

Specifications R80CR-9A

ENGINE

MODEL		YANMAR 4TNV98C	
Type		Water cooled, 4 cycle Diesel, 4-Cylinders in line, direct injection and low emission	
Rated flywheel horse power	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
	DIN	6271/1 (gross)	67.8 PS (49.9 kW) at 2,400 rpm
		6271/1 (net)	66 PS (48.5 kW) at 2,400 rpm
Max. torque		24.0 kgf.m (173.6 lbf.ft) at 1,560 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		12 V - 3.0 kW	
Alternator		12 V - 60 A	

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement piston pumps
Max. flow	2 x 68.4 l/min (18.1 US gpm / 15.0 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	300 kgf/cm ² (4,267 psi)
Swing circuit	250 kgf/cm ² (3,560 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 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")

OPERATOR'S CAB

Noise Levels (dynamic value)	
Outside cabin - LwA	99 dB
Inside cabin - LpA	76 dB

DRIVES & BRAKES

Drive method	Fully 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)	4.6 km/hr (2.9 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 fatiguelless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm (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 & LUBRICANT CAPACITY

	liter	US gal	UK gal
Refilling			
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 system	120.0	31.7	26.4
Hydraulic tank	71.0	18.8	15.6

UNDERCARRIAGE

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes 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) bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	4,090 kg (9,020 lb)
Mono boom (with arm cylinder)	550 kg (1,210 lb)

OPERATING WEIGHT

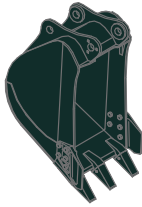
Operating weight	Steel track (450 mm)	8,350 kg (18,410 lb)
	Steel track (600 mm)	8,510 kg (18,760 lb)
	Rubber track (450 mm)	8,250 kg (18,190 lb)

- Mono boom with blade

Ground pressure	Steel track (450 mm)	0.39 kgf.m / cm ² (5.55 psi)
	Steel track (1,600 mm)	0.29 kgf.m / cm ² (4.12 psi)
	Rubber track (450mm)	0.38 kgf.m / cm ² (5.40 psi)

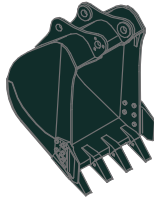
BUCKETS R80CR-9A

Capacity m ³ (yd ³)		Width mm (in)		Weight kg (lb)
SAE heaped	CECE heaped	Without side cutters	With side cutters	
0.14 (0.18)	0.13 (0.17)	390 (15.4")	470 (18.5")	185 (410)
0.28 (0.37)	0.25 (0.33)	730 (28.7")	810 (31.9")	230 (510)



SAE heaped

0.14 m³ (0.18 yd³)



0.28 m³ (0.37 yd³)

DIGGING FORCE (ISO) R80CR-9A

Arm	1.67 m	2.2 m
Bucket digging force	5,700 kgf	5,700 kgf
	55.9 kN	55.9 kN
	12,570 lbf	12,570 lbf
Arm crowd force	4,300 kgf	3,540 kgf
	42.2 kN	34.7 kN
	9,480 lbf	7,800 lbf

Lifting Capacities

R80CR-9A

Rating over-front Rating over-side or 360 degrees

Boom : 3.4 m (12'2") / Arm : 1.67 m (5'6") / Bucket : 0.28 m³ (0.37 yd³) SAE heaped / Dozer blade down

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 m (ft)
4.5 m (15 ft)	kg lb					*1550 *3420	1480 3260	*1470 *3240	1040 2290	5.74 (17.9)
3.0 m (10 ft)	kg lb					*1740 *3840	1430 3150	*1530 *3370	780 1720	6.23 (20.4)
1.5 m (5 ft)	kg lb			*4050 *8930	2510 5530	*2260 *4980	1320 2910	*1620 *3570	700 1540	6.45 (21.2)
Ground Line	kg lb			*4830 *10650	2320 5110	*2650 *5840	1230 2710	*1710 *3770	740 1630	6.20 (20.3)
-1.5 m (-5 ft)	kg lb	*4730 *10430	*4730 *10430	*4410 *9720	2320 5110	*2550 *5620	1210 2670	*1760 *3880	940 2070	5.38 (17.7)
-3.0 m (-10 ft)	kg lb			*2810 *6190	2430 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 Capacities

R80CR-9A

Rating over-front Rating over-side or 360 degrees

Boom : 3.4 m (12'2") / Arm : 1.67 m (5'6") / Bucket : 0.28 m³ (0.37 yd³) SAE heaped / Dozer blade up

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
										m (ft)
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 Line	kg			2570	2140	1330	1140	790	680	6.20
	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 : 3.4 m (12'2") / Arm : 2.20 m (7'3") / Bucket : 0.28 m³ (0.37 yd³) SAE heaped / Dozer blade down

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	
												m (ft)
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 Line	kg	*1900	*1900	*4600	2270	*2470	1190	*1730	730	*1460	590	6.80
	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)

Boom : 3.4 m (12'2") / Arm : 2.20 m (7'3") / Bucket : 0.28 m³ (0.37 yd³) SAE heaped / Dozer blade up

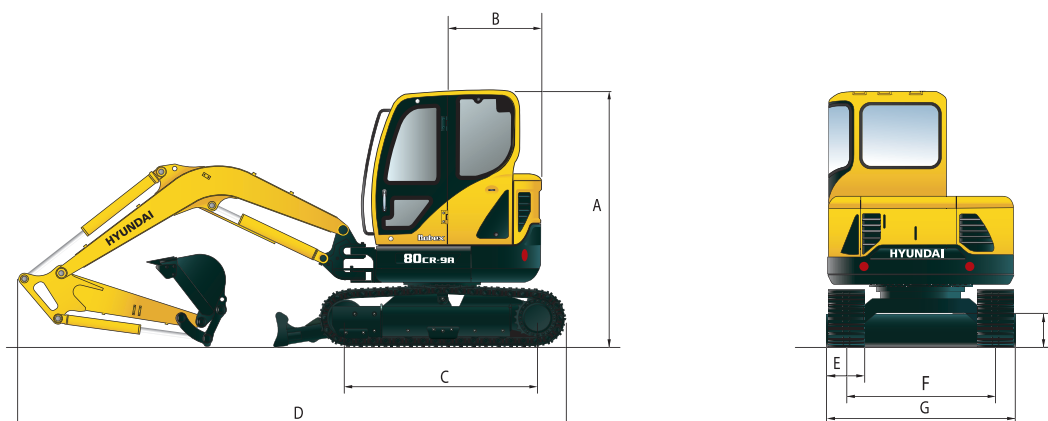
Load point height m (ft)		Load radius						At max. reach				
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity	Reach	
												m (ft)
4.5 m (15 ft)	kg					*1180	*1180			870	750	6.17
	lb					*2600	*2600			1920	1650	(20.2)
3.0 m (10 ft)	kg					*1410	1350	880	760	680	580	6.84
	lb					*3110	2980	1940	1680	1500	1280	(22.4)
1.5 m (5 ft)	kg			2850	2390	1420	1220	840	720	610	520	7.03
	lb			6280	5270	3130	2690	1850	1590	1340	1150	(23.1)
Ground Line	kg	*1900	*1900	2520	2090	1290	1100	790	670	640	540	6.80
	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			780	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)

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Dimensions & Working Ranges

DIMENSIONS R80CR-9A

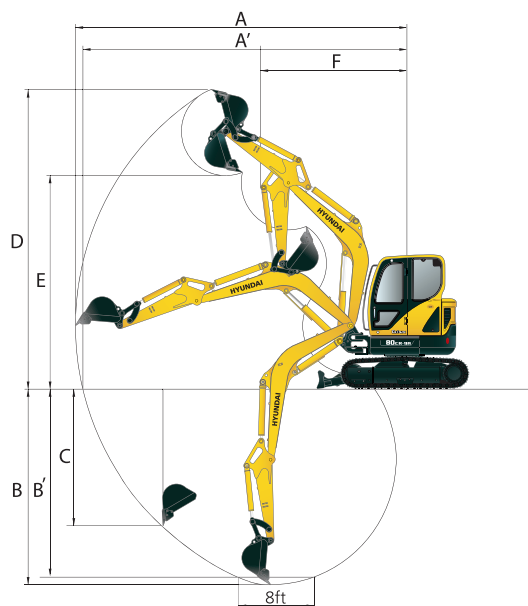
mm (ft · in)



mm (ft · in)

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

WORKING RANGE R80CR-9A



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' level)	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. front swing radius	2,500 (8' 2")	2,610 (8' 7")

STANDARD EQUIPMENT R80CR-9A

ISO standard cabin

Cabin ROPS (ISO 12117-2)
FOPS (ISO 3449)
FOG (ISO 10262 Level)

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

Storage compartment & Ashtray

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 cleaner clogging

Fuel pre-filter

Air conditioner & heater

Double acting piping (clamshell, etc) with proportional RCV Lever

Door and locks, one key fits all

Radio / USB Player with remote control

Outside rearview mirrors

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

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) for cold weather

OPTIONAL EQUIPMENT R80CR-9A

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

Beacon lamp

Single acting piping kit

Safety lock valve for arm cylinder

Track pad (450 mm; 1'6")

Accumulator, work equipment lowering

Electric transducer

Travel alarm

Quick coupler

Rubber track (450 mm; 1'6")

Rubber PAD (450 mm; 1'6")

Track shoes (600 mm; 1'12")

Long arm (2.2 m; 7'3")

Tool kit

Cabin rear work lamp

Lever pattern change valve (2 pattern)

Additional counterweight (400 kg; 880 lb)

- * 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

