

# Hyundai R80CR-9A

## Specifications

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

**Bucket breakout force**  
(SAE) 48.4 kN (10,890 lbf)

**Operating weight**  
(Cab) 8,750 kg (19,290 lb)

**Max dig depth**  
4,140 mm (13'7")

### ENGINE

|                           |     |  |                                |
|---------------------------|-----|--|--------------------------------|
| MODEL                     |     | YANMAR 4TNV98C   |                                |
| Type                      |     | Water-cooled, 4-cycle diesel<br>4 cylinders in line,<br>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 cu in)   |                                |
| Battery                   |     | 1 x 12 V x 100 Ah  |                                |
| Starting motor            |     | 12V-3.0 kW   |                                |
| Alternator                |     | 12V-80 Amp   |                                |

### HYDRAULIC SYSTEM

|                            |   |
|----------------------------|---|
| MAIN PUMP                  |   |
| Type                       | Variable-displacement piston pumps + gear pump                    |
| Max. flow                  | 2 X 68.4 l/min (18.1 gpm)<br>+ 53.2 l/min (14.1 gpm) at 1,900 rpm |
| 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 | P1 / P2 : 280 kgf/cm <sup>2</sup> (3,980 psi)<br>P3 : 230 kgf/cm <sup>2</sup> (3,270 psi) |
| Travel circuit     | 280 kgf/cm <sup>2</sup> (3,983 psi)   |
| Swing circuit      | 230 kgf/cm <sup>2</sup> (3,271 psi)   |
| Pilot circuit      | 35 kgf/cm <sup>2</sup> (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 (high) / (low) | Steel track and Road Liner         | 4.6 km/hr (2.9 mph) / 2.8 km/hr (1.7 mph) |
|                                  | Rubber track                       | 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<br>(LH): Arm / swing<br>(RH): Boom / 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 m<sup>3</sup> (0.37 yd<sup>3</sup>) 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/cm <sup>2</sup> (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

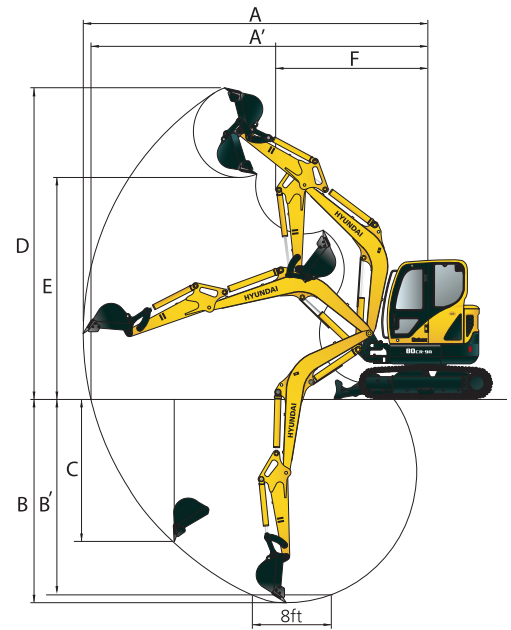
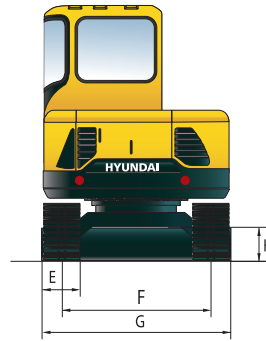
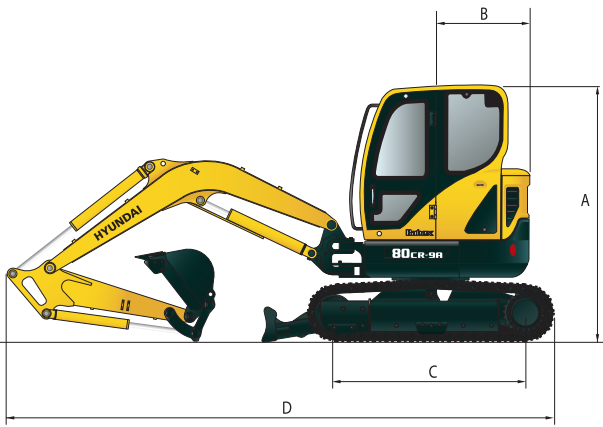
Boom: 3.4 m (12' 2") / Arm: 1.67 m (5' 6") / Bucket: 0.28 m<sup>3</sup> (0.37 yd<sup>3</sup>) SAE heaped / Dozer blade down / Counterweight 1,330 kg (2,932 lb)

| 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



### R80CR-9A DIMENSIONS

|                         |                |                    | mm (ft-in)                              |
|-------------------------|----------------|--------------------|---|
| A Overall height of cab | 2,640 (8' 8")  | E Track shoe width | Steel 450 (1' 6")<br>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 <sup>3</sup> (0.18 yd <sup>3</sup> ) | 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 m <sup>3</sup> (0.33 yd <sup>3</sup> ) | 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 m<sup>3</sup> / 0.24 yd<sup>3</sup>)

## 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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