

We build a better future

Robex
60CR-9

Equipped with Tier 3 Engine



*Photo may include optional equipment.

Pleasure works

An operator, who takes pleasure in his work, does a better job. That is why we at Hyundai Heavy Industries do everything we can to make that happen. We merged operator preference, fast precision and lasting performance into a quality product. Hyundai's 9 series earthmoving equipment simply makes time fly, makes pleasure work!



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Robex 60CR-9

Machine Walk-Around



Robust Upper and Lower Frame

The structure of the upper frame is designed to absorb high stress and to resist inherent external influences. An X-type center frame and a reinforced box section track frame provide exceptional strength and longer service life to withstand tough working conditions.

Engine Technology

Powerful and reliable, Tier 3a certified, fuel efficient Yanmar 4TNV98 engine. Electronically controlled, clean and efficient combustion. Low noise / anti-restart function.

Control System

Control devices are well located for increased operator's comfort and a higher productivity. The operator can easily control the machine in any working condition. A safety lever on the left side console is installed to prevent exiting the cabin with active hydraulic control levers.

Advanced Hydraulic System

Our new R60CR-9 is equipped with arm flow summation system, boom holding system and swing parking brake for smooth and fine control. Other integrated features are hydraulic damper in travel pedals, swing reducer lubrication by hydraulic oil and leak-free grease chamber of swing bearing.

Comfortable and High-Strength Cabin

The spacious cabin is ergonomically designed, with low noise level and high visibility. Cabin frame meets international standard TOPS, ROPS & FOPS, for maximum protection of the operator.

Operators' Convenience

The cabin of the R60CR-9 is equipped with suspension seat, excellent visibility and various storage space for advanced operator comfort. The newly designed LED-cluster displays engine RPM, engine temperature, fuel level and state of electric devices to check the full status of the machine at a single glance. Diagnostic functions are also integrated. Powerful air conditioning and radio with MP3-player makes a Hyundai excavator a pleasure to operate.

Easy to Maintain

With open access of doors, covers and engine hoods, air cleaner and centralized grease fittings the machine is a pleasure to maintain.

Extended Life of Components

Long-life hydraulic filters, long-life hydraulic oil, long-lasting shims and long-lasting bushes are reducing operation costs.

Preference

An operator, who sets his machine to his needs, takes pleasure in his work. Our R60CR-9 respects operator preference with regards to comfort, ease-of-use and controllability. Operators can fully customize their work environment and operating preferences to fit their individual needs.



*Photo may include optional equipment.



Spacious Cabin with Excellent Visibility

The spacious cabin is ergonomically designed with low noise levels and high visibility. Special attention was paid to create a clear, open and convenient interior with excellent visibility in all directions. This well balanced operators' environment put the operator in the perfect position to work safely and securely.

Operator Comfort

In the cabin of our R60CR-9 you can experience the highest level of comfort. The ergonomic location of joysticks with adjustable arm rests, suspension seat, control levers and LED-display minimizes fatigue of the operator. The LED-display shows all information of the machine with a blink of an eye.

1. A large top glass combined with a roll-up sun visor offers high visibility.
2. An advanced audio system with radio / MP3-player with AUX-input, combined with a remote control is installed to listen to your preferred music favorites.
3. Operators are able to call while operating with the hands-free mobile phone feature.
4. Ergonomically designed joysticks reduce operator fatigue.
5. Accel dial with LED lamp
6. Cabin provides various storage compartments for operator's convenience.

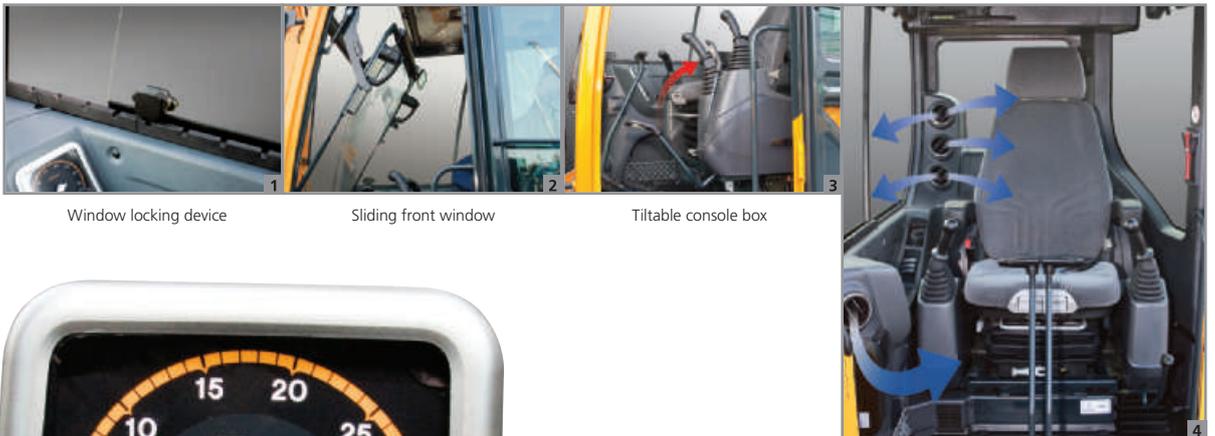


Roll-up Sun visor Radio / MP3-player with remote control Hands-free cell phone Ergonomic joysticks Accel dial with LED lamp Storage compartments

Stressless

Work is stressful enough; your working environment should be stressless. Hyundai's R60CR-9 compact excavator provides many convenient devices for safe and productive work.

1. The window locking device keeps the right window in the preferred position.
2. The sliding front window is easy to open and can be locked safely in open position to improve ventilation and visibility.
3. The tiltable left-side console box offers easy access to the cabin.
4. The automatic temperature control provides the operator with the preferred air temperature.



Window locking device

Sliding front window

Tilttable console box

Climate control system



Easy-to-use Cluster

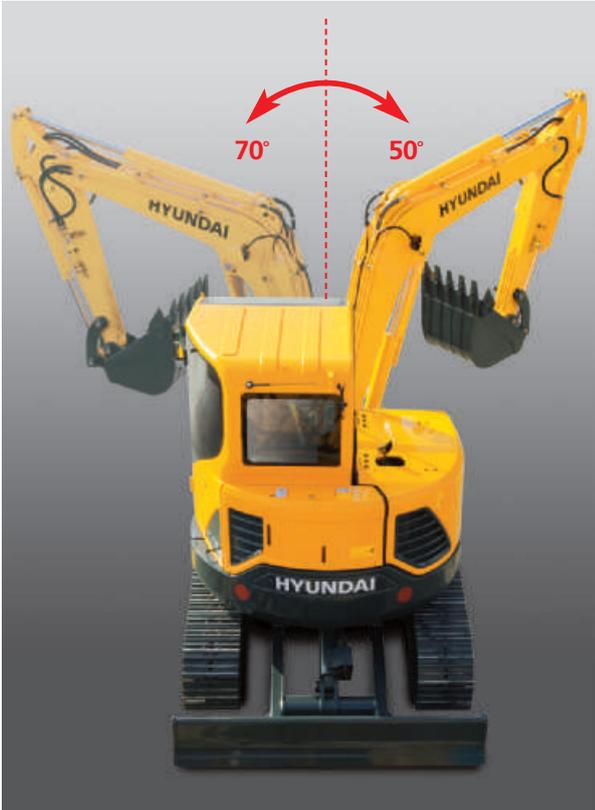
The advanced LED-cluster allows the operator to select his personal machine preferences. The monitor displays engine rpm, engine temperature and state of electronic devices. The operator can select auto deceleration mode and max power mode and he can control travel speed with the touch of a button. An engine starting lock prevents theft of the machine.

Precision & Performance

An operator, who feels his machine respond smoothly, takes pleasure in his work. 9 Series deliver fast precision by combining smoother hydraulics with wider view and less stress. Innovative hydraulic system technologies make the R60CR-9 excavator fast, smooth and easy to control.

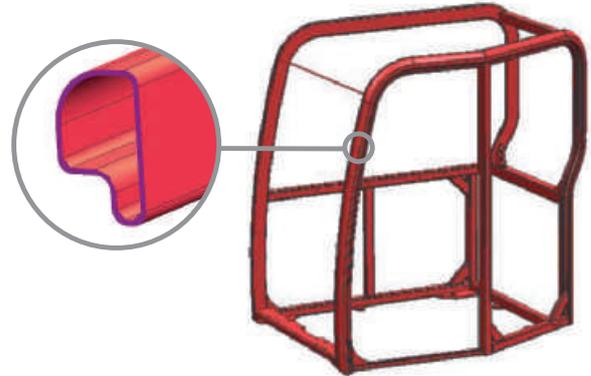


*Photo may include optional equipment.



Offset Boom

The R60CR-9's boom offset function is designed for efficient work in congested residential and urban areas. The boom can be offset from 70° to the left up to 50° to the right. Increased swing torque provides better operating capability on a slope.



Structural Strength

The 9 Series cabin structure is designed with slimmer but stronger tubing for more safety and better visibility. Low-stress and high strength steel is welded to form a strong and stable lower frame. Structural durability is analyzed and tested by FEM-analysis (Finite Elements Method) and long-term durability tests.

Improved Hydraulic System

To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and high controllability. Improved pump flow control reduces hydraulic flow when controls are not activated to minimize fuel consumption. Improved hydraulic valves, precise variable volume piston pumps and fine-touch pilot controls make any operator of our 9 series look like a smooth operator.



High Performance on Narrow Jobsites

R60CR-9's reduced tail swing radius allows the operator to work with less worries on narrow jobsites such as road building or urban areas. The Compact radius design provides efficient operation with limited space.

Yanmar 4TNV98

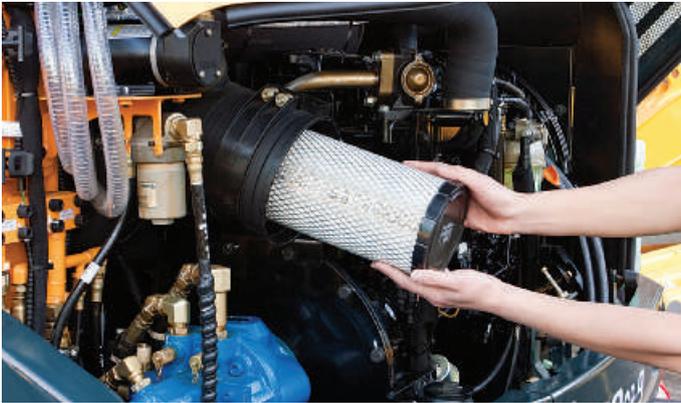
Yanmar 4TNV98 engine provides 20.5 kgf.m (148 lbf.ft) of maximum torque with 57 HP at 2,400 rpm of rated power. This means the R60CR-9 runs with the most power in its class, giving you more power to get the job done.

Profitable

An owner, who knows his machine saves money, takes pleasure in owning it. 9 Series excavators contribute to your business as a time, fuel, spare-part and cost saving earthmoving solution.



*Photo may include optional equipment.



Accessible Air Cleaner

The R60CR-9 is equipped with a durable plastic air cleaner designed for easy maintenance.



Large Engine hood

9 series compact excavator are offering easy access to the engine compartment with a large engine hood.



Improved Durability

The R60CR-9's reinforced arm lug & dozer cylinder cover provide extra protection in tough working conditions.



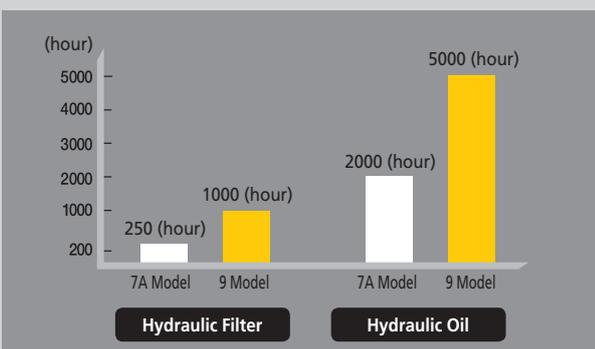
Centralized Grease Fittings

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



Tilting Cabin

R60CR-9's tiltable cabin provides the operator with convenient maintenance.



Extended Life of Components

By adopting long-life hydraulic filters (1000 hrs) and long-life hydraulic oil (5000 hrs) operation costs are reduced. Extended lubricant bush life & ultra high molecular weight polymer shim, more efficient cooling systems and integrated preheating systems are extending service intervals and reducing machine down time.

Specifications

ENGINE

MODEL		YANMAR 4TNV98	
Type		Water cooled, 4 cycle Diesel, 4-Cylinders in line, direct injection and low emission	
Rated flywheel horse power	SAE	J1995 (gross)	57 HP (42.5 kW) at 2,400 rpm
		J1349 (net)	55.2 HP (41.2 kW) at 2,400 rpm
	DIN	6271/1 (gross)	57.8 PS (42.5 kW) at 2,400 rpm
		6271/1 (net)	56 PS (41.2 kW) at 2,400 rpm
Max. torque		20.5 kgf·m (148 lbf·ft) at 1,550 rpm	
Bore x stroke		98 mm (3.86") x 110 mm (4.33")	
Piston displacement		3,319 cc (203 cu in)	
Batteries		1 x 12 V x 100 AH	
Starting motor		12 V - 3.0 kW	
Alternator		12 V - 80 Amp	

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Two variable displacement piston pumps + gear pump
Max. flow	2 x 57.8 ℓ/min + 36,6 ℓ/min
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	220 kgf/cm ² (3,130 psi)
Travel circuit	220 kgf/cm ² (3,130 psi)
Swing circuit	220 kgf/cm ² (3,130 psi)
Pilot circuit	30 kgf/cm ² (430 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore x stroke	Boom: 1-110 x 715 mm (4.3" x 28.1")
	Arm: 1-85 x 840 mm (3.3" x 33.1")
	Bucket: 1-80 x 660 mm (3.1" x 26.0")
	Boom swing: 1-95 x 519 mm (3.7" x 20.4")
	Dozer blade: 1-110 x 224 mm (4.3" x 8.8")

OPERATOR'S CAB

NOISE LEVELS	
Outside cabin - LwA	98 dB
Inside cabin - 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	5,300 kgf (11,700 lbf)
Max. travel speed (high) / (low)	4.0 km/hr (2.5 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 levers 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 speed	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	9.3 rpm

COOLANT & LUBRICANT CAPACITY

	liter
Fuel tank	82.0
Engine coolant	11.0
Engine oil	11.6
Final drive (each)	1.2
Hydraulic tank	70.0
Hydraulic system	120.0

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	40
No. of carrier rollers on each side	1
No. of track rollers on each side	5

OPERATING WEIGHT

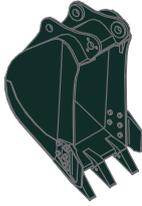
Operating weight, including 2,900 mm (9' 6") boom, 1,480 mm (4' 10") arm, SAE heaped 0.18 m³ (0.24 yd³) digging bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

MAJOR COMPONENT WEIGHT	
Upperstructure	2,900 kg (6,390 lb)
Counterweight	470 kg (1,030 lb)
Mono boom (with arm cylinder)	310 kg (680 lb)

OPERATING WEIGHT		
Operating weight	Steel tracks	5,900 kg (13,010 lb)
	Rubber tracks	5,800 kg (12,790 lb)
Ground Pressure	Steel tracks	0.36 kgf·m / cm ² (5.12 psi)
	Rubber tracks	0.34 kgf·m / cm ² (4.83 psi)

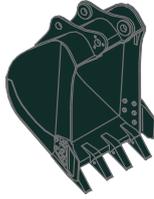
BUCKETS

Capacity		Width		Weight
SAE heaped	CECE heaped	Without side cutters	With side cutters	
0.07 m ³ (0.09 yd ³)	0.06 m ³ (0.08 yd ³)	315 mm (12.4")	360 mm (14.2")	115 kg (255 lb)
0.18 m ³ (0.24 yd ³)	0.15 m ³ (0.20 yd ³)	670 mm (26.4")	740 mm (29.1")	170 kg (375 lb)



SAE heaped

0.07 m³ (0.09 yd³)



0.18 m³ (0.24 yd³)

DIGGING FORCE (ISO)

Bucket	4,170 kgf
	40.9 kN
	9,190 lbf
Arm	2,700 kgf
	26.5 kN
	5,950 lbf

Lifting Capacities

R60CR-9



Rating over-front



Rating over-side or 360 degrees

Boom : 2.9 m (9' 6") / Arm : 1.48 m (4' 10") / Bucket : 0.18 m³ (0.24 yd³) SAE heaped / Dozer blade down with 470 kg (1,030 lb) counterweight.

Load point height m (ft)	Load radius								At max. reach			
	2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach m (ft)	
4.0 m (13 ft)	kg				*1120	*1120			*1050	790	4.99	
	lb				*2470	*2470			*2310	1740	(16.4)	
3.0 m (10 ft)	kg				*1180	1130			*1080	640	5.56	
	lb				*2600	2490			*2380	1410	(18.2)	
2.0 m (7 ft)	kg		*1890	1710	*1430	1080	*1250	740	*1120	580	5.82	
	lb		*4170	3770	*3150	2380	*2760	1630	*2470	1280	(19.1)	
1.0 m (3 ft)	kg		*2670	1580	*1740	1020	*1360	720	*1160	560	5.84	
	lb		*5890	3480	*3840	2250	*3000	1590	*2560	1230	(19.2)	
Ground Line	kg	*1980	*1980	*3000	1520	*1930	980	*1430	700	*1190	590	5.61
	lb	*4370	*4370	*6610	3350	*4250	2160	*3150	1540	*2620	1300	(18.4)
-1.0 m (-3 ft)	kg	*3230	3030	*2890	1500	*1910	970		*1210	690	5.09	
	lb	*7120	6680	*6370	3310	*4210	2140		*2670	1520	(16.7)	
-2.0 m (-7 ft)	kg	*3960	3080	*2370	1530				*1110	990	4.12	
	lb	*8730	6790	*5220	3370				*2450	2180	(13.5)	

- 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 Capacities

R60CR-9

 Rating over-front  Rating over-side or 360 degrees

Boom : 2.9 m (9' 6") / Arm : 1.48 m (4' 10") / Bucket : 0.18 m³ (0.24 yd³) SAE heaped / Dozer blade up with 470 kg (1,030 lb) counterweight.

Load point height m (ft)		Load radius								At max. reach		
		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach m (ft)
												
4.0 m (13 ft)	kg lb					*1120 *2470	1070 2360			1040 2290	740 1630	4.99 (16.4)
3.0 m (10 ft)	kg lb					*1180 *2600	1060 2340			860 1900	600 1320	5.56 (18.2)
2.0 m (7 ft)	kg lb			*1890 *4170	1600 3530	1430 3150	1010 2230	990 2180	690 1520	780 1720	540 1190	5.82 (19.1)
1.0 m (3 ft)	kg lb			2150 4740	1470 3240	1370 3020	960 2120	970 2140	670 1480	770 1700	520 1150	5.84 (19.2)
Ground Line	kg lb	*1980 *4370	*1980 *4370	2080 4590	1410 3110	1330 2930	920 2030	950 2090	650 1430	810 1790	550 1210	5.61 (18.4)
-1.0 m (-3 ft)	kg lb	*3230 *7120	2770 6110	2070 4560	1400 3090	1320 2910	900 1980			940 2070	650 1430	5.09 (16.7)
-2.0 m (-7 ft)	kg lb	*3960 *8730	2820 6220	2090 4610	1420 3130					*1110 *2450	920 2030	4.12 (13.5)

Boom : 2.9 m (9' 6") / Arm : 1.90 m (6' 3") / Bucket : 0.18 m³ (0.24 yd³) SAE heaped / Dozer blade down with 470 kg (1,030 lb) counterweight.

Load point height m (ft)		Load radius								At max. reach		
		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach m (ft)
												
4.0 m (13 ft)	kg lb									*900 *1980	670 1480	5.45 (17.9)
3.0 m (10 ft)	kg lb					*950 *2090	*950 *2090	*950 *2090	750 1650	*940 *2070	550 1210	5.96 (19.6)
2.0 m (7 ft)	kg lb			*1470 *3240	*1470 *3240	*1220 *2690	1070 2360	*1100 *2430	730 1610	*980 *2160	500 1100	6.19 (20.3)
1.0 m (3 ft)	kg lb			*2330 *5140	1580 3480	*1560 *3440	1010 2230	*1250 *2760	700 1540	*1020 *2250	490 1080	6.21 (20.4)
Ground Line	kg lb	*2000 *4410	*2000 *4410	*2850 *6280	1480 3260	*1820 *4010	950 2090	*1360 *3000	670 1480	*1070 *2360	510 1120	6.00 (19.7)
-1.0 m (-3 ft)	kg lb	*2840 *6260	*2840 *6260	*2920 *6440	1450 3200	*1900 *4190	930 2050	*1360 *3000	660 1460	*1110 *2450	580 1280	5.54 (18.2)
-2.0 m (-7 ft)	kg lb	*3980 *8770	2950 6500	*2590 *5710	1460 3220	*1690 *3730	930 2050			*1100 *2430	760 1680	4.70 (15.4)

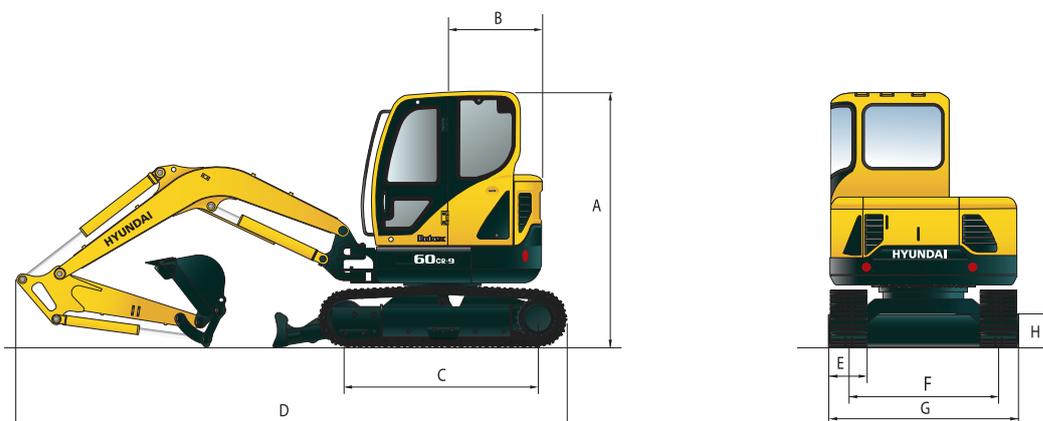
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Load point height m (ft)		Load radius								At max. reach		
		2.0 m (7 ft)		3.0 m (10 ft)		4.0 m (13 ft)		5.0 m (16 ft)		Capacity		Reach m (ft)
												
4.0 m (13 ft)	kg lb									890 1960	620 1370	5.45 (17.9)
3.0 m (10 ft)	kg lb					*950 *2090	*950 *2090	*950 *2090	700 1540	750 1650	510 1120	5.96 (19.6)
2.0 m (7 ft)	kg lb			*1470 *3240	*1470 *3240	*1220 *2690	1000 2200	980 2160	680 1500	690 1520	460 1010	6.19 (20.3)
1.0 m (3 ft)	kg lb			2150 4740	1470 3240	1360 3000	940 2070	950 2090	650 1430	670 1480	450 990	6.21 (20.4)
Ground Line	kg lb	*2000 *4410	*2000 *4410	2040 4500	1370 3020	1300 2870	880 1940	920 2030	620 1370	700 1540	470 1040	6.00 (19.7)
-1.0 m (-3 ft)	kg lb	*2840 *6260	2660 5860	2010 4430	1340 2950	1270 2800	860 1900	910 2010	610 1340	790 1740	530 1170	5.54 (18.2)
-2.0 m (-7 ft)	kg lb	*3980 *8770	2700 5950	2020 4450	1350 2980	1280 2820	860 1900			1040 2290	710 1570	4.70 (15.4)

- 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.

Dimensions & Working Ranges

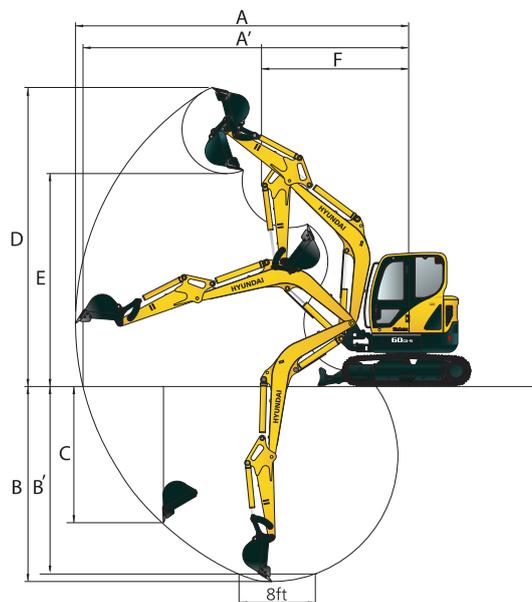
R60CR-9 DIMENSIONS



mm (ft · in)

A	Overall height of cab	2,550 (8' 4")		
B	Tail swing radius	1,080 (3' 7")		
C	Tumbler distance	1,990 (6' 6")		
D	Overall length	5,600 (18' 4")		
E	Track shoe width		Steel	380 (1' 3")
			Rubber	400 (1' 4")
F	Track gauge			1,600 (5' 3")
G	Overall width			2,000 (6' 7")
H	Ground clearance			380 (1' 3")

R60CR-9 WORKING RANGE



mm (ft · in)

Boom length	2,900 (9' 6")		
Arm length	1,480 (4' 10")		1,900 (6' 3")
A	Max. digging reach	6,150 (20' 2")	6,480 (21' 3")
A'	Max. digging reach on ground level	6,010 (19' 9")	6,350 (20' 10")
B	Max. digging depth	3,570 (11' 9")	3,990 (13' 1")
B'	Max. digging depth (8' level)	3,160 (10' 5")	3,620 (11' 11")
C	Max. vertical wall digging depth	3,040 (9' 12")	3,360 (11' 0")
D	Max. digging height	5,680 (18' 8")	5,850 (19' 2")
E	Max. dumping height	3,930 (12' 11")	4,100 (13' 5")
F	Min. front swing radius	2,420 (7' 11")	2,510 (8' 3")

STANDARD EQUIPMENT

ISO standard cabin

- Cabin ROPS (ISO 12117-2)
FOG (ISO 10262 Level 1)
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 lamps
- Fuel level
- Engine oil pressure
- Engine coolant temperature
- Hyd. oil temperature
- Low battery
- Air filter clogging
- Water in Fuel prefilter

Air-conditioner & heater

- Single acting piping kit (breaker, etc)
- Door and cab locks, one key fits all
- Radio / MP3 Player with AUX-input
- Outside rear view mirror
- 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 diesel tank
- Water separator, fuel line
- Counterweight
- Mono boom (2.9 m, 9' 6")
- Arm (1.48 m, 4' 10")
- Steel tracks (380 mm, 1' 3")
- Track rail guard
- Starting aid (air grid heater) cold weather

OPTIONAL EQUIPMENT

- Fuel filler pump (35 l/min, 9.2 US gpm)
- Beacon lamp
- Double acting piping kit (clamshell, etc)
- Accumulator, work equipment lowering
- Travel alarm

- Quick coupler
- Rubber tracks (400 mm, 1' 4")
- Narrow bucket (0.07 m³, 0.09 yd³)
- Long arm (1.9 m, 6' 3")
- Tool kit

- Operator suit
- Mechanical suspension seat with heater
- Cabin rear work lamp
- Pattern change valve (2 patterns)

- * 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

