



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(7500 kcal/hr, 30000BTU/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
- Water separator & Fuel pre-filter, fuel line
- Boom holding system
- Arm holding system
- Counterweight (2750kg, 6060lb)
- mono boom (5.1m, 16' 9")
- Arm (2.2m, 7' 3")
- Am/Fm radio and cassette
  - Radio remote 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 - 14PR)
- Travel alarm

### Optional Equipment

#### Air-conditioner (5000kcal/hr, 20000BTU/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 (cramshell, etc)
- Accumulator, work equipment lowering
- 12 volt power supply (DC-DC converter)
- Electric. transducer

#### 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>)

#### Cabin lights

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

#### 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)

**Robex** NEW 7 SERIES

## WHEELED EXCAVATOR

# 170W-7

Mitsubishi S6S-DT Engine : 94 kW/ 126HP  
 Operating weight : 16200~17970 kg (35710~39620 lb)  
 Bucket capacity, SAE : 0.39 ~ 1.05m<sup>3</sup> (0.51 ~ 1.37yd<sup>3</sup>)

**Tier II Engine**



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 rounded off to nearest pounds or inches.

**HYUNDAI**  
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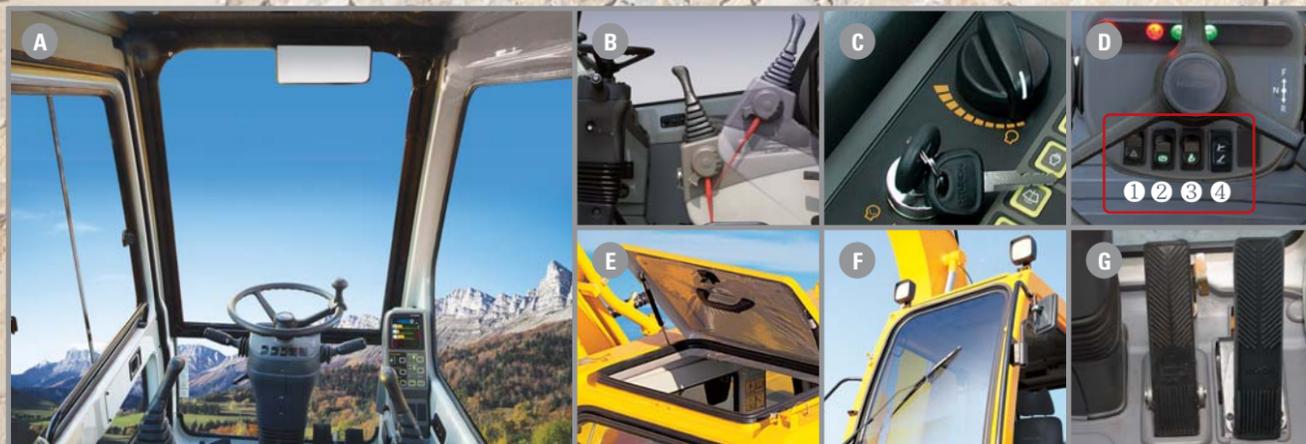
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Photo may include optional equipment.

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

# HYUNDAI Wheeled Excavator 7 Series

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

# 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.



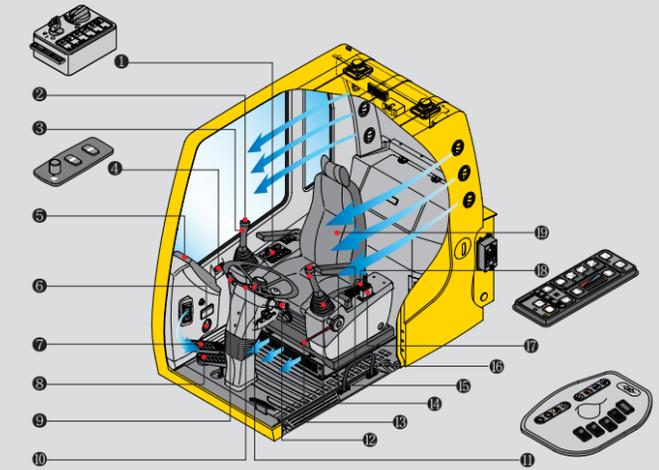
### Low noise design

- 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.

- |       |   |
|-------|---|
| Left  | • Power boost<br>• One touch deceleration |
| Right | • Horn<br>• Optional                      |



### Deluxe Cassette and Remote Radio Control



### 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.



### 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.

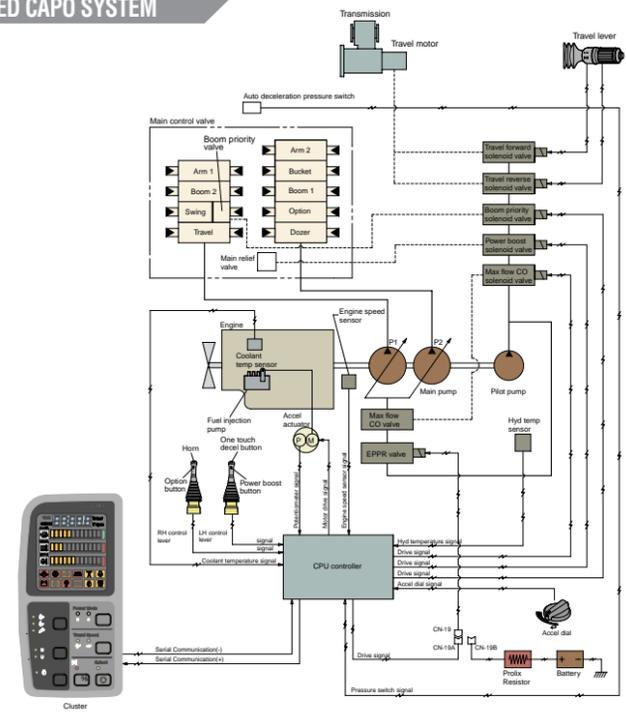


### Adjustable Steering Column

# Advanced Hydraulic System



## ADVANCED CAPO SYSTEM



### 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 cavitation.

### 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 850 rpm. 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

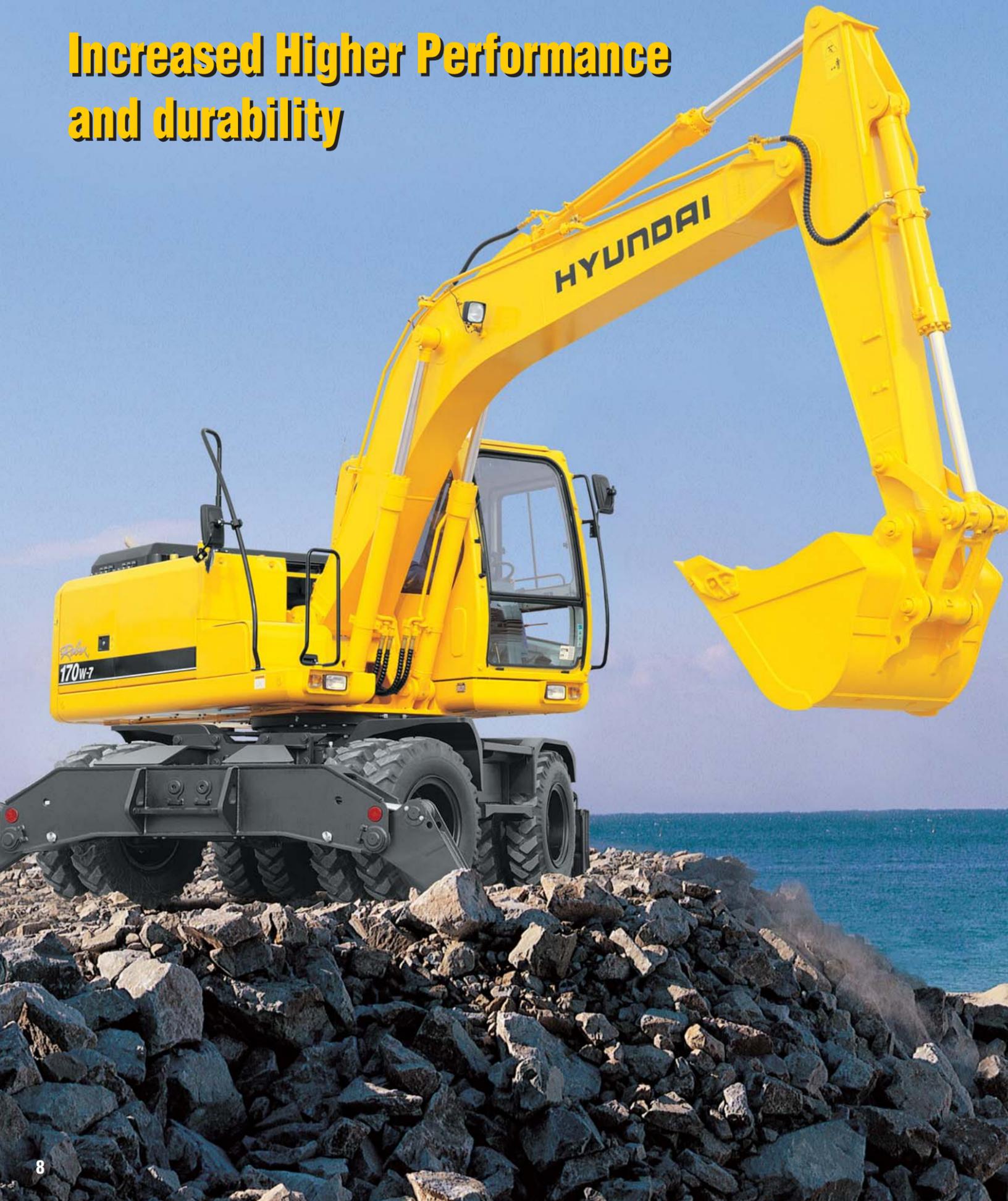
When the power boost system is activated, digging power increases about 10%. It is especially useful when extra power is temporarily needed, for instance, when digging hard earth and rock, or if the bucket teeth are stopped by a stubborn tree root.

### 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 Preciser 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

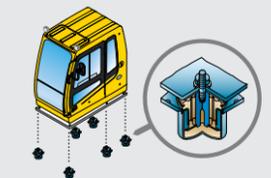
The compact size of the engine makes it easier to service than other engines. The low engine height allows easy access for maintenance due to a side-mounted, gear-driven camshaft.

## 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.



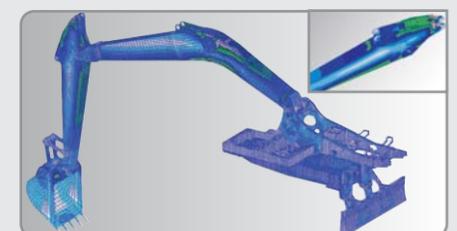
### Large Capacity Fuel and Hydraulic Tank

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



### Easy to Access and 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 aircooled	
Rated flywheel horse power	SAE	J1995 (gross)	126 HP (94 kW) at 2100 rpm
		J1345 (net)	116 HP (87 kW) at 2100 rpm
	DIN	6271 (gross)	128 PS (94 kW) at 2100 rpm
		(net)	118 PS (87 kW) at 2100 rpm
Max. torque		42.5 kgf.m(307 lbf.ft) at 1500 rpm	
Bore x stroke		94 x 120 mm (3.70" x 4.72")	
Piston displacement		4996 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> (4690 psi)
Travel	330 kgf/cm <sup>2</sup> (4690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm <sup>2</sup> (5120 psi)
Swing circuit	240 kgf/cm <sup>2</sup> (3410 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (570 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x rod x stroke	Boom : 2-115 × 80 × 1090 mm (4.5" × 3.1" × 42.9")
	Arm : 1-120 × 85 × 1340 mm (4.7" × 3.3" × 52.8")
	Bucket : 1-115 × 80 × 950 mm (4.5" × 3.1" × 37.4")
	Blade : 2-110 × 75 × 235 mm (4.3" × 3.0" × 9.3")
	Outrigger : 2-125 × 75 × 475 mm (4.9" × 3.0" × 18.7")
	2-PCS 1st : 2-115 × 80 × 960mm (4.5" × 3.1" × 37.8") 2nd : 1-160 × 95 × 650mm (6.3" × 3.5" × 25.6")

## Drives & Brakes

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

Max. drawbar pull	11000 kgf (24300 lbf)
Travel speed	1st (forward) / (reverse) 9.5 (5.9)
	2nd (forward) / (reverse) 30 (18.6)
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	10.00-20-14PR, 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, orbitrol type steering system actuates on front wheels through the steering cylinders.

Min. turning radius	6100 mm(20' 0")
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## 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)	14	3.7
	(Rear)	14	3.7
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 2200mm (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.

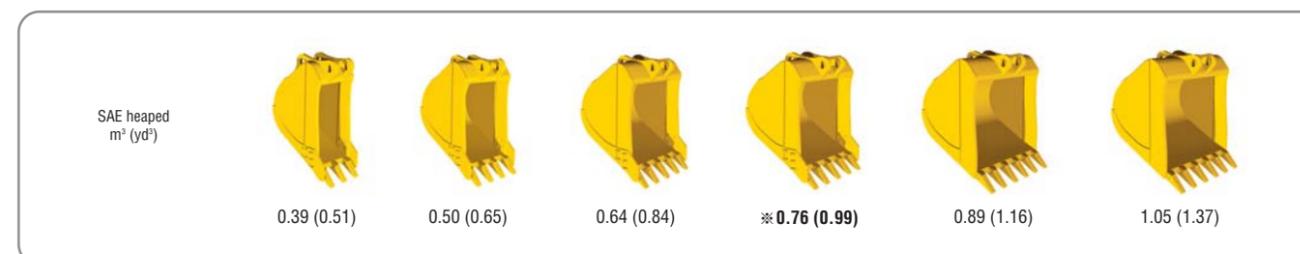
Major component weight	
Upperstructure	4,490kg (9,900 lb)
Counterweight	2,750kg (6,060 lb)
Mono boom(with arm cylinder)	1,240kg (2,730 lb)
Hydraulic adjustable boom (with arm cylinder)	1,780kg (3,920 lb)

## 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



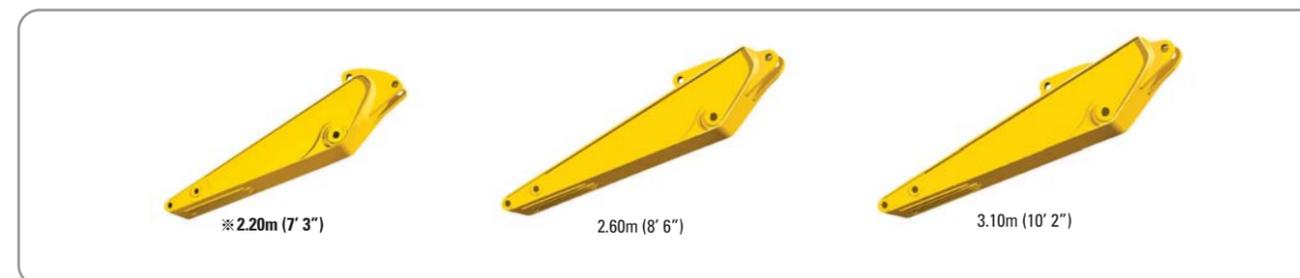
Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)		Weight kg (lb)	Recommendation mm(ft.in)				
SAE heaped	CECE heaped	Without side cutters	With side cutters		Boom Arm	* 5.1 (16' 9") 2.2 (7' 3")	Mono boom 2.6 (8' 6") 3.1 (10' 2")	5.1(16' 9") Hydraulic Adjustable boom 2.2 (7' 3") 2.6 (8' 6")	
0.39 (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)	1040 (40.9)	510 (1120)	●	●	■	●	■
* 0.76 (0.99)	0.65 (0.85)	1060 (41.7)	1180 (46.5)	570 (1260)	●	■	■	●	■
0.89 (1.16)	0.77 (1.01)	1220 (48.0)	1340 (52.8)	610 (1340)	■	▲	-	■	▲
1.05 (1.37)	0.90 (1.18)	1400 (55.1)	1520 (59.8)	680 (1500)	▲	-	-	▲	-

\*: Standard backhoe 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.



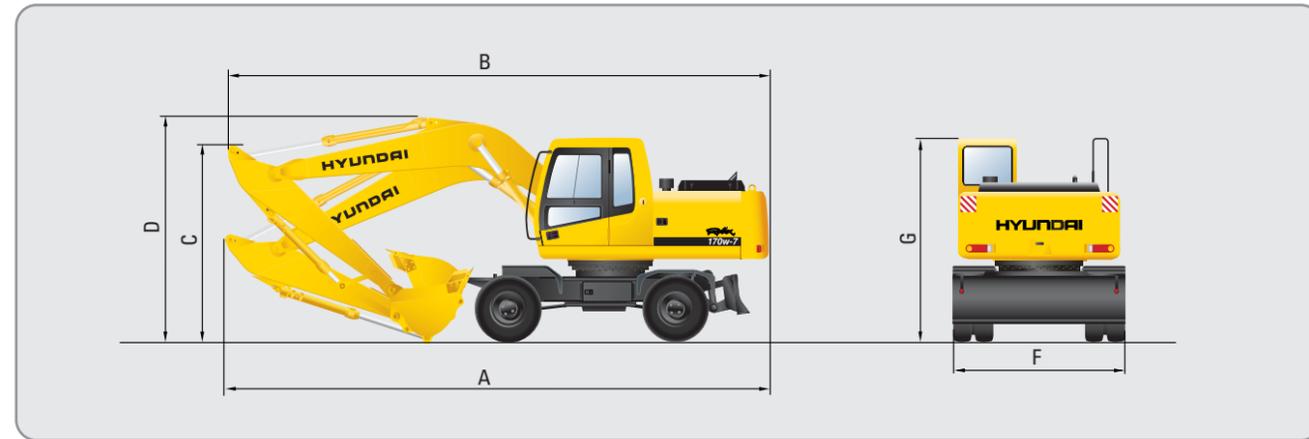
## Digging force

Arm	Length	m(ft.in)	Digging Force			Remark
			Weight	kg(lb)	SAE	
Bucket digging Force	2.20 (7' 3")	750 (1650)	SAE	kN	108.6 [118.4]	[ ]: Power Boost
			kgf	11070 [12080]		
	lbf	24410 [26630]				
	2.60 (8' 6")	SAE	kN	108.6 [118.4]		
		kgf	11070 [12080]			
	lbf	24410 [26630]				
3.10 (10' 2")	SAE	kN	108.6 [118.4]			
	kgf	11070 [12080]				
Arm crowd Force	2.20 (7' 3")	750 (1650)	SAE	kN	85.2 [93.0]	[ ]: Power Boost
			kgf	8690 [9480]		
	lbf	19160 [20900]				
	2.60 (8' 6")	SAE	kN	75.0 [81.8]		
		kgf	7650 [8350]			
	lbf	16870 [18400]				
3.10 (10' 2")	SAE	kN	67.4 [73.5]			
	kgf	6870 [7490]				
lbf	15150 [16530]					

Note : Arm weight including bucket cylinder and linkage.

\* Standard arm

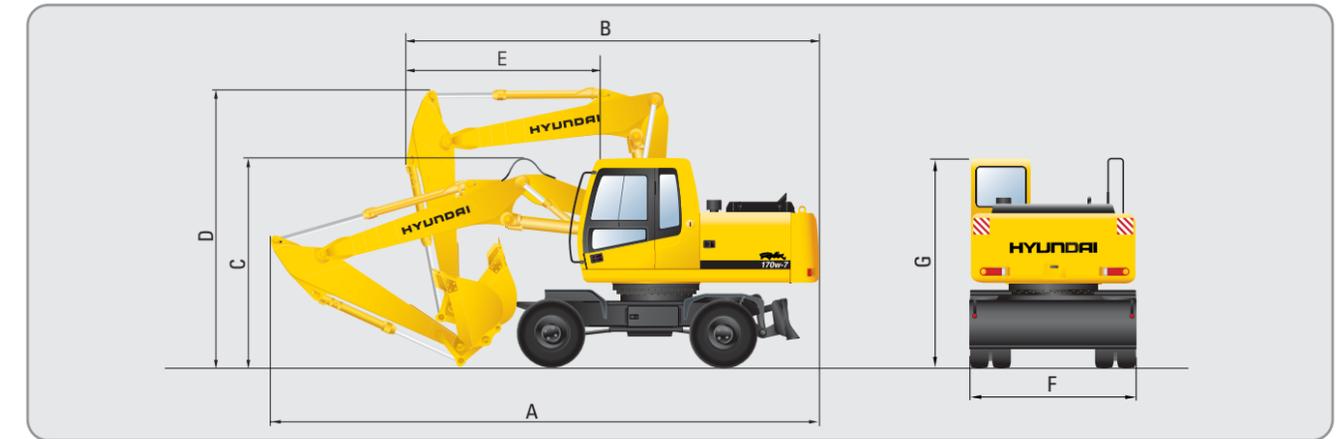
## Dimensions R170W-7 Mono boom



		mm (ft · in)		
	Mono Boom		※5100(16' 9")	
	Arm	※2200 (7' 3")	2600 (8' 6")	3100 (11' 1")
A	Overall length of shipping position	8610 (28' 3")	8730 (28' 8")	8770 (28' 9")
B	Overall length of traveling position	8510 (27' 11")	8600 (28' 3")	8440 (27' 8")
C	Height of attachment (shipping position)	3040 (9' 12")	2970 (9' 9")	3140 (10' 4")
D	Height of attachment (traveling position)	3610 (11' 10")	3980 (13' 1")	3900 (12' 10")
F	Overall width	2500 (8' 2")	2500 (8' 2")	2500 (8' 2")
G	Height of cabin	3150 (10' 4")	3150 (10' 4")	3150 (10' 4")

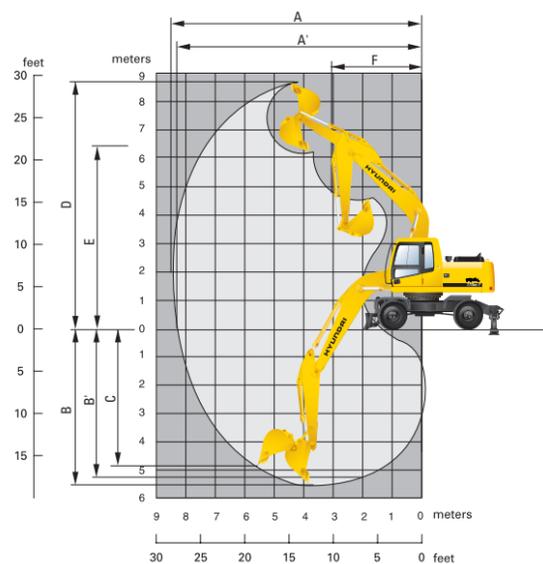
※ Standard equipment

## Dimensions R170W-7 Hydraulic adjustable boom



		5100(16' 9")	
	Hydraulic adjustable Boom		
	Arm	2200 (7' 3")	2600 (8' 6")
A	Overall length of shipping position	8600 (28' 3")	8750 (28' 8")
B	Overall length of traveling position	6600 (21' 8")	6590 (21' 7")
C	Height of attachment (shipping position)	2870 (9' 5")	2910 (9' 7")
D	Height of attachment (traveling position)	3980 (13' 1")	3960 (13' 0")
E	End of attachment to steering wheel	3300 (10' 10")	3300 (10' 10")
F	Overall width	2500 (8' 2")	2500 (8' 2")
G	Height of cabin	3150 (10' 4")	3150 (10' 4")

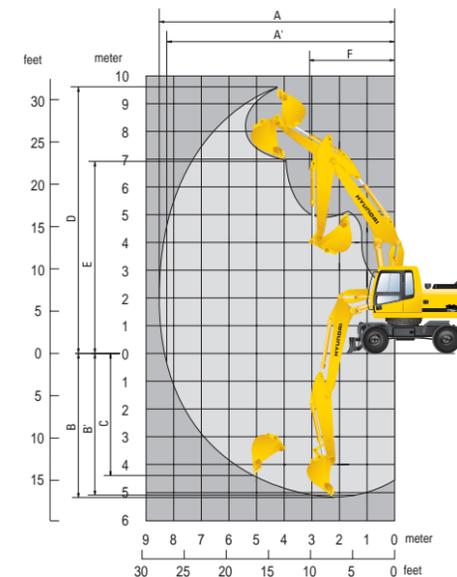
## Working ranges



		mm (ft · in)		
	Boom length	※ 5100 (16' 9")		
	Arm length	※ 2200 (7' 3")	2600 (8' 6")	3100 (10' 2")
A	Max. digging reach	8690 (28' 6")	9030 (29' 8")	9450 (31' 0")
A'	Max. digging reach on ground	8480 (27' 10")	8820 (28' 11")	9250 (30' 4")
B	Max. digging depth	5420 (17' 9")	5820 (19' 1")	6320 (20' 9")
B'	Max. digging depth (8' level)	5200 (17' 1")	5610 (18' 5")	6130 (20' 1")
C	Max. vertical wall digging depth	4890 (16' 1")	5240 (17' 2")	5540 (18' 2")
D	Max. digging height	8990 (29' 6")	9110 (29' 11")	9220 (30' 3")
E	Max. dumping height	6350 (20' 10")	6480 (21' 3")	6620 (21' 9")
F	Min. swing radius	3180 (10' 5")	3180 (10' 5")	3180 (10' 5")

※ Standard Equipment

## Working ranges



		5100(16' 9")	
	Boom length		
	Arm length	2200 (7' 3")	2600 (8' 6")
A	Max. digging reach	8600 (28' 3")	9120 (29' 11")
A'	Max. digging reach on ground	8370 (27' 6")	8910 (29' 3")
B	Max. digging depth	5220 (17' 2")	5600 (18' 4")
B'	Max. digging depth (8' level)	5110 (16' 9")	5500 (18' 1")
C	Max. vertical wall digging depth	4430 (14' 6")	4790 (15' 9")
D	Max. digging height	9640 (31' 8")	9850 (32' 4")
E	Max. dumping height	6930 (22' 9")	7140 (23' 5")
F	Min. swing radius	3150 (10' 4")	2970 (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(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		Capacity	Reach	
7.5 m	kg									*3380	2920	6.09
25.0 ft	lb									<b>*7450</b>	<b>6440</b>	<b>(20.0)</b>
6.0 m	kg							*3150	2870	*3340	2050	7.32
20.0 ft	lb							<b>*6940</b>	<b>6330</b>	<b>*7360</b>	<b>4520</b>	<b>(24.0)</b>
4.5m	kg					*4420	*4420	*3880	2820	*3380	1680	8.01
15.0 ft	lb					<b>*9740</b>	<b>*9740</b>	<b>*8550</b>	<b>6220</b>	<b>*7450</b>	<b>3700</b>	<b>(26.3)</b>
3.0 m	kg			*9080	7960	*5600	4250	*4370	2670	3390	1510	8.33
10.0 ft	lb			<b>*20020</b>	<b>17550</b>	<b>*12350</b>	<b>9370</b>	<b>*9630</b>	<b>5890</b>	<b>7470</b>	<b>3330</b>	<b>(27.3)</b>
1.5 m	kg					*6690	3910	*4870	2520	3350	1470	8.32
5.0 ft	lb					<b>*14750</b>	<b>8620</b>	<b>*10740</b>	<b>5560</b>	<b>7390</b>	<b>3240</b>	<b>(27.3)</b>
Ground Line	kg			*7220	7040	*7190	3720	*5160	2410	3560	1560	7.99
	lb			<b>*15920</b>	<b>15520</b>	<b>*15850</b>	<b>8200</b>	<b>*11380</b>	<b>5310</b>	<b>7850</b>	<b>3440</b>	<b>(26.2)</b>
-1.5 m	kg	*7210	*7210	*10350	7090	*6990	3680	*5010	2380	*3590	1840	7.28
-5.0 ft	lb	<b>*15900</b>	<b>*15900</b>	<b>*22820</b>	<b>15630</b>	<b>*15410</b>	<b>8110</b>	<b>*11050</b>	<b>5250</b>	<b>*7910</b>	<b>4060</b>	<b>(23.9)</b>
-3.0 m	kg	*11320	*11320	*8600	7270	*5960	3760			*3290	2570	6.02
-10.0 ft	lb	<b>*24960</b>	<b>*24960</b>	<b>*18960</b>	<b>16030</b>	<b>*13140</b>	<b>8290</b>			<b>*7250</b>	<b>5670</b>	<b>(19.8)</b>

· 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(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity	Reach	
7.5 m	kg									*3070	2560	6.58		
25.0 ft	lb									<b>*6770</b>	<b>5640</b>	<b>(21.6)</b>		
6.0 m	kg							*2980	2920	*3070	1860	7.71		
20.0 ft	lb							<b>*6570</b>	<b>6440</b>	<b>*6770</b>	<b>4100</b>	<b>(25.3)</b>		
4.5m	kg					*3570	2830			*3130	1530	8.36		
15.0 ft	lb					<b>*7870</b>	<b>6240</b>			<b>*6900</b>	<b>3370</b>	<b>(27.4)</b>		
3.0 m	kg			*7970	*7970	*5150	4290	*4090	2670	*3150	1380	8.67		
10.0 ft	lb			<b>*17570</b>	<b>*17570</b>	<b>*11350</b>	<b>9460</b>	<b>*9020</b>	<b>5890</b>	<b>*6020</b>	<b>3920</b>	<b>6940</b>	<b>3040</b>	<b>(28.4)</b>
1.5 m	kg			*7190	*7190	*6360	3920	*4660	2500	*3400	1700	3110	1340	8.66
5.0 ft	lb			<b>*15850</b>	<b>*15850</b>	<b>*14020</b>	<b>8640</b>	<b>*10270</b>	<b>5510</b>	<b>*7500</b>	<b>3750</b>	<b>6860</b>	<b>2950</b>	<b>(28.4)</b>
Ground Line	kg			*7730	6980	*7040	3690	*5040	2370	*2960	1650	3280	1410	8.34
	lb			<b>*17040</b>	<b>15390</b>	<b>*15520</b>	<b>8140</b>	<b>*11110</b>	<b>5220</b>	<b>*6530</b>	<b>3640</b>	<b>7230</b>	<b>3110</b>	<b>(27.4)</b>
-1.5 m	kg	*6760	*6760	*10570	6970	*7050	3610	*5040	2320	*3450	1630	7.67		
-5.0 ft	lb	<b>*14900</b>	<b>*14900</b>	<b>*23300</b>	<b>15370</b>	<b>*15540</b>	<b>7960</b>	<b>*11110</b>	<b>5110</b>	<b>*7610</b>	<b>3590</b>	<b>(25.2)</b>		
-3.0 m	kg	*9900	*9900	*9260	7110	*6290	3650	*4320	2360	*3320	2200	6.51		
-10.0 ft	lb	<b>*21830</b>	<b>*21830</b>	<b>*20410</b>	<b>15670</b>	<b>*13870</b>	<b>8050</b>	<b>*9520</b>	<b>5200</b>	<b>*7320</b>	<b>4850</b>	<b>(21.4)</b>		
-4.5m	kg			*6310	*6310									
-15.0 ft	lb			<b>*13910</b>	<b>*13910</b>									

· 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(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity	Reach	
7.5 m	kg									*2730	2210	7.15		
25.0 ft	lb									<b>*6020</b>	<b>4870</b>	<b>(23.5)</b>		
6.0 m	kg							*2750	*2750	*2770	1640	8.19		
20.0 ft	lb							<b>*6060</b>	<b>*6060</b>	<b>*6110</b>	<b>3620</b>	<b>(26.9)</b>		
4.5m	kg					*3180	2860	*2120	1850	*2840	1370	8.80		
15.0 ft	lb					<b>*7010</b>	<b>6310</b>	<b>*4670</b>	<b>4080</b>	<b>*6260</b>	<b>3020</b>	<b>(28.9)</b>		
3.0 m	kg			*6670	*6670	*4600	4380	*3750	2690	*2970	1780	2890	1230	9.09
10.0 ft	lb			<b>*14700</b>	<b>*14700</b>	<b>*10140</b>	<b>9660</b>	<b>*8270</b>	<b>5930</b>	<b>*6550</b>	<b>3920</b>	<b>6370</b>	<b>2710</b>	<b>(29.8)</b>
1.5 m	kg			*9920	7470	*5920	3960	*4380	2500	*3610	1680	2850	1190	9.08
5.0 ft	lb			<b>*21870</b>	<b>16470</b>	<b>*13050</b>	<b>8730</b>	<b>*9660</b>	<b>5510</b>	<b>*7960</b>	<b>3700</b>	<b>6280</b>	<b>2620</b>	<b>(29.8)</b>
Ground Line	kg	*4120	*4120	*8310	6970	*6810	3680	*4870	2340	3800	1610	2980	1240	8.78
	lb	<b>*9080</b>	<b>*9080</b>	<b>*18320</b>	<b>15370</b>	<b>*15010</b>	<b>8110</b>	<b>*10740</b>	<b>5160</b>	<b>8380</b>	<b>3550</b>	<b>6570</b>	<b>2730</b>	<b>(28.8)</b>
-1.5 m	kg	*6330	*6330	*10140	6870	*7040	3550	*5020	2260	*3270	1420	8.15		
-5.0 ft	lb	<b>*13960</b>	<b>*13960</b>	<b>*22350</b>	<b>15150</b>	<b>*15520</b>	<b>7830</b>	<b>*11070</b>	<b>4980</b>	<b>*7210</b>	<b>3130</b>	<b>(26.7)</b>		
-3.0 m	kg	*8880	*8880	*9900	6950	*6570	3550	*4630	2270	*3280	1840	7.09		
-10.0 ft	lb	<b>*19580</b>	<b>*19580</b>	<b>*21830</b>	<b>15320</b>	<b>*14480</b>	<b>7830</b>	<b>*10210</b>	<b>5000</b>	<b>*7230</b>	<b>4060</b>	<b>(23.3)</b>		
-4.5m	kg	*12300	*12300	*7530	7210	*5010	3700							
-15.0 ft	lb	<b>*27120</b>	<b>*27120</b>	<b>*16600</b>	<b>15900</b>	<b>*11050</b>	<b>8160</b>							

NOTES  
 1. Lifting capacity are 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.

## Lifting capacities R170W-7 Mono boom



• 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 up with 2750kg(6060lb) CWT

Load point height m(ft)	Load radius										At max. reach	
	1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		Capacity		Reach	
											m (ft)	
7.5 m 25.0 ft	kg									*3380	2510	6.09
	lb									<b>*7450</b>	<b>5530</b>	<b>(20.0)</b>
6.0 m 20.0 ft	kg							*3150	2460	3320	1740	7.32
	lb							<b>*6940</b>	<b>5420</b>	<b>7320</b>	<b>3840</b>	<b>(24.0)</b>
4.5m 15.0 ft	kg					*4420	3950	*3880	2400	2780	1400	8.01
	lb					<b>*9740</b>	<b>8710</b>	<b>*8550</b>	<b>5290</b>	<b>6130</b>	<b>3090</b>	<b>(26.3)</b>
3.0 m 10.0 ft	kg			*9080	6590	*5600	3600	*4370	2260	2550	1250	8.33
	lb			<b>*20020</b>	<b>14530</b>	<b>*12350</b>	<b>7940</b>	<b>*9630</b>	<b>4980</b>	<b>5620</b>	<b>2760</b>	<b>(27.3)</b>
1.5 m 5.0 ft	kg					*6690	3270	4220	2110	2510	1210	8.32
	lb					<b>*14750</b>	<b>7210</b>	<b>9300</b>	<b>4650</b>	<b>5530</b>	<b>2670</b>	<b>(27.3)</b>
Ground Line	kg			*7220	5720	6510	3090	4100	2010	2660	1290	7.99
	lb			<b>*15920</b>	<b>12610</b>	<b>14350</b>	<b>6810</b>	<b>9040</b>	<b>4430</b>	<b>5860</b>	<b>2840</b>	<b>(26.2)</b>
-1.5 m -5.0 ft	kg	*7210	*7210	*10350	5780	6460	3050	4060	1980	3100	1530	7.28
	lb	<b>*15900</b>	<b>*15900</b>	<b>*22820</b>	<b>12740</b>	<b>14240</b>	<b>6720</b>	<b>8950</b>	<b>4370</b>	<b>6830</b>	<b>3370</b>	<b>(23.9)</b>
-3.0 m -10.0 ft	kg	*11320	*11320	*8600	5940	*5960	3130			*3290	2160	6.02
	lb	<b>*24960</b>	<b>*24960</b>	<b>*18960</b>	<b>13100</b>	<b>*13140</b>	<b>6900</b>			<b>*7250</b>	<b>4760</b>	<b>(19.8)</b>

• 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 up with 2750kg(6060lb) CWT

Load point height m(ft)	Load radius										At max. reach			
	1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach	
													m (ft)	
7.5 m 25.0 ft	kg											*3070	2200	6.58
	lb											<b>*6770</b>	<b>4850</b>	<b>(21.6)</b>
6.0 m 20.0 ft	kg							*2980	2500	3030	1560	3120	1470	8.45
	lb							<b>*6570</b>	<b>5510</b>	<b>6680</b>	<b>3440</b>	<b>6880</b>	<b>3240</b>	<b>(27.7)</b>
4.5m 15.0 ft	kg					*3570	2420			2570	1270	3120	1330	8.75
	lb					<b>*7870</b>	<b>5340</b>			<b>5670</b>	<b>2800</b>	<b>6880</b>	<b>2930</b>	<b>(28.7)</b>
3.0 m 10.0 ft	kg			*7970	6860	*5150	3640	*4090	2260	*2730	1480	2360	1130	8.67
	lb			<b>*17570</b>	<b>15120</b>	<b>*11350</b>	<b>8020</b>	<b>*9020</b>	<b>4980</b>	<b>*6020</b>	<b>3260</b>	<b>5200</b>	<b>2490</b>	<b>(28.4)</b>
1.5 m 5.0 ft	kg			*7190	5940	*6360	3280	4210	2090	2910	1410	2320	1090	8.66
	lb			<b>*15850</b>	<b>13100</b>	<b>*14020</b>	<b>7230</b>	<b>9280</b>	<b>4610</b>	<b>6420</b>	<b>3110</b>	<b>5110</b>	<b>2400</b>	<b>(28.4)</b>
Ground Line	kg			*7730	5670	6480	3060	4060	1970	2850	1350	2440	1150	8.34
	lb			<b>*17040</b>	<b>12500</b>	<b>14290</b>	<b>6750</b>	<b>8950</b>	<b>4340</b>	<b>6280</b>	<b>2980</b>	<b>5380</b>	<b>2540</b>	<b>(27.4)</b>
-1.5 m -5.0 ft	kg	*6760	*6760	*10570	5660	6380	2980	4000	1910			2800	1340	7.67
	lb	<b>*14900</b>	<b>*14900</b>	<b>*23300</b>	<b>12480</b>	<b>14070</b>	<b>6570</b>	<b>8820</b>	<b>4210</b>			<b>6170</b>	<b>2950</b>	<b>(25.2)</b>
-3.0 m -10.0 ft	kg	*9900	*9900	*9260	5790	*6290	3030	4050	1960			*3320	1830	6.51
	lb	<b>*21830</b>	<b>*21830</b>	<b>*20410</b>	<b>12760</b>	<b>*13870</b>	<b>6680</b>	<b>8930</b>	<b>4320</b>			<b>*7320</b>	<b>4030</b>	<b>(21.4)</b>
-4.5m -15.0 ft	kg			*6310	6090									
	lb			<b>*13910</b>	<b>13430</b>									

• 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 up with 2750kg(6060lb) CWT

Load point height m(ft)	Load radius										At max. reach			
	1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach	
													m (ft)	
7.5 m 25.0 ft	kg											*2730	1880	7.15
	lb											<b>*6020</b>	<b>4140</b>	<b>(23.5)</b>
6.0 m 20.0 ft	kg							*2750	2540	2720	1380	3120	1470	8.45
	lb							<b>*6060</b>	<b>5600</b>	<b>6000</b>	<b>3040</b>	<b>6880</b>	<b>3240</b>	<b>(27.7)</b>
4.5m 15.0 ft	kg					*3180	2450	*2120	1550	2330	1120	2570	1270	8.36
	lb					<b>*7010</b>	<b>5400</b>	<b>*4670</b>	<b>3420</b>	<b>5140</b>	<b>2470</b>	<b>5670</b>	<b>2800</b>	<b>(27.4)</b>
3.0 m 10.0 ft	kg			*6670	*6670	*4600	3720	*3750	2280	*2970	1480	2150	1000	9.09
	lb			<b>*14700</b>	<b>*14700</b>	<b>*10140</b>	<b>8200</b>	<b>*8270</b>	<b>5030</b>	<b>*6550</b>	<b>3260</b>	<b>4740</b>	<b>2200</b>	<b>(29.8)</b>
1.5 m 5.0 ft	kg			*9920	6120	*5920	3320	4210	2090	2890	1390	2110	960	9.08
	lb			<b>*21870</b>	<b>13490</b>	<b>*13050</b>	<b>7320</b>	<b>9280</b>	<b>4610</b>	<b>6370</b>	<b>3060</b>	<b>4650</b>	<b>2120</b>	<b>(29.8)</b>
Ground Line	kg	*4120	*4120	*8310	5650	6480	3050	4040	1940	2810	1310	2200	1000	8.78
	lb	<b>*9080</b>	<b>*9080</b>	<b>*18320</b>	<b>12460</b>	<b>14290</b>	<b>6720</b>	<b>8910</b>	<b>4280</b>	<b>6190</b>	<b>2890</b>	<b>4850</b>	<b>2200</b>	<b>(28.8)</b>
-1.5 m -5.0 ft	kg	*6330	*6330	*10140	5560	6330	2920	3950	1860			2490	1150	8.15
	lb	<b>*13960</b>	<b>*13960</b>	<b>*22350</b>	<b>12260</b>	<b>13960</b>	<b>6440</b>	<b>8710</b>	<b>4100</b>			<b>5490</b>	<b>2540</b>	<b>(26.7)</b>
-3.0 m -10.0 ft	kg	*8880	*8880	*9900	5630	6330	2930	3950	1860			3160	1520	7.09
	lb	<b>*19580</b>	<b>*19580</b>	<b>*21830</b>	<b>12410</b>	<b>13960</b>	<b>6460</b>	<b>8710</b>	<b>4100</b>			<b>6970</b>	<b>3350</b>	<b>(23.3)</b>
-4.5m -15.0 ft	kg	*12300	*12300	*7530	5870	*5010	3070							
	lb	<b>*27120</b>	<b>*27120</b>	<b>*16600</b>	<b>12940</b>	<b>*11050</b>	<b>6770</b>							

NOTES  
 1. Lifting capacity are 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.

## Lifting capacities R170W-7 Hydraulic adjustable boom



• 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(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach			
													m (ft)			
6.0 m 20.0 ft	kg											*3390	1990	7.39		
	lb											<b>*7470</b>	<b>4390</b>	<b>(24.2)</b>		
4.5m 15.0 ft	kg							*3920	2810			3370	1620	8.08		
	lb							<b>*8640</b>	<b>6190</b>			<b>*7430</b>	<b>3570</b>	<b>(26.5)</b>		
3.0 m 10.0 ft	kg							*5630	4240	*4370	2660	3370	1460	8.39		
	lb							<b>*12410</b>	<b>9350</b>	<b>*9630</b>	<b>5860</b>	<b>7430</b>	<b>3220</b>	<b>(27.5)</b>		
1.5 m 5.0 ft	kg							*6640	3870	*4830	2490	3340	1430	8.38		
	lb							<b>*14640</b>	<b>8530</b>	<b>*10650</b>	<b>5490</b>	<b>*7140</b>	<b>3750</b>	<b>(27.5)</b>		
Ground Line	kg							*6390	*6390	*7070	3670	*5070	2380	8.05		
	lb							<b>*14090</b>	<b>*14090</b>	<b>*15590</b>	<b>8090</b>	<b>*11180</b>	<b>5250</b>	<b>*7560</b>	<b>3350</b>	<b>(26.4)</b>
-1.5 m -5.0 ft	kg	*6490	*6490	*10000	7040	*6810	3640	*4870	2350			*3310	1800	7.35		
	lb	<b>*14310</b>	<b>*14310</b>	<b>*22050</b>	<b>15520</b>	<b>*15010</b>	<b>8020</b>	<b>*10740</b>	<b>5180</b>			<b>*7300</b>	<b>3970</b>	<b>(24.1)</b>		
-3.0 m -10.0 ft	kg					*8110	7250	*5680	3740			*2800	2520	6.11		
	lb					<b>*17880</b>	<b>15980</b>	<b>*12520</b>	<b>8250</b>			<b>*6170</b>	<b>5560</b>	<b>(20.0)</b>		

• 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(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach