

We build a better future

# Robex 170w-9

Equipped with Tier 3 Engine



\*Photo may include optional equipment.

# Pleasure works

An operator, who takes pleasure in his work, does a better job. That is why we at Hyundai Heavy Industries do everything we can to make that happen. We merged operator preference, fast precision and lasting performance into a quality product. Hyundai 9 series earthmoving equipment simply makes time fly, makes pleasure work!



\*Photo may include optional equipment.

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## Machine Walk-Around

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### General performance

Heavy duty frame with two speed powershift transmission.  
Heavy duty drive line and axles.  
Front axle oscillation +/- 7 degrees with automatic ram lock.  
Wet disc brakes in wheel hubs (front & rear).  
Automatic parking brake - spring applied, hydraulically released.

### Engine Technology

Powerfull and reliable, fuel efficient Cummins Tier III QSB6.7 engine.  
Electronical controlled, clean and efficient combustion.  
Low noise / Auto engine overheat prevention / Anti-restart function.

### Hydraulic System Improvements

New patented hydraulic system for maximum controllability / Improved main control valve for higher efficiency and smoother operation / Auto boom vs. swing priority for maximum speed / Auto power boost for extra power / Improved arm & boom regeneration for higher speed and better efficiency.

### Pump Compartment

Powerful and reliable axial piston pumps, designed by Kawasaki.  
Compact solenoid block to control: 2 speed travel, power boost, boom priority, safety lock, arm-in regeneration control and swing logic valve control.  
Well accessible fuel, engine oil and case drain filters.

### New Design Steering Column

Slim steering column with adjustments for your operators' preference (telescopic 60 mm, tilting 30°).

### Enhanced Operators' Cabin

#### Improved visibility

Enlarged cab with improved visibility / See-through sunroof for visibility and ventilation.  
Large right-side window, for better visibility on foot of boom.  
All windows consist of safety glass.  
Roll-up type sun visor for operators' convenience / Reduced front window seam for improved operator view.

#### Rigid Cabin Construction

New steel tube construction for increased operator safety, higher protection and better durability.  
New front window mechanism designed with spring assist.

#### Improved Seat & Console

Ergonomic joysticks equipped with auxiliary buttons for attachment use.  
Standard mechanic suspension with heater or optional air suspension.  
New joystick consoles - adjustable in height.  
Adjustable arm rests - for optimum comfort.

#### Advanced 7" Color Cluster

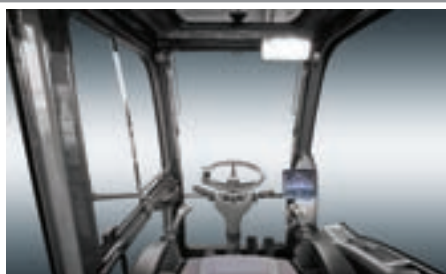
New color LCD-display with digital gauges for hydraulic oil temperature, coolant temperature and fuel level.  
Toggle switch makes it easier to tune your machine and to check diagnostics. A new developed rear-view camera is integrated into the cluster.  
3 power modes : Power / Standard / Economy, 3 work modes : Digging / Breaker / Crusher, User mode for saving operators' preferences.  
Enhanced self-diagnostic features with remote access through the Hi-Mate system.  
One pump flow or two pump flow summation for optional attachment, selectable through the cluster / Anti-theft system with password entry.  
Boom speed and arm regeneration can be adjusted through the cluster.  
Auto power boost in Power-mode - activated through the cluster.  
Air conditioning and heater with automatic climate control.  
Hi-Mate (Remote Management System) enables machine owners to follow-up machine performance, to verify machine location and to access diagnostic information on a distance through any internet connection.

# Preference

An operator, who sets his machine to his needs, takes pleasure in his work. 9 Series respects operator preference with regards to comfort, ease-of-use and controllability. The dashboard cluster with 7 inch screen and toggle switch is the preference nerve centre.



\*Photo may include optional equipment.



## Spacious Cabin with Excellent Visibility

The spacious cabin is ergonomically designed with low noise levels and high visibility. Special attention was paid to create a clear, open and convenient interior with excellent visibility in all directions. This well balanced operators' environment put the operator in the perfect position to work safely and securely.

## Operator Comfort

In a 9 series cabin you can adjust the seat, console and armrests to suit your preferred comfort level. Seat and console position and height can be adjusted together and independent from each other. Improved telescopic and tilt functions of the steering wheel provides operators better access and higher comfort. A fully automatic, high capacity air conditioning system maintains a constant temperature.



## Stressless

Work is stressful enough; your working environment should be stressless. Hyundai's 9 series provides improved cabin interior, additional space and a comfortable seat to minimize the stress of the operator. A powerful climate control system provides the operator with his preferred air temperature. An advanced audio system with CD player, AM/FM stereo and MP3 capabilities, plus remote controls is installed to listen to your preferred music favorites. Operators can even call while operating with the hands-free mobile phone feature.



## Easy to Use Cluster

The advanced cluster with 7 inch wide color LCD screen and toggle switch allows the operator to select his personal machine preferences. Power and work mode selection, self diagnostics, optional rear-view camera, maintenance check lists, start-up machine security and video functions are integrated into the cluster to make the machine more versatile and the operator more productive.



# Precision

An operator, who feels his machine respond smoothly, takes pleasure in his work. 9 Series delivers fast precision by combining smoother hydraulics with wider view and less stress. The innovative Negative hydraulic system combines straightforward technology with superior response.



\*Photo may include optional equipment.

## Computer Aided Power

The advanced CAPO (Computer Aided Power Optimization) system tunes engine and pump power to optimum levels. Multiple mode selections are implemented for specific applications, maintaining high performance while reducing fuel consumption.

Additional features include auto deceleration and power boost.

The LCD-display monitors engine speed, coolant and hydraulic oil temperature and through the self-diagnostic capability, it displays current error codes. Operators can set their own preferences for boom or swing priority, power mode selection and optional work tools at the touch of a button.

### Power Mode

Three unique power modes provide the operator with custom engine power, attachment speed and fuel economy.

Power-mode maximizes machine speed and power for maximum productivity.

Standard-mode provides a reduced, fixed rpm for optimum performance and improved fuel economy.

Economy-mode provides precise flow and engine power based on load conditions, for maximum fuel efficiency and controllability.

### Work Mode

Through the different work modes, the operator can select general digging, single-acting attachments like a hydraulic breaker or double-acting attachments like a crusher. Flow settings can be preset in the cluster.

### User Mode

Some jobs require more precise machine settings; some operators prefer different machine settings. Using the User-mode, the operator can customize engine speed, pump output, idle speed and other machine settings according to personal preferences.

## Hydraulic System Improvements



To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and top level controllability. Spool valves in the control valve are engineered to provide more precise flow to each function with less effort.

Improved hydraulic valves, variable volume piston pumps, fine-touch pilot controls and enhanced travel functions make any operator look like a smooth operator. Newly improved features include arm and boom regeneration, enhanced control valve technology and innovative auto boom and swing priority for best performances in any application.



### Auto Boom vs. Swing Priority

This smart function adapts the ideal hydraulic flow balance for the boom and swing operation for your application. The advanced CAPO system monitors the hydraulic operations and adjusts the balance to maximize performance and productivity.

# Performance

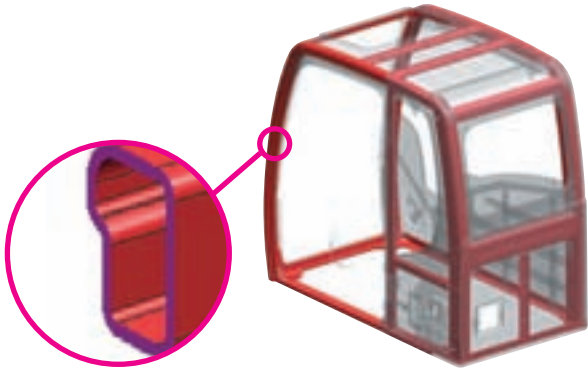
An operator, who can rely on his machine, takes pleasure in his work. 9 Series stands for lasting performance in strength, speed and reliability. The Auto boom-swing priority results into faster movements and shorter cycle times.



\*Photo may include optional equipment.

## Independent Outriggers

The R170W-9 can be equipped with four independent outriggers or two independent outriggers and a dozer blade. Each outrigger or dozer blade is controlled by a switch and the dozer lever. Outriggers and dozer blades are equipped with cylinder guards for additional protection.



## Structural Strength

The 9 series cabin structure is designed with slimmer but stronger tubing for more safety and better visibility. Low-stress and high-strength steel is welded to form a strong and stable lower frame. Structural durability is analyzed and tested by FEM-analysis (Finite Elements Method) and long-term durability tests.

## Travel System

Auto cruise control system facilitates driving longer distances at a fixed speed. An auto ram lock system can be activated to improve stability and operating safety.

A creep speed travel system improves maneuverability and fine control. An optional forward / reverse travel pedal allows operators to choose to use the travel pedal while travelling in work mode and lever control when travelling in travel mode.

## CUMMINS QSB 6.7 Engine

With 6-cylinders, turbo charger and intercooler, the Cummins QSB6.7 diesel engine is built for power, economy and reliability. This engine meets TIER 3 / EU stage IIIa emission regulations.



# Profitability

An owner, who knows his machine saves money, takes pleasure in owning it. 9 Series excavators contribute to your business as a time, fuel, spare-part and cost saving earthmoving solution. The Remote Management System allows machine owners to track, monitor and manage at a distance.



\*Photo may include optional equipment.



## Fuel Economy

9 series excavators are developed to do more work with less fuel. Implemented innovations like the variable speed fan clutch, overload prevention control, three-stage auto decel system and the new economy mode, are helping to save fuel and reduce the impact on the environment.



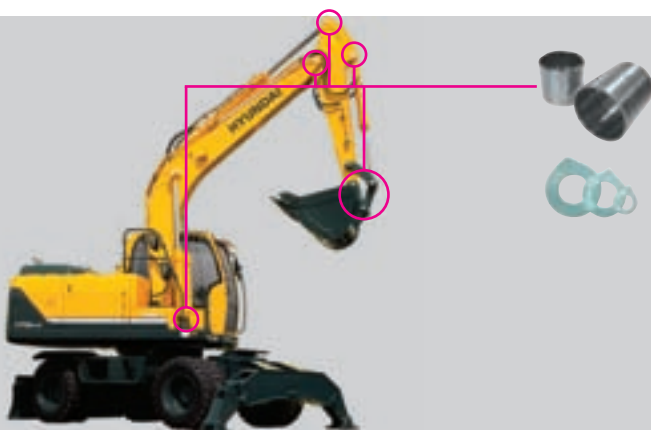
## Hi-mate (Remote Management System)

Hi-mate, Hyundai's newly developed remote management system, using GPS-satellite technology, provides our customers with the highest level of service and product support. Hi-mate enables machine owners to follow-up machine performance, to verify machine location and to access diagnostic information on a distance through any internet connection.



## Easy Access

Access from ground to filters, lube fittings, fuses, drains and machine computer components, combined with wide open compartments makes servicing the 9-series a pleasure for your mechanics.



## Extended Life of Components

New long-life bushings are designed for extended lube intervals (250 hrs). Wear-resistant polymer shims reduce noise and reduce wear of bushings. Extended-life hydraulic filters last up to 1,000 hrs and new long-life hydraulic oil need only be changed every 5,000 hrs.

# Specifications

## ENGINE

MODEL			CUMMINS QSB 6.7
Type			Watercooled, 4 cycle Diesel, 6-cylinders in line, direct injection Turbocharged, intercooler, low emission
Rated flywheel horse power	SAE	J1995 (gross)	163 HP (122kW) at 2,100 rpm
		J1349 (net)	153 HP (114kW) at 2,100 rpm
	DIN	6271/1 (gross)	165 PS (122kW) at 2,100 rpm
		6271/1 (net)	155 PS (114kW) at 2,100 rpm
Max. torque			74.7 kgf.m(540 lbf.ft) at 1,400 rpm
Bore x stroke			107 x 124 mm (4.21" x 4.88")
Piston displacement			6,700 cc (409 in³)
Batteries			2 x 12 V x 100 AH
Starting motor			24 V - 4.5 kW
Alternator			24 V - 70 Amp

## HYDRAULIC SYSTEM

MAIN PUMP	
Type	Two variable displacement piston pumps
Max. flow	2 X 168 L /min (44.5 US gpm / 37 UK gpm)
Pilot pump	Gear pump
Cross-sensing and fuel saving pump system	
HYDRAULIC MOTORS	
Travel	Two speed axial piston motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake
RELIEF VALVE SETTING	
Implement circuits	350 kgf/cm² (4,970 psi)
Travel	380 kgf/cm² (5,400 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,400 psi)
Swing circuit	285 kgf/cm² (4,050 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

### HYDRAULIC CYLINDERS

No. of cylinder- bore x stroke	Boom : 2-115 x 1090 mm (4.5" x 42.9")
	Arm : 1-120 x 1355 mm (4.7" x 53.3")
	Bucket : 1-110 x 995 mm (4.3" x 39.2")
	Blade : 2-110 x 235 mm (4.3" x 9.3")
	Outrigger : 2-125 x 475 mm (4.9" x 18.7")
	1st Boom (adjustable-boom) : 2-115 x 960 mm (4.1" x 37.8")
Adjustable-boom : 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			8,500 kgf (18,740 lbf)
Travel speed	1st	10 km/h	
	2nd	36 km/h	
Gradeability			35° (70 %)

- Parking brake : Independent dual brake, front and rear axle full hydraulic power brake.
- Spring released and hydraulic applied wet type multiple disk brake.
- Transmission is automatically locked at neutral position for parking.

## CONTROL

Pilot pressure operated joysticks and pedals with 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, Dial type
Lights	Two lights mounted on the boom, one under the battery box and one under the cabin.

## AXLE & WHEEL

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

Tires	10.00-20-14PR, Dual (tube type)
(optional)	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	Multi wet disc (pin lock type)
Swing speed	11 rpm

## STEERING SYSTEM

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

Min. turning radius	6.3 m (20' 8")
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## COOLANT & LUBRICANT CAPACITY

Re-filling		liter	US gal	UK gal
Fuel tank		270	71.3	59.4
Engine coolant		19.5	5.2	4.3
Engine oil		24	6.3	5.3
Swing device - gear oil		2.5	0.7	0.5
Axle	(front)	15.5	4.1	3.4
	(rear)	20.1	5.3	4.4
Hydraulic system (including tank)		210	55.5	46.2
Hydraulic tank		124	32.8	27.3

## UNDERCARRIAGE

Reinforced box-section frame is all-welded, low-stress.

Dozer blade and outriggers are available. A bolt-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)

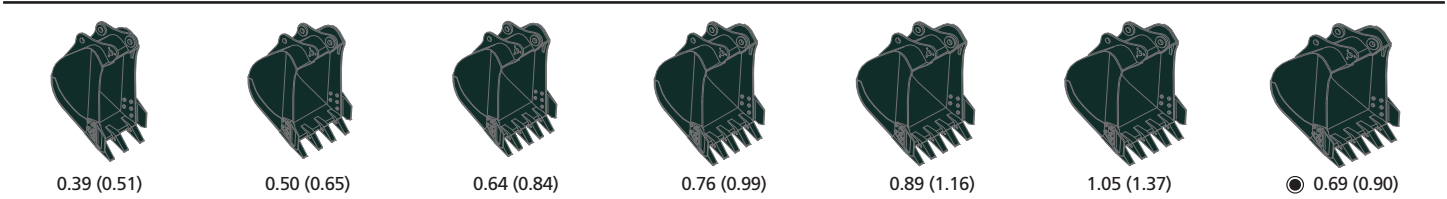
Operating weight, including 2.2 m (7' 3") arm, SAE heaped 0.76 m³ (0.99 yd³) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

MAJOR COMPONENT WEIGHT	
Upperstructure	4,590 kg (10,120 lb)
Counterweight	2,650 kg (5,840 lb)
Mono boom (with arm cylinder)	1,240 kg (2,730 lb)
Hydraulic adjustable boom (with adjust cylinder and arm cylinder)	1,780 kg (3,920 lb)

OPERATING WEIGHT		
Undercarriage	Mono boom	Hyd. adjustable boom
Rear dozer blade	17,300 kg (38,140 lb)	17,770 kg (39,180 lb)
Rear outrigger	17,450 kg (38,470 lb)	17,920 kg (39,510 lb)
Front outrigger and rear blade	18,420 kg (40,610 lb)	18,890 kg (41,650 lb)
Front blade and rear outrigger	18,360 kg (40,480 lb)	18,830 kg (41,510 lb)
Four outrigger	18,600 kg (41,010 lb)	19,070 kg (42,040 lb)

BUCKETS

All buckets are welded with high-strength steel



SAE heaped m³ (yd³)

Capacity m³ (yd³)		Width mm (in)		Weight kg (lb)	Recommendation m (ft.in)				
SAE heaped	CECE heaped	Without side cutters	With side cutters		5.1 (16' 9") Mono boom			5.1 (16' 1") Hydraulic Adjustable Boom	
					2.2 (7' 3") Arm	2.6 (8' 6") Arm	3.1 (10' 2") Arm	2.2 (7' 3") Arm	2.6 (8' 6") Arm
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)	●	▲	▲	■	▲

● Heavy-duty bucket

- Applicable for materials with density of 2,000 kg/m³ (3,370 lb/yd³) or less
- Applicable for materials with density of 1,600 kg/m³ (2,700 lb/yd³) or less
- ▲ Applicable for materials with density of 1,100 kg/m³ (1,850 lb/yd³) or less

ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design. 5.1 m (16' 9") monoboam & 5.1 m (16' 9") hydraulic adjustable boom and 2.2 m (7' 3"); 2.6 m (8' 6") & 3.1 m (10' 2") arms are available.

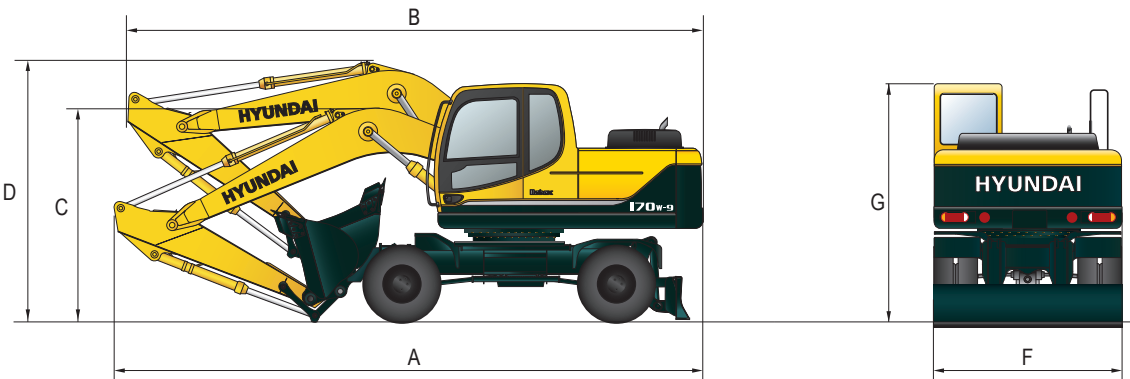
DIGGING FORCE

Boom	Length	mm (ft.in)	5,100 (16' 9")			Remarks
	Weight	kg (lb)	1,240 (2,730)			
Arm	Length	mm (ft.in)	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")	
	Weight	kg (lb)	750 (1,560)	810 (1,790)	890 (1,960)	
Bucket digging force	SAE	kN	107.9 [117.2]	107.9 [117.2]	107.9 [117.2]	[ ]: Power Boost
		kgf	11,000 [11,940]	11,000 [11,940]	11,000 [11,940]	
		lbf	24,250 [26,330]	24,250 [26,330]	24,250 [26,330]	
	ISO	kN	123.6 [134.2]	123.6 [134.2]	123.6 [134.2]	
		kgf	12,600 [13,680]	12,600 [13,680]	12,600 [13,680]	
		lbf	27,780 [30,160]	27,780 [30,160]	27,780 [30,160]	
Arm crowd force	SAE	kN	87.2 [94.7]	77.3 [83.9]	69.0 [74.9]	
		kgf	8,890 [9,650]	7,880 [8,560]	7,030 [7,630]	
		lbf	19,600 [21,280]	17,270 [18,860]	15,500 [16,830]	
	ISO	kN	91.0 [98.8]	80.3 [87.2]	71.4 [77.5]	
		kgf	9,280 [10,080]	8,190 [8,890]	7,280 [7,900]	
		lbf	20,460 [22,210]	18,060 [19,600]	16,050 [17,430]	

Note: Boom weight includes arm cylinder, piping, and pin  
Arm weight includes bucket cylinder, linkage, and pin

# Dimensions & Working Ranges

## DIMENSIONS R170W-9



mm (ft · in)

Mono Boom	5,100 (16' 9")		
Arm	2,200 (7' 3")	2,600 (8' 6")	3,100 (11' 1")
A Overall length of shipping position	8,650 (28' 5")	8,730 (28' 8")	8,760 (28' 9")
B Overall length of traveling position	8,590 (28' 2")	8,400 (27' 7")	8,480 (27' 10")
C Height of attachment (shipping position)	3,060 (10' 0")	3,020 (9' 11")	3,150 (10' 4")
D Height of attachment (traveling position)	3,610 (11' 10")	3,940 (12' 11")	3,900 (12' 10")
F Overall width	2,500 (8' 2")	2,500 (8' 2")	2,500 (8' 2")
G Height of cabin	3,190 (10' 6")	3,190 (10' 6")	3,190 (10' 6")

## WORKING RANGES R170W-9

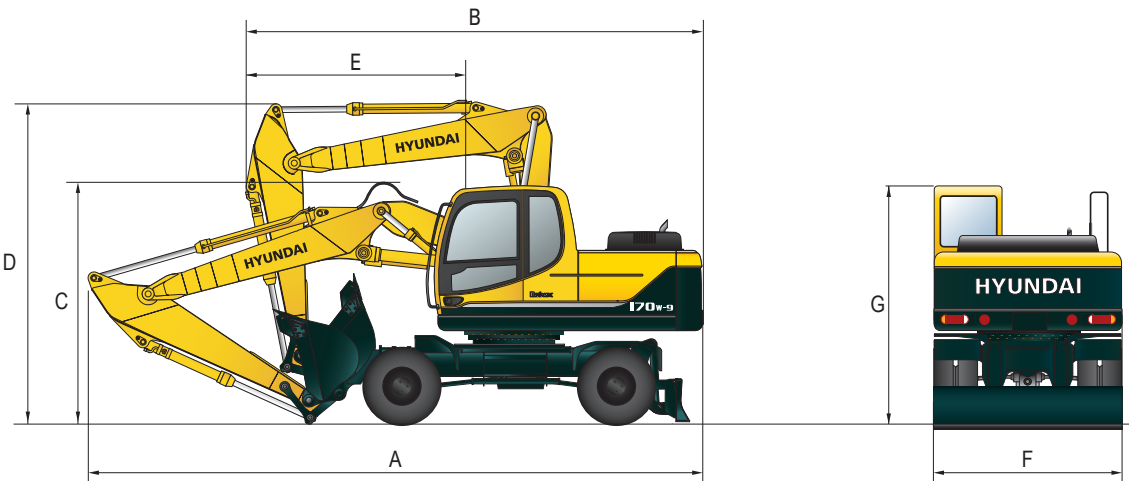
mm (ft · in)

Technical drawing of the Hyundai R170W-9 excavator showing its working ranges. The drawing illustrates the machine's reach and digging capabilities. Dimensions are labeled as follows: A is the boom length; A' is the arm length; B is the maximum digging reach; B' is the maximum digging reach on the ground; C is the maximum digging depth; C' is the maximum digging depth at an 8° level; D is the maximum vertical wall digging depth; E is the maximum digging height; F is the maximum dumping height; and F' is the minimum swing radius.

Boom length	5,100 (16' 9")		
Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
A Max. digging reach	8,690 (28' 6")	9,020 (29' 7")	9,450 (31' 0")
A' Max. digging reach on ground	8,480 (27' 10")	8,810 (28' 11")	9,250 (30' 4")
B Max. digging depth	5,420 (17' 9")	5,820 (19' 1")	6,320 (20' 9")
B' Max. digging depth (8° level)	5,200 (17' 1")	5,620 (18' 5")	6,130 (20' 1")
C Max. vertical wall digging depth	4,890 (16' 1")	5,140 (16' 10")	5,470 (17' 11")
D Max. digging height	8,990 (29' 6")	9,070 (29' 9")	9,220 (30' 3")
E Max. dumping height	6,350 (20' 10")	6,460 (21' 2")	6,620 (21' 9")
F Min. swing radius	3,180 (10' 5")	3,170 (10' 5")	3,160 (10' 4")

# Dimensions & Working Ranges

## DIMENSIONS R170W-9 ADJUSTABLE BOOM



mm (ft · in)

Hydraulic adjustable boom	5,100 (16' 9")	
Arm	2,200 (7' 3")	2,600 (8' 6")
A Overall length of shipping position	8,650 (28' 5")	8,750 (28' 8")
B Overall length of traveling position	6,630 (21' 9")	6,620 (21' 9")
C Height of attachment (shipping position)	2,900 (9' 6")	2,920 (9' 7")
D Height of attachment (traveling position)	3,980 (13' 1")	3,960 (13' 0")
E End of attachment to steering wheel	3,300 (10' 10")	3,290 (10' 10")
F Overall width	2,500 (8' 2")	2,500 (8' 2")
G Height of cabin	3,190 (10' 6")	3,190 (10' 6")

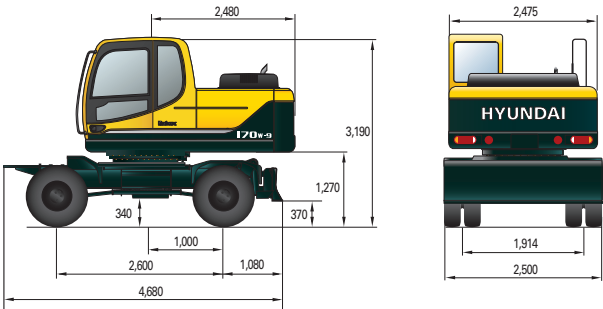
## WORKING RANGES R170W-9 ADJUSTABLE BOOM

mm (ft · in)

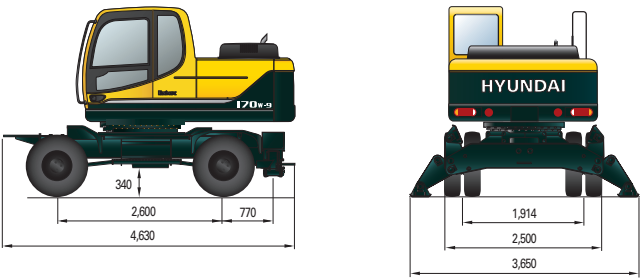
	Boom length	5,100 (16' 9")	
	Arm length	2,200 (7' 3")	2,600 (8' 6")
	A Max. digging reach	8,760 (28' 9")	9,110 (29' 11")
	A' Max. digging reach on ground	8,550 (28' 1")	8,910 (29' 3")
	B Max. digging depth	5,220 (17' 2")	5,620 (18' 5")
	B' Max. digging depth (8' level)	5,120 (16' 10")	5,520 (18' 1")
	C Max. vertical wall digging depth	4,430 (14' 6")	4,780 (15' 8")
	D Max. digging height	9,630 (31' 7")	9,820 (32' 3")
	E Max. dumping height	6,930 (22' 9")	7,130 (23' 5")
	F Min. swing radius	3,100 (10' 2")	2,970 (9' 9")

# Undercarriage

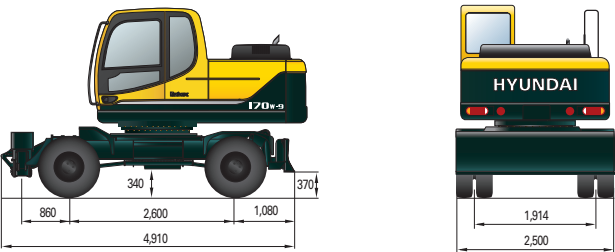
R170W-9 WITH REAR DOZER BLADE AND FRONT BUCKET REST



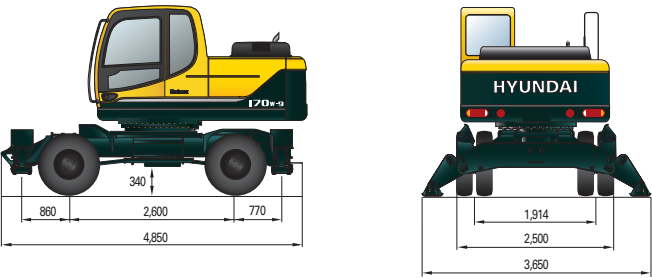
R170W-9 WITH REAR OUTRIGGERS AND FRONT BUCKET REST



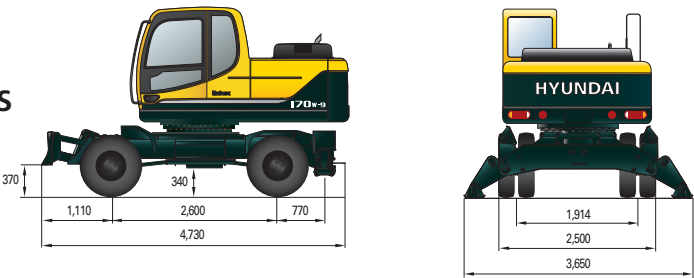
R170W-9 WITH REAR DOZER BLADE AND FRONT OUTRIGGERS



R170W-9 WITH REAR AND 3FRONT OUTRIGGERS



R170W-9 WITH REAR OUTRIGGERS AND FRONT DOZER BLADE



# Lifting Capacities

## R170W-9 MONO BOOM



Rating over-front















Rating over-side or 360 degrees













Boom : 5.1 m (16' 9") / Arm : 2.2 m (7' 3") / Bucket : 0.76 m<sup>3</sup> (0.99 yd<sup>3</sup>) SAE heaped / With rear dozer blade down and 2,650 kg (5,840 lb) counterweight

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	kg									*3710	3020	5.89
(25 ft)	lb									*8180	6660	(19.3)
6.0 m	kg							*3340	2830	*3660	2080	7.15
(20 ft)	lb							*7360	6240	*8070	4590	(23.5)
4.5 m	kg					*4730	4550	*4170	2770	*3690	1680	7.86
(15 ft)	lb					*10430	10030	*9190	6110	*8140	3700	(25.8)
3.0 m	kg			*9740	7880	*6000	4190	*4690	2630	*3430	1500	8.19
(10 ft)	lb			*21470	17370	*13230	9240	*10340	5800	*7560	3310	(26.9)
1.5 m	kg					*7180	3850	*5230	2470	*3380	1460	8.19
(5 ft)	lb					*15830	8490	*11530	5450	*7450	3220	(26.9)
Ground Line	kg			*7660	6950	*7720	3660	*5520	2360	*3580	1540	7.87
	lb			*16890	15320	*17020	8070	*12170	5200	*7890	3400	(25.8)
-1.5 m	kg	*7650	*7650	*11110	7010	*7510	3620	*5380	2330	*3950	1820	7.18
(-5 ft)	lb	*16870	*16870	*24490	15450	*16560	7980	*11860	5140	*8710	4010	(23.6)
-3.0 m	kg	*12010	*12010	*9250	7190	*6410	3700			*3660	2540	5.95
(-10 ft)	lb	*26480	*26480	*20390	15850	*14130	8160			*8070	5600	(19.5)

Boom : 5.1 m (16' 9") / Arm : 2.6 m (8' 6") / Bucket : 0.76 m<sup>3</sup> (0.99 yd<sup>3</sup>) SAE heaped / With rear dozer blade down and 2,650 kg (5,840 lb) counterweight

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	kg												*3360	2640	6.37
(25 ft)	lb												*7410	5820	(20.9)
6.0 m	kg							*3250	2870				*3360	1880	7.53
(20 ft)	lb							*7170	6330				*7410	4140	(24.7)
4.5 m	kg							*3830	2790				*3420	1530	8.20
(15 ft)	lb							*8440	6150				*7540	3370	(26.9)
3.0 m	kg			*8540	8180	*5530	4240	*4400	2630	*2990	1740		3190	1370	8.52
(10 ft)	lb			*18830	18030	*12190	9350	*9700	5800	*6590	3840		7030	3020	(28.0)
1.5 m	kg			*7620	7180	*6830	3860	*5010	2460	*3710	1660		3140	1330	8.52
(5 ft)	lb			*16800	15830	*15060	8510	*11050	5420	*8180	3660		6920	2930	(28.0)
Ground Line	kg			*8230	6890	*7570	3630	*5420	2330	*3250	1610		3300	1390	8.22
	lb			*18140	15190	*16690	8000	*11950	5140	*7170	3550		7280	3060	(27.0)
-1.5 m	kg	*7190	*7190	*11280	6890	*7570	3550	5420	2270				3780	1620	7.56
(-5 ft)	lb	*15850	*15850	*24870	15190	*16690	7830	11950	5000				8330	3570	(24.8)
-3.0 m	kg	*10590	*10590	*9950	7030	*6760	3590	*4660	2320				*3700	2180	6.43
(-10 ft)	lb	*23350	*23350	*21940	15500	*14900	7910	*10270	5110				*8160	4810	(21.1)
-4.5 m	kg			*6800	*6800										
(-15 ft)	lb			*14990	*14990										

Boom : 5.1 m (16' 9") / Arm : 3.1 m (11' 1") / Bucket : 0.76 m<sup>3</sup> (0.99 yd<sup>3</sup>) SAE heaped / With rear dozer blade down and 2,650 kg (5,840 lb) counterweight

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	kg												*3000	2250	6.96
(25 ft)	lb												*6610	4960	(22.8)
6.0 m	kg							*2970	2920				*3030	1650	8.02
(20 ft)	lb							*6550	6440				*6680	3640	(26.3)
4.5 m	kg							*3420	2820	*2310	1810		*3110	1360	8.65
(15 ft)	lb							*7540	6220	*5090	3990		*6860	3000	(28.4)
3.0 m	kg			*7140	*7140	*4940	4320	*4030	2650	*3220	1740		2910	1220	8.95
(10 ft)	lb			*15740	*15740	*10890	9520	*8880	5840	*7100	3840		6420	2690	(29.4)
1.5 m	kg			*10650	7380	*6370	3910	*4720	2450	3850	1640		2860	1170	8.95
(5 ft)	lb			*23480	16270	*14040	8620	*10410	5400	8490	3620		6310	2580	(29.4)
Ground Line	kg	*4330	*4330	*8780	6880	*7320	3620	*5240	2300	3760	1570		2990	1220	8.67
	lb	*9550	*9550	*19360	15170	*16140	7980	*11550	5070	8290	3460		6590	2690	(28.4)
-1.5 m	kg	*6700	*6700	*10760	6780	*7570	3490	5360	2210				3360	1400	8.05
(-5 ft)	lb	*14770	*14770	*23720	14950	*16690	7690	11820	4870				7410	3090	(26.4)
-3.0 m	kg	*9430	*9430	*10640	6870	*7070	3490	*4990	2220				*3620	1820	7.01
(-10 ft)	lb	*20790	*20790	*23460	15150	*15590	7690	*11000	4890				*7980	4010	(23.0)
-4.5 m	kg	*13120	*13120	*8110	7120	*5400	3640						*3220	3090	5.23
(-15 ft)	lb	*28920	*28920	*17880	15700	*11900	8020						*7100	6810	(17.2)

1. Lifting capacity is based on SAE J1097, ISO 10567.

2. Lifting capacity of the Robex Series does not exceed 75% of the 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 the load limited by hydraulic capacity.

# Lifting Capacities

## R170W-9 ADJUSTABLE BOOM



Rating over-front



Rating over-side or 360 degrees

Boom : 5.1 m (16' 9") / Arm : 2.2 m (7' 3") / Bucket : 0.76 m<sup>3</sup> (0.99 yd<sup>3</sup>) SAE heaped / With rear dozer blade down and 2,650 kg (5,840 lb) counterweight

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)
6.0 m	kg											*3710	2010	7.22
(20 ft)	lb											*8180	4430	(23.7)
4.5 m	kg							*4210	2760			*3680	1620	7.92
(15 ft)	lb							*9280	6080			*8110	3570	(26.0)
3.0 m	kg					*6040	4180	*4690	2610			3410	1450	8.25
(10 ft)	lb					*13320	9220	*10340	5750			7520	3200	(27.1)
1.5 m	kg					*7120	3810	*5190	2440	*3430	1660	3360	1410	8.26
(5 ft)	lb					*15700	8400	*11440	5380	*7560	3660	7410	3110	(27.1)
Ground	kg			*6770	*6770	*7590	3610	*5450	2330			3570	1500	7.94
Line	lb			*14930	*14930	*16730	7960	*12020	5140			7870	3310	(26.0)
-1.5 m	kg	*6880	*6880	*10730	6950	*7310	3580	*5230	2300			*3640	1780	7.26
(-5 ft)	lb	*15170	*15170	*23660	15320	*16120	7890	*11530	5070			*8020	3920	(23.8)
-3.0 m	kg			*8720	7160	*6110	3680					*3140	2490	6.05
(-10 ft)	lb			*19220	15790	*13470	8110					*6920	5490	(19.8)

Boom : 5.1 m (16' 9") / Arm : 2.6 m (8' 6") / Bucket : 0.76 m<sup>3</sup> (0.99 yd<sup>3</sup>) SAE heaped / With rear dozer blade down and 2,650 kg (5,840 lb) counterweight

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)
6.0 m	kg											*3410	1810	7.63
(20 ft)	lb											*7520	3990	(25.0)
4.5 m	kg											*3410	1470	8.29
(15 ft)	lb											*7520	3240	(27.2)
3.0 m	kg							*4420	2620	*3380	1720	3160	1320	8.60
(10 ft)	lb							*9740	5780	*7450	3790	6970	2910	(28.2)
1.5 m	kg			*6600	*6600	*6800	3830	*4980	2430	3900	1640	3110	1280	8.61
(5 ft)	lb			*14550	*14550	*14990	8440	*10980	5360	8600	3620	6860	2820	(28.2)
Ground	kg	*6550	*6550	*7410	6810	*7460	3580	*5340	2290	3830	1580	3280	1350	8.31
Line	lb	*14440	*14440	*16340	15010	*16450	7890	*11770	5050	8440	3480	7230	2980	(27.3)
-1.5 m	kg	*10160	*10160	*10600	6820	*7390	3500	*5290	2240			*3520	1570	7.66
(-5 ft)	lb	*22400	*22400	*23370	15040	*16290	7720	*11660	4940			*7760	3460	(25.1)
-3.0 m	kg			*9480	6980	*6500	3560	*4440	2300			*3240	2120	6.54
(-10 ft)	lb			*20900	15390	*14330	7850	*9790	5070			*7140	4670	(21.5)
-4.5 m	kg			*6100	*6100	*3870	3820							
(-15 ft)	lb			*13450	*13450	*8530	8420							

- Lifting capacity is based on SAE J1097, ISO 10567.
- Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The load point is a hook located on the back of the bucket.
- (\*) indicates the load limited by hydraulic capacity.



# Notes

Lined area for taking notes, consisting of multiple horizontal lines.

## STANDARD EQUIPMENT

### ISO Standard cabin

All-weather steel cabin with 360° visibility  
Safety glass windows  
Rise-up type windshield wiper  
Sliding fold-in front window  
Sliding side window  
One key fits all lockable doors  
Hot & cool box  
Storage compartment & ashtray  
Transparent cabin roof-cover  
CD/MP3 Player with AUX-input  
Handsfree mobile phone system with USB-charging device  
Sun visor

### Computer aided power optimization (New CAPO) system

3-power modes, 3-work modes, User mode  
Auto & one-touch deceleration system  
Auto warm-up system  
Overheat prevention system

### Automatic temperature control

Air conditioner & heater  
Defroster

### Self-diagnostics system

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

### Centralized monitoring

### LCD-display

Engine speed or trip meter  
Clock  
Gauges  
- Fuel level gauge  
- Engine coolant temperature gauge  
- Hyd. oil temperature gauge  
Warning lamps  
- Engine warning  
- Overload  
- Communication error  
- Low battery  
- Air filter clogging  
Indicators  
- Max power  
- Low speed/High speed  
- Fuel warmer  
- Auto deceleration

### Door and cab locks, one key

### Two outside rearview mirrors

### Fully adjustable suspension seat with seat belt

### Adjustable joysticks

### Console box height adjust system

### Two front working lights

### Electric horn

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

### Battery master switch

### Removable clean-out screen for cooler

### Automatic swing brake

### Removable reservoir tank

### Fuel pre-filter with fuel warmer

### Boom holding system

### Arm holding system

### Counterweight (2,650 kg; 5,840 lb)

### Accumulator for lowering work equipment

### Lower frame under cover

### Viscous fan clutch

### Dual tires (9.00-20-14PR)

### Travel alarm

## OPTIONAL EQUIPMENT

### Fuel filler pump (35 L/min)

### 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.)

### Quick coupler

### 12 volt power outlet (24V DC to 12V DC converter)

### Boom

Hydraulic adjustable Boom : 5.1 m; 16' 9"

### Arms

Semi long arm (2.6 m; 8' 6")

Long arm (3.1 m; 10' 2")

### Buckets

0.39 m³; 0.51 yd³

0.50 m³; 0.65 yd³

0.64 m³; 0.84 yd³

0.76 m³; 0.99 yd³

0.89 m³; 1.16 yd³

1.05 m³; 1.37 yd³

0.69 m³; 0.90 yd³ (Heavy-duty bucket)

### Temperature control

Air conditioner only

Heater only

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

FOPS (Falling Object Protective Structure)

FOG (Falling Object Guard)

### Cabin roof-steel cover

### Wire net - Cabin front guard

### Cabin lights

### Rain guard - Front window

### Undercarriage

Rear outriggers

Rear dozer blade and front outriggers

Rear and front outriggers

Rear outriggers and front dozer blade

### Additional cover under lower frame

### Tool kit

### Operator suit

### Rearview camera

### Seat

Adjustable air suspension

Adjustable air suspension with heater

Mechanical suspension with heater

### Dual tires - solid (10.00 - 20)

### Fenders

### Pattern change valve (2 patterns)

### Hi-mate (Remote Management System)

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards. All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT



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