



■ Photo may include optional equipment

We build a better future



MINI WHEELED EXCAVATOR Applied Tier 3 Engine

55W-7A



Robex 55W-7A

Hyundai Robex 55W-7A

Maximum Workability

Comfortable Operating Environment

Advanced Hydraulic System

Enhanced Durability & Reliability

Improved Fuel Efficiency

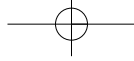
Highest Engine Power in its Class

YANMAR 4TNV98-EPHYB

42.5 kW (57 HP) / 2,400 rpm

With a rated power of 57 HP at 2,400rpm the Yanmar 4TNV98-EPHYB engine provides 205 Nm (148 lbf.ft) of maximum torque. The R55W-7A, with the highest power in its class, gives you more power to get the job done.





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Robex 55W-7A

Technology in Cab Design

Wide Comfortable Operating Space

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



Reliable Instrument Panel

All information such as engine RPM, engine water temp., fuel status and the state of all electric switches are displayed on the instrument panel to provide the operator with the exact condition of the machine. This makes troubleshooting much easier.

M M MODE : High power

Comfortable Operating Space



Radio & CD Player

Deluxe radio & CD player is located at a convenient position.



Dial Type Engine Speed Switch and Key Switch



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Wide Cab with Excellent Visibility

The cab is spacious and ergonomically designed with low noise level and good visibility.

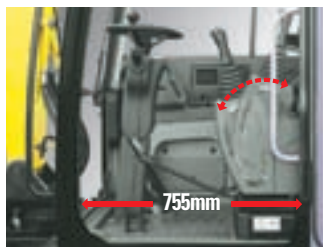
A full view front window, large rear and side windows provide excellent visibility in all directions.



High-output Air Conditioner & Heater

Large capacity air conditioning system is installed for operator's comfort in all climates.

For more convenience, the cab is equipped with a window-defroster for cold seasons.



Sensitive Joysticks and Easy Entrance

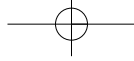
New joystick grips for precise control have been equipped with 4 switches. Tilting tower combined with large door provides more space to enter the cabin.

- Left Horn / Dummy
- Right Breaker / Dummy



Adjustable Steering Column

Steering column is adjustable to obtain optimal position for various operators' body sizes.



Sliding Side Window

Sliding window enables operator to communicate outside and air to circulate without opening main door.



Big Size Sun Visor & Roof Glass

Glass on top front corner is large enough to give better visibility while sun visor protects operator from exposing to direct sunlight.

Roof Glass : Bronze color laminated glass



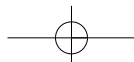
Rise-up Wiper

Rise-up wiper gives better front view to operator during rainy weather conditions.



Easy to Open Front Window

Sliding fold-in front window is easily opened and safely maintained in open position to improve working conditions.



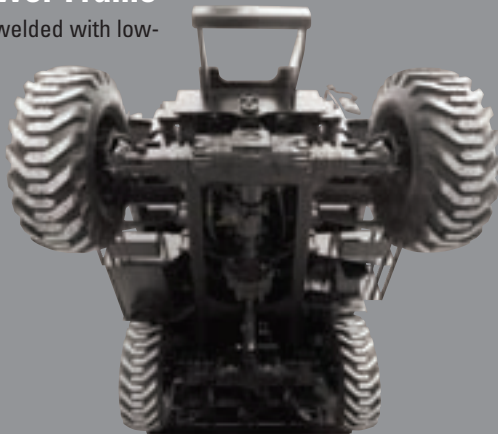
Robex 55W-7A

**Improved technology
and modified look.**



Strong and Stable Lower Frame

Reinforced box-section frame is welded with low-stress and high-strength steel.





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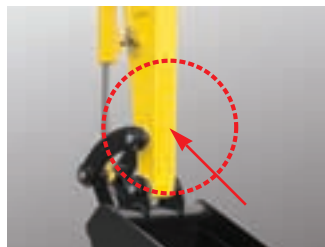
Robex 55W-7A



Exceptional Traction & Lifting Capacity
Considerable traction and lifting force enables fast work.



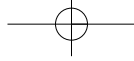
Reinforced Bucket
Higher bucket link durability and anti-wear characteristics with additional reinforcement plates on cutting edge section. The bucket is reinforced with thicker steel and additional lateral plate.



Reinforced Arm
To protect the arm from impacts and wear, reinforcements are welded at the inner side of the arm.



Grade-ability
Grade-ability of 35 degrees (70%) and long tumbler distance make it easier to work on a slope.



Powerful and Dynamic



■ Photo may include optional equipment



Anti-Restart System

During operation the anti-restart system prevents activation of the starter.



Easy-to-Reach Control Levers

Switches and other controls are located near the operator. This reduces operator movements and enhances control with less operator fatigue.



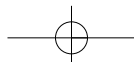
Installation for Breaker Operation

Overload relief valve and pipes are installed standard for customer's convenience.



Offset Boom Swing

The R55W-7A is designed for efficient work in congested residential and urban areas. The boom can be offset within a range of 130 degrees.



Robex 55W-7A

Performance and Durability



■ Photo may include optional equipment



Assembly of Bucket and Dozer Blade

Boom-arm-bucket kinematics is designed to minimize dead space between bucket and blade during efficient grading work.



Powerful Dozer Blade

Large size dozer blade improves work efficiency, equipment durability and stability.



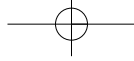
FEM (Finite Element Method)

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



Better Ground Clearance

Better ground clearance increases safety on rough ground.



Rectangular Tube Cabin

Certified cabin for ROPS, FOPS and TOPS increases safety of operator in case external force is exerted on cabin.



Boom Cylinder Cover

Boom cylinder cover is installed standard to prevent cylinder damage.



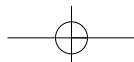
Applied Side Protector

In case of close turning, the side protector prevents any damage to engine hood.



Large Capacity Radiator

To improve performances for a heavy duty job, a large capacity radiator is installed.



Robex 55W-7A



Easy Change of Air Cleaner

The R55W-7A is fitted with durable plastic air cleaner for easy maintenance and quick service.



Fuel Filler Pump (Option)

Electric fuel filler pump to facilitate fuel filling of the machine.



High Capacity Water Separator & Fuel Filter

To protect the injection system and minimize the risk of fuel breakdown, high capacity fuel filter and transparent water separator are applied for durability.



Centralized Grease Fittings

Grease fittings are centralized for easy access during service checks, saving time and money.

Reliability and Serviceability

Full open doors and master key system give easy access for maintenance.



Easy to Maintain Engine Components

The R55W-7A is designed with accessibility in mind. All doors, covers and hoods are built for complete open access. You'll find that the R55W-7A offers plenty of space to complete your regular maintenance and service hassle-free.



Long Life Hydraulic Filter

High-performance filtering materials are applied for longer filter replacement intervals.

■ Photo may include optional equipment



Centralized Fuse Box

Fuse box is arranged on the rear of seat for easy service.



Large Capacity Fuel Tank

The large capacity fuel tank provides longer working time.



Battery Master Switch

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



Smooth and precise swing control

Shock absorbing design is improved to stop and start swing precisely and smoothly.

Specifications



Engine

Model		YANMAR 4TNV98-EPHYB
Type	Water cooled, 4 cycle diesel 4 cylinders in line, direct injection, low emission	
Rated flywheel horse power		
SAE	J1995 (gross)	42.5 kW (57 HP) at 2,400 rpm
	J1349 (net)	41.2 kW (55.2 HP) at 2,400 rpm
DIN	6271/1 (gross)	42.5 kW (57.8 PS) at 2,400 rpm
	6271/1 (net)	41.2 kW (56 PS) at 2,400 rpm
Max. torque	205 Nm (148 lbf.ft) at 1,550 rpm	
Bore x stroke	98 mm (3.86") x 110 mm (4.33")	
Displacement	3,319 cc (203 cu in)	
Battery	1 x 12 V x 100 AH	
Starter motor	12 V - 3.0 kW	
Alternator	12 V - 80 Amp	



Hydraulic System

Main pump		
Type	Two variable displacement piston pumps	
Rated flow	2 x 55 l/min (12.1 gpm) pumps	
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	21.58 MPa (3,130 psi)	
Travel circuit	21.58 MPa (3,130 psi)	
Swing circuit	19.58 MPa (2,840 psi)	
Pilot circuit	2.96 MPa (430 psi)	
Service valve	Installed	
Hydraulic cylinders		
No. of cylinder-bore x rod x stroke	Boom :	1 - 110 x 65 x 715 mm (4.3" x 2.6" x 28.1")
	Arm :	1 - 90 x 55 x 850 mm (3.5" x 2.2" x 33.5")
	Bucket :	1 - 80 x 50 x 660 mm (3.1" x 2.0" x 26.0")
	Boom swing :	1 - 95 x 50 x 527 mm (3.7" x 2.0" x 20.7")
	Dozer blade :	1 - 100 x 50 x 159 mm (4.3" x 2.0" x 7.5")



Drives & Brakes

4-wheel hydrostatic drive, mesh, helical gear transmission provides 2 forward and reverse travel speeds.

Max. travel speed	27 km/h
Grade-ability	35° (70%)



Swing System

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing circuit lubrication	Grease
Swing brake	Multi wet disc
Swing speed	9.3 rpm



Controls

Pilot pressure-operated joysticks and pedals provide almost effortless operation.

Pilot control	Two joysticks with one safety lever (LH): Boom Swing and arm, (RH): Boom and bucket (ISO)
Traveling and steering	Pedal and steering wheel/bucket (ISO)
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	120.0	31.7	26.4
Engine coolant	10.0	2.6	2.2
Engine oil	11.6	3.1	2.6
Swing device-gear oil	1.5	0.4	0.3
Hydraulic tank	70.0	18.5	15.4
Axle (Front / Rear)	5.3 / 5.3	1.4 / 1.4	1.2 / 1.2



Axles & Wheels

Full floating front axle is supported by center pin for oscillation. It can be locked by oscillation lock cylinders. Rear axle is fixed on the lower chassis.

Tires	12.0 x 16.5-12PR, single
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Dozer Blade

Pin-on type dozer blade is standard. Dozer blade is a very useful addition for leveling, back filling or clean-up work.

Dozer blade	Width x Height	1,925 x 354 mm (6' 4" x 14")
	Max. lifting above ground level	400 mm (15.7")
	Max. depth below ground level	90 mm (3.5")



Operating Weight (approximate)

Operating weight, including 3,000 mm (9' 10") boom, 1,600 mm (5'3") arm, SAE heaped 0.18 m³ (0.24 yd³) digging bucket, lubricant, coolant, full fuel tank, hydraulic tank and standard equipment.

Major component weight	
Upper structure	2,650 kg (5,840 lb)
Counterweight	200 kg (440 lb)
Mono boom (with arm cylinder)	310 kg (680 lb)

Operating Weight	
Operating Weight	5,450 kg (12,020 lb)

• Mono boom with blade



Buckets

Capacity		Width		Weight	3.0 m (9' 10") Boom	
SAE heaped	CECE heaped	Without side cutters	With side cutters		1.6 m (5' 3") arm	1.9 m (6' 3") arm
0.07 m ³ (0.09 yd ³)	0.06 m ³ (0.08 yd ³)	315 mm (12.4")	360 mm (14.2")	84 kg (185 lb)	■	■
* 0.18 m ³ (0.24 yd ³)	0.15 m ³ (0.20 yd ³)	705 mm (27.8")	770 mm (30.3")	137 kg (300 lb)	■	▲

* : Standard digging bucket

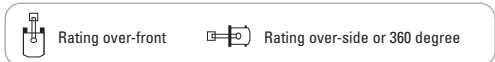
■ : Applicable for materials with density 1,600 kg/m³ (2,700 lb/yd³) or less

▲ : Applicable for materials with density 1,100 kg/m³ (1,850 lb/yd³) or less

Arm	Length	* 1,600 mm (5' 3")	1,900 mm (6' 3")
	Weight	195 kg (430 lb)	210 kg (460 lb)
Bucket digging force	SAE	37.7 kN	37.7 kN
		3,850 kgf	3,850 kgf
	ISO	8,490 lbf	8,490 lbf
		42.4 kN	42.4 kN
Arm crowd force	SAE	4,330 kgf	4,330 kgf
		9,550 lbf	9,550 lbf
	ISO	28.4 kN	25.5 kN
		2,900 kgf	2,600 kgf
SAE	6,390 lbf	5,730 lbf	
	31.9 kN	28.7 kN	
ISO	3,260 kgf	2,930 kgf	
	7,190 lbf	6,460 lbf	



Lifting Capacities R55W-7A



• Boom : 3.0 m (9' 10") • Arm : 1.6 m (5' 3") • Bucket : 0.18 m³ (0.24 yd³) SAE heaped • Dozer blade down with 200 kg (440 lb) counterweight.

Load point height m (ft)		Load radius						At max. reach				
		2.0 m (5 ft)		3.0 m (10 ft)		4.0 m (13.12 ft)		5.0 m (16.40 ft)		Capacity	Reach m (ft)	
5.0 m (16.40 ft)	kg lb								*960 *2120	*960 *2120	4.46 (14.6)	
4.0 m (13.12 ft)	kg lb					*1020 *2250	*1020 *2250		*990 *2180	720 1590	5.26 (17.3)	
3.0 m (10 ft)	kg lb					*1150 *2540	1110 2450		*1030 *2270	610 1340	5.69 (18.7)	
2.0 m (5 ft)	kg lb			*1910 *4210	1670 3680	*1410 *3110	1060 2340	*1210 *2670	740 1630	*1070 *2360	570 1260	5.86 (19.2)
1.0 m (5 ft)	kg lb			*2510 *5530	1570 3460	*1670 *3680	1010 2230	*1320 *2910	720 1590	*1120 *2470	570 1260	5.80 (19.0)
Ground Line	kg lb	*2680 *5910	*2680 *5910	*2730 *6020	1510 3330	*1820 *4010	980 2160		*1160 *2560	610 1340	5.51 (18.1)	
-1.0 m (-5 ft)	kg lb	*4040 *8910	3020 6660	*2620 *5780	1510 3330	*1770 *3900	970 2140		*1190 *2620	740 1630	4.91 (16.1)	
-2.0 m (-5 ft)	kg lb	*3410 *7520	3080 6790	*2100 *4630	1540 3400							

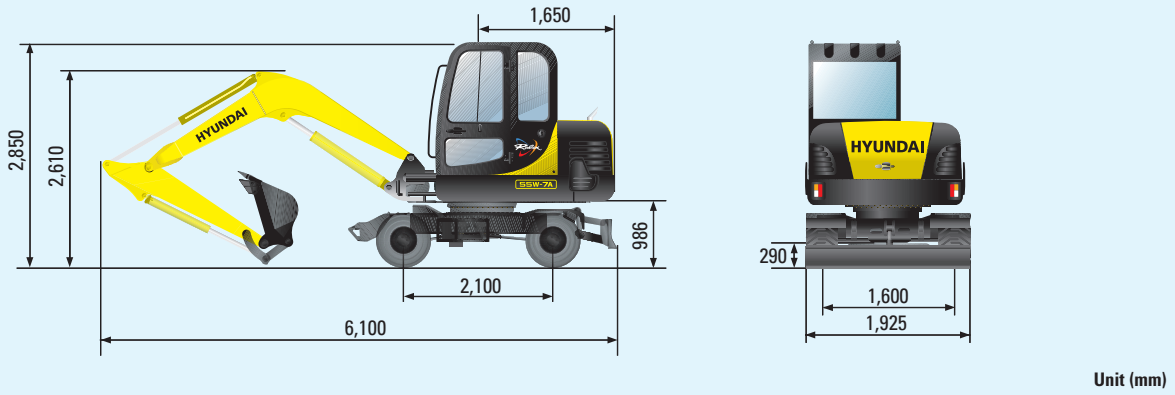
• Boom : 3.0 m (9' 10") • Arm : 1.9 m (6' 3") • Bucket : 0.18 m³ (0.24 yd³) SAE heaped • Dozer blade down with 200 kg (440 lb) counterweight.

Load point height m (ft)		Load radius						At max. reach				
		2.0 m (5 ft)		3.0 m (10 ft)		4.0 m (13.12 ft)		5.0 m (16.40 ft)		Capacity	Reach m (ft)	
5.0 m (16.40 ft)	kg lb					*940 *2070	*940 *2070		*880 *1940	840 1850	4.86 (15.9)	
4.0 m (13.12 ft)	kg lb								*910 *2010	650 1430	5.58 (18.3)	
3.0 m (10 ft)	kg lb					*1010 *2230	*1010 *2230	*1010 *2230	*950 *2090	560 1230	5.98 (19.6)	
2.0 m (5 ft)	kg lb	*3010 *6640	*3010 *6640	*1660 *3660	*1660 *3660	*1290 *2840	1070 2360	*1130 *2490	740 1630	*990 *2180	520 1150	6.14 (20.1)
1.0 m (5 ft)	kg lb	*1980 *4370	*1980 *4370	*2340 *5160	1580 3480	*1580 *3480	1020 2250	*1260 *2780	710 1570	*1040 *2290	520 1150	6.09 (20.0)
Ground Line	kg lb	*2560 *5640	*2560 *5640	*2680 *5910	1510 3330	*1780 *3920	980 2160	*1340 *2950	690 1520	*1080 *2380	560 1230	5.81 (19.1)
-1.0 m (-5 ft)	kg lb	*3610 *7960	2980 6570	*2670 *5890	1490 3280	*1800 *3970	960 2120		*1120 *2470	650 1430	5.27 (17.3)	
-2.0 m (-5 ft)	kg lb	*3850 *8490	3030 6680	*2300 *5070	1510 3330	*1500 *3310	970 2140		*1100 *2430	910 2010	4.31 (14.1)	
-3.0 m (-10 ft)	kg lb	*2080 *4590	*2080 *4590									

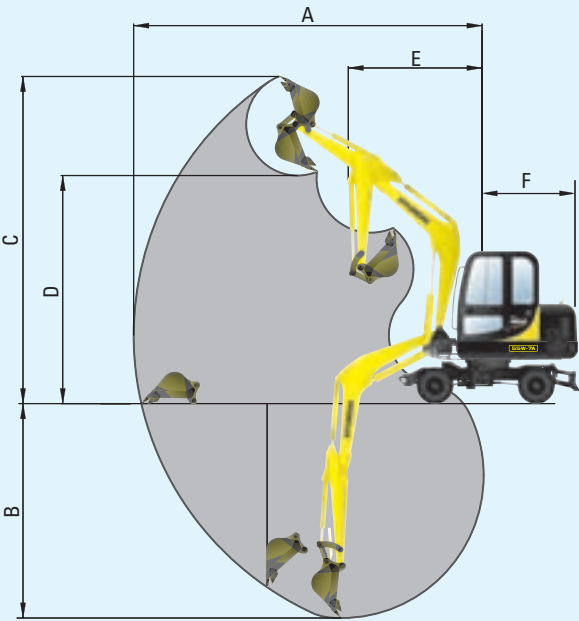
NOTES

- Lifting capacity is based on SAE J1097, ISO 10567.
- 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.
- The load point is a hook (standard equipment) located on the back of the bucket.
- (*) indicates load limited by hydraulic capacity.

Dimensions



Working Ranges



Boom length	3,000 mm (9' 10")	
Arm length	※ 1,600 mm (5' 3")	1,900 mm (6' 3")
A. Max. digging reach	6,150 mm (20' 2")	6,430 mm (21' 1")
B. Max. digging depth	3,500 mm (11' 6")	3,800 mm (12' 6")
C. Max. digging height	6,070 mm (19' 11")	6,260 mm (20' 6")
D. Max. dumping height	4,340 mm (14' 3")	4,530 mm (14' 10")
E. Min. swing radius	2,350 mm (7' 9")	2,350 mm (7' 9")
F. Tail swing radius	1,650 mm (5' 5")	1,650 mm (5' 5")

Standard Equipment

- ISO standard cabin**
 - Cabin ROPS (ISO 3471)
 - FOPS (ISO 3449)
 - 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
- Auto warm up system**
- Auto overheat prevention system**
- Air-conditioner (4,000 kcal/hr, 16,000 BTU/hr)**
- Heater & Defroster**
- Self diagnostic system**
- Centralized monitoring**
 - Service meter
 - Clock
 - Gauges
 - Fuel level gauge
 - Engine coolant temperature gauge
 - Engine speed
 - Warning
 - Overheat warning
 - Fuel low level warning
 - Engine oil pressure warning
 - Prefilter
- Hyd. oil temperature warning
- Battery warning
- Air cleaner clogging
- Indicate
 - Warming up
 - Preheat
 - Travel speed low
 - Travel speed high
- Door and cab locks, one key**
- AM/FM radio and CD**
- Two outside rear view 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**
- Removable clean out screen for radiator**
- Automatic swing brake**
- Removable reservoir tank**
- Water separator, fuel line**
- Counterweight (210 kg, 460 lb)**
- Mono boom (3.0 m, 9' 10")**
- Arm (1.6 m, 5' 3")**
- Tires (12.0 x 16.5 - 12PR)**
- Blade (1,925 x 354 mm, 6' 4" x 14")**
- Starting Aid (air grid heater), cold weather**

Optional Equipment

- Fuel filler pump (35 l/min, 7.7 gpm)**
- Beacon lamp**
- Single acting piping kit (breaker, etc)**
- Double acting piping kit (clamshell, etc)**
- Accumulator, work equipment lowering**
- 12volt power supply (DC-DC converter)**
- Quick coupler**
- Long arm (1.9 m, 6' 3")**
- Narrow bucket (0.07 m³, 0.09 yd³)**
- Mechanical suspension with heater**

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine shown may vary according to International standards. All US measurement are rounded off to nearest value. Materials and specifications are subject to change without notice.



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