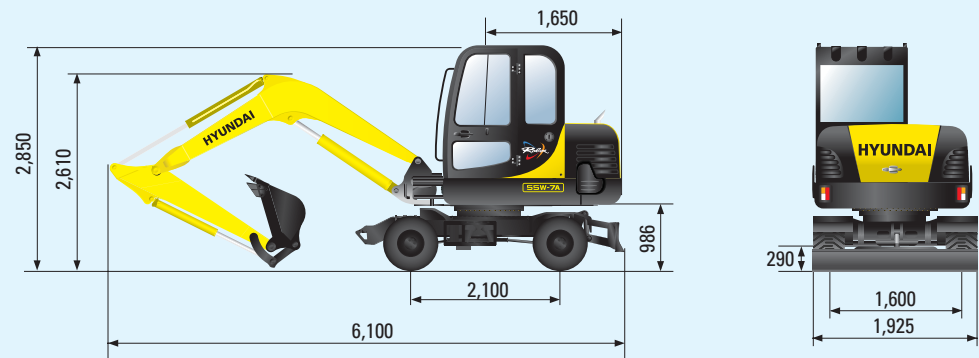
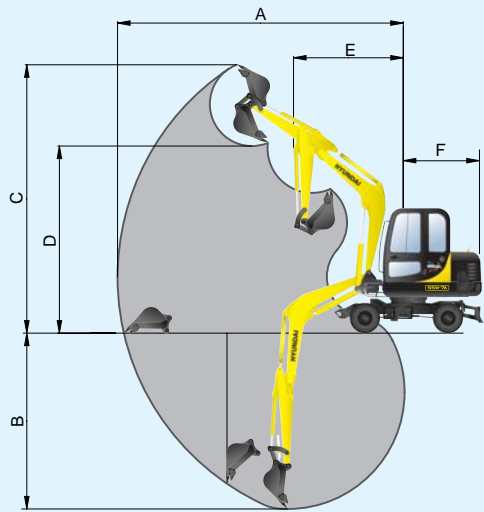


Dimensions



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**
- 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 charging warning
- Air cleaner clogging
- Indicate
  - Warming up
  - Preheat
  - Travel speed low
  - Travel speed high
- Door and cab locks, one key**
- AM/FM radio and cassette**
- 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 (1925 x 354mm, 6' 4" x 14")**
- Starting Aid(air grid heater), cold weather**

Optional Equipment

- Air-conditioner(4000 kcal/hr, 16000BTU/hr)
- Fuel filler pump(35 l /min, 9.2 US 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)
- Electric transducer
- Quick coupler
- Long arm (1.9m, 6' 3")
- Narrow bucket(0.07m3, 0.09yd3)
- Tool kit
- Operator suit
- 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 pound or inch.

**HYUNDAI**  
HEAVY INDUSTRIES CO.,LTD.  
CONSTRUCTION EQUIPMENT

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2008. 03 Rev 0.



Some of the Photo may include optional equipment.

**MINI WHEELED EXCAVATOR** Applied Tier 3 Engine

**55W-7A**

**HYUNDAI**  
HEAVY INDUSTRIES CO.,LTD.

We build a better future



# Hyundai Robex 55W-7A

- Maximized Workability
- Comfortable Operating Environment
- Advanced Hydraulic System
- Enhanced Durability & Reliability
- Improved Fuel Efficiency



The Highest Engine Power in its Class  
**YANMAR 4TNV98-EPHYB**

**57 HP / 2,400 rpm**

Yanmar 4TNV98-EPHYB engine provides 20.5 kgf.m (148 lbf.ft) of maximum torque with 57 HP at 2,400rpm of rated power. This means the R55W-7A runs with the most power in its class, giving you more power to get the job done.



■ Some of the Photo may include optional equipment



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.



Reliable Instrument Panel

All information from the devices such as engine RPM, engine water temp., fuel status and the state of all types of electric switches provide the operator with an exact condition of machine.

These features make troubleshooting much easier.

**M M MODE** : High power

Reliable Instrument Panel

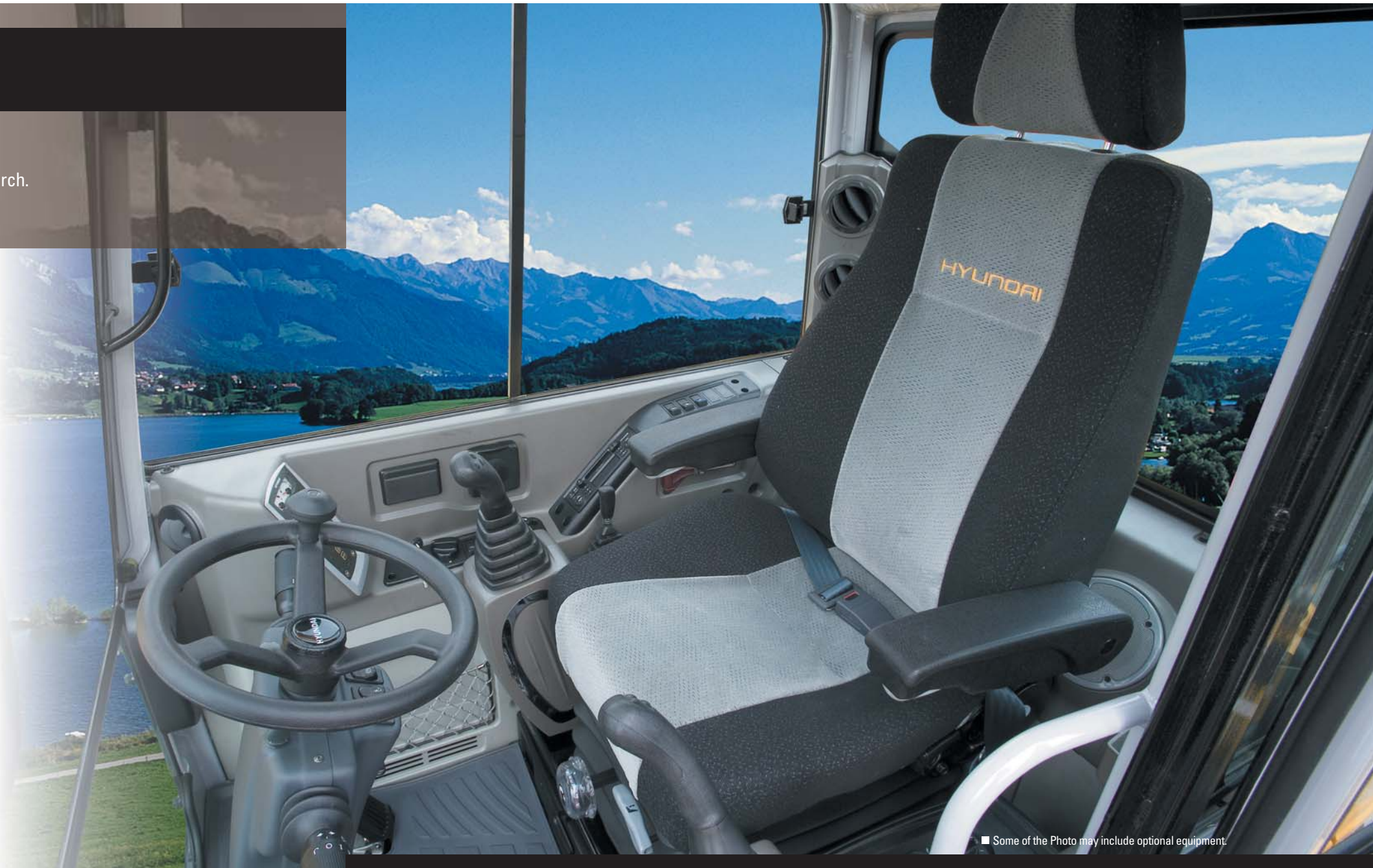


Radio & Cassette Player

Deluxe radio & cassette player are located at convenient position.



Dial Type Engine Speed Switch and Key Switch



■ Some of the Photo may include optional equipment.



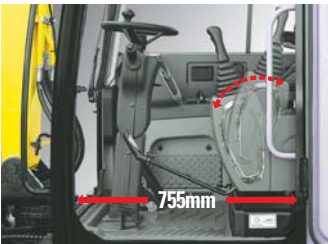
Wide Cab with Excellent Visibility

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.



High-output Air Conditioner & Heater

Large capacity air conditioning system is installed for operator's comfort in all climate. For more convenience, the cab is equipped with defroster for the cold seasons.



Sensitive Joystick and Easy Entrance

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

Left	Horn/Dummy
Right	Breaker/Dummy



Adjustable Steering Column

Steering column is adjustable to obtain optimal position for various operator's body sizes and operating ways.



Sliding Side Window

The sliding side window provides more convenience for the operator without having to opening the door.



Big Sized Sun Visor & Top Glass

The big sun visor and top glass are installed on the top of the front window to block direct sunlight and increase operator's visibility.

Top Glass : Bronze color and laminated glass



Rise-up Wiper

Rise-up wiper gives better front view to operator.



Easy to Open Front Window

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

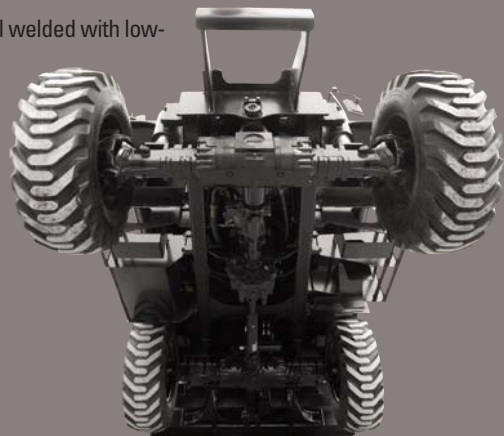


Unparalleled Technology of R55W-7A.  
It will fulfill your dreams



**Strong and Stable Lower Frame**

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



■ Some of the Photo may include optional equipment.



Powerful and Dynamic Work



Some of the Photo may include optional equipment



Exceptional Traction &Lifting Capacity

The considerable traction and lifting capacity enable all work to be done quickly.



Reinforced Bucket

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



Reinforced Arm

Reinforcements are welded to protect the arm from impacts and wear.



Gradeability

35 degree(70%) of high gradeability and long tumbler distance may be easier to work at slope area.



Anti Restart System

The new system protects the starter from re-starting during engine operation, even if the operator accidentally turns the start key again.



Easy-to-Reach Control Panels

Switches and other essential controls are located near the operator. This helps keep operator move-ment to a minimum, enhancing control with less operator fatigue.



Installation for Breaker Operation

Overload relief value and pipes are installed as 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.



Performance and Durability



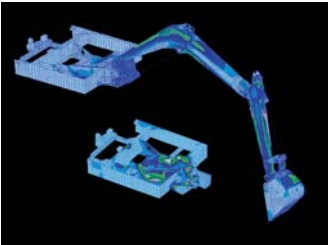
Arrangement Between Bucket and Blade

Attachment is designed to minimize dead space between bucket and blade for efficient grading work.



Powerful Dozer Blade

Large size blade improves work efficiency and equipment durability.



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.



Steel Tube Frame Cabin

Strong cabin structure protects the operator against falling objects, improves operator's safety with seat-belt in the event of roll-over. (ROPS, FOPS, TOPS STD.)



Boom Cylinder Cover

Boom cylinder cover is installed as standard to prevent cylinder damage.



Applied Side Protector

When the machine turns, the side protector prevents any damage to engine hood.



Large Capacity Radiator

To improve the performance in overload or continual work, large capacity radiator was installed.



# Reliability and Serviceability

Full open doors and master key system provide easy access for servicing.



## 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

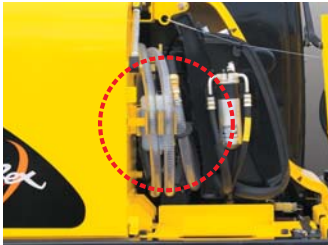
Uses high-performance filtering materials are applied for extending the filter replacement interval.

■ Some of the Photo may include optional equipment.



## Easy Change of Air Cleaner

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



## Easy to Fill up with Fuel (Option)

The Fuel filler pump provide easy filling of fuel tank from other tanks by electric device.



## High Capacity Prefilter & Fuel Filter

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



## Centralized Grease Fittings

Grease fittings are highlighted and centralized for fast access when doing your service checks. Save time and money during routine maintenance.



## Centralized Fuse Box

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



## Large Capacity Fuel Tank

The large capacity of 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 more 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)	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")	
Displacement	3,319 cc (203 cu in)	
Battery	1 x 12 V x 100 AH	
Starter motor	12V-3.0 kW	
Alternator	12V-80 Amp	

Hydraulic System

Main pump	
Type	Two variable displacement piston pumps
Rated flow	2 x 55 l /min(15.9 US gpm/13.2 UK 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	220 kgf/cm² (3,130 psi)
Travel circuit	220 kgf/cm² (3,130 psi)
Swing circuit	220 kgf/cm² (2,840 psi)
Pilot circuit	30 kgf/cm² ( 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 hydrastatic drive, mesh, helical gear transmission provides 2 forward and reverse travel speeds.

Max. travel speed	27 km/h
Gradeability	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 and fatigueless 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 wheelbucket(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 and back filling or clean-up work.

Dozer blade	Width x Height	1,925 x 354mm(6' 4" x 14" )
	Max. lifting above ground level	400mm(15.7")
	Max. depth below ground level	90mm(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 the 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	kg(lb) 5,450 (12,020)

· Mono boom with blade

Buckets

Capacity		Width		Weight	3.0m (9' 10") Boom	
SAE heaped	CECE heaped	Without side cutters	With side cutters		1.6m (5'3") arm	1.9m (6'3") arm
0.07 m³ (0.09 yd³)	0.06 m³ (0.08 yd³)	315 mm(12.4")	360 mm(14.2")	84 kg(185 lb)	■	■
* 0.18 m³ (0.24 yd³)	0.15 m³ (0.20 yd³)	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
		28.4 kN	25.5 kN
	ISO	2,900 kgf	2,600 kgf
		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 : 3.0m (9' 10" ) · Arm : 1.6 m (5' 3" ) · Bucket : 0.18m³ (0.24yd³) SAE heaped · Dozer blade down with 200kg (440 lb) counterweight.

Load point height m(ft)		Load radius								At max. reach		
		2.0m(5ft)		3.0m(10ft)		4.0m(13.12ft)		5.0m(16.40ft)		Capacity		Reach
												m (ft)
5.0m (16.40ft)	kg lb									*960 *2120	*960 *2120	4.46 (14.6)
4.0m (13.12ft)	kg lb					*1020 *2250	*1020 *2250			*990 *2180	720 1590	5.26 (17.3)
3.0m (10ft)	kg lb					*1150 *2540	1110 2450			*1030 *2270	610 1340	5.69 (18.7)
2.0m (5ft)	kg lb			*1910 *4210	1670 3680	*1410 *3110	1060 2340	*1210 *2670	740 1630	*1070 *2360	570 1260	5.86 (19.2)
1.0m (5ft)	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)
-1.0m (-5ft)	kg lb	*4040 *8910	3020 6660	*2620 *5780	1510 3330	*1770 *3900	970 2140			*1190 *2620	740 1630	4.91 (16.1)
-2.0m (-5ft)	kg lb	*3410 *7520	3080 6790	*2100 *4630	1540 3400							

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

Load point height m(ft)		Load radius								At max. reach		
		2.0m(5ft)		3.0m(10ft)		4.0m(13.12ft)		5.0m(16.40ft)		Capacity		Reach
												m (ft)
5.0m (16.40ft)	kg lb					*940 *2070	*940 *2070			*880 *1940	840 1850	4.86 (15.9)
4.0m (13.12ft)	kg lb									*910 *2010	650 1430	5.58 (18.3)
3.0m (10ft)	kg lb					*1010 *2230	*1010 *2230	*1010 *2230	760 1680	*950 *2090	560 1230	5.98 (19.6)
2.0m (5ft)	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)
1.0m (5ft)	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)
-1.0m (-5ft)	kg lb	*3610 *7960	2980 6570	*2670 *5890	1490 3280	*1800 *3970	960 2120			*1120 *2470	650 1430	5.27 (17.3)
-2.0m (-5ft)	kg lb	*3850 *8490	3030 6680	*2300 *5070	1510 3330	*1500 *3310	970 2140			*1100 *2430	910 2010	4.31 (14.1)
-3.0m (-10ft)	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.