

STANDARD EQUIPMENT

ISO standard cabin

- Cabin ROPS(ISO 12117-2)
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
- Accessory box & Ash-tray

Centralized monitoring

- Engine speed
- Gauges
Fuel level gauge

- Engine coolant temperature gauge
- Warning
- Fuel level
- Engine oil pressure
- Engine coolant temperature
- Hyd. oil temperature
- Low battery
- Air cleaner clogging
- Fuel prefilter

Air-conditioner & heater

- Single acting piping kit (breaker, etc)
- Door and cab locks, one key
- AM/FM radio and USB player with remote control
- Outside rear view mirror
- Fully adjustable suspension seat with seat belt

Console box tilting system(LH.)

- Three 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
- Counterweight
- Mono boom (3.4 m, 11' 2")
- Arm (1.67 m, 5' 6")
- Track shoes (450 mm, 1' 6")
- Track rail guard
- Starting aid (air grid heater) cold weather

OPTIONAL EQUIPMENT

Fuel filler pump (35l/min, 9.2 US gpm)

Beacon lamp

Double acting piping kit (clamshell, etc)

Accumulator, work equipment lowering

Electric transducer

Travel alarm

Quick coupler

Rubber crawler (450 mm, 1' 6")

Narrow bucket (0.14m³, 0.18yd³)

Long arm (2.2m, 7' 3")

Tool kit

Operator suit

Mechanical suspension seat with heater

Cabin rear work lamp

Lever pattern change valve

Track shoes (600mm, 1' 12")

We build a better future

Robex

80CR-9

With Tier 4 Interim Engine installed



* 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

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*Photo may include optional equipment.

HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

Pride at Work

Hyundai Heavy Industries strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality. Take pride in your work with Hyundai!

Robex 80CR-9

Machine Walk-Around

Rugged Upper and Lower Frame

The upper frame is designed with optimum structural integrity to absorb impact and operational stress. The x-style center frame and reinforced box section track frame provide exceptional strength and longer service life to withstand tough working conditions.

Engine Technology

The fuel efficient, Tier 4 interim certified Yanmar 4TNV98 engine provides proven, reliable power. This engine is electronically controlled for optimum fuel to air ratio and clean, efficient combustion and provides low noise, anti-restart features.

Efficient Control System

All control devices are arranged for higher productivity and improved operator comfort. Efficient and ergonomic controls allow an operator to control the machine in any working environment. A safety lever on the left-side console is provided to prevent exiting the cabin while hydraulic controls are live.

Advanced Hydraulic System

The R80CR-9's advanced hydraulic system includes an arm flow summation system, boom holding system and a swing parking brake for smooth and fine control. Other valuable features include a hydraulic damper in the travel pedal, and a hydraulically lubricated swing reducer with a leak-free grease chamber.

Comfortable and Durable Cabin

The cabin is roomy and ergonomically designed, for reduced noise and good visibility. The cabin frame meets international standard TOPS, ROPS, FOPS ensuring operator safety.

Operator Convenience

Convenient operator features include a suspension seat, excellent visibility, and variable storage space for advanced operator comfort. The newly designed LED cluster provides current information, including engine RPM, engine coolant, fuel level, and electric components. A hydraulic function safety lock and auto diagnostic features are also available. lock and failure diagnosis functions are also integrated. A powerful air conditioning system and Radio & USB player contribute to a productive work environment.

Easy and Simple Maintenance

Wide open access of doors, covers, hoods is designed for easier maintenance. The air cleaner and centralized grease fittings are also integrated for easy service.

Extended Life of Components

Long life components and wear parts, including hydraulic filters, oil, shims, and bushings, help to reduce operating costs.



*Photo may include optional equipment.

Preference

The powerful and sophisticated R80CR-9 provides the operator with a large, comfortable operating environment and an ergonomically designed suspension seat with arm rests for an enhanced operating experience. For additional convenience, precision designed joystick controllers and an easy to read monitor provide the operator with quick access to information and machine control.



*Photo may include optional equipment.

Operator Comfort

The R80CR-9 operator's cab is designed for a comfortable operating experience. An ergonomically designed suspension seat, adjustable arm rests and a spacious environment helps to minimize operator fatigue. Control levers are easily accessible and a instrument display is provided to keep the operator informed of pertinent machine information.

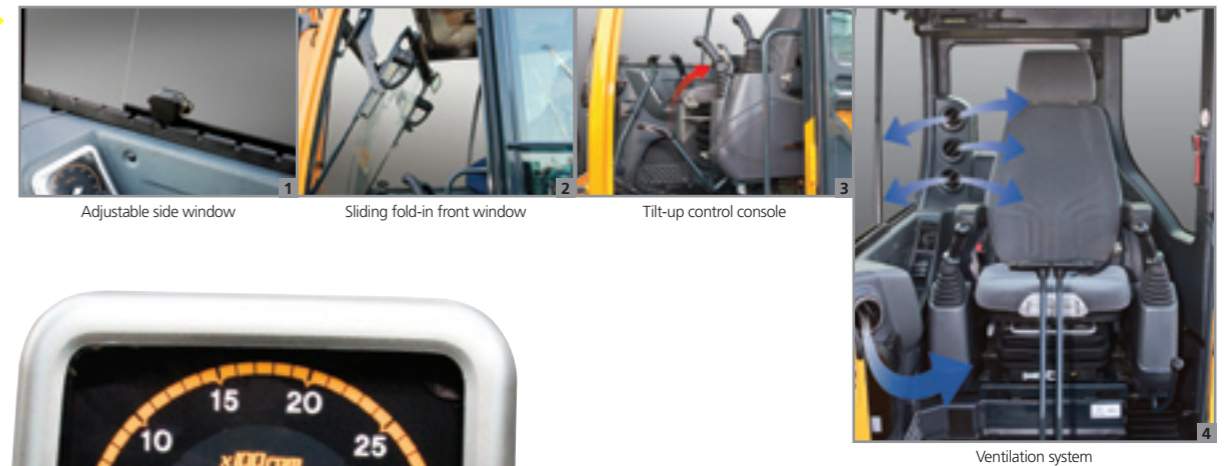
1. A large upper roof glass provides additional visibility and a roller shade is provided to reduce glare and sunlight.
2. An advanced audio system with AM/FM stereo with USB player input, plus remotely located control is perfect for listening to music favorites.
3. A hands-free cell phone function is available for safe and convenient phone use.
4. Ergonomically designed joysticks reduce operator fatigue during the work day.
5. Accel dial with LED lamp is easy to control and recognizable in darkness.
6. Multiple storage compartments are available for additional convenience.



Enhanced Cabin

Hyundai's R80CR-9 is equipped for convenience and productivity.

1. Adjustable position window prevents window movement while operating.
2. A sliding fold-in front window is easily opened and safely stored in an open position to improve ventilation and visibility.
3. A tilt-up left side control console provides easier entrance and exit from the cab.
4. A full auto air-conditioning system provides the operator with optimum air temperature.



Wide Cabin with Excellent Visibility

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. Special attention was given to a clear, open and convenient interior with plenty of visibility on the machine surroundings and the job at hand. This well balanced combination of precision aspects put the operator in the perfect position to work safely and securely.

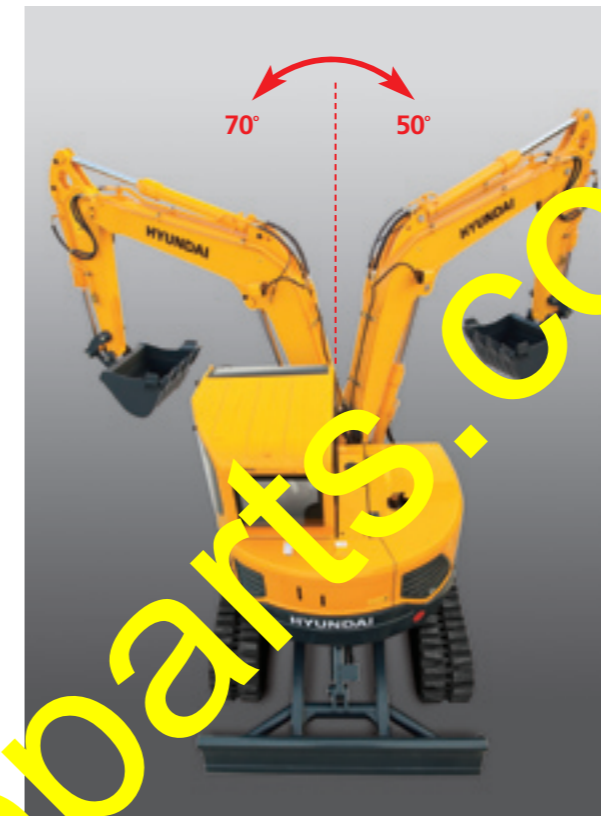


Operator - Friendly Cluster

The advanced new LED cluster allows the operator to select his personal machine preferences. The monitor displays engine rpm, engine oil temperature, water temperature and information for all electronic devices. Button selections are provided for auto idle mode, max power mode, and travel speed. A security feature is also provided to prevent the machine from starting without a proper password.

Precision & Performance

Innovative hydraulic system technologies make the R80CR-9 excavator fast, smooth and easy to control. Also R80CR-9 is designed for maximum performance to keep the operator working productively.

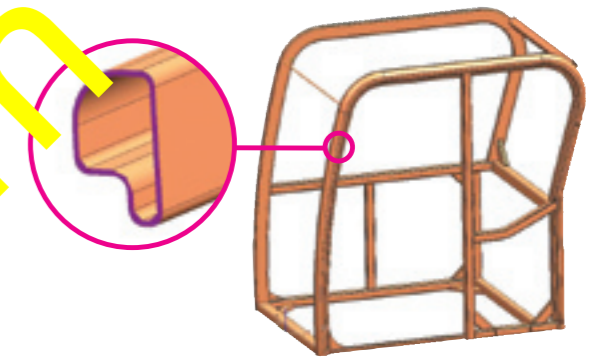


Boom Swing

The R80CR-9's boom swing function is designed for efficient work in congested residential and urban areas. The boom can be offset left or right within an operating range. Plus, increased swing torque provides enhanced operating capability on the slope.

Improved Hydraulic System

Optimized matching between the joystick and main control valve improves fine control and smoothness of operation. An arm flow summation system provides energy savings, reduced cavitation and increased speed. To improve safety and avoid boom drift the R80CR-9 is equipped with an integrated boom holding system.



Structure Strength

The R80CR-9 cabin structure has been fitted with stronger but slimmer tubing for added safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests.



Short Tail Swing

R80CR-9's short tail swing radius allows the operator work in confined areas like close to buildings on roadways, and in urban areas. This compact radius design provides easy and efficient operation in any limited space work environment.



Yanmar 4TNV98

The Highest Engine Power in its Class

Yanmar 4TNV98 engine provides 24.5 kgf.m (177 lbf.ft) of maximum torque with 60 HP at 2,400rpm of rated power. This means the R80CR-9 runs with the most power in its class, giving you more power to get the job done.

*Photo may include optional equipment.

Profitability

R80CR-9 is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.



Improved Durability

The R80CR-9's reinforced arm lug & dozer cylinder cover provide better reliability on the tough working condition.



Easy Change Air Cleaner

The R80CR-9 is equipped with a durable plastic air cleaner designed for easy maintenance.



Centralized Grease Fittings

A centralized lubrication bank is available for faster, easier service and maintenance.



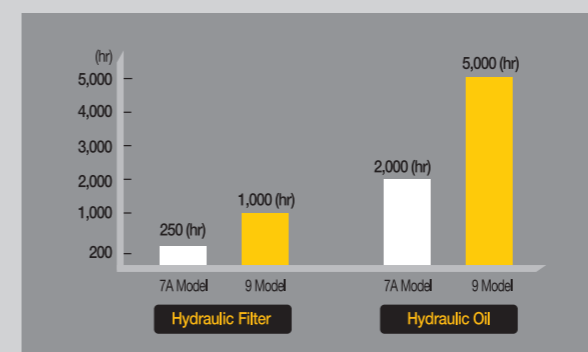
Wide Open Engine hood

A newly designed full-open type engine hood makes service more convenient on the R80CR-9.



Tilting Cabin

R80CR-9's tiltable cabin provides the operator with convenient maintenance.



Extended Life Components

9 series excavators were designed with bushings designed for extended lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), extended-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated preheating systems which extend service intervals, minimize operating costs and reduce machine down time.

*Photo may include optional equipment.

Specifications

ENGINE

MODEL	YANMAR 4TNV98		
Type	Water cooled, 4 cycle diesel 4 cylinders in line, direct injection, low emission		
Rated flywheel horsepower	SAE	J1995 (gross)	59.6 HP (44.4 kW) at 2,100 rpm
		J1349 (net)	58.2 HP (43.4 kW) at 2,100 rpm
	DIN	6271/1 (gross)	60.4 PS (44.4 kW) at 2,100 rpm
		6271/1 (net)	59.0 PS (43.4 kW) at 2,100 rpm
Max. torque	24.5 kgf-m (177 lbf-ft) at 1,350 rpm		
Bore X stroke	98 mm (3.86") x 110 mm (4.33")		
Piston displacement	3,319 cc (202 cu in)		
Batteries	2 x 12 V x 100 AH		
Starting motor	12V-3.0 kW		
Alternator	12V-80 Amp		

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Two variable displacement piston pumps
Max. flow	2 X 72 l/min(19 US gpm / 15.8 UK gpm)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	P1 / P2 : 280 kgf/cm ² (3,980 psi) P3 : 230 kgf/cm ² (3,270 psi)
Travel circuit	280 kgf/cm ² (3,980 psi)
Swing circuit	230 kgf/cm ² (3,270 psi)
Pilot circuit	35 kgf/cm ² (500 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder bore X stroke	Boom: 1-115 x 850 mm (4.5" x 33.5")
	Arm: 1-100 x 873 mm (3.9" x 34.4")
	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")

NOISE LEVEL (CAB)

Nosie levels (dynamic valve)	
LwA	98 dB
LpA	78 dB

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)	4.3 km/hr (2.7 mph) / 2.8 km/hr (1.7 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.

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	9.6 rpm

COOLANT & LUBRICANT CAPACITY

(Refilling)	liter	US gal	UK gal
Fuel tank	120.0	31.7	26.4
Engine coolant	11.0	2.9	2.4
Engine oil	11.6	3.1	2.6
Final drive(each)	1.2	0.3	0.3
Hydraulic tank	71.0	18.8	15.6
Hydraulic system	120.0	31.7	26.4

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 shoe on each side	39
No. of upper roller on each side	1
No. of lower roller on each side	5

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 3,400 mm (12' 2") boom, 1,670 mm (5' 6") arm, SAE heaped 0.28 m³ (0.37 yd³) digging bucket, lubricant, coolant, fuel tank, hydraulic tank and the standard equipment.

MAJOR COMPONENT WEIGHT

Upperstructure	4,090 kg (9,030 lb)
Counterweight	930 kg (2,050 lb)
Mono boom(with arm cylinder)	550 kg (1,210 lb)

OPERATING WEIGHT

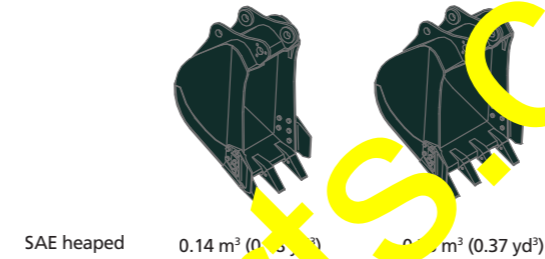
Operating weight	Steel (45°)	8,530 kg (18,410 lb)
	Rubber (45°)	8,250 kg (18,190 lb)

*Mono boom with blade

Ground Pressure	Steel (45°)	0.39 kgf-m / cm ² (5.55 psi)
	Rubber (45°)	0.38 kgf-m / cm ² (5.40 psi)

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)	530 mm (20.9")	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)



DIGGING FORCE (ISO)

Bucket	5,700 kgf
	55.9 kN
	12,570 lbf
Arm	4,300 kgf
	42.2 kN
	9,480 lbf

Lifting Capacity

80CP9
Rating over-front Rating over-side or 360 degree

Boom : 3.4m (12' 2") / Arm : 1.67 m (5' 6") / Bucket : 0.28m³ (0.37yd³) SAE heaped / Dozer blade down with 930kg (2,050 lb) counterweight.

Load point height m (ft)	1.5 m (5 ft)		Load radius 3.0 m (10 ft)		4.5 m (15 ft)		At max. reach		
							Capacity		Reach
									m (ft)
4.5 m (15 ft)	kg				*1550	1480	*1470	1040	5.74
	lb				*3420	3260	*3240	2290	(17.9)
3.0 m (10 ft)	kg				*1740	1430	*1530	780	6.23
	lb				*3840	3150	*3370	1720	(20.4)
1.5 m (5 ft)	kg		*4050	2510	*2260	1320	*1620	700	6.45
	lb		*8930	5530	*4980	2910	*3570	1540	(21.2)
Ground	kg		*4830	2320	*2650	1230	*1710	740	6.20
	lb		*10650	5110	*5840	2710	*3770	1630	(20.3)
-1.5 m (-5 ft)	kg	*4730	*4730	*4410	2320	*2550	1210	*1760	940
	lb	*10430	*10430	*9720	5110	*5620	2670	*3880	2070
-3.0 m (-10 ft)	kg			*2810	2430				
	lb			*6190	5360				

- 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 Capacity

R80CR-9

Rating over-front Rating over-side or 360 degree

Boom : 3.4m (12' 2") / Arm : 1.67 m (5' 6") / Bucket : 0.28m³ (0.37yd³) SAE heaped / Dozer blade up with 930kg (2,050 lb) counterweight.

Load point height m (ft)		Load radius				At max. reach				
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		Capacity		Reach
4.5 m (15 ft)	kg					*1550	1380	1110	970	5.74
	lb					*3420	3040	2450	2140	(17.9)
3.0 m (10 ft)	kg					1540	1340	840	730	6.23
	lb					3400	2950	1850	1610	(20.4)
1.5 m (5 ft)	kg			2770	2320	1430	1230	760	650	6.45
	lb			6110	5110	3150	2710	1680	1430	(21.2)
Ground	kg			2570	2140	1330	1140	790	680	6.20
Line	lb			5670	4720	2930	2510	1740	1500	(20.3)
-1.5 m (-5 ft)	kg	*4730	*4730	2570	2140	1310	1120	1010	870	5.38
	lb	*10430	*10430	5670	4720	2890	2470	2230	1920	(17.7)
-3.0 m (-10 ft)	kg			2690	2250					
	lb			5930	4960					

Boom : 3.4m (12' 2") / Arm : 2.20 m (7' 3") / Bucket : 0.28m³ (0.37yd³) SAE heaped / Dozer blade down with 930kg (2,050 lb) counterweight.

Load point height m (ft)		Load radius				At max. reach						
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity	Reach	
4.5 m (15 ft)	kg					*1180	*1180			*1280	810	6.17
	lb					*2600	*2600			*2820	1790	(20.2)
3.0 m (10 ft)	kg					*1410	*1410	*1400	820	*1320	630	6.84
	lb					*3110	*3110	*3090	1810	*2910	1390	(22.4)
1.5 m (5 ft)	kg			*3280	2580	*1970	1310	*1570	780	*1390	570	7.03
	lb			*7230	5690	*4340	2890	*3460	1720	*3060	1260	(23.1)
Ground	kg	*1900	*1900	*4600	2270	*2470	1190	*1730	730	*1460	590	6.80
Line	lb	*4190	*4190	*10140	5000	*5450	2620	*3810	1610	*3220	1300	(22.3)
-1.5 m (-5 ft)	kg	*3590	*3590	*4590	2220	*2580	1140			*1500	720	6.09
	lb	*7910	*7910	*10120	4890	*5690	2510			*3310	1590	(20.0)
-3.0 m (-10 ft)	kg	*5800	*5800	*3530	2290	*1890	1190			*1360	1220	4.58
	lb	*12790	*12790	*7780	5050	*4170	2620			*3000	2690	(15.0)

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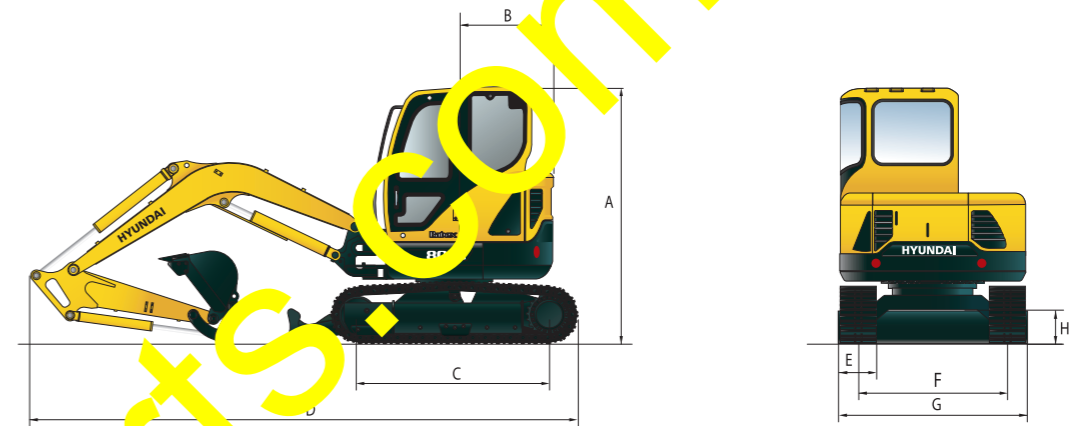
Load point height m (ft)		Load radius				At max. reach						
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity	Reach	
4.5 m (15 ft)	kg					*1180	*1180			870	750	6.17
	lb					*2600	*2600			1920	1660	(20.2)
3.0 m (10 ft)	kg					*1410	1350	880	760	680	580	6.84
	lb					*3110	2980	1940	1680	1500	1280	(22.4)
1.5 m (5 ft)	kg			2850	2390	1420	1220	840	720	1100	520	7.03
	lb			6280	5270	3130	2690	1850	1590	2430	1150	(23.1)
Ground	kg	*1900	*1900	2520	2090	1290	1100	790	670	640	540	6.80
Line	lb	*4190	*4190	5560	4610	2840	2430	1740	1480	1410	1190	(22.3)
-1.5 m (-5 ft)	kg	*3590	*3590	2460	2040	1240	1050			1100	660	6.09
	lb	*7910	*7910	5420	4500	2730	2310			1720	1460	(20.0)
-3.0 m (-10 ft)	kg	*5800	*5800	2540	2110	1290	1100			1320	1130	4.58
	lb	*12790	*12790	5600	4650	2840	2430			2910	2490	(15.0)

- 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 Range

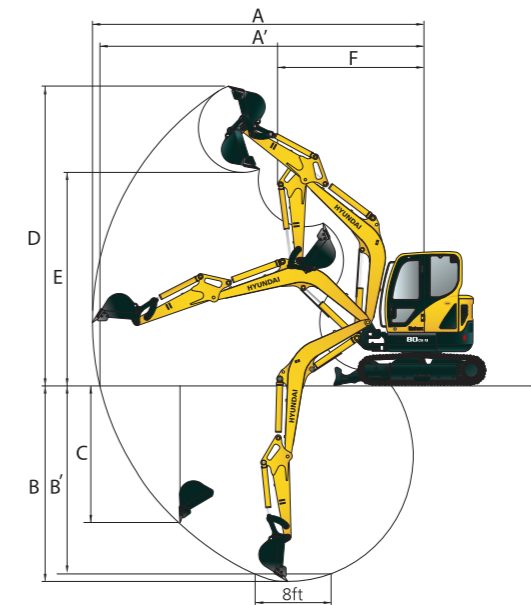
R80CR-9 DIMENSIONS

unit: mm(ft · in)



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

R80CR-9 WORKING RANGE



unit: 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	4,150 (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	6,740 (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")