

Hyundai R80CR-9A

Specifications

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

Bucket Breakout Force
(ISO) 5,700 kgf / 12,570 lbf

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

Arm Digging Force
(ISO) 4,300 kgf / 9,480 lbf

ENGINE

MODEL			YANMAR 4TNV98C
Type			Water-cooled, 4-cycle diesel 4 cylinders in line, direct injection, low emission
Rated flywheel horsepower	SAE	J1995 (gross)	66.9 HP (49.9 kW) at 2,400 rpm
		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			98 mm (3.86") 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 - 80 Amp

HYDRAULIC SYSTEM

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

TRAVEL SYSTEM

Drive method	Full hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	7,400 kgf (16,310 lbf)
Max. travel speed Steel track and Road Liner (high)/(low)	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)
Gradeability	30°
Parking brake	Multi-wet disc

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

Pilot control	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	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

WEIGHT (APPROXIMATE)

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



Rating over front



Rating over side or 360 degree

R80CR-9A Lifting Capacity ISO Condition 2

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
										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)

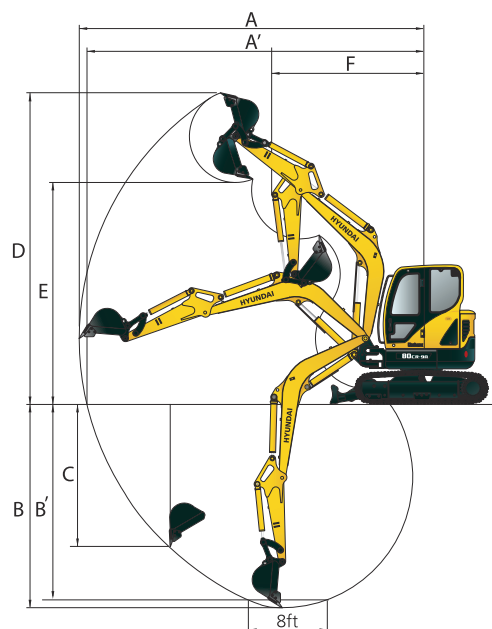
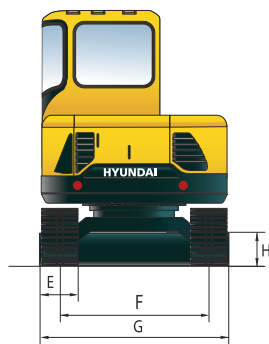
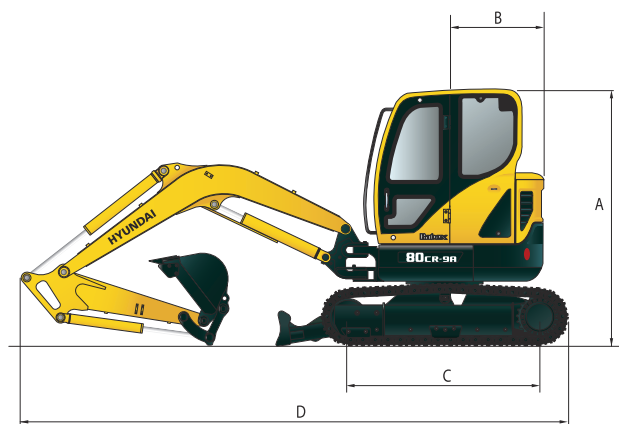
Notes:

- 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.

- The lift-point is a hook (standard equipment) located on the back of the bucket.
- (*) indicates load limited by hydraulic capacity.

Dimensions & Working Range

R80CR-9A DIMENSIONS



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			mm (ft-in)
A Overall height of cab	2,640 (8' 8")	E Track shoe width	Steel 450 (1' 6") Rubber 450 (1' 6")
B Tail swing radius	1,280 (4' 2")	F Track gauge	1,850 (6' 1")
C Tumbler distance	2,200 (7' 3")	G Overall width	2,300 (7' 7")
D Overall length	6,170 (20' 3")	H Ground clearance	360 (1' 2")

BUCKETS

Capacity		Width		Weight
SAE heaped	CECE heaped	Without side cutters	With side cutters	
0.14 m ³ (0.18 yd ³)	0.13 m ³ (0.17 yd ³)	390 mm (15.4")	470 mm (18.5")	185 kg (410 lb)
0.28 m ³ (0.37 yd ³)	0.25 m ³ (0.33 yd ³)	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")
A Max. digging reach	6,960 (22' 10")	7,390 (24' 3")
A' Max. digging reach on ground	6,820 (22' 5")	7,250 (23' 9")
B Max. digging depth	4,180 (13' 7")	4,620 (15' 2")
B' 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")
E 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 / 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")

Tool kit

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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