# Hyundai R80cr-9A

**Specifications** 

**ENGINE** 

FIAGUAL					
MODEL			YANMAR 4TNV98C		
Туре			Water-cooled, 4-cycle diesel 4 cylinders in line, direct injection, low emission		
Rated	C 4 F	J1995 (gross)	66.9 HP (49.9 kW) at 2,400 rpm		
flywheel horsepower	SAE	J1349 (net)	65.1 HP (48.5 kW) at 2,400 rpm		
Max. torque			24 kgf·m (174 lbf·ft) at 1,560 rpm		
Bore X stroke	Bore X stroke		98 mm (3.86") x 110 mm (4.33")		
Piston displac	emen	it	3,319 cc (203 in³)		
Battery			1 x 12 V x 100 Ah		
Starting motor			12 V - 3.0 kW		
Alternator			12 V - 80 Amp		

### **HYDRAULIC SYSTEM**

MAIN PUMP	
Туре	Variable-displacement piston pumps + gear pump
Max. flow	2 X 68.4 ℓ/min (18.1 gpm) + 53.2 ℓ/min (14.1 gpm) at 1,900 rpm
Sub-pump for pilot circuit (Gear Pump)	16.9 ℓ/min (4.5 gpm)

### CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

HYDRAULIC I	MOTORS
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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	Circuit (4,410 psi)	
Travel circuit	280 kgf/cm² (3,983 psi)	
Swing circuit	230 kgf/cm² (3,271 psi)	
Pilot circuit	35 kgf/cm² (500 psi)	
Service valve	Installed	

### HYDRAULIC CYLINDERS

	Boom: 1-115 x 850 mm (4.5" x 33.5")
No. of a disorders	Arm: 1-100 x 870 mm (3.9" x 34.3")
No. of cylinders bore X stroke	Bucket: 1-85 x 685 mm (3.3" x 27.0")
bore A stroke	Boom swing: 1-110 x 744 mm (4.3" x 29.3")
	Dozer blade: 1-130 x 152 mm (5.1" x 6.0")

### Swing bearing lubrication Swing brake

COOLANT AND LUBRICANT CAPACITY							
(Refilling) liter gal							
Fuel tank	120.0	31.7					
Engine coolant	11.0	2.9					
Engine oil	11.6	3.1					
Final drive (each)	1.2	0.3					
Swing drive	1.5	0.4					
Hydraulic tank	71.0	18.8					
Hydraulic system	120.0	31.7					

Operating Weight (Cab) 8,750 kg (19,290 lb)

(ISO) 4,300 kgf / 9,480 lbf

**Arm Digging Force** 

Full hydrostatic type

Planetary reduction gear

Pilot-pressure-operated joysticks and pedals with detachable lever

Two levers with pedals

Electric, dial type

Axial piston motor

Grease-bathed

Multi wet disc

9.1 rpm

Planetary gear reduction

Two joysticks with one safety lever (LH): Arm swing, Boom swing (RH): Boom and bucket (ISO)

7,400 kgf (16,310 lbf)

30

Multi-wet disc

provide almost effortless and fatigueless operation

Axial piston motor, in-shoe design

4.6 km/hr (2.9 mph) / 2.8 km/hr (1.7 mph)

5.1 km/hr (3.2 mph) / 3.1 km/hr (1.9 mph)

### WEIGHT (APPROXIMATE)

Net Power 65.1 hp

TRAVEL SYSTEM Drive method

Drive motor

(high)/(low)

Gradeability

Parking brake

CONTROLS

Pilot control Traveling and steering

Engine throttle

Swing motor

Swing speed

Swing reduction

**SWING SYSTEM** 

Reduction system

Max. drawbar pull

(48.5 kW) at 2,400 rpm **Bucket Breakout Force** 

(ISO) 5,700 kgf / 12,570 lbf

Max. travel speed Steel track and Road Liner

Rubber track

Operating weight, including 3,400 mm (11° 2") boom, 1,670 mm (5° 6") arm, SAE heaped 0.28 m³ (0.37 yd³) excavator bucket, 450 mm (1°6") rubber track, lubricant, coolant, full fuel tank, hydraulic tank, 1,300 kg (2,870 lb) counterweight and the standard equipment.

Operating weight (cab)	8,750 kg (19,290 lb)
Ground pressure (cab)	0.41 kg/cm² (5.83 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	39
No. of upper rollers on each side	1
No. of lower rollers on each side	5

## R80CR-9A Lifting Capacity ISO Condition 2

Rating over front 🖷 Rating over side or 360 degree

### Boom: 3.4 m (12' 2") / Arm: 1.67 m (5' 6") / Bucket: 0.28 m³ (0.37 yd³) SAE heaped / Dozer down / Counterweight 1,330 kg (2,932 lb)

Lift-point height m (ft)		Lift-point radius						At max. reach		
		1.5m	(4.9ft)	3.0m (9.8ft)		4.5m (14.8ft)		Capacity		Reach
						ا ا		r <sup>th</sup>		m(ft)
4.5 m	kg					*1,900	1,830	*1,800	1,680	4.73
14.8 ft	lb					*4,190	4,030	*3,970	3,700	(15.5)
3.0 m	kg			*2,640	*2,640	*2,050	1,800	*1,650	1,270	5.59
9.8 ft	lb			*5,820	*5,820	*4,520	3,970	*3,640	2,800	(18.3)
1.5 m	kg			*3,810	3,060	*2,540	1,700	*1,710	1,140	5.88
4.9 ft	lb			*8,400	6,750	*5,600	3,750	*3,770	2,510	(19.3)
0.0 m	kg			*4,060	2,940	*2,860	1,630	*1,990	1,170	5.70
0.0 ft	lb			*8,950	6,480	*6,310	3,590	*4,390	2,580	(18.7)
-1.5 m	kg	*4,110	*4,110	*4,400	2,960	*2,630	1,620	*2,170	1,410	4.99
-4.9 ft	lb	*9,060	*9,060	*9,700	6,530	*5,800	3,570	*4,780	3,110	(16.4)
-3.0 m	kg			*2,340	*2,340			*1,930	*1,930	3.33
-9.8 ft	lb			*5,160	*5,160			*4,250	*4,250	(10.9)

Notes

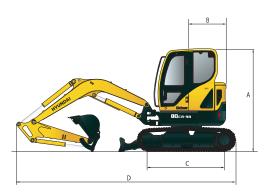
Lifting capacities are based on ISO 10567.
Lifting capacities of the 9A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

<sup>3.</sup> The lift-point is a hook (standard equipment) located on the back of the bucket.

<sup>4. (\*)</sup> indicates load limited by hydraulic capacity.

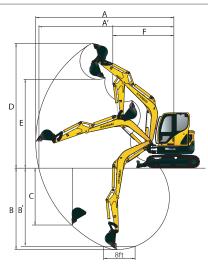
## **Dimensions & Working Range**

## **R80CR-9A DIMENSIONS**





360 (1' 2")



R8	R80CR-9A DIMENSIONS mm (ft-in)								
_	Overall height of cab	2,640 (8' 8")	E Track shoe width	The all the second date.	Steel	450 (1' 6")			
А	Overall neight of cab			Rubber	450 (1' 6")				
В	Tail swing radius	1,280 (4' 2")	F	Track gauge		1,850 (6' 1")			
С	Tumbler distance	2,200 (7' 3")	G	Overall width		2,300 (7' 7")			

### 2,200 (7' 3") **G** Overall width C Tumbler distance 6,170 (20' 3") H Ground clearance **BUCKETS**

Сар	acity	Wid	Weight	
SAE heaped CECE heaped		Without side cutters	With side cutters	vveignt
0.14 m³ (0.18 yd³)	0.13 m <sup>3</sup> (0.17 yd <sup>3</sup> )	390 mm (15.4")	470 mm (18.5")	185 kg (410 lb)
0.28 m <sup>3</sup> (0.37 yd <sup>3</sup> )	0.25 m³ (0.33 yd³)	730 mm (28.7")	810 mm (31.9")	230 kg (510 lb)

R80CR-9A WORKING RANGE mm (ft-in)			
	Boom length	3,400 (11' 2")	
	Arm length	1,670 (5' 6")	2,200 (7' 3")
Α	Max. digging reach	6,960 (22' 10")	7,390 (24' 3")
A <sup>1</sup>	Max. digging reach on ground	6,820 (22' 5")	7,250 (23' 9")
В	Max. digging depth	4,180 (13' 7")	4,620 (15 <b>'</b> 2")
B <sup>1</sup>	Max. digging depth (8 ft)	3,780 (12' 5")	4,330 (14' 2")
C	Max. vertical wall digging depth	3,570 (11' 9")	4,040 (13' 3")
D	Max. digging height	6,750 (22' 1")	7,040 (23' 1")
Е	Max. dumping height	4,730 (15' 6")	5,050 (16' 7")
F	Min. swing radius	2,500 (8' 2")	2,610 (8' 7")

### **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
- Stow away windshield wiper
- Sliding fold-in front window
- Sliding side window
- Lockable door
- Accessory box and ashtray

Air-conditioner and heater Travel alarm

Quick coupler with piping

Accumulator

Cabin rear work lamp

### Centralized monitoring

- Engine speed
- Gauges

Fuel-level gauge

Engine coolant temperature gauge

Warning Indicators

Fuel-level

Engine oil pressure Engine coolant temperature

Hydraulic oil temperature

Low battery

Air cleaner clogging

• Fuel prefilter

Rubber track shoes (450 mm / 1' 6")

Pattern-change lever

Additional counterweight (200 kg I 440 lb) Door and cab locks, one key

Radio / USB player with remote control

Outside rearview mirror

Single-acting piping kit (breaker, etc) Double-acting piping kit (clamshell, etc.)

Fully adjustable suspension seat with seat belt

Console box tilting system (LH)

Two front working lights

Electric horn

Battery (1 x 12 V x 100 Ah)

Battery master switch

12-volt power supply Automatic swing brake

Removable reservoir tank Water separator, fuel line

Mono boom (3.4 m / 11' 2")

Arm (1.67 m / 5' 6")

Track rail guard

Starting aid (air grid heater) cold weather

Hyundai bucket (0.18 m3 / 0.24 yd3)

### **OPTIONAL EQUIPMENT**

Beacon lamp Long arm (2.2 m / 7' 3")

Safety lock v/v for boom cylinder with overload warning

Safety lock v/v for arm cylinder Steel track shoes (450 mm / 1' 6") Rearview camera



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