

Robex
95W-3
WHEEL EXCAVATOR

Mitsubishi S4S-DT Engine	57 kW / 77 HP
Operating weight	
Hyd. adjustable boom with blade	9600 kg (21160 lb)
Mono boom with blade	9350 kg (20610 lb)
Bucket capacity, SAE	0.13~0.35 m ³ (0.17~0.46 yd ³)
Reach on ground level	7190 mm (23' 7")
Digging depth	3620 mm (11' 11")
Travel speed (forward / reverse)	28 km / hr (17.4 mph)



HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

※ Photo may include optional equipment.

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HYUNDAI
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PLEASE CONTACT

Comfortable Operators Station

The operator can choose the most comfortable operating position by adjusting the seat and both control towers.

Cluster (Instrument Panel)



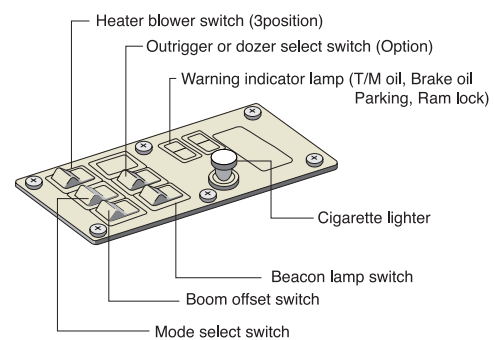
Reliable monitor with tilt angle adjustable cluster

You find this handy control cluster at your fingertips. From here, you can check your speed and fuel level, and activate your pre-heater, heater, two-speed travel system, and working lights.

Pre-heating system

When you place the starting switch to "on" position and press the pre-heat button, four LED lamps get turned on one after another within 15 minutes and flicker together two times. Even if these LED lamps stay on, this pre-heating ceases to function once your excavator has already got started.

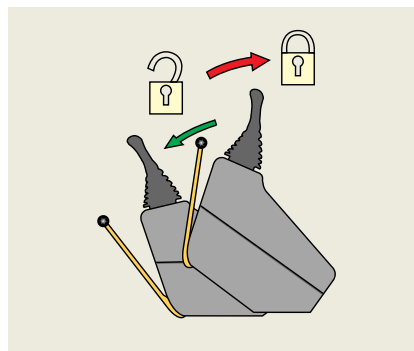
Centralized switch board



Centralized switch board

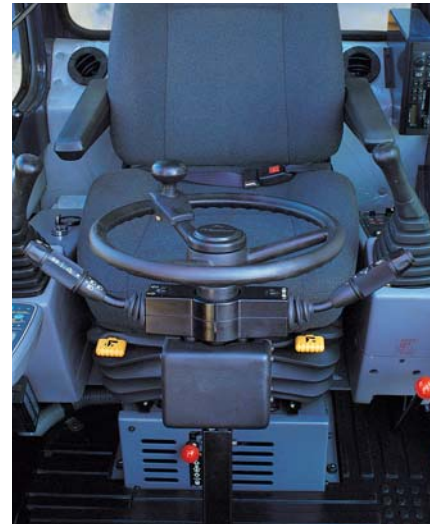
Various function switches are centralized for the operator's comfort

Safety Locking System



The left hand joystick console lifts up and into a locked position to widen your entrance into the cab. The joystick controls will remain safely inoperable until the console is lowered and snapped back into place.

Hydraulic Power Steering



Hydraulic power assisted steering system provide comfortable operation

Simple Control Air Conditioning



It is possible to adjust the air direction and air flow to best suit your needs.

Longer Joystick Lever



Long lever grip applied to joystick gives an operator smooth and comfortable feel. The longer grip of the joystick lever is provided for precise control



Power, Speed, and Effortless Control

Powered by Mitsubishi emissionized engine, the R95W-3 features the highest horse power and digging force in its model class.

Engine

The four cylinders turbo-charged, engine is built for power, reliability, economy, and low emissions.

Compact Engine Size

The compact size of the engine makes it easier to service than other engines. The low engine height allows easy access for maintenance due to a side-mounted, gear-driven camshaft.

Reliability You Can Depend On

The engine is built from a cast iron, skirted block with main bearing support between each cylinder. This combination provides maximum strength, rigidity, and crankshaft support. Special liquid cooling results in uniform temperature distribution.

Direct injection is featured in the engine for fuel economy. For longer element service intervals, you find a forced lubrication with a full-flow filter, and a double dry type air cleaner. A dust indicator and automatic dust evacuator have been added to simplify maintenance.

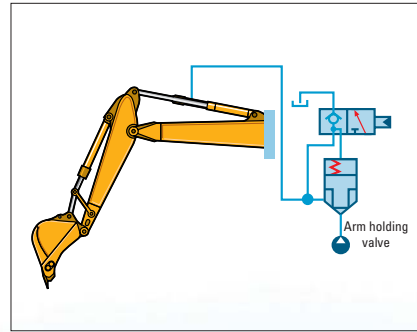
More Powerful Digging Force

The digging force of the Hyundai R95W-3 is the greatest in its class. That means more power per penny, giving you the best value.

Boom Holding System

The Pilot check valve in the main control valve prevents the boom dropping over extended period in neutral position.

Arm Holding System



The pilot check valve in the main control valve prevents the arm dropping over extended period in neutral position.

Accessibility & Serviceability

Easy Serviceability



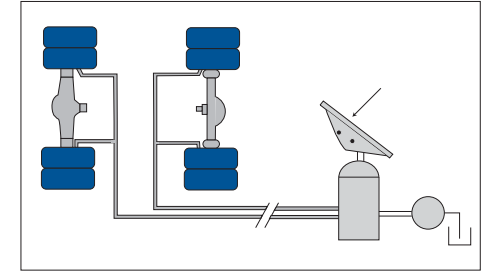
The R95W-3 was built with accessibility in mind. All doors, covers and hoods were built with complete open access. You'll find that the R95W-3 offers plenty of space to complete your regular maintenance service hassle-free.

Powerful Dozer Blade



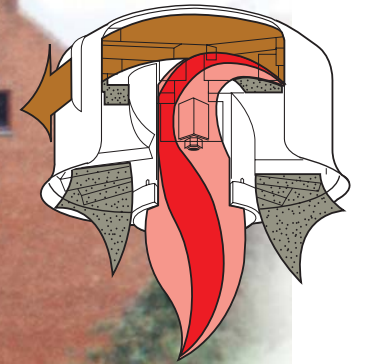
A standard equipped heavy-duty rear dozer blade provides great stability in any digging application. The blade, thanks to its heavy structure, offers powerful dozing to finish up back filling job.

Brake System



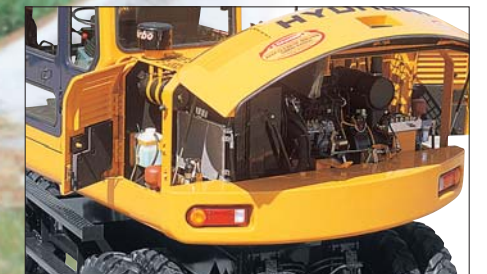
Highly reliable brake system. Disc (wet type) assure positive braking performance even in muddy conditions. 2 independent lines for safety

Pre-Cleaner



This pre-cleaner makes the life of air cleaner elements and engine longer.

Full Open Type Doors



Full open doors and simple key system provide easy service



Engine

Model	Mitsubishi S4S-DT		
Type	Water cooled, 4 cycle Diesel, 4-cylinders in line, direct injection, Turbocharged, Low emission		
Rated flywheel horsepower			
SAE J1349 (gross) (net)	HP (kW)/ rpm	77 (57) / 2200 73 (54) / 2200	
DIN 6271 (gross) (net)	PS (kW)/ rpm	78 (57) / 2200 74 (54) / 2200	
Max. torque	kgf.m(lbf.ft)/rpm	27 (195) / 1500	
Bore	mm (in)	94 (3.70)	
Stroke	mm (in)	120 (4.72)	
Piston displacement	cc (in ³)	3331 (203)	
Batteries	2 × 12 V × 100 AH		
Starting motor	24 V - 3.2 kW		
Alternator	24 V - 50 Amp		

Hydraulic system

Main pump	
Type	Two variable displacement piston pumps
Rated flow	2 × 90.2 ℓ /min (23.8 Usgpm/19.8 Ukgpm)
Sub-pump for pilot circuit	Gear pump
Sub-pump for steering	35.6 ℓ /min (9.4 Usgpm/7.8 Ukgpm)

Hydraulic motors	
Travel	Variable displacement axial piston motor with brake valve
Swing	
Swing	Axial piston motor with automatic brake
Relief valve setting	
Implement circuits	280 (3980)
Travel	280 (3980)
Swing circuit	190 (2700)
Pilot circuit	35 (500)
Service valve	Installed

Hydraulic cylinders	
No. of cylinder-bore × rod × stroke	mm (in)
Boom	1 - 125 × 85 × 725 (4.9" × 3.3" × 28.5")
Arm	1 - 100 × 65 × 845 (3.9" × 2.6" × 33.2")
Bucket	1 - 90 × 60 × 700 (3.5" × 2.4" × 27.6")
Boom swivel	1 - 100 × 65 × 640 (3.9" × 2.6" × 25.2")
Blade	2 - 100 × 65 × 180 (3.9" × 2.6" × 7.1")
Outrigger	2 - 100 × 65 × 180 (3.9" × 2.6" × 7.1")
Boom adjust	2 - 90 × 60 × 565 (3.5" × 2.4" × 22.2")

Drives & Brakes

4-wheel hydrostatic drive. Constant mesh, helical gear transmission provides 2 forward and reverse travel speeds.	
Max. drawbar pull	kgf(lbf).....5040 (11100)
Travel speed 1st (forward/reverse)8.0 (5.0) km/hr(mph)
2nd (forward/reverse)28 (17.4)
Gradability	deg(%).....30° (58)
Service brake	Independent dual brake, front and rear axle full hydraulic power brake.
	· Spring released and hydraulic applied wet type multiple disc brake.
	· Transmission in locked at neutral position for parking, automatically.

Axles & Wheels

Full floating front axles is supported by center trunnion for oscillation. It can be locked by oscillation lock cylinders. Rear axle is fixed on the lower chassis. Tires 8.25-20-12PR, Dual

Swing system

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing circuit lubrication	Grease-bathed
Swing brake	Multi Wet disc
Swing speed	14.4 rpm

Steering system

Hydraulically actuated, orbitrol type steering system actuates on front wheels through the steering cylinders. Min. turning radius mm(ft.in)5880 (19'3")

Coolant & Lubricant capacity

(refilling)	liter	Usgal	Ukgal
Fuel tank	140	37.0	30.8
Engine coolant	17.0	4.5	3.7
Engine oil	9	2.4	2.0
Swing device	1.5	0.4	0.3
Axle (Front)	7.6	2.0	1.7
(Rear)	9.6	2.5	2.1
Hydraulic system	130	34.4	28.6
Hydraulic tank	90	23.8	19.8

Controls

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot controls Two joysticks with one safety lever (LH) : Swing and Arm, (RH) : Boom and Bucket (ISO)
Engine throttle Mechanical, lever type
External lights Two lights mounted on the boom one below the cab, one the battery box

Undercarriage

Reinforced box - section frame is all-welded, low-stress. Dozer blade and outriggers are available. A pin-on design. Dozer blade A very useful addition for leveling and back filling or clean-up work. Can be mounted on the front or the rear.
Outrigger Indicated for max. operation stability when digging and lifting. Can be mounted on the front or the rear.







Operating weight (approximate)

Operating weight, including 1600mm (5'3") arm, SAE heaped 0.30 m³ (0.39 yd³) backhoe bucket, lubricant, coolant, and full fuel tank, hydraulic tank and the standard equipment.

Operating weight			kg (lb)
Undercarriage	Hyd.Adjustable Boom	Mono Boom	
*Rear - dozer blade	9600 (21160)	9350 (20610)	
Rear - 2 outrigger	9450 (20830)	9200 (20280)	
Front-outrigger+Rear-blade	10100 (22270)	9850 (21710)	
Four outrigger	9950 (21940)	9700 (21380)	
Front-blade +Rear-outrigger	10080 (22220)	9830 (21670)	
Front-blade +Rear-blade	10250 (22600)	10000 (22050)	

*Standard equipment
Major component weight
Upperstructure 3600 (7940)
Counterweight 1320 (2910)
Mono Boom (with arm cylinder) 430 (950)
Hyd Adjustable Boom (with arm cyl.) 680 (1500)

Buckets

					
SAE heaped m ³ (yd ³)	0.13 (0.17)	0.16 (0.21)	0.22 (0.29)	* 0.30 (0.39)	0.35 (0.46)

Capacity m ³ (yd ³)	Width mm (in)	Weight kg (lb)	Recommendation			
			3640 (11'11") hydraulic adjustable Boom		3000 (9'10") Mono Boom	
			1600 (5' 3")	1850 (6' 1")	1600 (5' 3")	1850 (6' 1")
0.13 (0.17)	450 (17.7)	170 (370)	●	●	●	●
0.16 (0.21)	500 (19.7)	180 (400)	●	●	●	●
0.22 (0.29)	600 (23.6)	200 (440)	●	■	●	●
0.26 (0.34)	680 (26.8)	215 (470)	●	■	●	■
* 0.30 (0.39)	750 (29.5)	225 (500)	■	▲	■	■
0.35 (0.46)	840 (33.1)	240 (530)	▲	▲	■	▲

* : Standard backhoe bucket

● : Applicable for materials with density 2000 kg/m³ (3370 lb/yd³) or less
■ : Applicable for materials with density 1600 kg/m³ (2700 lb/yd³) or less
▲ : Applicable for materials with density 1100 kg/m³ (1850 lb/yd³) or less

Arm

Booms and arms are of all-welded, low-stress, full-box section design. 3640mm (11'11") hydraulic adjustable boom, 3000mm (9'10") mono boom and 1600mm (5'3"), 1850 mm (6'1"), arms are available. Buckets are all-welded, high-strength steel implements.



Digging force

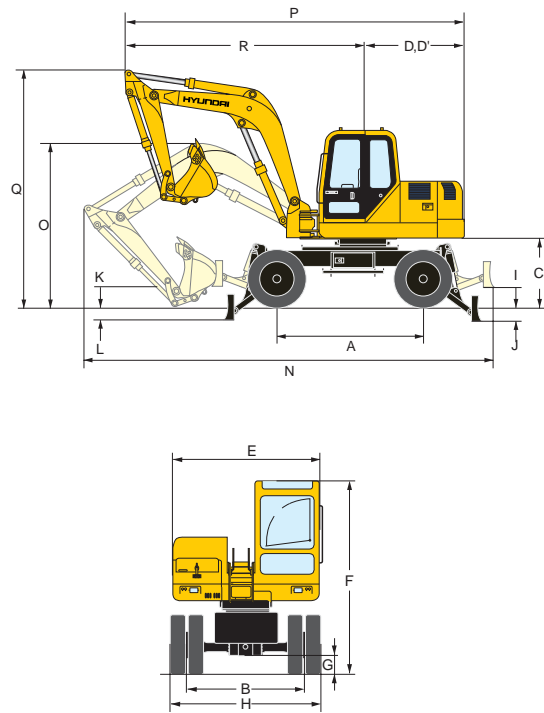
Arm	Length	mm (ft.in)	* 1600 (5'3")	1850 (6'1")	Remark
	Weight	kg (lb)	360 (790)	380 (840)	
Bucket digging force	SAE	kN	62.7	62.7	*Standard arm
		kgf	6400	6400	
	lbf	14100	14100		
ISO	kN	72.6	72.6		
	kgf	7400	7400		
	lbf	16300	16300		
Arm crawl force	SAE	kN	49.0	51.9	
		kgf	5000	5300	
		lbf	11000	11700	
	ISO	kN	50.9	53.9	
kgf		5200	5500		
	lbf	11500	12100		

Note: Arm weight includes bucket cylinder and linkage



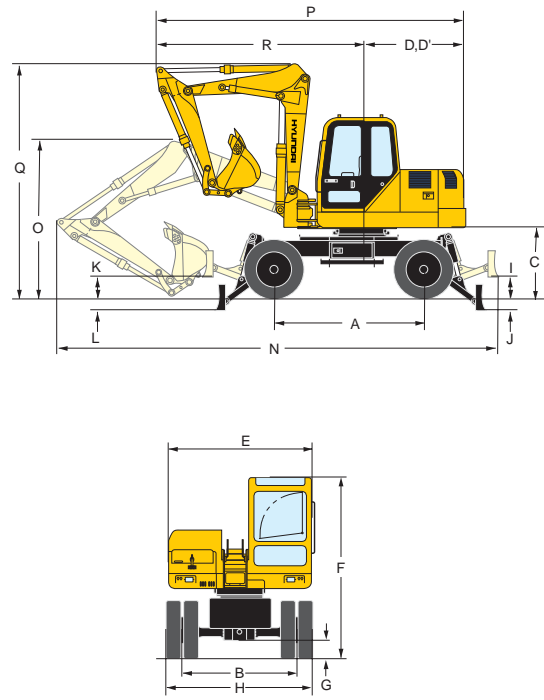
Dimensions

Mono boom



mm(ft.in)		
A	Wheel base	2400 (7'10")
B	Tread	1810 (5'11")
C	Ground clearance of counterweight	1140 (3' 9")
D	Tail swing radius	1800 (5'11")
D'	Rear-end length	1800 (5'11")
E	Overall width of upperstructure	2250 (7'5")
F	Overall height of cab	3020 (9'11")
G	Min. ground clearance	350 (1'2")
H	Overall width	2345 (7'8")
I	Ground clearance of blade up	330 (1'1")
J	Depth of blade down	230 (0'9")
K	Ground clearance of front blade up	330 (1'1")
L	Depth of front blade down	230 (0'9")
Arm length		1600 (5'3")
N	Shipping length of boom	6900 (22'8")
O	Shipping height of boom	2745 (9' 0")
P	Traveling length of boom	5700 (18' 8")
Q	Traveling height of boom	3990 (13' 1")
R	Length of roading position	4020 (13' 2")

Hydraulic adjustable boom



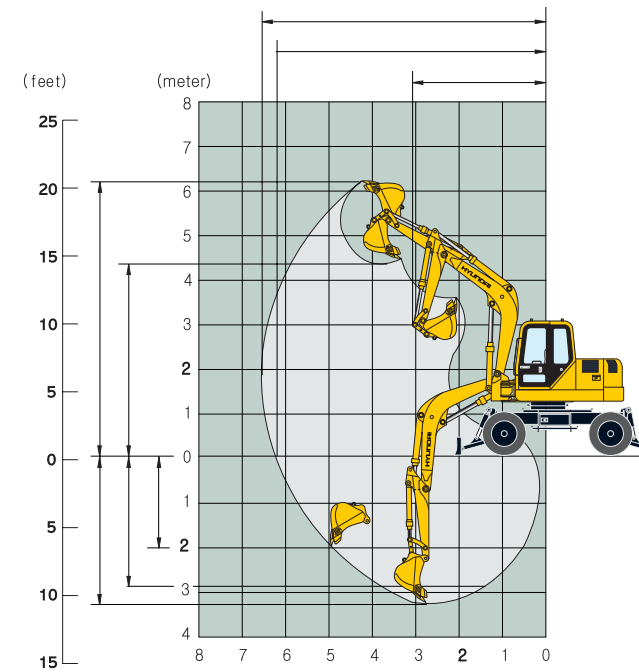
A	Wheel base	2400 (7'10")
B	Tread	1810 (5'11")
C	Ground clearance of counterweight	1140 (3' 9")
D	Tail swing radius	1800 (5'11")
D'	Rear-end length	1800 (5'11")
E	Overall width of upperstructure	2250 (7'5")
F	Overall height of cab	3020 (9'11")
G	Min. ground clearance	350 (1'2")
H	Overall width	2345 (7'8")
I	Ground clearance of blade up	330 (1'1")
J	Depth of blade down	230 (0'9")
K	Ground clearance of front blade up	330 (1'1")
L	Depth of front blade down	230 (0'9")
Arm length		※ 1600 (5'3") 1850 (6'1")
N	Shipping length of boom	7100 (23'4") 7210 (23'8")
O	Shipping height of boom	2680 (8'10") 2840 (9'4")
P	Traveling length of boom	5490 (18'0") 5490 (18'0")
Q	Traveling height of boom	3940 (12'11") 3940 (12'11")
R	Length of roading position	3300 (10'10") 3300 (10'10")

※ Standard Equipment



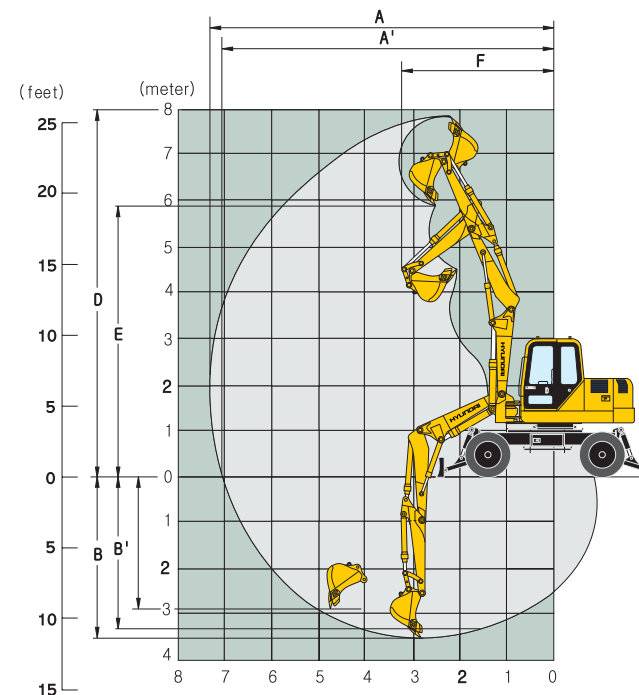
Working ranges

Mono boom



mm(ft.in)	
Boom length	3000mm (9' 10") Mono boom
Arm length	1600 (5' 3")
A Max.digging reach	6515 (21' 5")
A' Max.digging reach on ground	6210 (20' 5")
B Max.digging depth of boom close	3280 (10' 9")
B' Max.digging depth (8' level)	2870 (9' 5")
C Max. vertical wall digging depth	2030 (6' 8")
D Max. digging height	6200 (20' 4")
E Max. dumping height	4330 (14' 3")
F Min. swing radius	3100 (10' 2")

Hydraulic adjustable boom



3640 (11'11") Hydraulic adjustable boom	
Boom length	3640 (11'11") Hydraulic adjustable boom
Arm length	※ 1600 (5' 3") 1850 (6' 1")
A Max.digging reach	7440 (24' 5") 7670 (25' 2")
A' Max.digging reach on ground	7190 (23' 7") 7420 (24' 4")
B Max.digging depth of boom close	3620 (11' 11") 3870 (12' 8")
B' Max.digging depth (8' level)	3450 (11' 4") 3700 (12' 2")
C Max. vertical wall digging depth	2920 (9' 7") 3170 (10' 5")
D Max. digging height	7920 (26' 0") 8150 (26' 9")
E Max. dumping height	5910 (19' 5") 6140 (20' 2")
F Min. swing radius	2520 (8' 3") 2720 (8' 11")

※ Standard Equipment

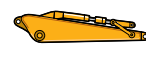
Lifting capacities

Mono boom

With rear dozerblade down and 1,900kg(4,190 lb) counterweight



3.0m (9' 10')



1.60m (5' 3')



0.30 m³ SAE heaped

Rating over-front

Rating over-side or 360 degree

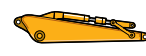
Load point height m (ft)	Load radius						At max. reach		Reach m (ft)	
	3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		Capacity			
4.5m (15.0ft)	kg lb					*1650 *3640	*1650 *3640	*1570 *3460	1450 3200	5.59 (18.3)
3.0m (10.0ft)	kg lb					*1940 *4280	*1940 *4280	*1710 *3770	1190 2620	6.20 (20.3)
1.5m (5.0ft)	kg lb			*4850 *10690	3480 7670	*2580 *5690	1880 4140	*1870 *4120	1150 2540	6.24 (20.5)
Ground Line	kg lb	*3570 *7870	*3570 *7870	*5520 *12170	3360 7410	*2950 *6500	1810 3990	*2020 *4450	1290 2840	5.74 (18.8)
-1.5m (-5.0ft)	kg lb	*6770 *14930	*6770 *14930	*4660 *10270	3390 7470					

Hydraulic adjustable boom

With rear dozerblade down and 1230 kg counterweight



3.64m (11' 11'')



1.60m (5' 3'')



0.30m³ SAE heaped

Rating over-front

Rating over-side or 360 degree

Load point height m (ft)	Load radius						At max. reach		Reach m (ft)	
	3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		Capacity			
6.0m (20.0ft)	kg lb							*1810 *3990	1480 3260	5.34 (17.5)
4.5m (15.0ft)	kg lb			*2010 *4430	1970 4340			*1590 *3510	1020 2250	6.50 (21.3)
3.0m (10.0ft)	kg lb			*2360 *5200	1840 4060	*1780 *3920	1130 2490	*1490 *3280	870 1920	7.00 (23.0)
1.5m (5.0ft)	kg lb			*2730 *6020	1690 3730	*1830 *4030	1080 2380	*1380 *3040	840 1850	7.04 (23.1)
Ground Line	kg lb			*2660 *5860	1620 3570	*1650 *3640	1060 2340	*1190 *2620	940 2070	6.63 (21.8)
-1.5m (-5.0ft)	kg lb	*2990 *6590	*2990 *6590	*1950 *4300	1640 3620			*710 *1570	*710 *1570	5.61 (18.4)

- Notes : 1. Lifting capacity are based on SAE J1097, 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 the load limited by hydraulic capacity.



Standard Equipment

- ISO standard size cab
 - All-weather steel cab with all-around visibility
 - Safety glass windows
 - Wide windshield wiper
 - Sliding fold-in front window
 - Sliding side window
 - Lockable door
 - 2-power, mode selection system (high, econo mode)
 - Auto deceleration system
 - Anti restarting up system
- Fully adjustable suspension seat with seat belt
- Boom holding system
- Arm holding system
- Safety lock valve for adjust boom cylinder

- Starting aid (air grid Heater), cold weather
- Centralized monitoring
 - LCD type tachometer
 - Engine coolant temperature gauge
 - Engine oil pressure light
 - Air-cleaner clogging indicator
 - Charging light
 - Engine overheat light
 - Fuel meter and light
 - Mechanical type hourmeter
 - Illumination lights
- Travel alarm
- Batteries (2 × 12V × 100AH)
- Electric horn
- Heater (2,700kcal/hr / 10,700BTU/hr)

- Heater defroster
- Door and cab locks, one key
- Two outside rearview mirrors
- Slidable joystick, pilot-operated
- Auxiliary accumulator
- Automatic swing brake
- Removable reservoir tank
- Water separator, fuel line
- Counterweight (1350 kg / 2910 lb)
- Hyd adjustable boom (3.64m / 11'11'')
- Arm (1.60 m / 5' 3'')
- Blade (450 × 2345mm / 1' 6" x 7' 8")
- Tires-dual (8.25 × 20-12PR)
- AM/FM radio and cassette

Optional Equipment

- Air-conditioner (2850 kcal/hr, 11,300 BTU/hr)
- Fuel filler pump (35 ℓ / min, 9.2 USgpm)
- Beacon Lamp
- Safety lock valve for boom cylinder
- Safety lock valve for arm cylinder
- Single acting breaker piping kit
- Double acting piping kit
- Battery master switch
- Mono boom (3.0 m, 9' 10'')

- Long arm (1.85m, 6' 1'')
- Various optional Buckets (SAE heaped)
 - Narrow bucket (0.13 m³, 0.17yd³)
 - Narrow bucket (0.16m³, 0.21yd³)
 - Narrow bucket (0.22m³, 0.29yd³)
 - Narrow bucket (0.26m³, 0.34yd³)
 - Light duty bucket (0.35m³, 0.46yd³)
- Outrigger, pin-on, individually controlled
- Rear-outrigger

- Front-outrigger and rear-dozer blade
- Four outrigger
- Front-dozer blade and rear-outrigger
- Front-dozer blade and rear- dozer blade
- Fender
- Tool kit
- Operator suit