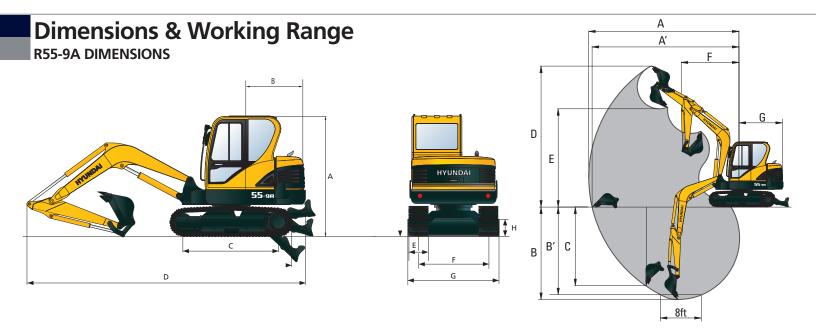


Boom: 3.0 m (9' 10") / Arm: 1.6 m (5' 3") / Bucket: 0.18 m³ (0.24 yd³) SAE heaped / Dozer down / Rubber track: 400 mm (16") / Counterweight 335 kg (740 lb)

1 156		Lift-point radius							At max. rea		ich	
Lift-point height m (ft)		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
				r <sup>II</sup> j		<del>-</del> ∄□   r <sup>⊕</sup> 1						m(ft)
4.0 m	kg					*1,240	1,090			*1,290	980	4.26
13.1 ft	lb					*2,730	2,410			*2,840	2,160	(14.0)
3.0 m	kg					*1,290	1,080			*1,260	780	4.87
9.8 ft	lb					*2,840	2,380			*2,780	1,720	(16.0)
2.0 m	kg			*1,980	1,600	*1,520	1,040	*1,340	730	*1,270	690	5.17
6.6 ft	lb			*4,370	3,530	*3,340	2,280	*2,950	1,620	*2,800	1,530	(17.0)
1.0 m	kg			*2,620	1,480	*1,780	990	*1,430	710	*1,360	660	5.24
3.3 ft	lb			*5,780	3,270	*3,920	2,170	*3,150	1,570	*3,000	1,460	(17.2)
0.0 m	kg			*2,880	1,420	*1,940	950	*1,470	700	*1,440	680	5.08
0.0 ft	lb			*6,340	3,140	*4,280	2,090	*3,240	1,540	*3,170	1,500	(16.7)
-1.0 m	kg	*3,100	2,760	*2,780	1,410	*1,910	940			*1,500	760	4.66
-3.3 ft	lb	*6,830	6,070	*6,120	3,120	*4,200	2,070			*3,310	1,690	(15.3)
-2.0 m	kg	*3,630	2,810	*2,300	1,440					*1,550	1,000	3.89
-6.6 ft	lb	*8,000	6,190	*5,080	3,170					*3,410	2,200	(12.8)

Notes: 1.

- 1. Lifting capacities are based on ISO 10567.
- Lifting capacities of the 9A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The lift-point is a hook (standard equipment) located on the back of the bucket.
- 4. (\*) indicates load limited by hydraulic capacity.



R55-9A DIMENSIONS			mm (ft·in)
A Overall height of cab	2,550 (8' 4")	E Track shoe width	380 (1' 3")
		Rubber	400 (1' 4")
<b>B</b> Tail swing radius	1,650 (5' 5")	F Track gauge	1,600 (5' 3")
C Tumbler distance	1,990 (6' 6")	<b>G</b> Overall width	2,000 (6' 7")
D Overall length	5,600 (18' 4")	H Ground clearance	380 (1' 3")
DUCKETC			

#### **BUCKETS**

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

R5:	5-9A WORKING RANGE	mm (ft·in)		
	Boom length	3,000 (9' 10")		
	Arm length	1,600 (5' 3")	1,900 (6' 3")	
Α	Max. digging reach	6,150 (20' 2")	6,400 (20' 1")	
A <sup>1</sup>	Max. digging reach on ground	6,010 (19' 9")	6,270 (20' 7")	
В	Max. digging depth	3,820 (12' 6")	4,060 (13' 4")	
B <sup>1</sup>	Max. digging depth (8 ft)	3,420 (11' 3")	3,700 (12' 2")	
C	Max. vertical wall digging depth	3,200 (10' 6")	3,460 (11' 4")	
D	Max. digging height	5,780 (18' 12")	5,920 (19' 5")	
Е	Max. dumping height	4,050 (13' 3")	4,180 (13' 9")	
F	Min. swing radius	2,350 ( 7' 9")	2,360 ( 7' 9")	
G	Tail swing radius	1,650 (5' 5")	1,650 (5' 5")	

# STANDARD EQUIPMENT

#### ISO standard cabin

• Cabin TOPS ISO 12117 (ROPS ISO 12117-2) FOG ISO 10262 Level I (FOPS ISO 3449 Level I)

- 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 and ashtray

Air-conditioner & heater

Radio / USB player with remote control Single-acting piping kit (breaker, etc) Double-acting piping kit (clamshell, etc)

#### Centralized monitoring

- Engine speed
- Gauges

Fuel level gauge Engine coolant temperature gauge

Warning

Fuel level

Engine oil pressure

Engine coolant temperature

Hydraulic oil temperature

Low battery

Air cleaner closing

Door and cab locks, universal key

Two outside rear view mirrors

Travel alarm

Quick coupler (dual lock) and piping Rubber track shoes (400 mm / 16")

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")

Track rail guard

Starting aid (air grid heater) cold weather

Viscous fan clutch

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

# **OPTIONAL EQUIPMENT**

Fuel filler pump (35ℓ/min, 9.2 gpm) Beacon lamp Accumulator

Long arm (1.9 m / 6'3") Tool kit Cabin front, rear work lamp

Steel Track shoes with rubber pad (400 mm / 16")

Safety lock valve for boom cylinder with overload warning Safety Lock valve for arm cylinder Rear view camera

Steel track shoes (380 mm / 15")



www.hceamericas.com 6100 Atlantic Blvd., Norcross, GA 30071 TEL (678) 823 7777 FAX (678) 823 7778

Made in the U.S.A 1041-EX-SP 12/2017v6