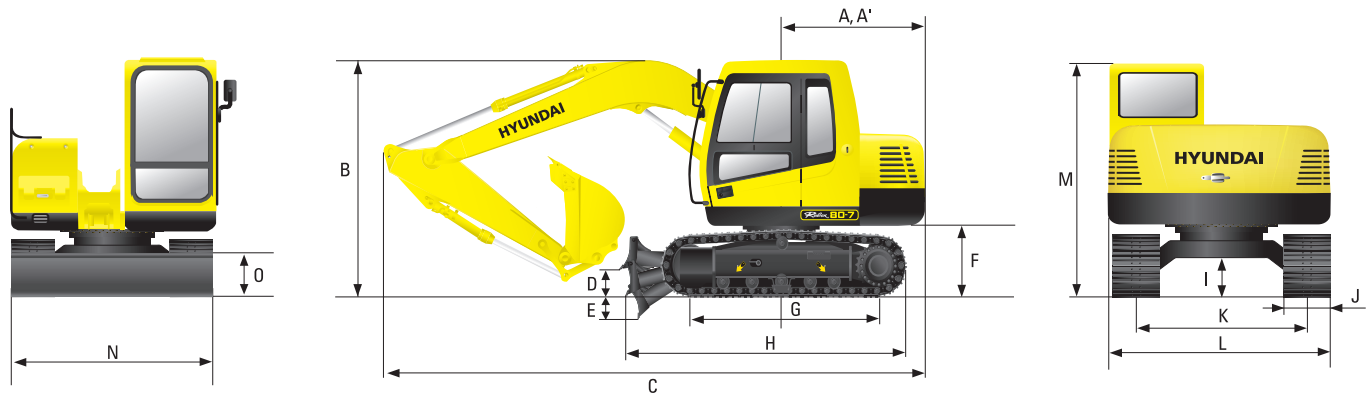


## Dimensions



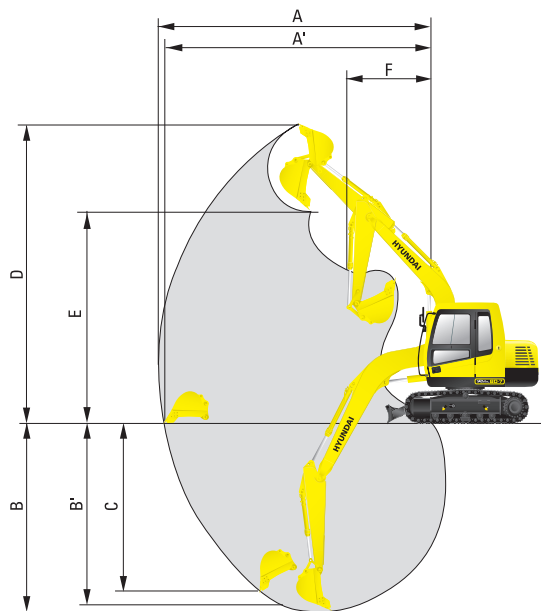
A	Tail swing radius	1,750 mm (5' 9")
A'	Rear-end length	1,727 mm (5' 8")
B	Overall height of boom	2,750 mm (9' 0")
C	Overall length	6,080 mm (19' 11")
D	Ground Clearance of blade up	400 mm (1' 4")
E	Depth of blade down	280 mm (0' 11")

F	Ground clearance of counterweight	760 mm (2' 6")
G	Tumbler distance	2,130 mm (6' 12")
H	Length of lower blade with dozer blade	3,340 mm (10' 11")
I	Min. ground clearance	360 mm (1' 2")
J	Track shoe width	450 mm (1' 6")
K	Track gauge	1,750 mm (5' 9")

L	Overall width of upperstructure	2,260 mm (7' 5")
M	Overall height of cabin	2,640 mm (8' 8")
N	Overall width	2,200 mm (7' 3")
O	Height of blade	460 mm (1' 6")

mm (ft-in)

## Working Range (with 2.21m long arm)



Boom length	3,700 mm (12' 2")	B'	Max. digging depth (8ft level)	4,410 mm (12' 6")
Arm length	2,210 mm (7' 3")	C	Max. vertical digging depth	3,960 mm (10' 6")
A	Max. digging reach	D	Max. digging height	7,680 mm (25' 2")
A'	Max. digging reach at ground	E	Max. dumping height	5,580 mm (18' 4")
B	Max. digging depth	F	Min. swing radius	2,110 mm (6' 11")

\* 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.

## Standard Equipment

### ISO standard cabin

- 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
- Hot & cool box
- Accessory box & Ashtray

### Heater & Defroster

### Self diagnostic system

### Starting aid (air grid heater), cold weather

### Centralized monitoring

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

### Door and cab locks, one key AM/FM radio and USB player

- Remote control switch

### Two outside rearview mirrors

### Fully adjustable suspension seat with seat belt

### Slidable joystick, pilot-operated

### Console box tilting system(LH.)

### Three front working lights

### Electric horn

### Batteries (2 x 12V x 68AH)

### Battery master switch

### Removable clean out screen for oil cooler

### Automatic swing brake

### Removable reservoir tank

### Water separator, fuel line

### Boom holding system

### Arm holding system

### Counterweight (540kg, 1190lb)

### Mono boom (3.7m, 12' 2")

### Arm (1.67m, 5' 6")

### Track shoes (450m, 18")

### Track rail guard

### Cabin roof-cover steel

## Optional Equipment

### Air-conditioner (5000 kcal/hr, 20000 BTU/hr)

### Fuel filler pump (35l/min, 9.3 US gpm)

### Beacon lamp

### Safety lock valve for boom cylinder

### Single acting piping kit (breaker, etc)

### Double acting piping kit (clamshell, etc)

### Accumulator, work equipment lowering

### Travel alarm

### Lever Pattern Change Valve

### 12 volt power outlet (24V DC to 12V DC converter)

### Lower frame under cover

### Tool kit

### Operator suit

### Adjustable air suspension seat

### Cabin roof-cover transparent

### Adjustable air suspension seat with heater

### Mechanical air suspension seat with heater

### Track shoes (600 mm, 24 ")

### Rubber track (450mm, 18")

PLEASE CONTACT

**HYUNDAI**  
CONSTRUCTION EQUIPMENT

Head Office (Sales office)

First tower, 55, Bundang-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea



MOVING YOU FURTHER

Some of the photos may include optional equipment.

*R60-7*

HYUNDAI MIDI EXCAVATOR  
Applied Tier 2 Engine

80-7

 **HYUNDAI**  
CONSTRUCTION EQUIPMENT

# Hyundai *Robex* 80-7

Maximized Workability

Comfortable Operating Environment

Improve Fuel Efficiency

Advanced Hydraulic System

Greater Ability For Precise And Fine Operations By Better Controllability

Enhanced Durability & Reliability



Some of the photos may include optional equipment.



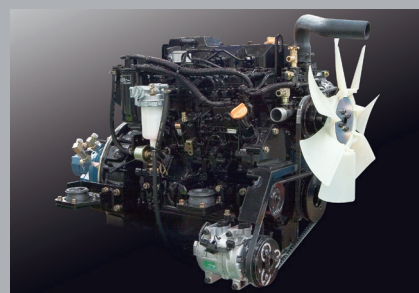
Powerful Low Emission Engine **Tier II**

## **YANMAR 4TNV98**

**60HP / 2,100rpm**

Yanmar 4TNV98 engine provides 25.2 kgf.m (247 lbf.ft) of maximum torque with 60 HP at 2,100 rpm of rated power.

This means the R80-7 runs with the most power in its class, giving you more power to get the job done.



# Technology in Cab Design

## Wide, Comfortable Operating Space

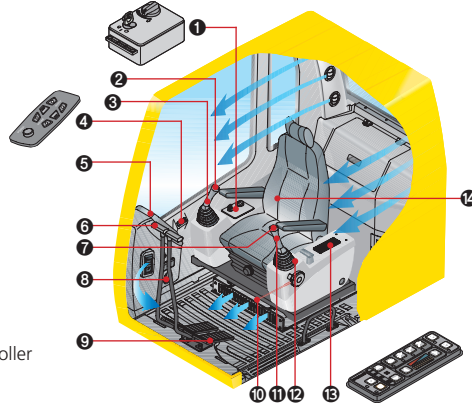
All the controls are designed and positioned according to the latest ergonomic research. Reinforced pillars have also been added for greater cab rigidity.



## Convenient and Comfortable Space

The best working conditions in a pleasant environment.

- ① Centralized control panel
- ② Horn button
- ③ Option button
- ④ Remote radio control
- ⑤ Travel lever
- ⑥ Cluster
- ⑦ One touch decel button
- ⑧ Hour meter
- ⑨ Travel pedal
- ⑩ Safety lever
- ⑪ Option button
- ⑫ Joystick control lever
- ⑬ Air conditioner and heater controller
- ⑭ Fully adjustable suspension seat



- 1 2 ① Wide, Comfortable Operating Space
- 3 ② Steel Cover Sunroof
- ③ Dial Type Engine Speed Switch and Key Switch



**Wide Cab with Excellent Visibility**  
The cab is roomy and ergonomically designed with low noise level and good visibility. A full view front window and large rear and side windows provide excellent visibility in all directions.



**Highly Sensitive Joystick and Easy Entrance**  
New joystick grips for precise control have been equipped with double switches. (Left: Power boost / One touch deceleration, Right: Horn/Optional)



**Storage box and Cup Holder**  
An additional storage box and cup holder are located behind operator's seat, and it keeps food and beverages cool or hot.

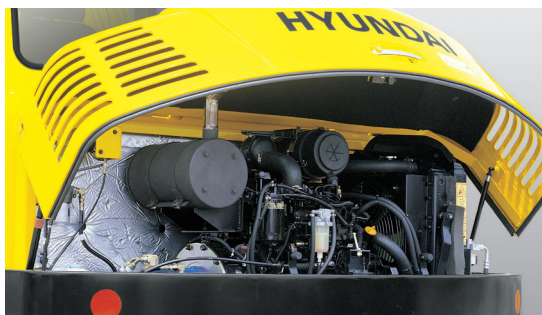


**Rear Emergency Exit Window**  
Rear Exit Window is designed with easy exit for operator's safety.

# Reliability & Serviceability



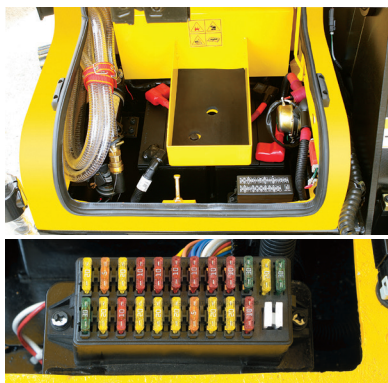
## Easy Maintenance and Serviceability



### Easy to Maintain Engine Components

The R80-7 was built with accessibility in mind. All doors, covers and hoods were built for complete open access. You'll find that the R80-7 offers plenty of space to complete your regular maintenance and service hassle-free.

### Centralized Tool Box & Fuse Box



### Battery Master Switch

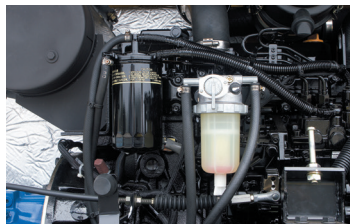


The battery master switch enables checking and maintaining the battery while minimizing the discharge of battery.

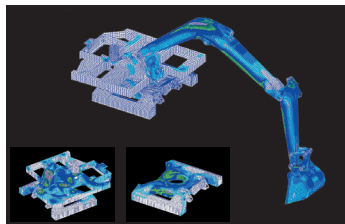


### Easy Change Air Cleaner

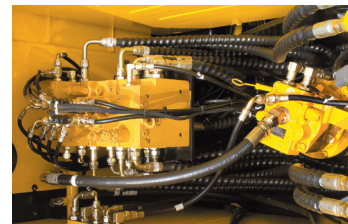
The R80-7 is fitted with durable plastic air cleaner for easy maintenance and quick service.



**High Capacity Water Separator & Fuel Filter**  
To protect the injection system, high capacity fuel filter and transparent water separator are applied.



**FEM (Finite Element Method)**  
Durability of structure is proven through FEM(Finite Element Method) analysis and long term durability test.



**Powerful and Precise Swing Control**  
Improved shock absorbing characteristics makes stopping a precise and smooth action.

# Specifications



## Engine

Model		Yanmar 4TNV98	
Type		Water cooled, 4 cycle Diesel 4 cylinders in line, direct injection, low emission	
Rated flywheel horse power	SAE	J1995(gross)	60 HP (44 kW) at 2100 rpm
		J1349(net)	58 HP (43 kW) at 2100 rpm
	DIN	6271/1(gross)	60.4 PS (44 kW) at 2100 rpm
		6271/1(net)	59 PS (43 kW) at 2100 rpm
Max. torque		25.2 kgf·m (247 lbf·ft) at 1000 rpm	
Bore x stroke		98 mm (3.86") x 110 mm (4.33")	
Displacement		3319 cc (202 cu in)	
Battery		2 x 12 V x 68 AH	
Starter motor		24 V-3.5 kW	
Alternator		24V-40 A	



## Hydraulic system

Main pump	
Type	Two Variable displacement piston pumps
Max. flow	2 x 75.6 lpm
Sub-pump for pilot circuit	Gear pump
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	280 kgf/cm <sup>2</sup> (3980 psi)
Travel circuit	300 kgf/cm <sup>2</sup> (4267 psi)
Swing circuit	210 kgf/cm <sup>2</sup> (2990 psi)
Pilot circuit	35 kgf/cm <sup>2</sup> ( 500 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinderbore x stroke	Boom : 1 - 115 x 980 mm (4.5" x 38.6")
	Arm : 1 - 95 x 860 mm (3.7" x 33.9")
	Bucket : 1 - 85 x 665 mm (3.3" x 26.2")
	Blade : 1 - 110 x 152 mm (4.3" x 6.0")



## Drives & Brakes

Drive method	Full hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	6,400 kgf (11,700 lbf)
Max. travel speed(high)/(low)	4.8 km/hr (2.5 mph) / 3.0 km/hr (1.4 mph)
Gradeability	35° (70%)
Parking brake	Multi-wet disc



## Swing system

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease - bathed
Swing brake	Multi wet disc
Swing speed	12.0 rpm



## Control

Pilot pressure-operated joysticks and pedal with detachable lever provide almost effortless and fatigueless 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	Mechanical, cable type
External lights	Two lights mounted on the boom one below the cab



## Coolant & Lubricant capacity

(Refilling)	liter	US gal	UK gal
Fuel tank	250	66.0	55.0
Engine coolant	24	6.3	5.3
Engine oil	17.5	4.6	3.8
Swing device	2.5	0.7	0.5
Final drive(each)	2.5	0.7	0.5
Hydraulic system(including tank)	180	47.6	39.6
Hydraulic tank	100	26.4	22.0



## 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 shoes on each side	38
No. of carrier roller on each side	1
No. of track roller on each side	5



## Operating weight (approximate)

Operating weight, including 3,700 mm (12' 2") boom, 1,670 mm (5' 6") arm, SAE heaped 0.28 m<sup>3</sup> (0.37 yd<sup>3</sup>) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Major component weight	
Upper structure	3,300kg (7,280lb)
Counterweight	1,450kg (3,200lb)
Mono boom(with arm cylinder)	950kg (2,090lb)

## Operating weight

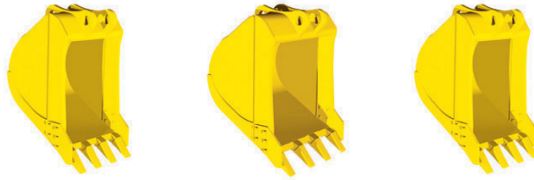
Shoes (Triple grouser) mm (in)	Operating weight kg(lb)	Ground pressure kgf/cm <sup>2</sup> (psi)
※ 450 (18")	7,800 (17,200)	0.33(4.69)
600 (24")	7,960 (17,550)	0.28(3.98)

※ Standard equipment

## Buckets

Capacity		Width		Weight	3.70m (12' 2") Boom
SAE heaped	CECE heaped	Without side cutters	With side cutters		1.67m (5'6") arm
※ 0.28m <sup>3</sup> (0.37 yd <sup>3</sup> )	0.25m <sup>3</sup> (0.33 yd <sup>3</sup> )	665mm (26.2")	760mm (29.9")	230kg (510 lb)	■
0.31m <sup>3</sup> (0.41 yd <sup>3</sup> )	0.27m <sup>3</sup> (0.35 yd <sup>3</sup> )	720mm (28.3")	815mm (32.1")	245kg (540 lb)	■
0.15m <sup>3</sup> (0.19 yd <sup>3</sup> )	0.13m <sup>3</sup> (0.17 yd <sup>3</sup> )	390mm (15.4")	460mm (18.1")	190kg (420 lb)	■

※ Standard backhoe bucket ■ Applicable for materials with density 1600 kg/m<sup>3</sup> (2,700 lb/yd<sup>3</sup>) or less



SAE heaped

※ 0.28 m<sup>3</sup>  
(0.37 yd<sup>3</sup>)

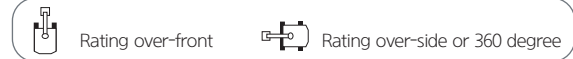
0.31 m<sup>3</sup>  
(0.41 yd<sup>3</sup>)

0.15 m<sup>3</sup>  
(0.19 yd<sup>3</sup>)

Weight	Length	※ 1,670 mm (5' 6")
	Weight	310 kg (680 lb)
Bucket digging force	SAE	44.1 kN 4500 kgf 9920 lbf
	ISO	51.0 kN 5200 kgf 11460 lbf
Arm crowd force	SAE	38.2 kN 3900 kgf 8600 lbf
	ISO	39.2 kN 4000 kgf 8820 lbf

※ Standard Arm (Arm weight including cylinder and linkage)

## Lifting capacities R80-7



• Boom : 3.7m(12'2") • Arm : 1.67m(5' 6") • Bucket : 0.28 m<sup>3</sup> (0.37 yd<sup>3</sup>) SAE heaped • Shoe : 450mm(18") triple grouser the dozer blade up

Load Point height m(ft)	Load radius						At max. reach			
	1.5m (5.0ft)		3.0m (10.0ft)		4.5m (15.0ft)		Capacity		Reach	
									m (ft)	
5.0m (15ft)	kg		*1810	*1810			1160	1050	5.06 (16.6)	
	lb		*3990	*3990			2560	2310		
4.0m (15ft)	kg	*3900	*3900	*2380	*2380	1390	1250	880	790	5.75 (18.9)
	lb	*8600	*8600	*5250	*5250	3060	2760	1940	1740	
3.0m (10ft)	kg		2540	2230	1290	1160	790	710	5.95 (19.5)	
	lb		5600	4920	2840	2560	1740	1570		
Ground Line	kg		2340	2040	1210	1080	820	740	5.70 (18.7)	
	lb		5160	4500	2670	2380	1810	1630		
2.0m (5ft)	kg	*4800	*4800	2300	2000	1190	1060	1050	950	4.93 (16.2)
	lb	*10580	*10580	5070	4410	2620	2340	2310	2090	
1.0m (5ft)	kg	*3960	*3960	*2340	2100					
	lb	*8730	*8730	*5160	4630					

• Boom : 3.7m(12'2") • Arm : 1.67m(5' 6") • Bucket : 0.28 m<sup>3</sup> (0.37 yd<sup>3</sup>) SAE heaped • Shoe : 450mm(18") triple grouser the dozer blade down

Load Point height m(ft)	Load radius						At max. reach			
	1.5m (5.0ft)		3.0m (10.0ft)		4.5m (15.0ft)		Capacity		Reach	
									m (ft)	
4.5m (15ft)	kg		*1810	*1810			*1690	1120	5.06 (16.6)	
	lb		*3990	*3990			*3730	2470		
3.0m (10ft)	kg	*3900	*3900	*2380	*2380	*1930	1330	*1710	850	5.75 (18.9)
	lb	*8600	*8600	*5250	*5250	*4250	2930	*3770	1870	
1.5m (5ft)	kg		*3330	2400	*2230	1240	*1760	760	5.95 (19.5)	
	lb		*7340	5290	*4920	2730	*3880	1680		
Ground Line	kg		*3800	2200	*2420	1160	*1810	790	5.70 (18.7)	
	lb		*8380	4850	*5340	2560	*3990	1740		
-1.5m (5ft)	kg	*4800	*4800	*3560	2160	*2220	1140	*1790	1010	4.93 (16.2)
	lb	*10580	*10580	*7850	4760	*4890	2510	*3950	2230	
-3.0m (10ft)	kg	*3960	*3960	*2340	2260					
	lb	*8730	*8730	*5160	4980					

NOTES 1. Lifting capacity is based on ISO 10567.

2. Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The load point is a hook (standard equipment) located on the back of the bucket.

4. (\*) indicates load limited by hydraulic capacity.