



ROBEX 170W-7

### Standard Equipment

#### ISO standard cab

- 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 & Ash-tray

#### Computer Aided Power Optimization (New CAPO) system

- 2-power mode, 3-work mode, 2-user mode
- Auto deceleration & one touch deceleration system
- Auto warm up system
- Auto overheat prevention system

#### Heater(7,500 kcal/hr, 30,000BTU/hr) & Defroster

#### Self diagnostic system

#### Centralized monitoring

- LCD display
  - Engine speed
  - Clock & Error code
- Gauges
  - Fuel level gauge
  - Engine coolant temperature gauge
  - Hyd. oil temperature gauge
- Warning
  - Fuel level
  - Check Engine & CPU
  - Engine oil pressure
  - Engine coolant temperature
  - Hyd. oil temperature
  - Low battery
  - Air cleaner clogging
- Indicator
  - Power max.
  - Preheat & Engine warming-up
  - One touch decel

#### Door and cab locks, one key

#### Two outside rearview mirrors

#### Fully adjustable suspension seat with seat belt

#### Slidable joystick, pilot-operated

#### Automatic swing brake

#### Removable reservoir tank

#### Fuel pre-filter, fuel line

#### Boom holding system

#### Arm holding system

#### Counterweight (2,750kg, 6,060lb)

#### mono boom (5.1m, 16' 9")

#### Arm (2.2m, 7' 3")

#### Radio & USB player

#### • Remote control switch

#### Console box tilting system (LH.)

#### Three front working light

#### Electric horn

#### Batteries (2 x 12V x 100AH)

#### Battery master switch

#### Starting Aid(air grid heater) cold weather

#### Standard bucket(0.76 m<sup>3</sup>, 0.99 yd<sup>3</sup>)

#### Rear - blade (550 x 2500)

#### Tires - dual (10.00 - 20 - 16PR)

#### Travel alarm

#### Fuel warmer

#### Cabin roof cover - steel

### Optional Equipment

#### Air-conditioner (5,000kcal/hr, 20,000BTU/hr)

#### Sun visor for cabin inside

#### Fuel filler pump (35 ℓ /min, 9.5 USgpm)

#### Beacon lamp

#### Safety lock valve for boom cylinder with

#### overload warning device

#### Safety lock valve for arm cylinder

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

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

#### Accumulator, work equipment lowering

#### 12 volt power supply (DC-DC converter)

#### Electric. transducer

#### Mechanical suspension seat with heater

#### Adjustable air suspension seat

#### Various optional Boom

- hyd adjustable boom (5.1m, 16' 9")

#### Various optional Arms

- Semi long arm (2.6m, 8' 6")
- Long arm (3.1m, 10' 2")

#### Various optional Buckets (SAE heaped)

- Standard bucket (0.76m<sup>3</sup>, 0.99yd<sup>3</sup>)
- Narrow bucket (0.39m<sup>3</sup>, 0.51yd<sup>3</sup>)
- Narrow bucket (0.50m<sup>3</sup>, 0.65yd<sup>3</sup>)
- Narrow bucket (0.64m<sup>3</sup>, 0.84yd<sup>3</sup>)
- Light duty bucket (0.89m<sup>3</sup>, 1.16yd<sup>3</sup>)
- Light duty bucket (1.05m<sup>3</sup>, 1.37yd<sup>3</sup>)
- Heavy duty bucket (0.69m<sup>3</sup>, 0.90yd<sup>3</sup>)

#### Cabin lamp

#### Cabin FOPS/FOG (ISO 10262)

#### Cabin Roof - Cover Transparent

#### Lower frame under cover

#### Pre heating system

#### Tool kit

#### Operator suit

#### Special cowling

- Air vent type side door

#### Hydraulic adjustable boom(5.1 m, 16' 9")

#### Undercarriage

- Rear outrigger
- Rear dozer and front outrigger
- Rear and front outrigger
- Rear outrigger and front dozer

#### Tiers - dual (10.00 - 20 solid)

#### Emergency Engine Control Cable

#### Seat

- Adjustable air suspension seat
- Adjustable air suspension seat with heater
- Mechanical suspension seat with heater

\* 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.



\*Photo may include optional equipment.



WHEELED EXCAVATOR Applied Tier 2 Engine

# 170W-7

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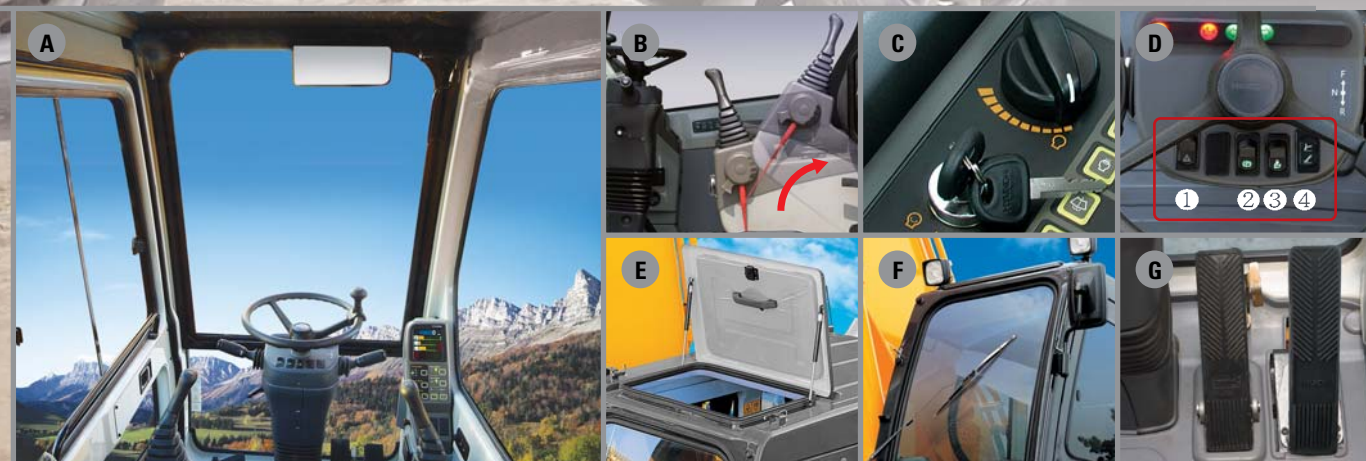
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**HYUNDAI**  
HEAVY INDUSTRIES CO.,LTD.

We build a better future

# HYUNDAI 7 Series Wheeled Excavator

The ROBEX 170W-7 provides outstanding performance, working harder and faster in a variety of job conditions. Hyundai's ROBEX 7 series features a comfortable operator environment with advanced ergonomics.



- A 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.
- B Highly Sensitive Joystick and Easy Entrance**  
New joystick grips for precise control have been equipped with double switches.
- C Dial Type Engine Speed Switch and Key Switch**
- D Front Switch Panel**  
① Hazard ② Parking Brake ③ Ram lock ④ Outrigger/Dozer
- E Steel Cover Sunroof**
- F Rise-up Wiper and Cabin Lights**  
Raise-up wiper has enhanced for the better front view. Cabin Lights enhance safety by brightly lighting the surroundings during night work (optional)
- G Convenient Acceleration and Brake Pedal**

\*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.



**Operator's Comfort is Foremost. Wide Cab Exceeds Industry Standards.**



### Visibility

- Even more visibility than before, for safer, more efficient operating.



### Excellent Ventilation

- Ventilation has been improved by the addition of the larger fresh air intake system, and by providing additional air flow throughout the cab.
- Sliding front and side windows provide improved ventilation.
- A large sunroof offers upward visibility and additional ventilation.



### Comfortable Operator Environment

- The control levers and seat can be adjusted to provide maximum operator comfort.
- The seat is fully adjustable for optimum operating position, reducing operator fatigue.
- Console boxes slide forward and backward for improved accessibility.
- The proportional pressure controls reduce unnecessary exertion while ensuring precise operation.
- Large windows allow excellent visibility in all directions.



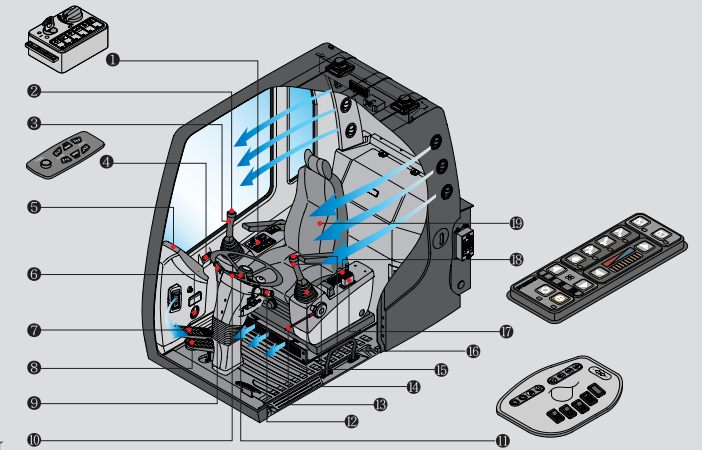
### Low noise design

- The Robex 7 series was designed with low operation noise in mind.
- Hyundai engineering helps to keep interior and exterior noise levels to a minimum.
- The cab's noise levels have been additionally reduced by improving the door seals for the cab and engine compartments.
- An insulated diesel engine compartment with sound-damping material also reduces noise.

## Operating Environment

The best working conditions in a pleasant environment.

- 1 Switch panel(R.H)
- 2 Horn button
- 3 Option button(breaker operation)
- 4 Remote radio control
- 5 Cluster
- 6 Hour meter
- 7 Accel pedal
- 8 Brake pedal
- 9 Multi function switch(R.H)
- 10 Steering
- 11 Switch panel(Front)
- 12 Multi function switch(L.H)
- 13 Safety lever
- 14 Joystick control lever
- 15 Power Max. button
- 16 One touch decel button
- 17 Dozer blade Lever
- 18 Air conditioner and heater controller
- 19 Fully adjustable suspension seat



### Easy-to-Reach Control Panels

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

- |              |   |
|--------------|---|
| <b>Left</b>  | • Power boost<br>• One touch deceleration |
| <b>Right</b> | • Horn<br>• 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.



### Radio/USB Player & Remote Control Switch



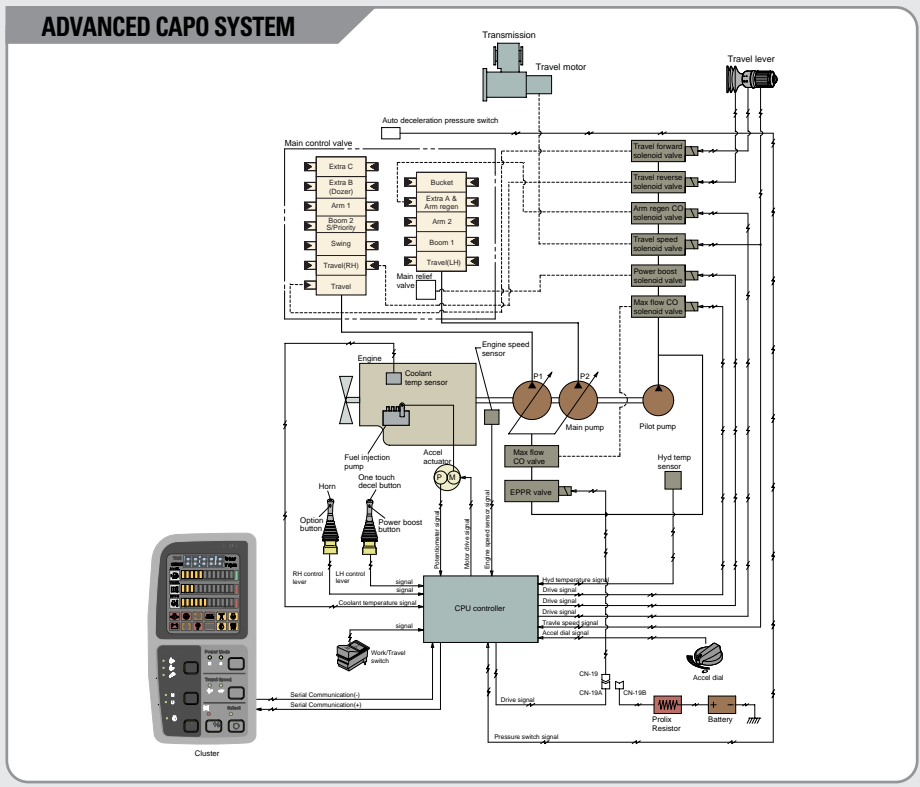
### Improved Intelligent Display

Instrument panel is installed in front of RH console box. It is easy to check all critical systems with easy-to-read indicators.



### Adjustable Steering Column

# Advanced Hydraulic System



## Advanced CAPO System

The advanced CAPO (Computer Aided Power Optimization) system maintains engine and mutual pump power at optimum levels. Mode selections are designed for various work loads and maintaining high performance while reducing fuel consumption. Features such as auto deceleration and power boost are included in the system. The system monitors engine speed, coolant temperature, and hydraulic oil temperature. Contained within the system are self diagnostic capabilities which are displayed by error codes on the cluster.

## Self Diagnosis System

The CPU controller diagnoses problems in the CAPO system caused by electric and hydraulic malfunctions and displays them on the LCD monitor of the cluster through error codes. This controller has the capacity to identify 48 distinct types of errors. As the information from this device, such as engine rpm, main pump delivery pressure, battery voltage, hyd. temperature, and the state of all types of electric switches, provides the operator with a much more exact state of machine operating condition. This makes the machine easier to troubleshoot when anything does go wrong.

## Arm Flow Regeneration System

Arm flow regeneration valve provides smooth arm-in operation without cavitations.

## Boom & Arm Holding System

The Holding valves in the main control valve prevents the boom & arm from dropping over an extended period in neutral position.

## One Touch Decel System

When the one touch decel switch is pressed, CPU controller controls the accel actuator to reduce engine speed to low idle. And then the one touch decel switch is pressed again, the engine speed recovers.

## Auto Deceleration System



When remote-control valves are in neutral position more than 4 seconds, CPU controller instructs the accel actuator to reduce engine speed to 1200rpm. This decreases fuel consumption and reduces cab noise levels.

## Max. Flow Cut-off System

For precise control and finishing work, the Max. Flow Cut-off System reduces pump flow, thus allowing smooth operation.

## Pump Flow Control System

In neutral position: Pump flow is reduced to a minimum to eliminate power loss. In operation: Maximum pump flow is delivered to the actuator to increase the speed. With movement of the control lever, pump flow is automatically adjusted and the actuator speed can be proportionally controlled.

## Hydraulic Damper in Travel Pedal

Improved travel controllability & feeling by shock reducing when starting and stopping.

## NEW MODE CONTROL SYSTEM

**POWER MODE**  
H mode : High power  
S mode : Standard power

**WORK MODE**  
Heavy duty  
General  
Breaker

**USER MODE**  
M mode: Maximum Power  
U mode: Memorizing Operator's Preferable Power Setting

## Automatic Engine Overheat Prevention



If the engine coolant temperature gets too high, the CPU controller lowers the engine speed and cools the engine.



## 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.



## Power boost control System

When the power boost system is activated, digging power increases about 10%.

It is especially useful when extra power is temporarily needed, for instance, when digging hard earth and rock, or if the bucket teeth are stopped by a stubborn tree root.



## Automatic Warming-up System

After the engine is started, if the engine coolant temperature is low, the CPU controller increases the engine speed and automatically increases the pump flow rate to warm up the engine more effectively.



# Increased Higher Performance and durability

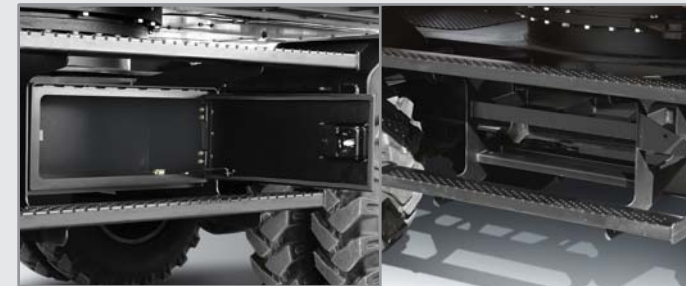


## Strong and Stable Lower Frame

Reinforced box-section frame is all welded, low-stress, high-strength steel. It guarantees safety and resistance against external impact when driving on rough ground and working on wet sites through high tensile strength steel panels, with protection cover for transmission.

## Large Toolbox & Safe Footholds

Anti-slip footholds and wide toolbox improved safety and convenience.



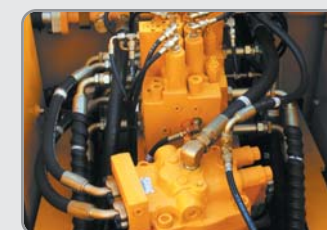
## Powerful Dozer Blade and Dozer Blade Cylinder Guard

Large size blade's plate and cover that protect cylinder improved efficiency of work and durability of equipment.



## Powerful and Precise Swing Control

Improved shock absorbing characteristics make stopping a precise and smooth action



## Mitsubishi S6S-DT Engine

The six cylinders turbo-charged and charged air cooled, engine is built for power, reliability and economy. This engine meets EPA tier II and EU stage II emission regulation.



## Reliability You Can Depend On

Mitsubishi S6S-DT engine is ideal solution for the toughest work environment. 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.

## 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.

## Reinforced Bucket and Bucket Linkage

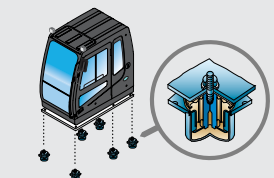
Sealed and adjustable bucket linkage provides less wear of pins and bushes as well as silent operation. The design includes bucket link durability and anti wear characteristics.

Additional reinforcement plates on cutting edge section. Reinforced bucket is made with thicker steel and additional lateral plate.



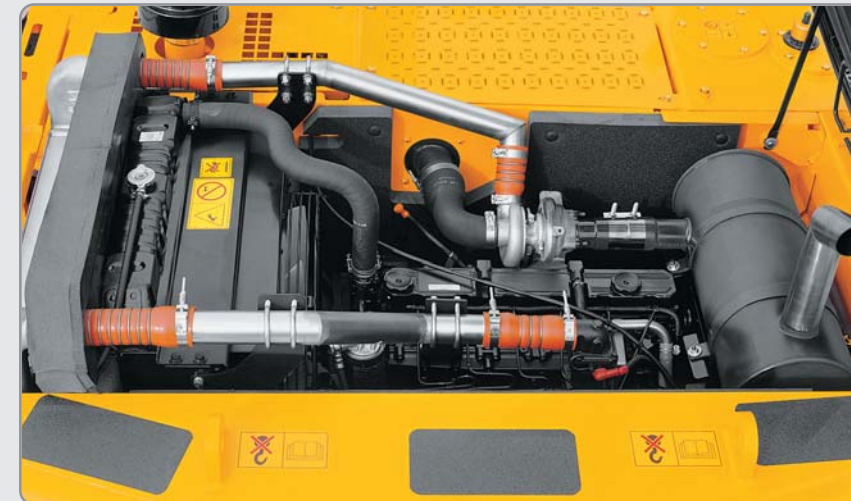
## Minimization of Shock and Vibration through Cab Mounting System

The application of Viscous Mounting to the cabin support provides the operator with a much improved ride. The operator work efficiency will increase as the shock and noise level in the cabin decreases.





## Reliability and Serviceability



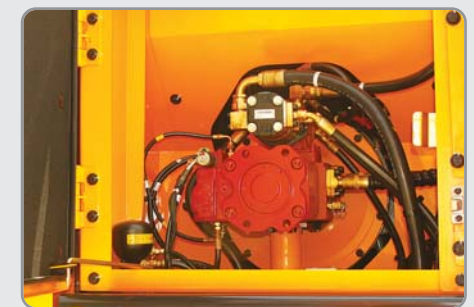
### Easy to Maintain Engine Components

The cooling and preheating system are provided for optimum and immediate operation, guaranteeing longer life for the engine and hydraulic components. Servicing of the engine and hydraulics is considerably simplified due to total accessibility.



### Centralized Electric Control Box and Easy Change Air Cleaner Assembly

Electric control box and Air cleaner are centralized in one or the same compartment for easy service.



### Highly Efficient Hydraulic Pump

Pump output and Hydraulic tank capacity have been increased. A pilot pump has been installed resulting in improved control sensitivity.



### Side Cover with Left & Right Swing Open Type

Easy access to vital components gives unrestricted view of component allows easy maintenance and repair.



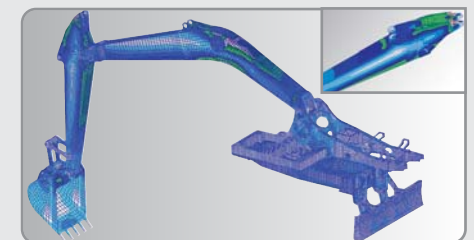
### Large Capacity Fuel and Hydraulic Tank

The capacity of fuel and hydraulic tank is increased to extend the working time.



### Easy to Access Battery and Master Switch

Battery and master switch on equipment forehead enable to check and maintain easily.



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

## Engine

Model		Mitsubishi S6S-DT	
Type		Water cooled, 4 cycle Diesel 6-cylinders in line, direct injection, Turbocharged and charge air cooled	
Rated flywheel horse power	SAE	J1995 (gross)	126 HP (94 kW) at 2,100 rpm
		J1345 (net)	116 HP (87 kW) at 2,100 rpm
	DIN	6271 (gross)	128 PS (94 kW) at 2,100 rpm
		(net)	118 PS (87 kW) at 2,100 rpm
Max. torque		42.5 kgf.m(307 lbf.ft) at 1,500 rpm	
Bore x stroke		94 x 120 mm (3.70" x 4.72")	
Piston displacement		4,996 cc (305 in <sup>3</sup> )	
Batteries		2 x 12 V x 100 AH	
Starting motor		24 V- 5.0kW	
Alternator		24V-50 Amp	

## Hydraulic system

Main pump	
Type	Two variable displacement piston pumps
Rated flow	2 x 168 l/min (44.4 US gpm / 37.0 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump system	
Hydraulic motors	
Travel	Two speed axial piston motor with brake valve
Swing	Axial piston motor with automatic brake
Relief valve setting	
Implement circuits	330 kgf/cm <sup>2</sup> (4,690 psi)
Travel	330 kgf/cm <sup>2</sup> (4,690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm <sup>2</sup> (5,120 psi)
Swing circuit	240 kgf/cm <sup>2</sup> (3,410 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (570 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x stroke	Boom : 2-115 x 1,090 mm (4.5" x 42.9")
	Arm : 1-120 x 1,340 mm (4.7" x 52.8")
	Bucket : 1-115 x 950 mm (4.5" x 37.4")
	Blade : 2-110 x 235 mm (4.3" x 9.3")
	Outrigger : 2-125 x 475 mm (4.9" x 18.7")
	2-PCS 1st : 2-115 x 960 mm (4.5" x 37.8")
	2nd : 1-160 x 650 mm (6.3" x 25.6")

## Drives & Brakes

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

Max. drawbar pull	11,000 kgf (24,300 lbf)
Travel speed	1st (forward) / (reverse) 9.5 (5.9) km/hr
	2nd (forward) / (reverse) 30 (18.6) km/hr
Gradeability	30° (58 %)

Service brake : Independent dual brake, front and rear axle full hydraulic power brake.  
 • Full hydraulic applied wet type multiple disc brake.  
 • Transmission is locked at neutral position for parking, automatically.

## Control

Pilot operated joysticks and pedals provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket (ISO)
Engine throttle	Electric, Accel dial switch
External Lights	One lights mounted on the boom, one below the cab, one in the tool box

## Axles & Wheels

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

Tires ..... 10.00-20-16PR, Dual (tube type)  
 (option) ..... 10.00-20, Dual (solid type)

## Swing system

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing circuit lubrication	Grease-bathed
Swing brake (option)	multi wet disc (Pin lock type)
Swing speed	11.5 rpm

## Steering system

Hydraulically actuated, orbital type steering system actuates on front wheels through the steering cylinders.

Min. turning radius ..... 6,330 mm (20' 0")

## Coolant & Lubricant capacity

(refilling)	liter	US gal	UK gal
Fuel tank	260	68.7	57.2
Engine coolant	30	7.9	6.6
Engine oil	16.5	4.4	3.6
Swing device	5.0	1.3	1.1
Axle	(Front)	15.5	4.1
	(Rear)	20.1	5.3
Hydraulic system	240	63.4	52.8
Hydraulic tank	160	42.3	35.2

## 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.
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 2,200mm (7' 3") arm, SAE heaped 0.76 m<sup>3</sup> (0.99 yd<sup>3</sup>) backhoe bucket, lubricant, coolant, and full fuel tank, hydraulic tank and the standard equipment.

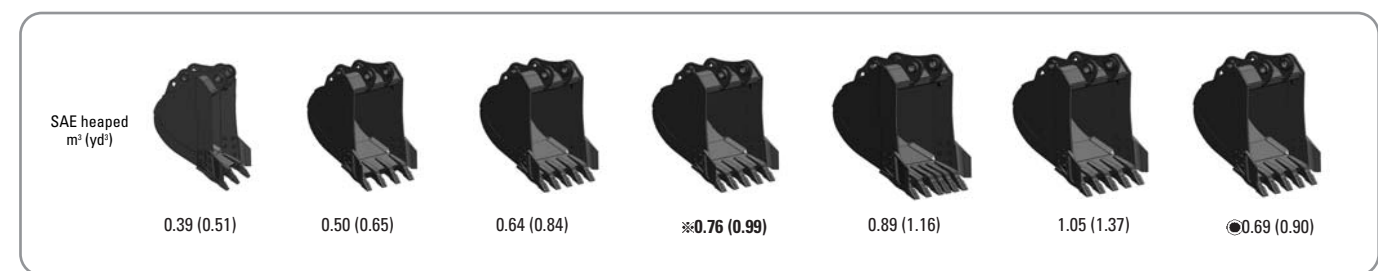
Major component weight	
Upperstructure	4,490kg (9,900 lb)
Counterweight	2,750kg (6,060 lb)
Mono boom(with arm cylinder)	1,240kg (2,730 lb)
Hydraulic adjustable boom (with arm cylinder)	1,780kg (3,920 lb)

## Operating weight

Undercarriage	※Mono boom	Hyd. adjustable boom
※Rear-dozer blade	16,200kg (35,710 lb)	16,670kg (36,750 lb)
Rear-2 outrigger	16,350kg (36,050 lb)	16,820kg (37,080 lb)
Front-outrigger+Rear-blade	17,320kg (38,180 lb)	17,790kg (39,220 lb)
Four outrigger	17,500kg (38,580 lb)	17,970kg (39,620 lb)
Front-blade+Rear-outrigger	17,260kg (38,050 lb)	17,730kg (39,080 lb)
Front-blade+Rear-blade	17,080kg (37,650 lb)	17,550kg (38,690 lb)

※ Standard equipment

## Buckets



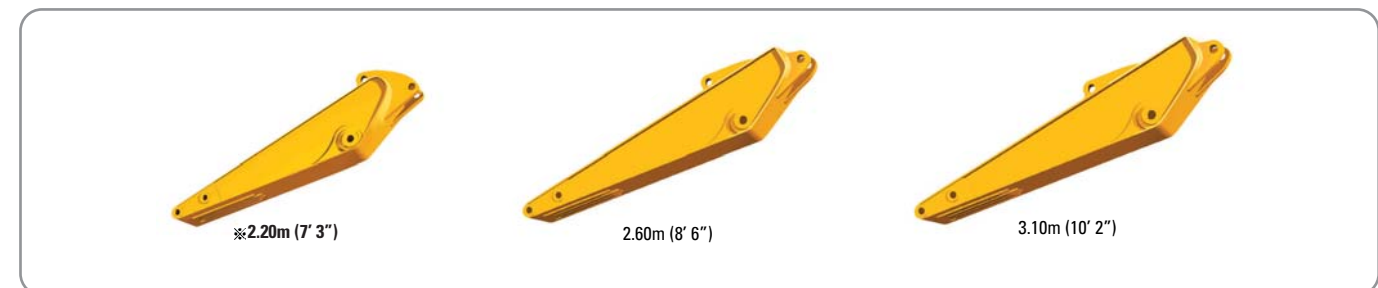
Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)		Weight kg (lb)	Recommendation mm(ft.in)				
SAE heaped	CECE heaped	Without side cutters	With side cutters		Boom Arm	※5,100 (16' 9")	Mono boom 2,600 (8' 6")	3,100 (10' 2")	5,100(16' 9") Hydraulic Adjustable boom 2,200 (7' 3")
0.39 (0.51)	0.34 (0.44)	620 (24.4)	740 (29.1)	410 (900)	●	●	●	●	●
0.50 (0.65)	0.44 (0.58)	760 (29.9)	880 (34.6)	470 (1040)	●	●	■	●	●
0.64 (0.84)	0.55 (0.72)	920 (36.2)	1,040 (40.9)	510 (1120)	●	●	■	●	■
※0.76 (0.99)	0.65 (0.85)	1,060 (41.7)	1,180 (46.5)	570 (1260)	●	■	■	●	■
0.89 (1.16)	0.77 (1.01)	1,220 (48.0)	1,340 (52.8)	610 (1340)	■	▲	-	■	▲
1.05 (1.37)	0.90 (1.18)	1,400 (55.1)	1,520 (59.8)	680 (1500)	▲	-	-	▲	-
●0.69 (0.90)	0.62 (0.81)	990 (39.0)	-	700 (1540)	●	■	▲	■	▲

※: Standard backhoe bucket  
 ●: Heavy duty bucket

● Applicable for materials with density of 2,000 kg / m<sup>3</sup> (3,370 lb/ yd<sup>3</sup>) or less  
 ■ Applicable for materials with density of 1,600 kg / m<sup>3</sup> (2,700 lb/ yd<sup>3</sup>) or less  
 ▲ Applicable for materials with density of 1,100 kg / m<sup>3</sup> (1,850 lb/ yd<sup>3</sup>) or less

## Backhoe attachment

Boom and arms are of all-welded, low-stress, full-box section design. 5.1m(16' 9") mono boom, 5.1m(16' 9") hydraulic adjustable boom 2.20m(7' 3"), 2.60m(8' 6"), and 3.10m(10' 2") arms are available. Buckets are all-welded, high-strength steel implements.

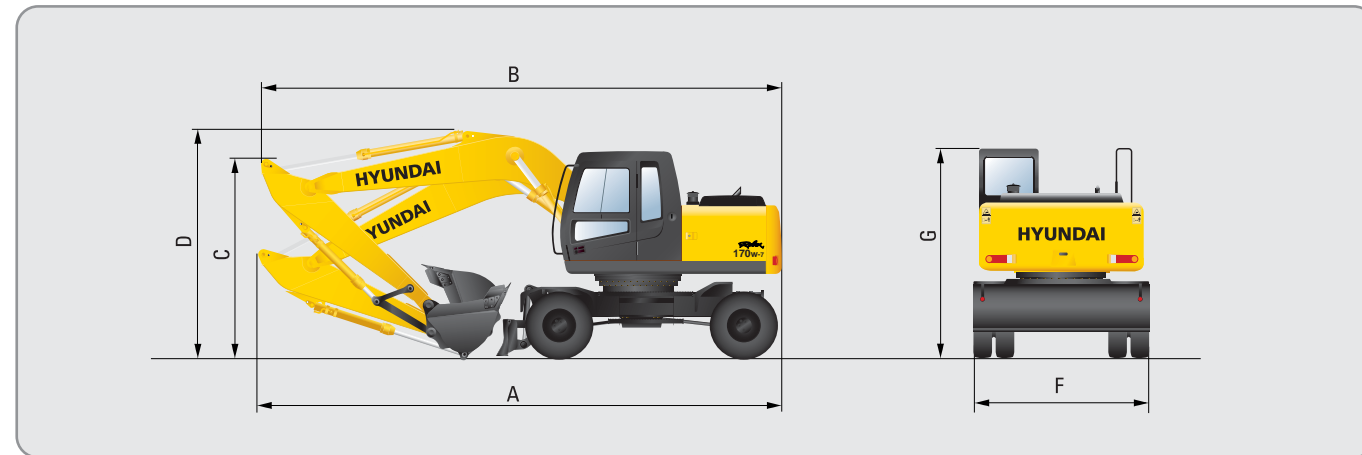


## Digging force

Arm	Length	m(ft.in)	※2.20 (7' 3")		2.60 (8' 6")		3.10 (10' 2")		Remark
			Weight	kg(lb)	750 (1650)	810 (1790)	890 (1960)		
Bucket digging Force	SAE	kN	108.6 [118.4]	108.6 [118.4]	108.6 [118.4]	108.6 [118.4]	108.6 [118.4]	[ ]: Power Boost	
		kgf lbf	11,070 [12,080] 24,410 [26,630]	11,070 [12080] 24,410 [26630]	11,070 [12080] 24,410 [26630]	11,070 [12080] 24,410 [26630]			
	ISO	kN	124.5 [135.9]	124.5 [135.9]	124.5 [135.9]	124.5 [135.9]	124.5 [135.9]		
		kgf lbf	12,700 [13,850] 28,000 [30,550]	12,700 [13850] 28,000 [30550]	12,700 [13850] 28,000 [30550]	12,700 [13850] 28,000 [30550]	12,700 [13850] 28,000 [30550]		
Arm crowd Force	SAE	kN	85.2 [93.0]	75.0 [81.8]	67.4 [73.5]	67.4 [73.5]	67.4 [73.5]	[ ]: Power Boost	
		kgf lbf	8,690 [9,480] 19,160 [20,900]	7,650 [8350] 16,870 [18400]	6,870 [7490] 15,150 [16530]	6,870 [7490] 15,150 [16530]	6,870 [7490] 15,150 [16530]		
	ISO	kN	89.0 [97.1]	77.6 [84.6]	69.4 [75.7]	69.4 [75.7]	69.4 [75.7]		
		kgf lbf	9,080 [9,910] 20,020 [21,840]	7,910 [8630] 17,440 [19030]	7,080 [7720] 15,610 [17030]	7,080 [7720] 15,610 [17030]	7,080 [7720] 15,610 [17030]		

Note : Arm weight including bucket cylinder and linkage.    ※ Standard arm

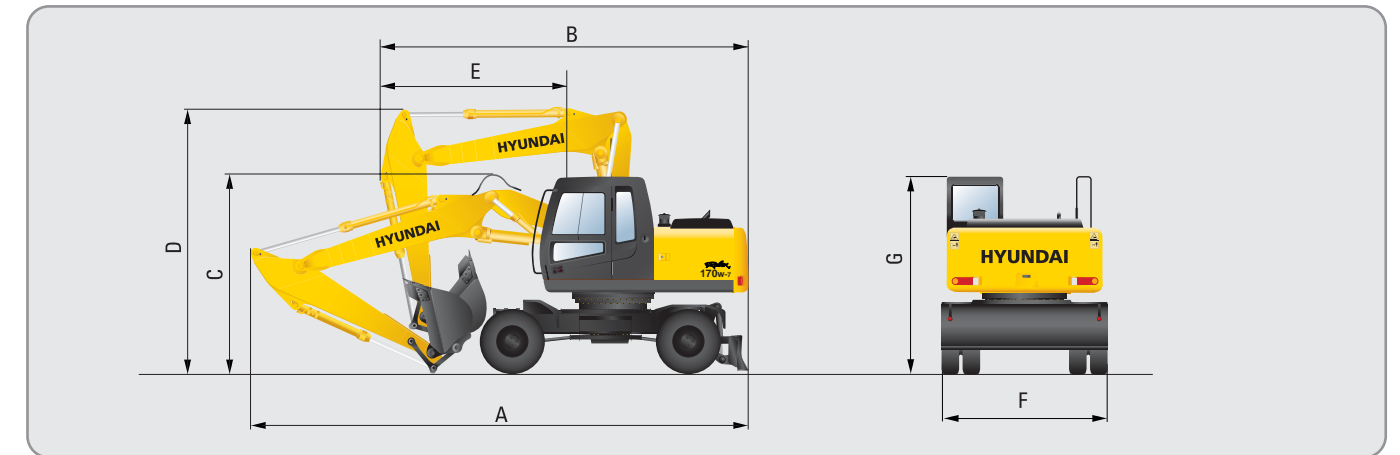
## Dimensions R170W-7 Mono boom



	mm (ft · in)		
Mono Boom	※5,100(16' 9")		
Arm	※2,200 (7' 3")	2,600 (8' 6")	3,100 (11' 1")
<b>A</b> Overall length of shipping position	8,610 (28' 3")	8,730 (28' 8")	8,770 (28' 9")
<b>B</b> Overall length of traveling position	8,510 (27' 11")	8,600 (28' 3")	8,440 (27' 8")
<b>C</b> Height of attachment (shipping position)	3,040 (9' 12")	2,970 (9' 9")	3,140 (10' 4")
<b>D</b> Height of attachment (traveling position)	3,610 (11' 10")	3,980 (13' 1")	3,900 (12' 10")
<b>F</b> Overall width	2,500 (8' 2")	2,500 (8' 2")	2,500 (8' 2")
<b>G</b> Height of cabin	3,150 (10' 4")	3,150 (10' 4")	3,150 (10' 4")

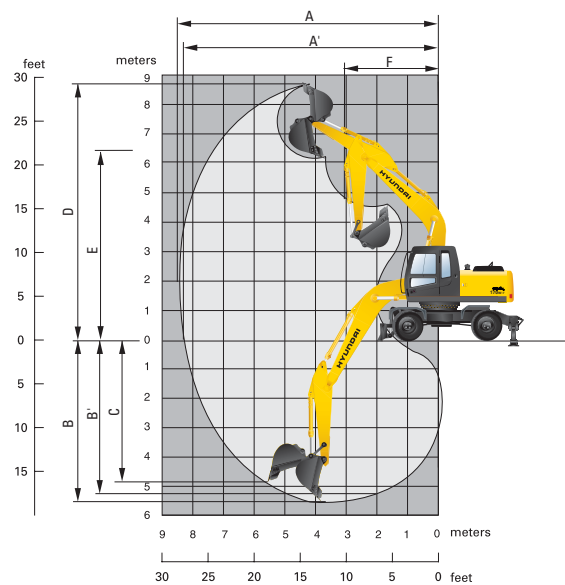
※Standard equipment

## Dimensions R170W-7 Hydraulic adjustable boom



	mm (ft · in)		
Hydraulic adjustable Boom	5,100(16' 9")		
Arm	2,200 (7' 3")		2,600 (8' 6")
<b>A</b> Overall length of shipping position	8,600 (28' 3")		8,750 (28' 8")
<b>B</b> Overall length of traveling position	6,600 (21' 8")		6,590 (21' 7")
<b>C</b> Height of attachment (shipping position)	2,870 (9' 5")		2,910 (9' 7")
<b>D</b> Height of attachment (traveling position)	3,980 (13' 1")		3,960 (13' 0")
<b>E</b> End of attachment to steering wheel	3,300 (10' 10")		3,300 (10' 10")
<b>F</b> Overall width	2,500 (8' 2")		2,500 (8' 2")
<b>G</b> Height of cabin	3,150 (10' 4")		3,150 (10' 4")

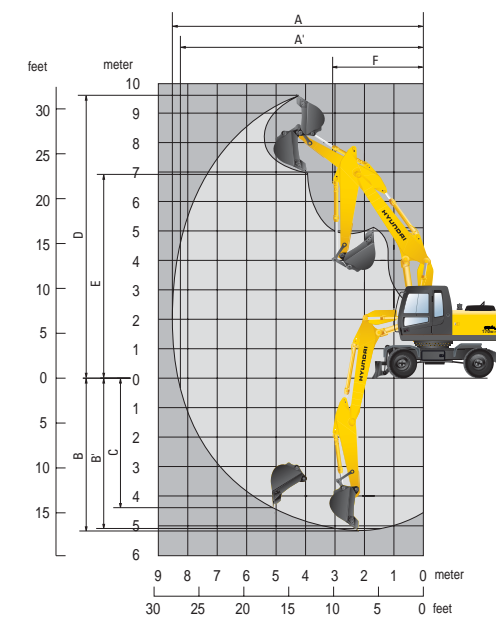
## Working ranges



	mm (ft · in)		
Boom length	※5,100 (16' 9")		
Arm length	※2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
<b>A</b> Max. digging reach	8,690 (28' 6")	9,030 (29' 8")	9,450 (31' 0")
<b>A'</b> Max. digging reach on ground	8,480 (27' 10")	8,820 (28' 11")	9,250 (30' 4")
<b>B</b> Max. digging depth	5,420 (17' 9")	5,820 (19' 1")	6,320 (20' 9")
<b>B'</b> Max. digging depth (8' level)	5,200 (17' 1")	5,610 (18' 5")	6,130 (20' 1")
<b>C</b> Max. vertical wall digging depth	4,890 (16' 1")	5,240 (17' 2")	5,540 (18' 2")
<b>D</b> Max. digging height	8,990 (29' 6")	9,110 (29' 11")	9,220 (30' 3")
<b>E</b> Max. dumping height	6,350 (20' 10")	6,480 (21' 3")	6,620 (21' 9")
<b>F</b> Min. swing radius	3,180 (10' 5")	3,180 (10' 5")	3,180 (10' 5")

※Standard Equipment

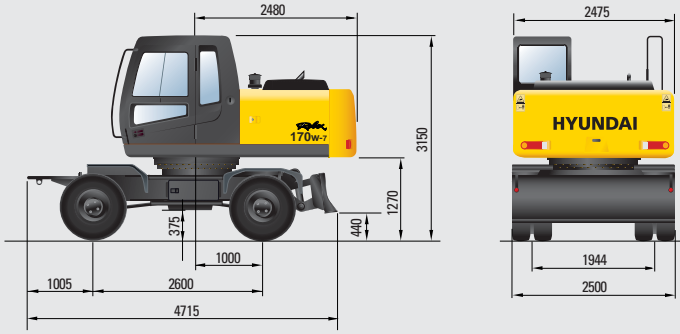
## Working ranges



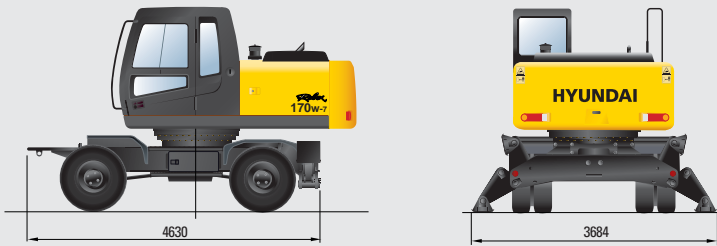
	mm (ft · in)	
Boom length	5,100(16' 9")	
Arm length	2,200 (7' 3")	2,600 (8' 6")
<b>A</b> Max. digging reach	8,600 (28' 3")	9,120 (29' 11")
<b>A'</b> Max. digging reach on ground	8,370 (27' 6")	8,910 (29' 3")
<b>B</b> Max. digging depth	5,220 (17' 2")	5,600 (18' 4")
<b>B'</b> Max. digging depth (8' level)	5,110 (16' 9")	5,500 (18' 1")
<b>C</b> Max. vertical wall digging depth	4,430 (14' 6")	4,790 (15' 9")
<b>D</b> Max. digging height	9,640 (31' 8")	9,850 (32' 4")
<b>E</b> Max. dumping height	6,930 (22' 9")	7,140 (23' 5")
<b>F</b> Min. swing radius	3,150 (10' 4")	2,970 (9' 9")



With rear dozer and front rest



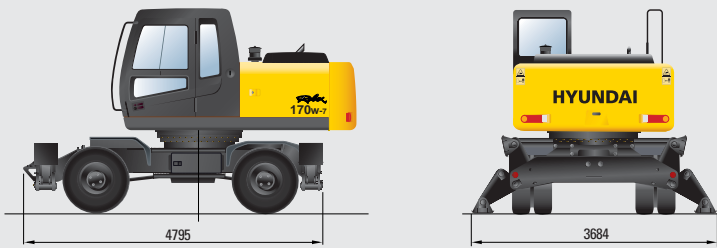
With rear outrigger and front rest



With rear dozer and front outrigger



With rear and front outrigger



With rear outrigger and front dozer



## Lifting capacities R170W-7 Mono boom

Rating over-front Rating over-side or 360 degree

· Boom : 5.10m(16' 9") , · Arm : 2.20m(7' 3") · Bucket : 0.76m<sup>3</sup>(0.99yd<sup>3</sup>) SAE heaped · Rear dozer blade down with 2750kg(6060lb) CWT

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)
7.5 m 25 ft	kg lb									*3380 *7450	2920 6440	6.09 (20.0)
6.0 m 20 ft	kg lb							*3150 *6940	2870 6330	*3340 *7360	2050 4520	7.32 (24.0)
4.5m 15 ft	kg lb					*4420 *9740	*4420 *9740	*3880 *8550	2820 6220	*3380 *7450	1680 3700	8.01 (26.3)
3.0 m 10 ft	kg lb			*9080 *20020	7960 17550	*5600 *12350	4250 9370	*4370 *9630	2670 5890	3390 7470	1510 3330	8.33 (27.3)
1.5 m 5 ft	kg lb					*6690 *14750	3910 8620	*4870 *10740	2520 5560	3350 7390	1470 3240	8.32 (27.3)
Ground Line	kg lb			*7220 *15920	7040 15520	*7190 *15850	3720 8200	*5160 *11380	2410 5310	3560 7850	1560 3440	7.99 (26.2)
-1.5 m -5 ft	kg lb	*7210 *15900	*7210 *15900	*10350 *22820	7090 15630	*6990 *15410	3680 8110	*5010 *11050	2380 5250	*3590 *7910	1840 4060	7.28 (23.9)
-3.0 m -10 ft	kg lb	*11320 *24960	*11320 *24960	*8600 *18960	7270 16030	*5960 *13140	3760 8290			*3290 *7250	2570 5670	6.02 (19.8)

· Boom : 5.10m(16' 9") , · Arm : 2.60m(8' 6") · Bucket : 0.76m<sup>3</sup>(0.99yd<sup>3</sup>) SAE heaped · Rear dozer blade down with 2750kg(6060lb) CWT

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)		7.5 m(25 ft)		Capacity	Reach	
														m (ft)
7.5 m 25 ft	kg lb											*3070 *6770	2560 5640	6.58 (21.6)
6.0 m 20 ft	kg lb							*2980 *6570	2920 6440			*3070 *6770	1860 4100	7.71 (25.3)
4.5m 15 ft	kg lb							*3570 *7870	2830 6240			*3130 *6900	1530 3370	8.36 (27.4)
3.0 m 10 ft	kg lb			*7970 *17570	*7970 *17570	*5150 *11350	4290 9460	*9020 *5890	*2730 *6020	1780 3920	3150 6940	1380 3040	8.67 (28.4)	
1.5 m 5 ft	kg lb			*7190 *15850	*7190 *15850	*6360 *14020	3920 8640	*4660 *10270	2500 5510	*3400 *7500	1700 3750	1340 2950	8.66 (28.4)	
Ground Line	kg lb			*7730 *17040	6980 15390	*7040 *15520	3690 8140	*5040 *11110	2370 5220	*2960 *6530	1650 3640	3280 7230	1410 3110	8.34 (27.4)
-1.5 m -5 ft	kg lb	*6760 *14900	*6760 *14900	*10570 *23300	6970 15370	*7050 *15540	3610 7960	*5040 *11110	2320 5110			*3450 *7610	1630 3590	7.67 (25.2)
-3.0 m -10 ft	kg lb	*9900 *21830	*9900 *21830	*9260 *20410	7110 15670	*6290 *13870	3650 8050	*4320 *9520	2360 5200			*3320 *7320	2200 4850	6.51 (21.4)
-4.5m -15 ft	kg lb			*6310 *13910	*6310 *13910									

· Boom : 5.10m(16' 9") , · Arm : 3.10m(11' 1") · Bucket : 0.76m<sup>3</sup>(0.99yd<sup>3</sup>) SAE heaped · Rear dozer blade down with 2750kg(6060lb) CWT

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)		7.5 m(25 ft)		Capacity	Reach	
														m (ft)
7.5 m 25 ft	kg lb											*2730 *6020	2210 4870	7.15 (23.5)
6.0 m 20 ft	kg lb							*2750 *6060	*2750 *6060			*2770 *6110	1640 3620	8.19 (26.9)
4.5m 15 ft	kg lb							*3180 *7010	2860 6310	*2120 *4670	1850 4080	*2840 *6260	1370 3020	8.80 (28.9)
3.0 m 10 ft	kg lb			*6670 *14700	*6670 *14700	*4600 *10140	4380 9660	*3750 *8270	2690 5930	*2970 *6550	1780 3920	2890 6370	1230 2710	9.09 (29.8)
1.5 m 5 ft	kg lb			*9920 *21870	7470 16470	*5920 *13050	3960 8730	*4380 *9660	2500 5510	*3610 *7960	1680 3700	2850 6280	1190 2620	9.08 (29.8)
Ground Line	kg lb	*4120 *9080	*4120 *9080	*8310 *18320	6970 15370	*6810 *15010	3680 8110	*4870 *10740	2340 5160	3800 8380	1610 3550	2980 6570	1240 2730	8.78 (28.8)
-1.5 m -5 ft	kg lb	*6330 *13960	*6330 *13960	*10140 *22350	6870 15150	*7040 *15520	3550 7830	*5020 *11070	2260 4980			*3270 *7210	1420 3130	8.15 (26.7)
-3.0 m -10 ft	kg lb	*8880 *19580	*8880 *19580	*9900 *21830	6950 15320	*6570 *14480	3550 7830	*4630 *10210	2270 5000			*3280 *7230	1840 4060	7.09 (23.3)
-4.5m -15 ft	kg lb	*12300 *27120	*12300 *27120	*7530 *16600	7210 15900	*5010 *11050	3700 8160							

NOTES  
 1. Lifting capacity is based on SAE J1097 and 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 located on the back of the bucket.  
 4. (\*) indicates load limited by hydraulic capacity.

