



Robex 170W-7A

### 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
- Water separator & 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")
- 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
- Fuel warmer

### 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)
- Rotating piping kit
- Accumulator, work equipment lowering
- 12 volt power supply (DC-DC converter)
- Electric. transducer
- Mechanical suspension seat with heater
- Adjustable air suspension seat
- CD Player Radio

#### 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 lights

- Cabin FOPS/FOG (ISO/DIS 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)

#### Seat

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



**Robex** NEW 7A SERIES

WHEELED EXCAVATOR Applied Tier 3 Engine

# 170W-7A

We build a better future

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

■ Some of the photos may include optional equipment.

# Built for Maximum Power, Performance, Reliability.

A new chapter in construction equipment has now begun.  
Making the dream a reality.

*Robex* 170W-7A



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

## Technology in Cab Design



### 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 new 7A 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.



- 1 Wide, Comfortable Operating Space
- 2 Steel Cover Sunroof
- 3 Dial Type Engine Speed Switch and / Key Switch

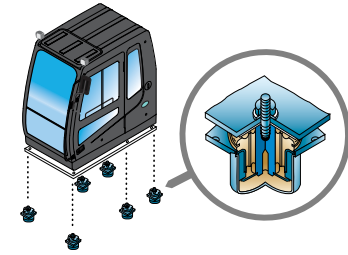
### Remote Radio Control and Deluxe Cassette



# Robex 170W-7A



**Improved Intelligent Display Instrument Panel**  
Instrument Panel is installed in front of RH console box. It is easy to check all critical systems with easy-to-read indicators.



**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.



## Operating Environment

## Maximum Protection



**▲ 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.

**◀ 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.



**Highly Sensitive Joystick and Easy Entrance**  
New joystick grips for precise control have been equipped with 4 switches.

- Left Power boost/Dummy  
One touch deceleration
- Right Horn/Optional/Dummy



**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.



**Rear Emergency Exit Window**  
Rear Exit Window is designed with easy exit for operator's safety.

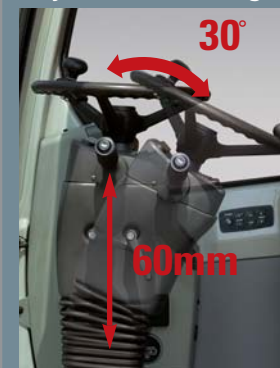


**Raise-up Wiper and Cabin Lights**  
Raise-up wiper has enhanced for the better front view. Cabin Lights enhances safety by brightly lighting the surroundings during night work(optional)

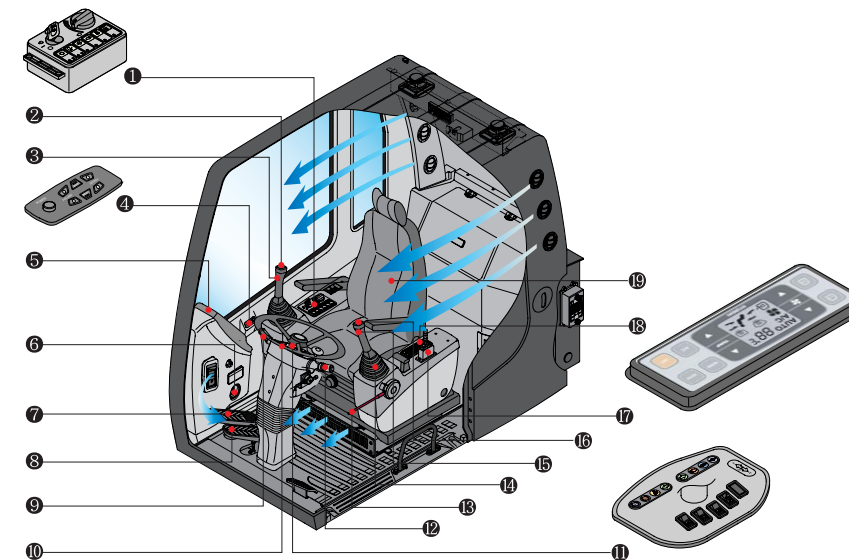


**Wide, Comfortable Operating Space**  
All the controls are designed and positioned according to the latest ergonomic research. Reinforced pillars have also been added for greater cab rigidity.

### Adjustable Steering Column



### 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



### 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.

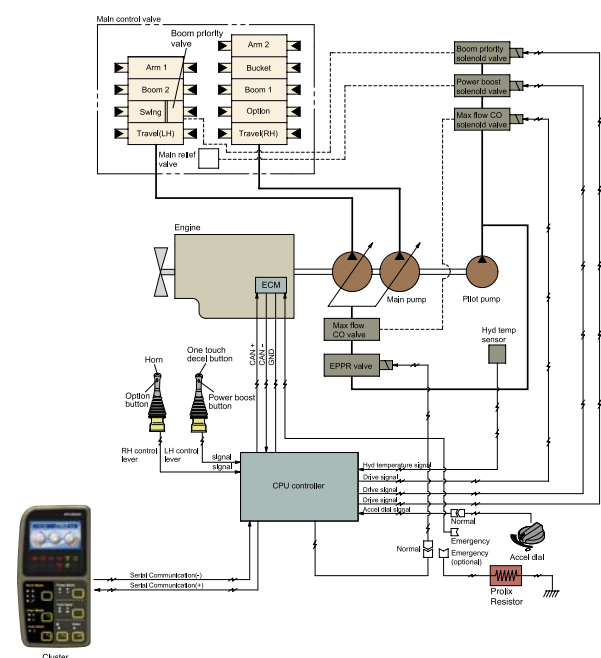


### Automatic Warming-up System

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.

## 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.

### 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.

### 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.

### 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.

### Arm Flow Regeneration System

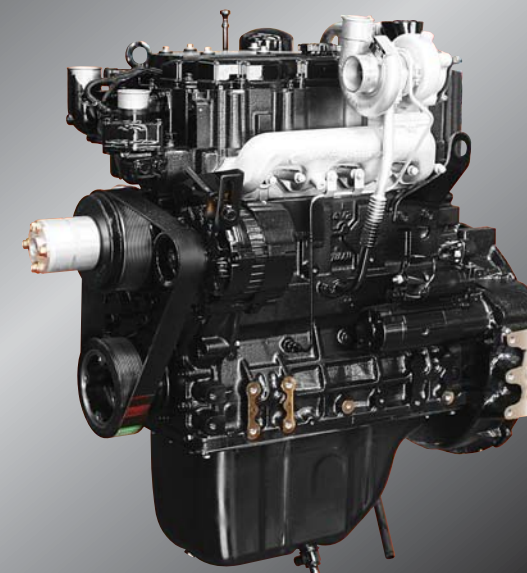
Arm flow regeneration valve provides smooth arm-in operation without cavitation.

### Hydraulic Damper in Travel Pedal

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

## Mitsubishi D04FD-TAA Engine

The four cylinders turbocharged and charged air cooled, engine is built for power, reliability and economy. This engine meets EPA tier 3 and EUstage 3A emission regulation.



### Reliability You Can Depend On

When you have a tough job to do you need the power precision and flexibility of Mitsubishi D04FD-TAA engines. It features major enhancements to make every piece of equipment work harder, smarter, quieter and longer. The high Pressure Common Rail Fuel System provides enhanced engine performance with higher torque and better throttle response at every rpm without compromising fuel economy.

The Mitsubishi D04FD-TAA engine is based on the highly successful Mitsubishi SK series engines. These engines combine proven full authority electronic controls with reliable performance you expect from one of the most successful and durable engine design.

## Increased Higher Performance



### 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.



### 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 and Preciser Swing Control

Improved shock absorbing characteristics make stopping a precise and smooth action



### NEW MODE CONTROL SYSTEM



- POWER MODE**  
H mode: High power   S mode: Standard power
- WORK MODE**  
Heavy duty work   General work   Breaker
- USER MODE**  
M mode: Maximum Power  
U mode: Memorizing Operator's Preferable Power Setting

### 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 1000rpm. 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.

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

## Reliability & Serviceability



**Side Cover with Left & Right Swing Open Type**  
Easy access to vital components gives unrestricted view of component allows easy maintenance and repair.



**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.



**Easy to Change Air Cleaner Assembly**  
Air cleaner is centralized in one or the same compartment for easy service.

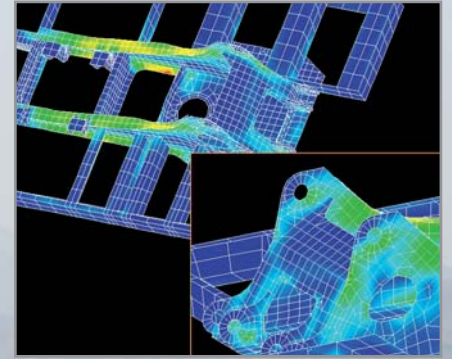


**Highly efficient Hydraulic Pump**  
Pump output capacity has been increased.



**Large tool box for extra storage**

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



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## Engine

Model		Mitsubishi D04FD-TAA	
Type		Water cooled, 4 cycle Diesel 4-cylinders in line, direct injection, Turbocharged and charge air cooled	
Rated flywheel horse power	SAE	J1995 (gross)	126 HP (94 kW) at 2,000 rpm
		J1345 (net)	116 HP (87 kW) at 2,000 rpm
	DIN	6271/1(gross)	128 PS (94 kW) at 2,000 rpm
		6271/1(net)	118 PS (87 kW) at 2,000 rpm
Max. torque		47.7 kgf·m(345 lbf-ft) at 1,800 rpm	
Bore x stroke		102 x 130 mm (4.02" x 5.12")	
Piston displacement		4,249 cc (259 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 rod x stroke	Boom : 2-115 × 80 × 1,090 mm (4.5" × 3.1" × 42.9")
	Arm : 1-120 × 85 × 1,340 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 × 960 mm (4.5" × 3.1" × 37.8") 2nd : 1-160 × 95 × 650 mm (6.3" × 3.7" × 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)
	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	11.0 rpm

## Steering system

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

Min. turning radius	6,100 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	28	7.4	6.2	
Engine oil	17.5	4.6	3.8	
Swing device	5.0	1.3	1.1	
Axle	(Front)	15.5	4.1	3.4
	(Rear)	17.5	4.6	3.9
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.

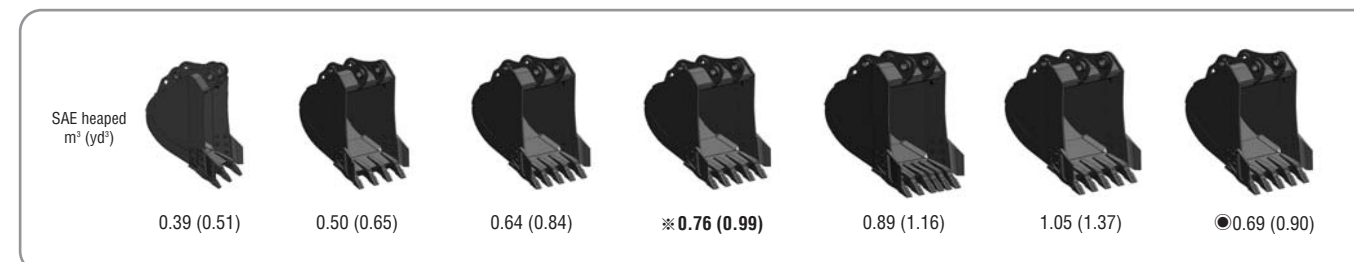
Major component weight	
Upperstructure	4,490kg (9,900 lb)
Counterweight	2,750kg (6,060 lb)
Mono boom(with arm cylinder)	1,240kg (2,730 lb)
Hydraulic adjustable boom (with arm cylinder)	1,780kg (3,920 lb)

## 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 (10' 2")	5,100(16' 9") Hydraulic Adjustable boom (7' 3")	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.



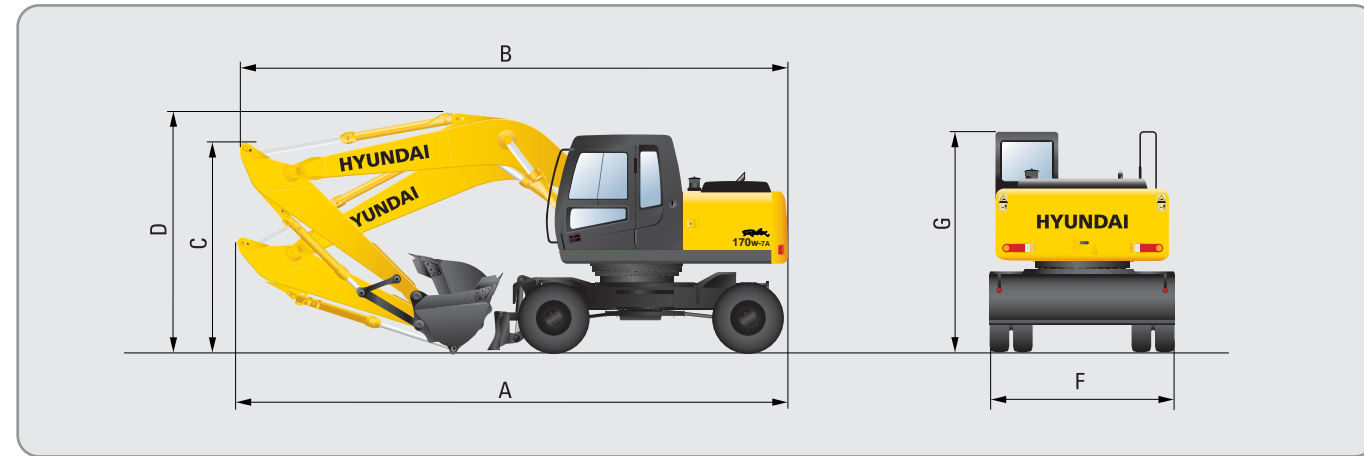
## Digging force

Arm	Length	m(ft.in)	※ 2.20 (7' 3")	2.60 (8' 6")	3.10 (10' 2")	Remark
			Weight kg (lb)	750 (1,650)	810 (1,790)	
Bucket digging Force	SAE	kN	108.6 [118.4]	108.6 [118.4]	108.6 [118.4]	[ ]: Power Boost
		kgf	11,070 [12,080]	11,070 [12,080]	11,070 [12,080]	
Force	ISO	kN	124.5 [135.9]	124.5 [135.9]	124.5 [135.9]	
		kgf	12,700 [13,850]	12,700 [13,850]	12,700 [13,850]	
Arm crowd Force	SAE	kN	85.2 [93.0]	75.0 [81.8]	67.4 [73.5]	
		kgf	8,690 [9,480]	7,650 [8,350]	6,870 [7,490]	
Force	ISO	kN	89.0 [97.1]	77.6 [84.6]	69.4 [75.7]	
		kgf	9,080 [9,910]	7,910 [8,630]	7,080 [7,720]	
			20,020 [21,840]	17,440 [19,030]	15,610 [17,030]	

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

# Dimensions & Working ranges

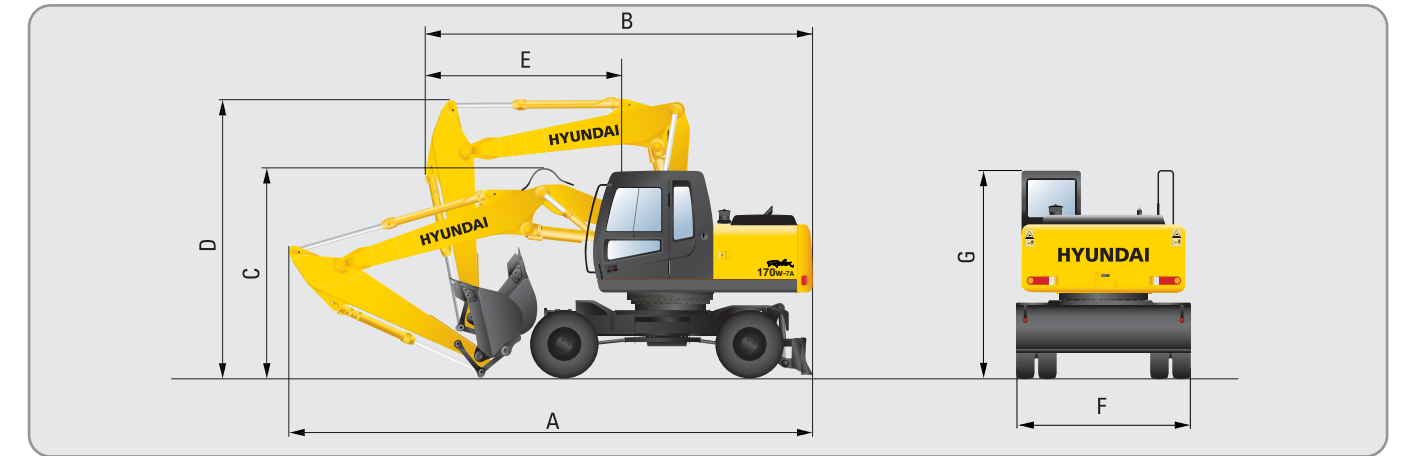
## Dimensions R170W-7A Mono boom



		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")

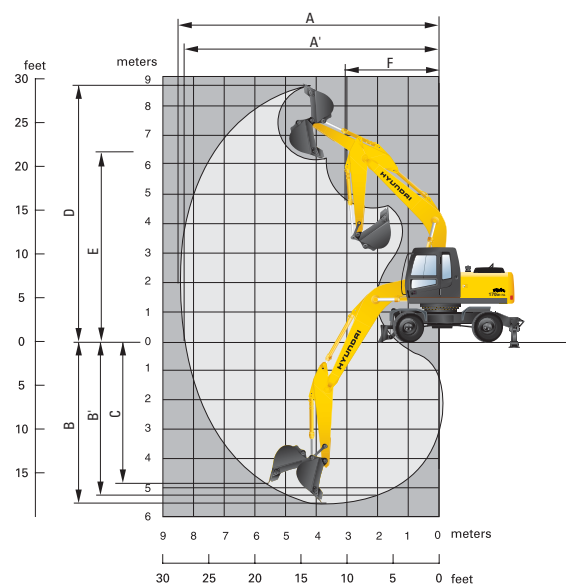
※ Standard equipment

## Dimensions R170W-7A 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")

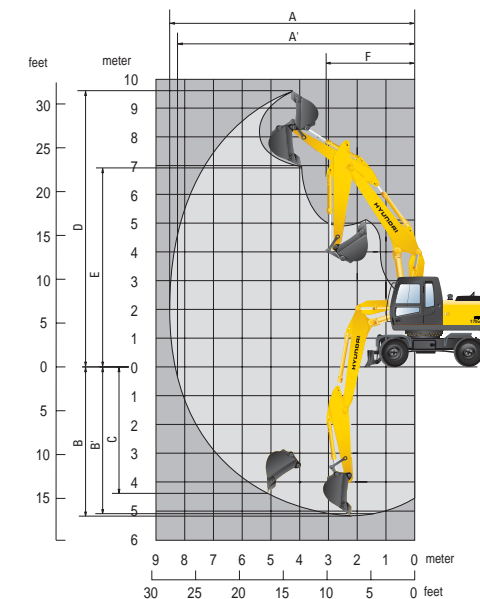
## Working ranges



	Boom length	mm (ft · in)		
		※ 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

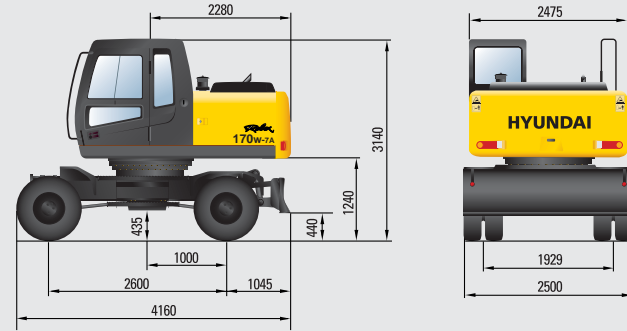
## Working ranges



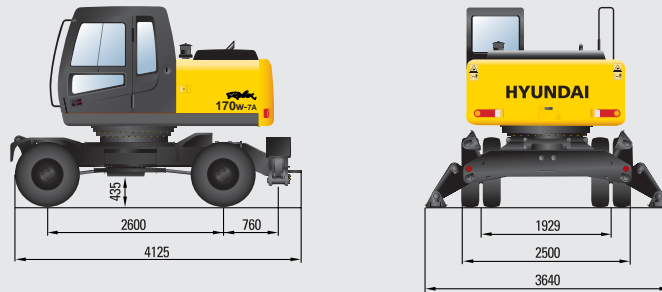
	Boom length	mm (ft · in)	
		5,100(16' 9")	
	Arm length	2,200 (7' 3")	2,600 (8' 6")
<b>A</b>	Max. digging reach	8,600 (28' 3")	9,120 (29' 11")
<b>A'</b>	Max. digging reach on ground	8,370 (27' 6")	8,910 (29' 3")
<b>B</b>	Max. digging depth	5,220 (17' 2")	5,600 (18' 4")
<b>B'</b>	Max. digging depth (8' 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")



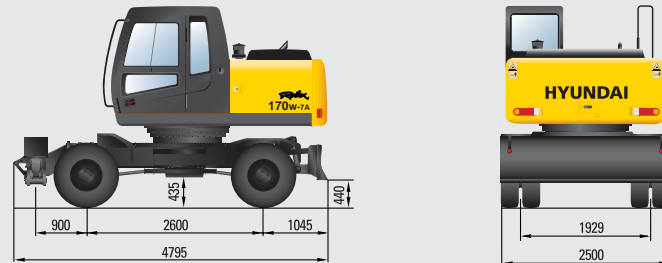
R170w-7A with rear dozer



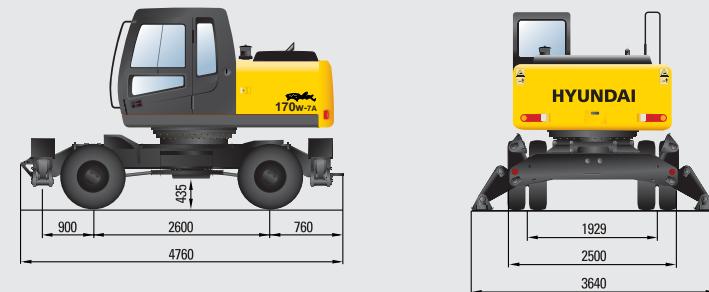
R170w-7A with rear outrigger



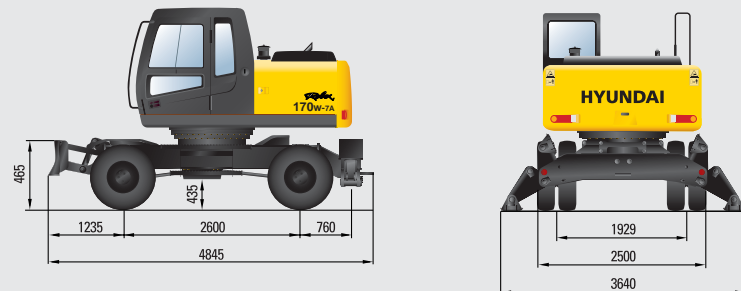
R170w-7A with rear dozer and front outrigger



R170w-7A with rear and front outrigger



R170w-7A with rear outrigger and front dozer



## Lifting capacities R170w-7A 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		Reach m (ft)		
		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				
7.5 m 25.0 ft	kg lb											*3380 7450	2920 6440	6.09 (20.0)
6.0 m 20.0 ft	kg lb							*3150 6940	2870 6330			*3340 7360	2050 4520	7.32 (24.0)
4.5m 15.0 ft	kg lb					*4420 9740	*4420 9740	*3880 8550	2820 6220			*3380 7450	1680 3700	8.01 (26.3)
3.0 m 10.0 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 5.0 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 -5.0 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 -10.0 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		Reach m (ft)				
		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			
7.5 m 25.0 ft	kg lb													*3070 6770	2560 5640	6.58 (21.6)
6.0 m 20.0 ft	kg lb							*2980 6570	2920 6440					*3070 6770	1860 4100	7.71 (25.3)
4.5m 15.0 ft	kg lb							*3570 7870	2830 6240					*3130 6900	1530 3370	8.36 (27.4)
3.0 m 10.0 ft	kg lb			*7970 17570	*7970 17570	*5150 11350	4290 9460	*4090 9020	2670 5890	*2730 6020	1780 3920			3150 6940	1380 3040	8.67 (28.4)
1.5 m 5.0 ft	kg lb			*7190 15850	*7190 15850	*6360 14020	3920 8640	*4660 10270	2500 5510	*3400 7500	1700 3750			3110 6860	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 -5.0 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 -10.0 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 -15.0 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		Reach m (ft)				
		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			
7.5 m 25.0 ft	kg lb													*2730 6020	2210 4870	7.15 (23.5)
6.0 m 20.0 ft	kg lb							*2750 6060	*2750 6060					*2770 6110	1640 3620	8.19 (26.9)
4.5m 15.0 ft	kg lb							*3180 7010	2860 6310	*2120 4670	1850 4080			*2840 6260	1370 3020	8.80 (28.9)
3.0 m 10.0 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 5.0 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 -5.0 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 -10.0 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 -15.0 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.

