

Robex Equipped with EU Stage IIIB Engine

160w-9A

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



*Photo may include optional equipment.

 **HYUNDAI**

PRIDE AT WORK

Hyundai Heavy Industries strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, optimal controllability, versatile machine settings and proven technology.

Be proud of your work with Hyundai!



*Photo may include optional equipment.

Robex 160w-9A

Machine Walk-Around

Engine Technology

Proven, reliable, fuel efficient, low emission and low noise
Cummins Tier 4 Interim & EU Stage IIIB engine.

Hydraulic System Improvements

New patented hydraulic control for improved controllability / Improved control valve design for added efficiency and smoother operation / New auto boom and swing priority system for optimum speed / New auto power boost feature for additional power when needed / Improved arm-in and boom-down flow regeneration system for added speed and efficiency

Pump Compartment

Industry-leading, powerful, reliable Kawasaki designed, variable volume in-line axial piston pumps
New compact solenoid block equipped with 3 solenoid valves, 1 EPPR valve, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock

Enhanced Operators' Cab

Improved Visibility

Enlarged cab with improved visibility / See-through upper skylight for visibility and ventilation
Larger right-side glass, now one piece, for better right visibility
Safety glass windows on all sides - less expensive than (polycarbonate) and won't scratch or fade
Closeable sunshade for operator convenience / Reduced front window seam for improved operator view

Rigid Cabin Construction

New steel tube construction for added operator safety, protection and durability
New window open/close mechanism designed with cable and spring lift assist and single latch release

Improved Seat & Console

Ergonomic joysticks with auxiliary control buttons for attachment use. Now with new sleek styling
Heated suspension (standard) or optional air ride suspension with heat
New joystick consoles - now adjustable in height by pushing the button
Integrated seat with consoles - reduce the operator fatigue

Advanced 7" Color Cluster with Touch Screen

New Color LCD Display with easy to read digital gauges for hydraulic oil temperature, water temperature, and fuel. Simplified design makes adjustment and diagnostics easier. Also, new enhanced features such as rear-view camera are integrated into monitor.

3 power modes : (P) Power, (S) Standard, (E) Economy, 2 work modes : Dig & Attachment, (U) User mode for operator preference

Enhanced self-diagnostic features with GPS download capability

One pump flow or two pump flow for optional attachment is now selectable through the cluster

New anti-theft system with password capability

Boom speed and arm regeneration are selectable through the monitor.

Auto power boost is now available - selectable (on/off) through the monitor.

Powerful air conditioning and heat with auto climate control.

RMS (Remote Management System) works through GPS/satellite technology to ultimately provide better customer service and support.

PRECISION

Innovative hydraulic system technologies make the 9A series excavator fast, smooth and easy to control.



*Photo may include optional equipment.

Computer Aided Power

The engine horsepower and hydraulic horsepower work together in unison through the advanced CAPO (Computer Aided Power Optimization) system, flow for the job at hand. Operator can set their own preferences for boom or swing priority, power mode selection and optional work tools at the touch of a button.

The CAPO system also provides complete self diagnostic features and digital gauges for important information like hydraulic oil temperature, water temperatures and fuel level. This system interfaces with multiple sensors placed throughout the hydraulic system as well as the electronically controlled engine to provide the optimum level of engine power and hydraulic flow.

Power Mode P (Power Max) mode maximizes machine speed and power for mass production. S (Standard) mode provides a reduced, fixed rpm for optimum performance and improved fuel economy. For maximum fuel savings and improved control, E (Economy) mode provides precise flow and engine power based on load demand. Three unique power modes provide the operator with custom power, speed and fuel economy.

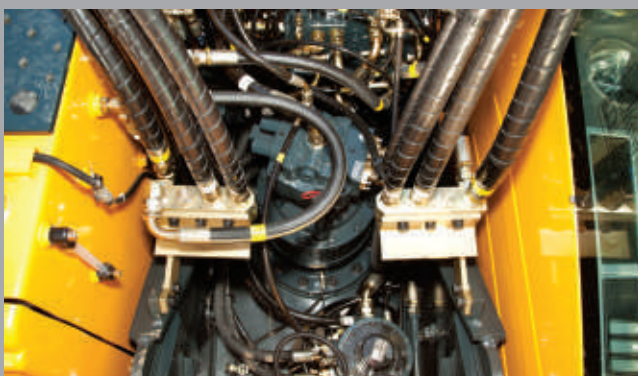
Work Mode The work mode allows the operator to select single flow attachments like a hydraulic breaker or bi-directional flow attachments like a crusher. Flow settings unique to each attachment can be programmed from within the cluster.

User Mode Some jobs require more precise machine settings. Using the versatile U (User) mode, the operator can customize engine speed, pump output, idle speed and other machine settings for the job at hand.

Hydraulic System Improvements



To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption. Improved spool valves in the control valve are engineered to provide more precise flow to each function with less effort. Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a 9A series look like a smooth operator. Newly improved features include arm-in and boom-down flow regeneration, improved control valve technology and innovative auto boom and swing priority for optimal performance 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

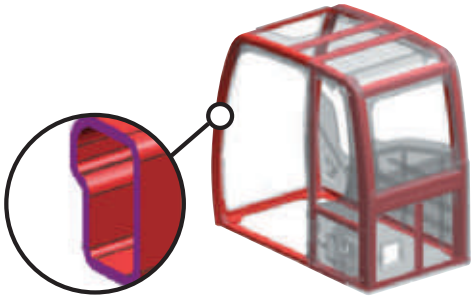
9A series is designed for maximum performance to keep the operator working productively.



*Photo may include optional equipment.

Independent Outriggers

The wheel excavators 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 9A series cabin structure has been fitted with stronger but slimmer tubing for more safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests.

ROPS (Roll Over Protective Structure) cab can be equipped to enhance operator safety.

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

The CUMMINS engine combines advanced electronic controls and a self-diagnostic system with reliable performance. The combination of a high pressure common rail system and an advanced in-cylinder combustion technology results in increased power, improved transient response and reduced fuel consumption. The Cummins engine complies with current emissions standards including EPA Tier 4 interim and EU Stage III-B.



PREFERENCE

Operating a 9A series is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.



*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 9A series cabin you can easily adjust the seat, console and armrest settings to best suit your comfort level. The seat integrated with console absorb console vibration by seat suspension and reduce operator's fatigue. Other preference settings that add to overall operator comfort include the fully automatic high capacity airconditioning system, transparent polycarbonate glass sun roof, large and easy to control sun visor, and the Radio / USB player.



Stressless

Work is stressful enough; your working environment should be stressless. Hyundai's 9A 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 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.



Smart Key System

9A series excavators provide smart key system as an option. This allows the operator to start the engine by the push of a starter button without inserting a key in the ignition.



Operator - Friendly Cluster

The advanced new cluster with 7 inch wide color LCD with Touch 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 were integrated into the cluster to make the machine more versatile and the operator more productive.

The newly applied FM transmitter application transmits signal to USB & Radio player with the same frequency as cluster. The player outputs the audio through the internal speaker in the cab. The video & firmware updates are possible with USB host support and an adjustable cluster hinge bracket improves cluster visibility.

Monitor Tilt Range



PROFITABILITY

9A series machines are designed to maximize profitability through improved fuel efficiency, enhanced service features and long-lasting components.



*Photo may include optional equipment.

Fuel Efficiency

9A series excavators are developed to do more work with less fuel. Innovations like the variable speed fan, three-stage auto decel system and the new economy mode are saving fuel and reducing 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 level to filters, lubrication fittings, fuses, drains and machine computer components, combined with wide open compartments makes service more convenient on the 9A series.

Extended Life of Components



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

Specifications R160W-9A

ENGINE

MODEL	CUMMINS QSB6.7	
Type	Water cooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, turbocharged, charged air cooled and low emission	
Rated flywheel horse power		
SAE	J1995 (gross)	165 HP (123 kW) / 2,200 rpm
	J1349 (net)	155 HP (115 kW) / 2,200 rpm
DIN	6271/1 (gross)	167 PS (123 kW) / 2,200 rpm
	6271/1 (net)	157 PS (115 kW) / 2,200 rpm
Max. torque	74.7 kgf.m (540 lbf.ft) / 1,500 rpm	
Bore x stroke	107 x 124 mm (4.21" x 4.88")	
Piston displacement	6,700 cc (409 in ³)	
Batteries	2 x 12 V x 100 Ah	
Starting motor	24 V - 4.8 kW	
Alternator	24 V - 95 A	

* This engine meets the EPA (Tier 4 interim) / EU (Stage III-B) Emission regulation.

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Two variable displacement piston pumps
Max. flow	2 x 172 l/min (45.4 US gpm / 37.8 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS

Travel	Bent - axis piston motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING

Implement circuits	350 kgf/cm ² (4,970 psi)
Travel	380 kgf/cm ² (5,400 psi)
Power boost (boom, arm, bucket)	380 kgf/cm ² (5,400 psi)
Swing circuit	285 kgf/cm ² (4,050 psi)
Pilot circuit	40 kgf/cm ² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder-bore x stroke	Boom : 2-115 x 1,090 mm (4.5" x 42.9")
	Arm : 1-120 x 1,355 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 18.2")
	2PC-boom : 1st: 2-115 x 760 mm (4.1" x 37.8") 2nd: 1-160 x 650 mm (6.3" x 25.6")

DRIVES & BRAKES

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

Max. drawbar pull	11,000 kgf (24,250 lbf)	
Travel speed	1st	9.5 km/h
	2nd	36.6 km/h
Gradeability	35° (70 %)	

Parking brake : Independent dual brake, front and rear axle full hydraulic power brake.
- Spring activated and hydraulic released
- Wet type multiple disk brake

CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatiguelss 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

Free oscillation front axle which can be blocked automatically or manually. Fixed rear axle for max. stability.

Tires	10.00 - 20 - 14PR, Dual (tube type)
(optional)	10.00 - 20, Dual (solid type)

SWING SYSTEM

Swing motor	Fixed displacement axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.5 rpm

STEERING SYSTEM

Hydraulically actuated, orbitrol type steering system.

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

	liter	US gal	UK gal
Fuel tank	270	71.3	59.4
Engine coolant	19.5	5.2	4.3
Engine oil	23.7	6.26	5.21
Swing device - gear oil	6.2	1.64	1.36
Axle	Front	15.5	4.09
	Rear	17.5	4.62
Hydraulic system (including tank)	210	55.5	46.2
Hydraulic tank	125	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 tool for leveling, back filling or clean-up work.
Outrigger	Maximum stability for digging and lifting work, can be installed on the front and/or rear side.

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 4,500 mm (14' 7") Mono boom; 2,200 mm (7' 21") arm, SAE heaped 0.70 m³ (0.91 yd³) backhoe bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	4,500 kg (9,920 lb)
Mono boom (with arm cylinder)	1,220 kg (2,688 lb)

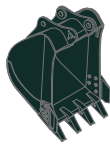
OPERATING WEIGHT	
Rear dozer blade	16,700 kg (36,813 lb)
Rear outriggers	16,850 kg (37,153 lb)
Front outriggers and rear blade	17,820 kg (39,288 lb)
Front blade and rear outriggers	17,780 kg (39,200 lb)
Four outriggers	18,000 kg (36,683 lb)

BUCKETS R160W-9A

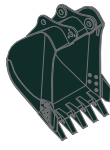
All buckets are welded with high-strength steel.



0.39 (0.51)



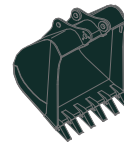
0.50 (0.65)



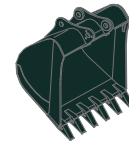
0.64 (0.84)



0.70 (0.92)



0.89 (1.16)



■ 0.69 (0.90)

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		5.0 (17' 1") Mono Boom		
					2.2 (7' 3") Arm	2.5 (8' 2") Arm	3.1 (10' 2") 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 (1,040)	●	●	●
0.64 (0.84)	0.55 (0.72)	920 (36.2)	1,040 (40.9)	510 (1,120)	●	●	■
0.70 (0.92)	0.60 (0.78)	990 (39.0)	1,110 (43.7)	540 (1,190)	●	■	■
0.89 (1.16)	0.77 (1.01)	1,220 (48.0)	1,340 (52.8)	610 (1,340)	▲	▲	—
■ 0.69 (0.9)	0.62 (0.81)	990 (39.0)	-	700 (1,540)	■	■	▲

■ 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 R160W-9A

Booms and arms are welded, a low-stress, full-box section design.

4.6 m & 4.9 m booms and 1.9 m; 2.1 m; 2.5 m; & 3.0 m arms are available.

DIGGING FORCE R160W-9A

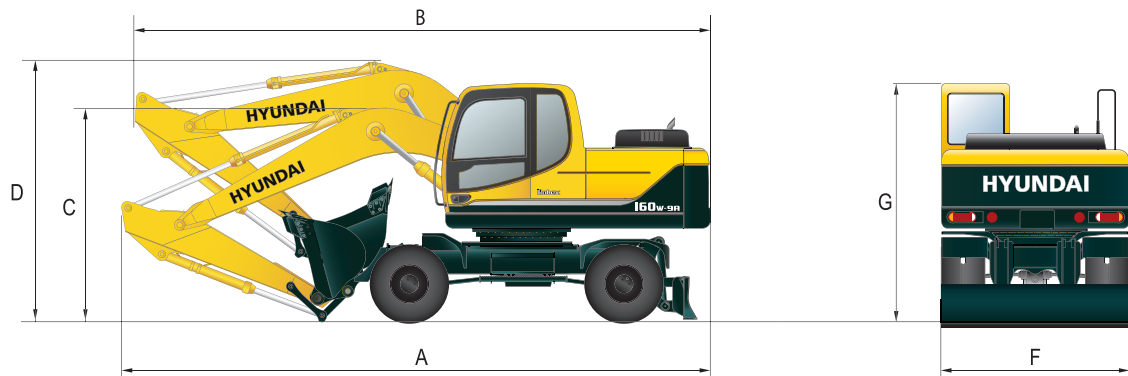
Boom	Length	mm (ft-in)	5,000 (16' 5")			Remarks:
	Weight	kg (lb)	1,040 (2,290)			
Arm	Length	mm (ft-in)	2,200 (7' 3")	2,500 (8' 2")	3,100 (10' 2")	[]: Power Boost
	Weight	kg (lb)	560 (1,230)	580 (1,280)	610 (1,340)	
Bucket digging force	SAE	kN	107.9 [117.1]	107.9 [117.1]	107.9 [117.1]	
		kgf	11,000 [11,940]	11,000 [11,940]	11,000 [11,940]	
		lbf	24,250 [26,330]	24,250 [26,330]	24,250 [26,330]	
	ISO	kN	124.5 [135.2]	124.5 [135.2]	124.5 [135.2]	
		kgf	12,700 [13,790]	12,700 [13,790]	12,700 [13,790]	
		lbf	28,000 [30,400]	28,000 [30,400]	28,000 [30,400]	
Arm crowd force	SAE	kN	87.2 [94.7]	78.5 [85.2]	69.4 [75.3]	
		kgf	8,890 [9,650]	8,000 [8,690]	7,080 [7,690]	
		lbf	19,600 [21,280]	17,640 [19,150]	15,610 [16,950]	
	ISO	kN	91.1 [98.9]	81.7 [88.7]	71.9 [78.1]	
		kgf	9,290 [10,090]	8,330 [9,040]	7,330 [7,960]	
		lbf	20,480 [22,240]	18,360 [19,930]	16,160 [17,550]	

Note: Boom weight includes arm cylinder, piping and pin

Arm weight includes bucket cylinder, linkage and pin

Dimensions & Working Ranges

DIMENSIONS R160W-9A

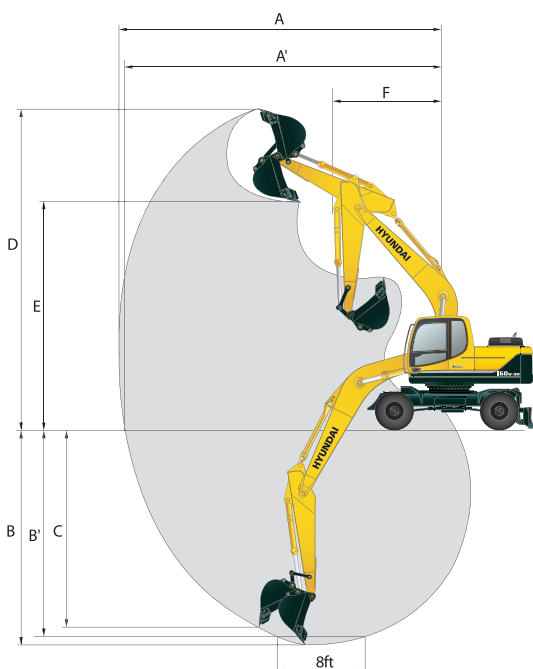


mm (ft · in)

Mono Boom	5,000 (16' 5")		
Arm	2,200 (7' 3")	2,500 (8' 2")	3,100 (10' 2")
A Overall length - shipping position	8,480 (27' 10")	8,470 (27' 9")	8,510 (27' 11")
B Overall length - traveling position	8,480 (27' 10")	8,320 (27' 4")	8,220 (26' 12")
C Height of attachment - shipping position	3,120 (10' 3")	3,170 (10' 5")	3,320 (10' 11")
D Height of attachment - traveling position	3,380 (11' 1")	3,800 (12' 6")	3,980 (13' 1")
F Overall width	2,500 (8' 2")	2,500 (8' 2")	2,500 (8' 2")
G Overall height of cab	3,190 (10' 6")	3,190 (10' 6")	3,190 (10' 6")

WORKING RANGES R160W-9A

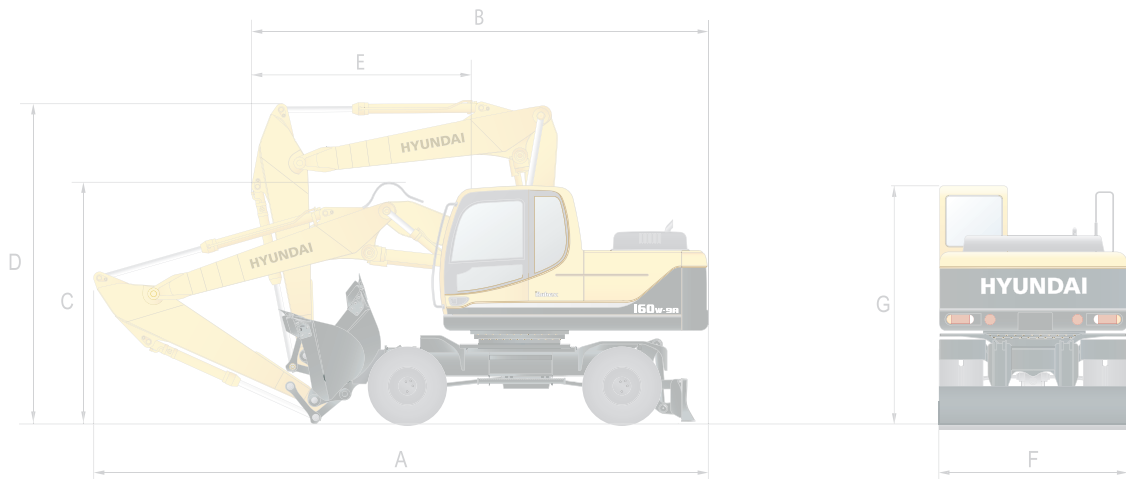
mm (ft · in)



Boom length	5,000 (16' 5")		
Arm length	2,200 (7' 3")	2,500 (8' 2")	3,100 (10' 2")
A Max. digging reach	8,570 (28' 1")	8,900 (29' 2")	9,350 (30' 8")
A' Max. digging reach on ground	8,360 (27' 5")	8,690 (28' 6")	9,160 (30' 1")
B Max. digging depth	5,350 (17' 7")	5,650 (18' 6")	6,250 (20' 6")
B' Max. digging depth (8' level)	5,120 (16' 10")	5,450 (17' 11")	6,060 (19' 11")
C Max. vertical wall digging depth	4,740 (15' 7")	5,260 (17' 3")	5,410 (17' 9")
D Max. digging height	8,850 (29' 0")	9,150 (30' 0")	9,150 (30' 0")
E Max. dumping height	6,220 (20' 5")	6,490 (21' 4")	6,540 (21' 5")
F Min. front swing radius	3,140 (10' 4")	3,170 (10' 5")	3,560 (11' 8")

Dimensions & Working Ranges

DIMENSIONS R160W-9A / HYDRAULIC ADJUSTABLE BOOM - COMING SOON

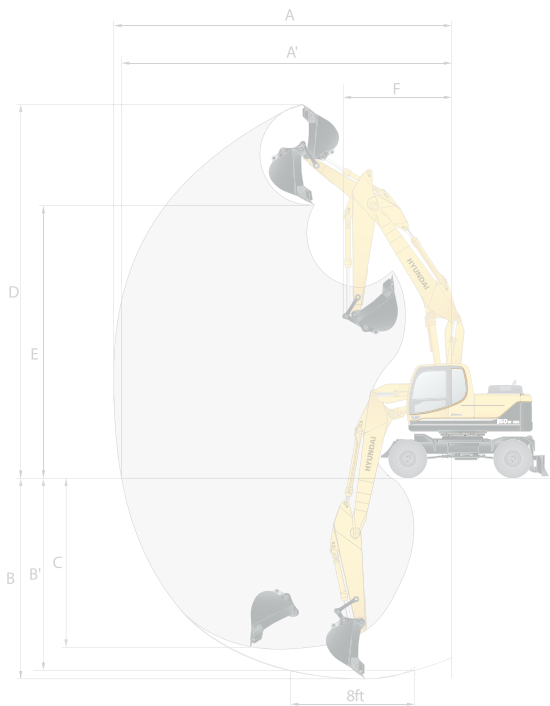


mm (ft · in)

Hydraulic adjustable boom			
Arm			
A Overall length - shipping position			
B Overall length - traveling position			
C Height of attachment - shipping position			
D Height of attachment - traveling position			
E End of attachment to steering wheel			
F Overall width			
G Overall height of cab			

WORKING RANGES R160W-9A / HYDRAULIC ADJUSTABLE BOOM - COMING SOON

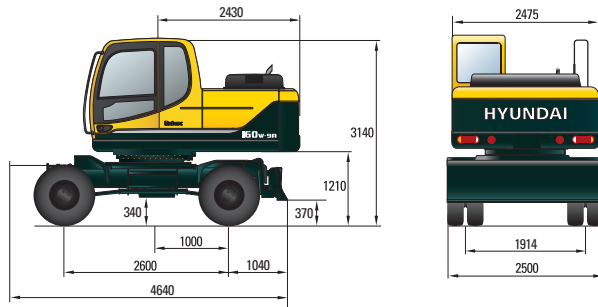
mm (ft · in)



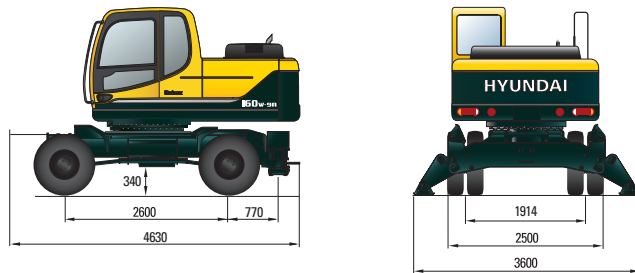
Boom length			
Arm length			
A Max. digging reach			
A' Max. digging reach on ground			
B Max. digging depth			
B' Max. digging depth (8' level)			
C Max. vertical wall digging depth			
D Max. digging height			
E Max. dumping height			
F Min. front swing radius			

Undercarriage

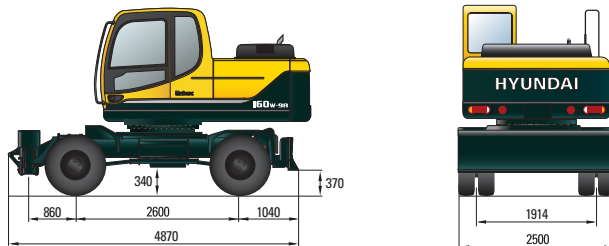
R160W-9A WITH REAR DOZER BLADE



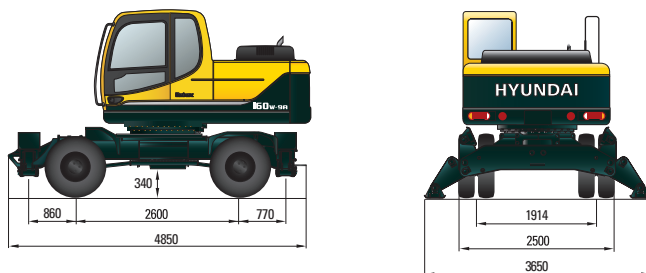
R160W-9A WITH REAR OUTRIGGERS



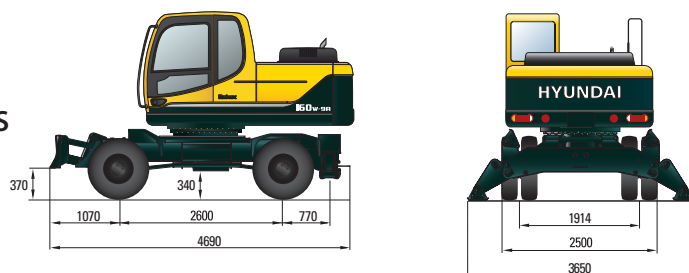
R160W-9A WITH REAR DOZER BLADE AND FRONT OUTRIGGERS



R160W-9A WITH REAR AND FRONT OUTRIGGERS



R160W-9A WITH REAR OUTRIGGERS AND FRONT DOZER BLADE













Lifting Capacities













R160W-9A MONO BOOM

 Rating over-front  Rating over-side or 360 degrees













Boom : 5.0 m (16' 51") / Arm : 2.2 m (7' 3") / Bucket : 0.70 m³ (0.92 yd³) SAE heaped / Rear dozer blade down

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity		Reach
												m (ft)
7.5 m (25.0 ft)	kg lb									*3780 *8330	3130 6900	5.72 (18.8)
6.0 m (20.0 ft)	kg lb						*2330 *5140	*2330 *5140		*3730 *8220	2120 4670	7.01 (23.0)
4.5 m (15.0 ft)	kg lb					*4730 *10430	4490 9900	*4220 *9300	2720 6000	*3770 *8310	1710 3770	7.73 (25.4)
3.0 m (10.0 ft)	kg lb			*9520 *20990	7830 17260	*5990 *13210	4140 9130	*4720 *10410	2590 5710	3470 7650	1520 3350	8.07 (26.5)
4.5 m (5.0 ft)	kg lb					*7180 *15830	3800 8380	*5270 *11620	2440 5380	3420 7540	1480 3260	8.08 (26.5)
Ground Line	kg lb			*9130 *20130	6850 15100	*7750 *17090	3610 7960	5450 12020	2330 5140	3630 8000	1570 3460	7.75 (25.4)
-1.5 m (-5.0 ft)	kg lb	*8620 *19000	*8620 *19000	*11230 *24760	6900 15210	*7560 *16670	3570 7870	*5400 *11900	2300 5070	*4070 *8970	1850 4080	7.05 (23.1)
-3.0 m (-10.0 ft)	kg lb	*12790 *28200	*12790 *28200	*9310 *20530	7080 15610	*6410 *14130	3650 8050			*3770 *8310	2630 5800	5.78 (19.0)

Boom : 5.0 m (16' 51") / Arm : 2.5 m (8' 2") / Bucket : 0.70 m³ (0.92 yd³) SAE heaped / Rear dozer blade down

Load point height m (ft)		Load radius								At max. reach				
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach
														m (ft)
7.5 m (25.0 ft)	kg lb											*3460 *7630	2720 6000	6.20 (20.3)
6.0 m (20.0 ft)	kg lb						*2910 *6420	2810 6190				*3140 *6920	1910 4210	7.39 (24.2)
4.5 m (15.0 ft)	kg lb						*3960 *8730	2740 6040				*3050 *6720	1560 3440	8.07 (26.5)
3.0 m (10.0 ft)	kg lb			*8610 *18980	8040 17730	*5620 *12390	4170 9190	*4500 *9920	2590 5710	*2190 *4830	1710 3770	*3090 *6810	1390 3060	8.40 (27.6)
1.5 m (5.0 ft)	kg lb			*8340 *18390	7060 15560	*6910 *15230	3800 8380	*5100 *11240	2420 5340	*2840 *6260	1640 3620	3180 7010	1350 2980	8.40 (27.6)
Ground Line	kg lb			*8900 *19620	6780 14950	*7630 *16820	3580 7890	*5420 *11950	2300 5070			3360 7410	1420 3130	8.09 (26.5)
-1.5 m (-5.0 ft)	kg lb	*7680 *16930	*7680 *16930	*11530 *25420	6780 14950	*7600 *16760	3500 7720	*5360 *11820	2250 4960			*3840 *8470	1660 3660	7.42 (24.3)
-3.0 m (-10.0 ft)	kg lb	*11220 *24740	*11220 *24740	*9850 *12720	6930 15280	*6700 *14770	3560 7850					*3630 *8000	2270 5000	6.25 (20.5)
-4.5 m (-15.0 ft)	kg lb			*6360 *14020	*6360 *14020									

Boom : 5.0 m (16' 51") / Arm : 3.1 m (10' 2") / Bucket : 0.70 m³ (0.92 yd³) SAE heaped / Rear dozer blade down

Load point height m (ft)		Load radius								At max. reach				
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach
														m (ft)
7.5 m (25.0 ft)	kg lb											*3050 *6720	2290 5050	6.83 (22.4)
6.0 m (20.0 ft)	kg lb						*2790 *6150	*2790 *6150				*2900 *6390	1670 3680	7.91 (26.0)
4.5 m (15.0 ft)	kg lb						*3450 *7610	2770 6110	*1820 *4010	1770 3900		*2860 *6310	1370 3020	8.55 (28.1)
3.0 m (10.0 ft)	kg lb					*4900 *10800	4260 9390	*4050 *8930	2600 5730	*2840 *6260	1700 3750	2930 6460	1220 2690	8.85 (29.0)
1.5 m (5.0 ft)	kg lb			*10520 *23190	7300 16090	*6350 *14000	3850 8490	*4740 *10450	2410 5310	*3530 *7780	1610 3550	2870 6330	1180 2600	8.86 (29.1)
Ground Line	kg lb	*4970 *10960	*4970 *10960	*10050 *22160	6770 14930	*7330 *16160	3560 7850	*5270 *11620	2260 4980	*3590 *7910	1540 3400	3010 6640	1230 2710	8.57 (28.1)
-1.5 m (-5.0 ft)	kg lb	*7320 *16140	*7320 *16140	*11840 *26100	6660 14680	*7610 *16780	3430 7560	5290 11660	2180 4810			3400 7500	1410 3110	7.94 (26.0)
-3.0 m (-10.0 ft)	kg lb	*10010 *22070	*10010 *22070	*10700 *23590	6740 14860	*7090 *15630	3430 7560	*4980 *10980	2190 4830			*3700 *8160	1850 4080	6.88 (22.6)
-4.5 m (-15.0 ft)	kg lb	*13470 *29700	*13470 *29700	*8060 *17770	7010 15450	*5310 *11710	3590 7910							













- 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.

Lifting Capacities

R160W-9A MONO BOOM

 Rating over-front  Rating over-side or 360 degrees










Boom : 4.6 m (15' 1") / Arm : 3.0 m (9' 10") / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity	Reach	
														m (ft)
6.0 m (20.0 ft)	kg lb							*2100 *4630	*2100 *4630			*2570 *5670	1480 3260	7.46 (24.5)
4.5 m (15.0 ft)	kg lb							*2710 *5970	2200 4850			*2590 *5710	1210 2670	8.14 (26.7)
3.0 m (10.0 ft)	kg lb					*3580 *7890	3450 7610	*3170 *6990	2090 4610	*1780 *3920	1350 2980	*2640 *5820	1080 2380	8.46 (27.8)
1.5 m (5.0 ft)	kg lb			*7700 *16980	6080 13400	*4840 *10670	3150 6940	*3770 *8310	1960 4320	*2190 *4830	1290 2840	2640 5820	1040 2290	8.46 (27.8)
Ground Line	kg lb	*3780 *8330	*3780 *8330	*9530 *21010	5580 12300	*5830 *12850	2920 6440	*4280 *9440	1840 4060	*1820 *4010	1250 2760	2780 6130	1100 2430	8.15 (26.7)
-1.5 m (-5.0 ft)	kg lb	*5830 *12850	*5830 *12850	*9890 *21800	5450 12020	*6250 *13780	2810 6190	*4490 *9900	1780 3920			3210 7080	1280 2820	7.48 (24.5)
-3.0 m (-10.0 ft)	kg lb	*8470 *18670	*8470 *18670	*9150 *20170	5500 12130	*5950 *13120	2820 6220	*3320 *7320	1810 3990			*3390 *7470	1750 3860	6.31 (20.7)
-4.5 m (-15.0 ft)	kg lb			*6890 *15190	5740 12650									










R160W-9A / HYDRAULIC ADJUSTABLE BOOM - COMING SOON

 Rating over-front  Rating over-side or 360 degrees

Boom : 4.9 m (16' 9") / Arm : 1.9 m (6' 3") / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down

Load point height m (ft)		Load radius						At max. reach		
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	Reach	
										
6.0 m (20.0 ft)	kg lb			*2960 *6530	*2960 *6530			*2910 *6420	1790 3950	6.70 (22.0)
4.5 m (15.0 ft)	kg lb	*4240 *9350	*4240 *9350	*3500 *7720	*3500 *7720	*3230 *7120	2110 4650	*3010 *6640	1410 3110	7.46 (24.5)
3.0 m (10.0 ft)	kg lb			*4520 *9960	3250 7170	*3630 *8000	2020 4450	3080 6790	1250 2760	7.81 (25.6)
1.5 m (5.0 ft)	kg lb			*5550 *12240	2980 6570	*4110 *9060	1900 4190	3040 6700	1220 2690	7.81 (25.6)
Ground Line	kg lb	*6150 *13560	5410 11930	*6150 *13560	2840 6260	*4450 *9810	1830 4030	3260 7190	1310 2890	7.47 (24.5)
-1.5 m (-5.0 ft)	kg lb	*9320 *20550	5480 12080	*6170 *13600	2820 6220	*4410 *9720	1820 4010	*3580 *7890	1590 3510	6.72 (22.0)
-3.0 m (-10.0 ft)	kg lb			*5400 *11900	2920 6440					

Boom : 4.9 m (16' 9") / Arm : 2.1 m (6' 11") / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down

Load point height m (ft)		Load radius						At max. reach		
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	Reach	
										
6.0 m (20.0 ft)	kg lb			*2770 *6110	*2770 *6110			*2780 *6130	1680 3700	6.91 (22.7)
4.5 m (15.0 ft)	kg lb			*3300 *7280	*3300 *7280	*3090 *6810	2110 4650	*2880 *6350	1330 2930	7.65 (25.1)
3.0 m (10.0 ft)	kg lb			*4320 *9520	3240 7140	*3500 *7720	2000 4410	2950 6500	1180 2600	7.99 (26.2)
1.5 m (5.0 ft)	kg lb			*5380 *11860	2950 6500	*4000 *8820	1870 4120	2910 6420	1140 2510	7.99 (26.2)
Ground Line	kg lb	*6320 *13930	5320 11730	*6040 *13320	2790 6150	*4370 *9630	1790 3950	3110 6860	1220 2690	7.66 (25.1)
-1.5 m (-5.0 ft)	kg lb	*9370 *20660	5370 11840	*6140 *13540	2760 6080	*4400 *9700	1770 3900	*3480 *7670	1470 3240	6.93 (22.7)
-3.0 m (-10.0 ft)	kg lb			*5500 *12130	2840 6260					











- 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.

Lifting Capacities

R160W-9A / HYDRAULIC ADJUSTABLE BOOM - COMING SOON

 Rating over-front  Rating over-side or 360 degrees

Boom : 4.9 m (16' 9") / Arm : 2.5 m (8' 2") / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Rear dozer blade down

Load point height m (ft)		Load radius								At max. reach		
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach m (ft)
												
6.0 m (20.0 ft)	kg lb					*2560 2180				*2580 1470		7.39 (24.2)
4.5 m (15.0 ft)	kg lb			*2900 *6390	*2900 *6390	*2800 *6170	2140 4720			*2680 *5910	1180 2600	8.08 (26.5)
3.0 m (10.0 ft)	kg lb	*5850 *12900	*5850 *12900	*3940 *8690	3290 7250	*3250 *7170	2010 4430	*2020 *4450	1300 2870	2700 5950	1050 2310	8.40 (27.6)
1.5 m (5.0 ft)	kg lb	*6100 *13450	5580 12300	*5080 *11200	2980 6570	*3800 *8380	1870 4120	*2540 *5600	1250 2760	2660 5860	1020 2250	8.40 (27.6)
Ground Line	kg lb	*6370 *14040	5300 11680	*5870 *12940	2780 6130	*4240 *9350	1770 3900			2820 6220	1080 2380	8.09 (26.5)
-1.5 m (-5.0 ft)	kg lb	*9040 *19930	5290 11660	*6120 *13490	2720 6000	*4400 *9700	1730 3810			*3240 *7140	1280 2820	7.41 (24.3)
-3.0 m (-10.0 ft)	kg lb	*8660 *19090	5430 11970	*5730 *12630	2770 6110							

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- (*) indicates the load limited by hydraulic capacity.

STANDARD EQUIPMENT R160W-9A

ISO Standard cabin

All-weather steel cab with 360° visibility
Safety glass windows
Rise-up type windshield wiper
Sliding fold-in front window
Sliding side window (LH)
One key fits all lockable doors
Hot & cool box
Storage compartment & Ashtray
Radio / MP3 Player with remote control and USB-input
Handsfree mobile phone system with USB-charging device
Transparent cabin roof-cover
12 volt power outlet (24V DC to 12V DC converter)
Sun visor
Rain guard - front window
Computer aided power optimization (CAPO) system
3-power modes, 2-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
Rearview camera
Door and cab locks, one key
Two outside rearview mirrors
Mechanical suspension seat with heater with seat belt
Adjustable joysticks
Console box tilting system
Two front working lights
Electric horn
Batteries (2 x 12V x 100 Ah)
Battery master switch
Removable clean-out screen for coolers
Automatic swing brake
Removable reservoir tank
Fuel pre-filter with fuel warmer
Boom holding system
Arm holding system
Accumulator for lowering work equipment
Electric transducer
Lower frame under cover
Viscous fan clutch
Rear-blade (550 mm x 2,500 mm)
Dual tires (10.00-20-14PR)

Fuel filler pump (35 ℓ/min)
Safety lock valve for boom cylinder with overload warning device
Double-acting piping kit (clamshell, etc.)
Travel alarm
Boom
Mono boom : 4.6 m; 15' 1"
Arm
2.2 m; 7' 21"
Cabin ROPS (ISO 12117-2)
ROPS (Roll Over Protective Structure)
Hi-mate (Remote Management System)

OPTIONAL EQUIPMENT R160W-9A

Beacon lamp
Safety lock valve for arm cylinder
Single-acting piping kit (breaker, etc.)
Quick coupler
Boom
Hydraulic adjustable Boom : 4.9 m; 16' 11"
Arms
1.9 m; 6' 3"
2.1 m; 6' 11"
2.5 m; 8' 2"
3.1 m; 10' 2"
Cabin FOPS/FOG (ISO/DIS 10262 Level II)
FOPS (Falling Object Protective Structure)
FOG (Falling Object Guard)
Cabin roof-steel cover
Cabin guard front
Wire net
Cabin lights
Undercarriage
Rear outriggers
Rear dozer blade and front outriggers
Rear and front outriggers
Rear outriggers and front dozer blade
Additional lower frame - reinforced under cover
Tool kit
Seat
Adjustable air suspension seat
Mechanical suspension seat with heater with
Mechanical suspension seat
Dual tires - solid (10.00 - 20)
Pattern change valve (2 patterns)
Smart key
Rotating piping with proportional Control RCV-Lever

- * Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards.
- * The photos may include attachments and optional equipment that are not available in your area.
- * Materials and specifications are subject to change without advance notice.
- * All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

