

STANDARD EQUIPMENT

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)
 Lockable door
 Hot & cool box
 Storage compartment & Ashtray
 Cabin roof-steel cover
 Radio & USB player
 12 volt power outlet (24V DC to 12V DC converter)
 Handsfree mobile phone system with USB
 Sun visor
 Cabin FOPS/FOG (ISO/DIS 10262 Level 2)
 FOPS (Falling Object Protective Structure)
 FOG (Falling Object Guard)
 Cabin lights
 Computer aided power optimization (New CAPO) system
 3-power mode, 2-work mode, User mode
 Auto deceleration & one-touch deceleration system
 Auto warm-up system
 Auto overheat prevention system
 Automatic climate control
 Full automatic temperature controller
 Defroster
 Self-diagnostics system
 Starting Aid (air grid heater) for cold weather
 Centralized monitoring
 LCD display
 Engine speed or Trip meter/Accel.
 Clock
 Gauges
 Fuel level gauge
 Engine coolant temperature gauge
 Hyd. oil temperature gauge
 Warnings
 Check engine
 Overload
 Communication error
 Low battery
 Air cleaner clogging
 Indicators
 Max power
 Low speed/High speed
 Fuel warmer
 Auto idle
 Two outside rearview mirrors
 Air-suspension seat with heater
 Pilot-operated slidable joystick
 Console box height adjust system
 Six front working lights, two rear lights
 Air horn
 Batteries (4 x 12V x 160 AH)
 Battery master switch
 Removable clean-out dust net for cooler
 Automatic swing brake
 Automatic fuel line deaeration
 Fuel pre-filter with fuel warmer
 Boom holding system
 Arm holding system
 Track shoes (700mm, 28")
 Full track rail guard
 Accumulator for lowering work equipment
 Electric transducer
 Lower frame under cover
 Viscous fan clutch
 Air compressor
 Travel alarm

OPTIONAL EQUIPMENT

Fuel filler pump (50 L/min)
 Beacon lamp
 Booms
 (7.55m, 24' 9")
 Arms
 (3.40m, 11' 2")
 Climate control
 Air conditioner only
 Heater only
 Track shoes
 Double grousers shoe (800mm, 32")
 Double grousers shoe (900mm, 36")
 Pre-heating system, coolant
 Tool kit
 Rearview camera
 Seat
 Mechanical suspension seat
 Mechanical suspension seat with heater
 Air-suspension seat
 Automatic lubrication
 Hi-mate (Remote Management System)
 Precleaner

- * 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

 **HYUNDAI CONSTRUCTION EQUIPMENT**

MOVING YOU FURTHER

Robex
1200-9

With Tier 2 Engine installed



*Photo may include optional equipment.

Pride at Work

Hyundai Heavy Industries strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality. Take pride in your work with Hyundai!

Robex 1200-9

Machine Walk-Around

Engine Technology

Proven / reliable, fuel efficient Cummins Tier II QSK23-C engine
Electronically controlled for optimum fuel to air ratio and clean, efficient combustion
Low noise / Auto engine overheat feature / Anti-restart feature

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 4 solenoid valves, 1 EPPR valve, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock

Enhanced Operator 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

Improved Cab 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 Suspension Seat / Console Assembly

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 way of dial at bottom
Adjustable arm rests - turn dial to raise or lower for optimum comfort

Advanced 7" Color Cluster

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, and (U) User mode for operator preference
Enhanced self-diagnostic features with GPS download capability
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.

RMS

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

Undercarriage

Sealed track chain (urethane seals) / Standard full track rail guard / Comfortable bolt-on steps
Large upper roller cut-outs for debris clean-out / Tapered side frames for debris clean-out / Grease-type track tensioner



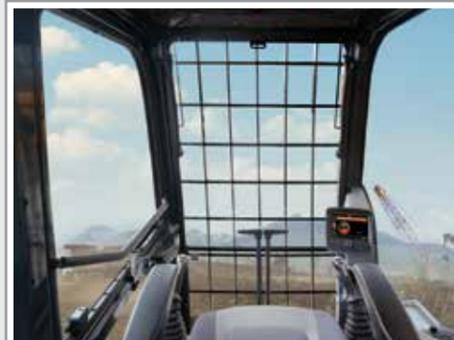
*Photo may include optional equipment.

Preference

Operating a 9 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.



Wide Cabin with Excellent Visibility

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. Single piece right side glass improves visibility and operator comfort. Plus, the front defrosting system provides more comfortable working condition. Special attention was given to a clear, open and convenient interior with plenty of visibility on the machine surroundings and the job at hand. This well balanced combination of precision aspects put the operator in the perfect position to work safely and securely.

Operator Comfort

In 9 series cabin you can easily adjust the seat, console and armrest settings to best suit your preferred comfort level. Other preference settings that add to overall operator comfort include the full automatic high capacity air conditioning system, transparent polycarbonate glass sun roof, large and easy to control sun visor, and radio / USB player.



Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai's 9 series provides improved cab amenities, additional space and a comfortable seat to minimize stress to the operator. The powerful climate control system and the optimized vent positions provide the operator with optimum air temperature. An advanced audio system with USB player, AM/FM stereo, plus remotely located controls is perfect for listening to music favorites. Operators can even talk on the phone with the hands-free cell phone feature.



Operator - Friendly Cluster

The advanced new 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 were integrated into the cluster to make the machine more versatile and the operator more productive.



Precision

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



*Photo may include optional equipment.

Computer Aided Power

The engine horsepower and hydraulic horsepower 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.

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.

Improved Hydraulic System



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 9 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-swing Priority

This smart function automatically and continuously looks the ideal hydraulic flow balance for the boom and swing motions of the machine. The advanced CAPO system monitors the hydraulic system and adjusts its settings to maximize performance and productivity.

Performance

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



*Photo may include optional equipment.

Excellent Reliability and Durability

Durable full track rail guards keep track links in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs.

The strengthened undercarriage is designed for excellent production at quarries and mines. R1200-9 is equipped with covers to protect the travel motors and hoses against damage from rocks.



CUMMINS QSK23-C Engine

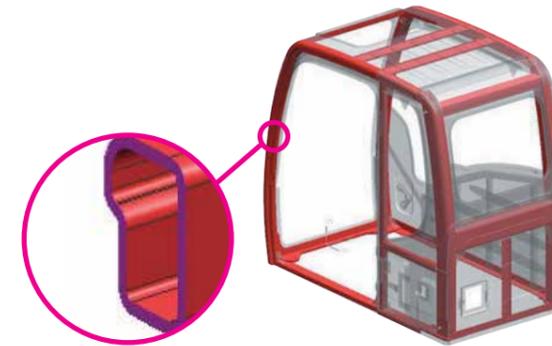
The Tier II compliant, six cylinder, turbo-charged, 4 cycle, water cooled, Cummins QSK23-C diesel engine is built for power, reliability, efficiency and reduced emissions.

Heavy-duty strength

The QSK23-C combines rugged productivity with a high power density and advanced engine management technology to deliver the lowest operating cost per ton of any mining engine in its class.

Its high-pressure injection (HPI) fuel system (up to 29,000 psi / 200,000 kPa) results in more complete combustion for superior engine response across the entire power curve and the lowest fuel consumption in its class. Its compact and balanced inline six-cylinder design and proven durability in the toughest mine sites make it a great choice to repower vee engines of similar displacement.

The one-piece Ferrous Cast Ductile (FCD) iron pistons and robust cylinder head work to improve long-term durability and dependability. A one-piece cast-iron block, forged-steel crankshaft and a large-diameter camshaft ensure long, reliable performance between overhauls, with the capability of multiple rebuild cycles.



Structure Strength

The 9 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.



Profitability

9 series is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.



Easy Access

Concentrated engine filters, remote type fuel pre-filter and fuel cut valve, and wide open compartments make service more convenient. The auto greasing system at the touch of a button provides simple and easy maintenance.



Hi-MATE (Remote Management System)

Hi-MATE, Hyundai's proprietary remote management system, provides operators and dealer service personnel access to vital service and diagnostic information on the machine from any computer with internet access. Users can pinpoint machine location using digital mapping and set machine work boundaries, reducing the need for multiple service calls. Hi-MATE saves time and money for the owner and dealer by promoting preventative maintenance and reducing machine downtime.

Enhanced Safety

Variable cabin guards offer enhanced operator safety. And the work lamps on the cab improved operator convenience at night time. Wide cat-walks, large handrails and anti-slip plates provide easy access to the cab and safer maintenance.



Long-Life Components

9 series excavators were designed with bushings designed for long-life lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), long-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated preheating systems which extend service intervals, minimize operating costs and reduce machine down time.

*Photo may include optional equipment.

Specifications

ENGINE

MODEL	CUMMINS QSK23-C		
Type	Water-cooled, 4-cycle Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charger air cooled, Low emission		
Rated flywheel horsepower	SAE	J1995 (gross) J1349 (net)	760HP (567kW)/ 1,800rpm 740HP (552kW)/ 1,800rpm
	DIN	6271/1 (gross) 6271/1 (net)	771PS (567kW)/ 1,900rpm 750PS (552kW)/ 1,800rpm
Max. torque	353.7kgf·m (2,558 lbf·ft) / 1,350rpm		
Bore X stroke	170mm X 170mm (6.69" X 6.69")		
Piston displacement	23,000cc (1,404 in ³)		
Batteries	4 X 12V X 160AH		
Starting motor	2 X24V, 7.5kW		
Alternator	24V, 75Amp		

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement axial piston pumps
Max. flow	3 X 490 L/min (129.4 US gpm / 107.8 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS	
Travel	Two-speed axial pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	320 kgf/cm ² (4,550 psi)
Travel	350 kgf/cm ² (4,980 psi)
Power boost (boom, arm, bucket)	350 kgf/cm ² (4,980 psi)
Swing circuit	300 kgf/cm ² (4,270 psi)
Pilot circuit	40 kgf/cm ² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom : 230 X 2,165 (9.1" X 85.2") Arm : 260 X 2,180 mm (10.2" X 85.8") Bucket : 240 X 1,792 mm (9.4" X 70.6")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	70,200 kgf (154,800 lbf)
Max. travel speed (high / low)	3.2 km/hr (2.0 mph) / 2.3 km/hr (1.4 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type

SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	5.6 rpm

COOLANT & LUBRICANT CAPACITY

Re-filling	liter	US gal	UK gal
Fuel tank	1,475.0	389.7	324.5
Engine coolant	100.0	26.4	22.0
Engine oil	70.0	18.5	15.4
Swing device - gear oil	8.0	2.1	1.8
Final drive (each) - gear oil	20.0	5.3	4.4
Hydraulic system (including tank)	1,160.0	306.4	255.2
Hydraulic tank	670.0	177.0	147.4

UNDERCARRIAGE

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

Center frame	X-leg type
Track frame	Pentagonal box type
No. of shoes on each side	52
No. of carrier rollers on each side	3
No. of track rollers on each side	8
No. of rail guards on each side	2

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 7,550mm (24' 9") boom, 3,400mm (11' 2") arm, SAE heaped 6.70m³ (8.76 yd³) HD bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	29,920kg (65,960lb)
Counterweight	20,400kg (44,970lb)
Boom (with arm cylinder)	12,640kg (27,870lb)

OPERATING WEIGHT			
Shoes	Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)	kgf/cm ² (psi)
Double grouser	700 mm (28")	118,000 (260,150)	1.09 (15.50)
	800 mm (32")	118,670 (261,620)	0.96 (13.65)
	900 mm (36")	119,470 (263,390)	0.87 (12.37)

AIR CONDITIONING SYSTEM

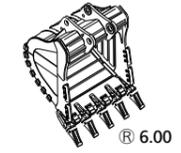
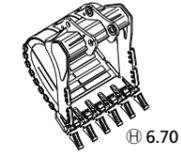
The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a. (Global Warming Potential : 1430)

The system hold 1kg refrigerant consisting of a CO₂ equivalent 1.43kg metric tonne.

For more information, Please refer to the manual

BUCKET

bucket is welded with high-strength steel.



Capacity m ³ (yd ³)		Width mm (in)	Weight kg (lb)	Tooth EA	Recommendation mm (ft-in)	
SAE heaped	CECE heaped				7,550(24' 9") Boom	
				3,400(11' 2") Arm		
⊕ 6.70 (8.76)	5.90 (7.72)	2,625 (103.3")	7,350 (16,200)	6	■	
Ⓡ 6.00 (7.85)	5.30 (6.93)	2,455 (96.7")	6,650 (14,660)	5	●	

⊕ Heavy duty

Ⓡ Rock

● : Applicable for materials with density of 2,100 kg /m³ (3,500 lb/ yd³) or less

● : Applicable for materials with density of 1,800 kg /m³ (3,000 lb/ yd³) or less

■ : Applicable for materials with density of 1,500 kg /m³ (2,500 lb/ yd³) or less

■ : Applicable for materials with density of 1,200 kg /m³ (2,000 lb/ yd³) or less

▲ : Applicable for materials with density of 900 kg /m³ (1,500 lb/ yd³) or less

- : Not Recommended

ATTACHMENT

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

7,550 mm (24' 9"), boom and 3,400 mm (11' 2"), arms are available, Hyundai Bucket are all-welded, high-strength steel implements.

DIGGING FORCE

Boom	Length	mm (ft-in)	7,550 (24' 9")	Remarks
	Weight	kg (lb)	10,540 (23,240)	
Arm	Length	mm (ft-in)	3,400 (11' 2")	[]: Power Boost
	Weight	kg (lb)	4,030 (8,880)	
Bucket digging force	SAE	kN	511.9 [558.5]	
		kgf	52,200 [56,950]	
		lbf	115,080 [125,540]	
	ISO	kN	581.5 [634.4]	
		kgf	59,300 [64,690]	
		lbf	130,730 [142,610]	
Arm crowd force	SAE	kN	423.7 [462.2]	
		kgf	43,200 [47,130]	
	ISO	lbf	95,240 [103,900]	
		kN	429.5 [468.6]	
	kgf	43,800 [47,780]		
	lbf	96,560 [105,340]		

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

Arm weight includes bucket cylinder, linkage, and pin

