

We build a better future

Rabex

210W-9

Equipped with Tier 3 Engine



*Photo may include optional equipment.

 HYUNDAI
HEAVY INDUSTRIES EUROPE

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.

Machine Walk-Around

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 Posi-Nega hydraulic system combines straightforward technology with superior response.



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

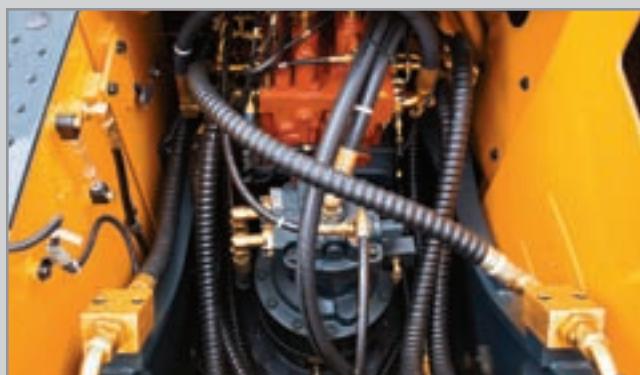
Some jobs require more precise machine settings; some operators prefer different machine settings. Using the User-mode, the operator can customize engine speed, pump output, idle speed and other machine settings according to personal preferences.

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.



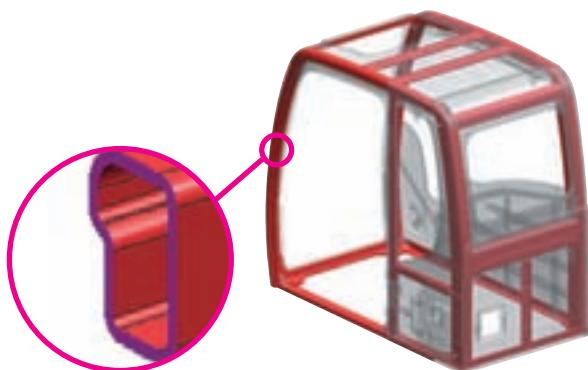
Auto Boom vs. Swing Priority

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.





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.

Independent Outriggers

The R210W-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.

Travel System

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.

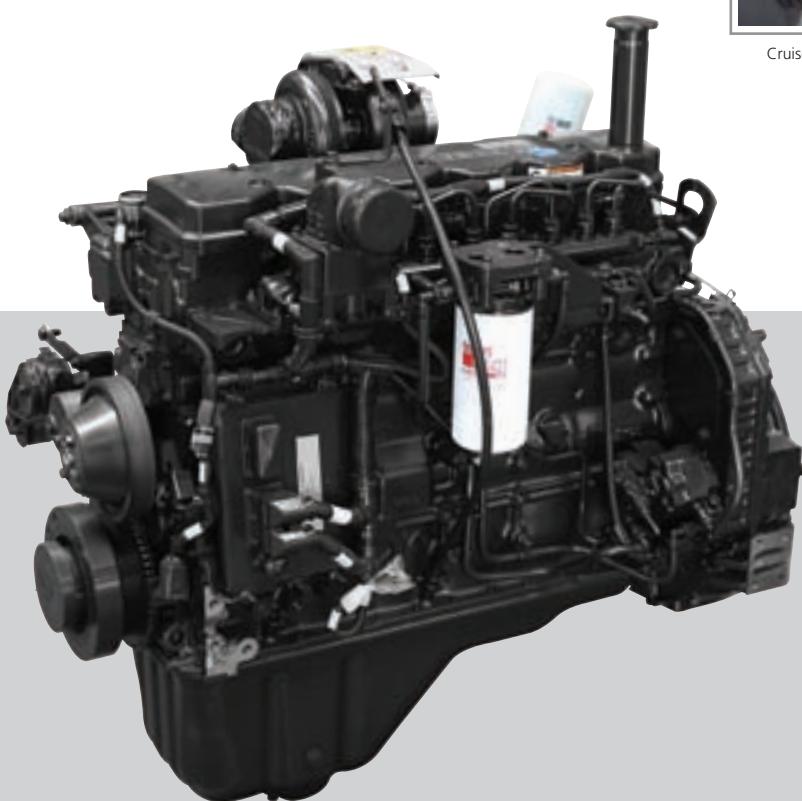
A creep speed travel system improves maneuverability and fine control. An optional forward / reverse travel pedal allows the operator to change travel direction in work mode without releasing the joysticks.



Cruise control system

Auto ram lock system

Creep speed travel system



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.



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.



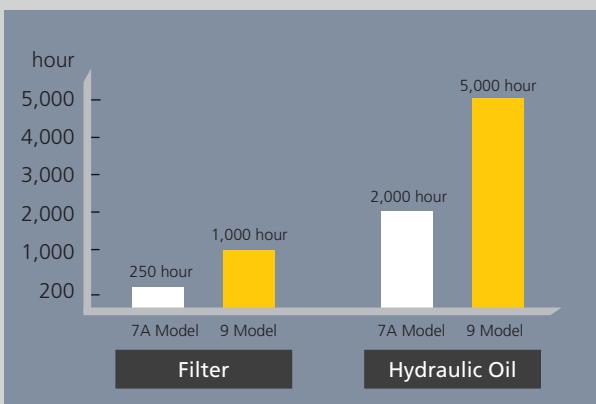
Fuel Economy

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.



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 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)	176 HP (131 kW) at 1,900 rpm	
		J1349 (net)	165 HP (123 kW) at 1,900 rpm	
DIN		6271/1 (gross)	178 PS (131 kW) at 1,900 rpm	
		6271/1 (net)	167 PS (123 kW) at 1,900 rpm	
Max. torque			81.4 kgf.m (589 lbf.ft) at 1,400 rpm	
Bore x stroke			107 x 124 mm (4.2" x 4.9")	
Piston displacement			6,700 cc (409 in³)	
Batteries			2 x 12 V x 100 AH	
Starting motor			24V - 4.5kW	
Alternator			24V - 70Amp	

HYDRAULIC SYSTEM

MAIN PUMP

Type	Two variable displacement piston pumps
Max. flow	2 X 222 L/min (58.6 US gpm / 48.8 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 (4,980 psi)
Travel	380 kgf/cm² (5,400 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,400 psi)
Swing circuit	265 kgf/cm² (3,770 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder-bore x stroke	Boom : 2-120 x 1,290 mm (4.7" x 50.8") Arm : 1-140 x 1,510 mm (5.5" x 59.4") Bucket : 1-125 x 1,055 mm (4.9" x 41.5") Blade : 2-120 x 226 mm (4.7" x 8.9") Outrigger : 2-130 x 427 mm (5.1" x 16.8")
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DRIVES & BRAKES

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

Max. drawbar pull	11,100 kgf (24,470 lbf)
Travel speed	1st
	2nd

Gradeability	31.5° (61 %)
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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.

AXLES & WHEELS

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

Tires	10.00 - 20-16PR, Dual (tube type)
(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	10.3 rpm

STEERING SYSTEM

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

Min. turning radius	6,690 mm (21' 11")
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COOLANT & LUBRICANT CAPACITY

Re-filling	liter	US gal	UK gal
Fuel tank	310.0	81.9	68.2
Engine coolant	35.0	9.2	7.7
Engine oil	24	6.3	5.3
Swing device - gear oil	5	1.3	1.1
Axle	(front)	14.6	3.9
	(rear)	18.1	4.8
Hydraulic system (including tank)	340.0	89.8	74.8
Hydraulic tank	165.0	43.6	36.3

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 5.65 m (18' 6") boom, 2.92 m (9' 7") arm, SAE heaped 0.80 m³ (1.05 yd³) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

MAJOR COMPONENT WEIGHT

Upperstructure	8,950 kg (19,730 lb)
Counterweight	3,400 kg (7,500 lb)
Mono boom (with arm cylinder)	1,790 kg (3,950 lb)

OPERATING WEIGHT

Front outriggers and rear blade	20,500 kg (45,200 lb)
Front and rear outriggers	20,600 kg (45,400 lb)
Front blade and rear outriggers	20,900 kg (46,100 lb)

BUCKETS

All buckets are welded with high-strength steel



0.51 (0.67)



0.80 (1.05)
0.92 (1.20)



1.10 (1.44)
1.20 (1.57)



1.34 (1.75)



0.74 (0.97)



0.87 (1.14)



0.75 (0.98)

SAE heaped m³(yd³)

Capacity m ³ (yd ³)		Width mm (in)		Weight kg (lb)	Recommendation m (ft.in)		
SAE heaped	CECE heaped	Without side cutters	With side cutters		5.65 (18' 6") Boom		
		2.0 (6' 7") Arm	2.4 (7' 10") Arm		2.92 (9' 7") Arm	—	—
0.51 (0.67)	0.45 (0.59)	700 (27.6)	820 (32.3)	570 (1,260)	●	●	●
0.80 (1.05)	0.70 (0.92)	1,000 (39.4)	1,120 (44.1)	700 (1,540)	●	●	●
0.87 (1.14)	0.75 (0.98)	1,090 (42.9)	1,210 (47.6)	740 (1,630)	●	●	■
0.92 (1.20)	0.80 (1.05)	1,150 (45.3)	1,270 (50.0)	770 (1,700)	●	●	■
1.10 (1.44)	0.96 (1.26)	1,320 (52.0)	1,440 (56.7)	830 (1,830)	■	▲	▲
1.20 (1.57)	1.00 (1.31)	1,400 (55.1)	1,520 (59.8)	850 (1,870)	■	▲	—
1.34 (1.75)	1.15 (1.50)	1,550 (61.0)	1,670 (65.7)	920 (2,030)	▲	▲	—
◆ 0.74 (0.97)	0.65 (0.85)	985 (38.8)	-	770 (1,700)	●	●	●
◆ 0.90 (1.18)	0.80 (1.05)	1,070 (42.1)	-	810 (1,790)	●	●	■
◆ 1.05 (1.37)	0.92 (1.20)	1,290 (50.8)	-	890 (1,960)	■	▲	—
◎ 0.87 (1.14)	0.75 (0.98)	1,140 (44.9)	-	900 (1,980)	●	●	■
■ 0.75 (0.98)	0.65 (0.85)	1,790 (70.5)	-	880 (1,940)	●	●	■

◆ Heavy-duty bucket

■ Slope finishing bucket

◎ Heavy duty Rock-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. 5.65 m (18' 6") boom and 2.0 m (6' 7"); 2.4 m (7' 10") & 2.92 m (9' 7") arms are available.

DIGGING FORCE

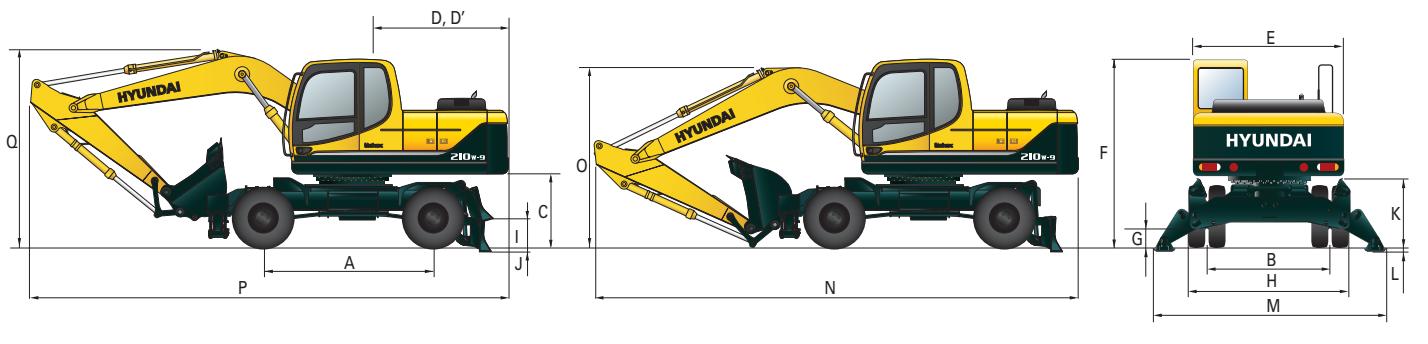
Boom	Length	mm (ft.in)	5,650 (18' 6")			Remarks
	Weight	kg (lb)	1,790 (3,950)			
Arm	Length	mm (ft.in)	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	[]: Power Boost
	Weight	kg (lb)	975 (2,150)	1,045 (2,300)	1,095 (2,410)	
Bucket digging force	SAE	kN	130.4 [141.6]	130.4 [141.6]	130.4 [141.6]	[]: Power Boost
		kgf	13,300 [14,440]	13,300 [14,440]	13,300 [14,440]	
		lbf	29,320 [31,830]	29,320 [31,830]	29,320 [31,830]	
	ISO	kN	149.1 [161.8]	149.1 [161.8]	149.1 [161.8]	
		kgf	15,200 [16,500]	15,200 [16,500]	15,200 [16,500]	
		lbf	33,510 [36,380]	33,510 [36,380]	33,510 [36,380]	
Arm crowd force	SAE	kN	144.2 [156.5]	119.6 [129.9]	102.0 [110.7]	
		kgf	14,700 [15,960]	12,200 [13,250]	10,400 [11,290]	
		lbf	32,410 [35,190]	26,900 [29,210]	22,930 [24,900]	
	ISO	kN	151.0 [164.0]	125.5 [136.3]	106.9 [116.1]	
		kgf	15,400 [16,720]	12,800 [13,900]	10,900 [11,830]	
		lbf	33,950 [36,860]	28,220 [30,640]	24,030 [26,090]	

Note: Boom weight includes arm cylinder, piping, and pin

Arm weight includes bucket cylinder, linkage, and pin

Dimensions & Working Ranges

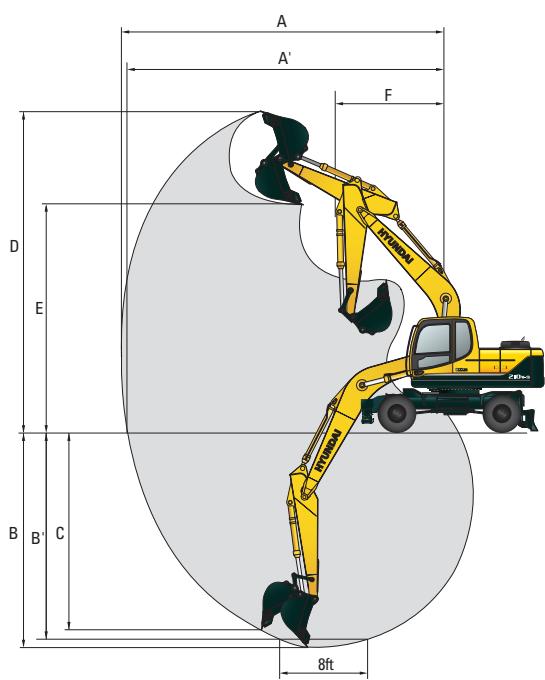
DIMENSIONS R210W-9



	mm (ft · in)
A Wheel base	2,800 (9' 2")
B Tread	1,874 (6' 2")
C Ground clearance of counterweight	1,305 (4' 3")
D Tail swing radius	2,800 (9' 2")
D' Rear-end length	2,765 (9' 1")
E Overall width of upperstructure	2,530 (8' 4")
F Overall height of cap	3,180 (10' 5")
G Min. ground clearance	345 (1' 2")
H Overall width of lower structure	2,490 (8' 2")
I Ground clearance of blade up	445 (1' 6")
Depth of blade down	125 (4.9")
J Height of blade	610 (2' 0")
Width of blade	2,490 (8' 2")
K Ground clearance of outrigger up	1,220 (4' 0")
L Depth of outrigger down	120 (4.7")
M Overall width of outrigger	3,770 (12' 4")

	Boom length	5,650 (18' 6")	
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")
N Shipping length of boom	9,680 (31' 9")	9,570 (31' 5")	9,500 (31' 2")
O Shipping height of boom	3,350 (10' 12")	3,240 (10' 8")	3,150 (10' 4")
P Traveling length of boom	9,630 (31' 7")	9,550 (31' 4")	9,520 (31' 3")
Q Traveling height of boom	3,530 (11' 7")	3,460 (11' 4")	3,440 (11' 3")

WORKING RANGES R210W-9



	Boom length	5,650 (18' 6")	
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")
A Max. digging reach	9,110 (29' 11")	9,480 (31' 1")	9,960 (32' 8")
A' Max. digging reach on ground	8,870 (29' 1")	9,260 (30' 5")	9,750 (32' 0")
B Max. digging depth	5,480 (18' 0")	5,880 (19' 3")	6,380 (20' 11")
B' Max. digging depth (8' level)	5,240 (17' 2")	5,670 (18' 7")	6,210 (20' 4")
C Max. vertical wall digging depth	4,970 (16' 4")	5,440 (17' 10")	5,990 (19' 8")
D Max. digging height	9,500 (31' 2")	9,730 (31' 11")	10,000 (32' 10")
E Max. dumping height	6,670 (21' 11")	6,900 (22' 8")	7,160 (23' 6")
F Min. swing radius	3,700 (12' 2")	3,620 (11' 11")	3,580 (11' 9")

Lifting Capacities

R210W-9

 Rating over-front  Rating over-side or 360 degrees

Boom : 5.65 m (18' 6") / Arm : 2.40 m (7' 10") / Bucket : 0.80 m³ (1.05 yd³) SAE heaped / Front outrigger and rear dozer blade down and 3,400 kg (7,500 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)	
7.5 m (25 ft)	kg lb										*3810 *8400
6.0 m (20 ft)	kg lb										*3910 *8620
4.5 m (15 ft)	kg lb					*5500 *12130	*5500 *12130	*4710 *10380	*4710 *10380	*4390 *9680	3350 7390
3.0 m (10 ft)	kg lb					*7330	*7330	*5550 *16160	4700 *12240	*4760 *10490	3230 7120
1.5 m (5 ft)	kg lb					*8950 *19730	6970 15370	*6390 *14090	4450 9810	*5180 *11420	3110 6860
Ground Line	kg lb					*9840 *21690	*9840 *21690	*9780 *21560	6720 14820	*6980 *15390	4290 9460
-1.5 m (-5 ft)	kg lb	*10680 *23550	*10680 *23550	*14730 *32470	14050 30970	*9850 *21720	6680 14730	*7130 *15720	4230 9330		*4830 *10650
-3.0 m (-10 ft)	kg lb	*15190 *33490	*15190 *33490	*13270 *29260	*13270 *29260	*9140 *19450	6780 14950	*6600 *14550	4300 9480		*4870 *10740
-4.5 m (-15 ft)	kg lb					*10270 *22640	*10270 *22640	*7070 *15590	*7070 *15590		

Boom : 5.65 m (18' 6") / Arm : 2.40 m (7' 10") / Bucket : 0.80 m³ (1.05 yd³) SAE heaped / Front outrigger and rear dozer blade up and 3,400 kg (7,500 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)	
7.5 m (25 ft)	kg lb										*3810 *8400
6.0 m (20 ft)	kg lb										3310 7300
4.5 m (15 ft)	kg lb					*5500 *12130	4770 10520	*4710 *10380	2930 6460	3840 8470	1900 4190
3.0 m (10 ft)	kg lb					*7330 *16160	4220 9300	5400 11900	2690 5930	3730 8220	1800 3970
1.5 m (5 ft)	kg lb					8100 17860	3780 8330	5140 11330	2470 11330	3600 5450	1690 7940
Ground Line	kg lb					*9840 *21690	6700 14770	7850 17310	3570 7870	4970 10960	2320 5110
-1.5 m (-5 ft)	kg lb	*10680 *23550	*10680 *23550	*14730 *32470	6770 14930	7800 17200	3530 7780	4920 10850	2270 5000		3270 7210
-3.0 m (-10 ft)	kg lb	*15190 *33490	*15190 *33490	*13270 *29260	6960 15340	7900 17420	3620 7980	4990 11000	2330 5140		4290 9460
-4.5 m (-15 ft)	kg lb					*10270 *22640	7350 16200	*7070 *15590	3880 8550		

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

R210W-9

 Rating over-front  Rating over-side or 360 degrees

Boom : 5.65 m (18' 6") / Arm : 2.92 m (9' 7") / Bucket : 0.80 m³ (1.05 yd³) SAE heaped / 4 outrigger down and 3,400 kg (7,500 lb) counterweight

Load point height m (ft)	kg lb	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)	
9.0 m (30 ft)	kg lb								*3410 *7520	6.52 (21.4)
7.5 m (25 ft)	kg lb								*3470 *7650	7.96 (26.1)
6.0 m (20 ft)	kg lb						*2690 *5930	*2690 *5930	*3580 *7890	3140 6920 (29.0)
4.5 m (15 ft)	kg lb				*4210 *9280	*4210 *9280	*3980 *8770	*3980 *8200	*3720 6110	2770 (30.7)
3.0 m (10 ft)	kg lb	*10720 *23630	*10720 *23630	*6550 *14440	*6550 *14440	*5090 *11220	*4410 11220	3970 *9720	*3890 8750	2600 5730
1.5 m (5 ft)	kg lb	*8900 *19620	*8900 *19620	*8350 *18410	*8350 *18410	*6020 *13270	5510 12150	*4900 *10800	3820 8420	2570 5670
Ground Line	kg lb	*10210 *22510	*10210 *22510	*9470 *22510	8490 *20880	*6730 18720	5290 *14840	*5300 11660	3710 *11680	*4290 8180
-1.5 m (-5 ft)	kg lb	*9470 *20880	*9470 *20880	*13480 *29720	*13480 *29720	8360 *21650	*7060 18430	5190 *15560	*5440 *11990	3660 8070
-3.0 m (-10 ft)	kg lb	*12940 *28530	*12940 *28530	*14070 *31020	*14070 *31020	*9430 *20790	8410 18540	*6830 *15060	5220 11510	*4640 *10230
-4.5 m (-15 ft)	kg lb			*11670 *25730	*11670 *25730	*7990 *17610	*7990 *17610			

Boom : 5.65 m (18' 6") / Arm : 2.92 m (9' 7") / Bucket : 0.80 m³ (1.05 yd³) SAE heaped / 4 outrigger up and 3,400 kg (7,500 lb) counterweight

Load point height m (ft)	kg lb	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)	
9.0 m (30 ft)	kg lb								*3410 *7520	2840 6260
7.5 m (25 ft)	kg lb								*3470 *7650	1870 (26.1)
6.0 m (20 ft)	kg lb						*2690 *5930	2010 4430	2970 6550	1420 (29.0)
4.5 m (15 ft)	kg lb						*4210 *9280	2990 6590	3880 8550	1930 4250
3.0 m (10 ft)	kg lb	*10720 *23630	7970 17570	*6550 *14440	4340 9570	*5090 *11220	2730 6020	3740 8250	1810 3990	2450 5400
1.5 m (5 ft)	kg lb	*8900 *19620	6830 15060	8180 18030	3840 8470	5160 11380	2470 5450	3590 7910	1670 3680	2420 5340
Ground Line	kg lb	*10210 *22510	6570 14480	7830 17260	3550 7830	4950 10910	2290 5050	3480 7670	1570 3460	2550 5620
-1.5 m (-5 ft)	kg lb	*9470 *20880	*9470 *20880	*13480 *29720	6590 14530	7710 17000	3450 7610	4850 10690	2200 4850	1530 7580
-3.0 m (-10 ft)	kg lb	*12940 *28530	*12940 *28530	*14070 *31020	6740 14860	7760 17110	3790 7690	4870 10740	2220 4890	3370 8000
-4.5 m (-15 ft)	kg lb			*11670 *25730	7050 15540	7980 17590	3670 8090			

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

R210W-9

Boom : 5.65 m (18' 6") / Arm : 2.92 m (9' 7") / Bucket : 0.80 m³ (1.05 yd³) SAE heaped / Front outrigger and rear dozer blade down and 3,400 kg (7,500 lb) counterweight

Load point height m (ft)	kg lb	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)					
9.0 m (30 ft)	kg lb								*3410 *7520	*3410 *7520	6.52 (21.4)			
7.5 m (25 ft)	kg lb								*3470 *7650	3210 7080	7.96 (26.1)			
6.0 m (20 ft)	kg lb						*2690 *5930	*2690 *5930	*3580 *7890	2580 5690	8.85 (29.0)			
4.5 m (15 ft)	kg lb				*4210 *9280	*4210 *9280	*3980 *8770	3380 7450	*3720 *8200	2250 4960	9.37 (30.7)			
3.0 m (10 ft)	kg lb		*10720 *23630	*10720 *23630	*6550 *14440	*6550 *14440	*5090 *11220	4750 10470	*4410 *9720	3250 7170	*3890 *8580	2090 4610	9.59 (31.5)	
1.5 m (5 ft)	kg lb		*8900 *19620	*8900 *19620	*8350 *18410	7040 15520	*6020 *13270	4460 9830	*4900 *10800	3100 6830	*4080 *8990	2070 4560	9.54 (31.3)	
Ground Line	kg lb		*10210 *22510	*10210 *22510	*9470 *20880	6700 14770	*6730 *14840	4260 9390	*5300 *11680	2990 6590	*4290 *9460	2180 4810	9.21 (30.2)	
-1.5 m (-5 ft)	kg lb	*9470 *20880	*9470 *20880	*13480 *29720	*13480 *29720	*9820 *21650	6590 14530	*7060 *15560	4160 9170	*5440 *11990	2950 6500	*4500 *9920	2470 5450	8.56 (28.1)
-3.0 m (-10 ft)	kg lb	*12940 *28530	*12940 *28530	*14070 *31020	14020 30910	*9430 *20790	6640 14640	*6830 *15060	4190 9240			*4640 *10230	3130 6900	7.50 (24.6)
-4.5 m (-15 ft)	kg lb			*11670 *25730	*11670 *25730	*7990 *17610	6850 15100							

Boom : 5.65 m (18' 6") / Arm : 2.92 m (9' 7") / Bucket : 0.80 m³ (1.05 yd³) SAE heaped / Front outrigger and rear dozer blade up and 3,400 kg (7,500 lb) counterweight

Load point height m (ft)	kg lb	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)					
9.0 m (30 ft)	kg lb								*3410 *7520	2840 6260	6.52 (21.4)			
7.5 m (25 ft)	kg lb								*3470 *7650	1870 4120	7.96 (26.1)			
6.0 m (20 ft)	kg lb						*2690 *5930	2010 4430	2970 6550	1420 3130	8.85 (29.0)			
4.5 m (15 ft)	kg lb				*4210 *9280	2990 6590	3880 8550	1930 4250	2610 5750	1190 2620	9.37 (30.7)			
3.0 m (10 ft)	kg lb		*10720 *23630	7970 17570	*6550 *14440	4340 9570	*5090 *11220	2730 6020	3740 8250	1810 3990	2450 5400	1070 2360	9.59 (31.5)	
1.5 m (5 ft)	kg lb		*8900 *19620	6830 15060	8180 18030	3840 8470	5160 11380	2470 5450	3590 7910	1670 3680	2420 5340	1040 2290	9.54 (31.3)	
Ground Line	kg lb		*10210 *22510	6570 14480	7830 17260	3550 7830	4950 10910	2290 5050	3480 7670	1570 3460	2550 5620	1100 2430	9.21 (30.2)	
-1.5 m (-5 ft)	kg lb	*9470 *20880	*9470 *20880	*13480 *29720	6590 14530	7710 17000	3450 7610	4850 10690	2200 4850	3440 7580	1530 3370	2880 6350	1290 2840	8.56 (28.1)
-3.0 m (-10 ft)	kg lb	*12940 *28530	*12940 *28530	*14070 *31020	6740 14860	7760 17110	3490 7690	4870 10740	2220 4890			3630 8000	1700 3750	7.50 (24.6)
-4.5 m (-15 ft)	kg lb			*11670 *25730	7050 15540	7980 17590	3670 8090							

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.

Notes

Notes

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 (3,400 kg; 7,500 lb)

Accumulator for lowering work equipment

Lower frame under cover

Viscous fan clutch

Dual tires (10.00-20-16PR)

Travel alarm

OPTIONAL EQUIPMENT

Fuel filler pump (50 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

Mono Boom: 5.65 m; 18' 6"

2pc Boom: 5.65 m; 18' 6"

Arm

Extra Short arm (2.0 m; 6' 7")

Short arm (2.4 m; 7' 10")

Buckets

0.51 m³; 0.67 yd³

0.80 m³; 1.05 yd³

0.87 m³; 1.14 yd³

0.92 m³; 1.20 yd³

1.10 m³; 1.44 yd³

1.20 m³; 1.57 yd³

1.34 m³; 1.75 yd³

0.74 m³; 0.97 yd³ (Heavy-duty bucket)

0.90 m³; 1.18 yd³ (Heavy-duty bucket)

1.05 m³; 1.37 yd³ (Heavy-duty bucket)

0.87 m³; 1.14 yd³ (Heavy-duty bucket)

0.75 m³; 0.98 yd³ (Slope finishing 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

Front and rear outriggers

Front blade and rear outriggers

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)

2 Way Travel pedal

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

 **HYUNDAI**
HEAVY INDUSTRIES EUROPE
CONSTRUCTION EQUIPMENT