

# R480LC-9S SMART

**OPERATING WEIGHT: 49500 kgs** 

GROSS POWER: 353 HP @ 1900 rpm

**BUCKET CAPACITY: 3.03m<sup>3</sup>** 



## **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!



## 100 9× 480 LC-9

### Machine Walk-Around

### **Engine Technology**

Proven / reliable, fuel efficient Cummins Tier III QSM11 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 filtercontrols 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, 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 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, 20% more heat and air output than 7A series!

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

#### Undercarriage

Sealed track chain (urethane seals) / Standard 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



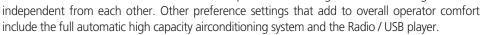


### Wide Cabin with Excellent Visibility

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. 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. Seat and console position and height can be set together and







### **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. A powerful climate control system provides 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.



### **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.

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P (Power Max) mode maximizes machine speed and power for mass production.

Power Mode

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.

### Improved Hydraulic System

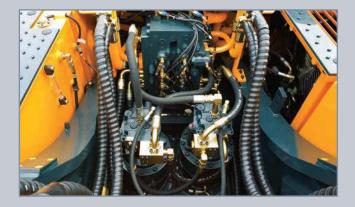


To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption.

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

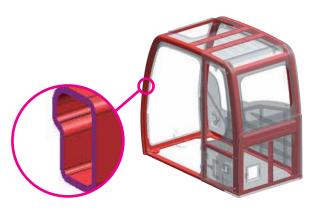
9 series is designed for maximum performance to keep the operator working productively.



### Track Rail Guard & Adjusters

Durable track rail guards keep track links in place. Track

adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs.



### 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.

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

### **CUMMINS QSM11 Engine**

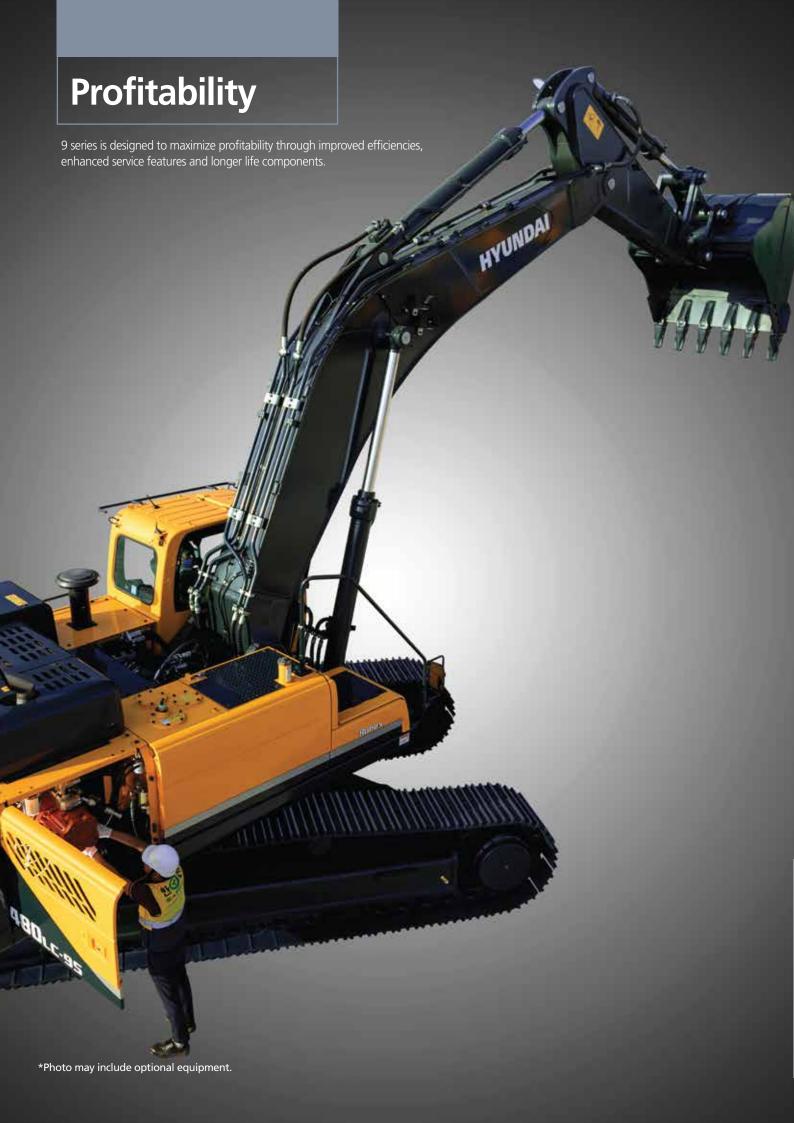
The Tier III compliant, six cylinder, turbo-charged, 4 cycle, water cooled, Cummins QSM11 diesel engine is built for power, reliability, efficiency and reduced emissions.

### Heavy-duty strength

The QSM11 from Cummins. With advanced electronics. Higher torque. Better throttle response. Shorter service times. Longer maintenance intervals. Increased fuel economy. Decreased noise. Diagnostics. Prognostics. Engine protection, and more. All wrapped up in something we call the Quantum system.

The QSM11 is built to withstand the toughest work environment. Bearings have more surface area to handle higher loads with greater durability. The exhaust manifold allows for heat expansion and contraction, eliminating metal stress fractures. Reduced friction in the power cylinder means longer life and increased power output. From the structurally reinforced block to the stiffened gear housing, the QSM11 is built stronger to last longer.





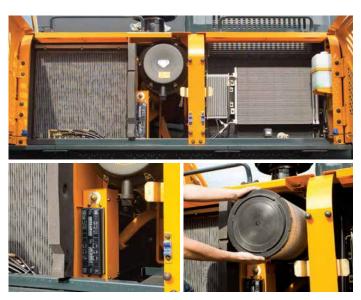
### **Fuel Efficiency**

9 series excavators are engineered to be extremely fuel efficient. New innovations like fan clutch, the variable speed remote fan, two-stage auto decel system and the new economy mode help to conserve fuel and reduce the impact on the environment.



### 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.



### Easy Access

Ground-line access to filters, lube fittings, fuses, machine computer components and wide open compartments makes service more convenient on the 9 series.



### 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.

### **Specifications**

### **ENGINE**

MODEL			CUMMINS QSM11	
Time			Water-cooled, 4-cycle Diesel,	
			6-Cylinder in-line, Direct injection,	
Туре			Turbocharged, Charger air cooled,	
			Low emission	
Rated	SAE	J1995 (gross)	353HP (266kW)/ 1,900rpm	
flywheel	JAE	J1349 (net)	342HP (255kW)/ 1,900rpm	
,	DIN	6271/1 (gross)	362PS (266kW)/ 1,900rpm	
horsepower	DIN	6271/1 (net)	347PS (255kW)/ 1,900rpm	
Max. torque	Max. torque		170.8kgf·m (1,235lbf·ft)/1,400rpm	
Bore X stroke			125mm X 147mm (4.92" X 5.79")	
Piston displacement			10,800cc (659 in³)	
Batteries			2 X 12V X 200AH	
Starting motor			24V, 7.2kW	
Alternator			24V, 70Amp	

#### **HYDRAULIC SYSTEM**

MAIN PUMP		
Туре	Variable displacement tandem-axis piston pump	
Max. flow	2 X 370 L /min (97.7 US gpm / 81.4 UK gpm)	
Sub-pump for pilot circuit	Gear pump	
Cross-sensing and fuel saving pump	o system	
HYDRAULIC MOTORS		
Travel	Two-speed axial pistons motor	
rravei	with brake valve and parking brake	
Swing	Axial piston motor with automatic brake	
RELIEF VALVE SETTING		
Implement circuits	330 kgf/cm <sup>2</sup> (4,690 psi)	
Travel	330 kgf/cm² (4,690 psi)	
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)	
Swing circuit	285 kgf/cm² (4,050 psi)	
Pilot circuit	40 kgf/cm² (570 psi)	
Service valve	Installed	
HYDRAULIC CYLINDERS		
No of adjuden	Boom: 2-170 X1,570 mm (6.7" X 61.8")	
No. of cylinder	Arm: 1-190 X 1,820 mm (7.5" X 71.7")	
bore X stroke	Bucket: 1-160 X 1,370 mm (6.3" X 53.9")	

### **DRIVES & BRAKES**

Drive method	Fully hydrostatic type	
Drive motor	Axial piston motor, in-shoe design	
Reduction system	Planetary reduction gear	
Max. drawbar pull	38,500 kgf (84,800 lbf)	
Max. travel speed (high / low)	5.0 km/hr (3.1 mph) / 3.2 km/hr (2.0 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 pistons motor	
Swing reduction	Planetary gear reduction	
Swing bearing lubrication	Grease-bathed	
Swing brake	Multi wet disc	
Swing speed	9.0 rpm	

#### **COOLANT & LUBRICANT CAPACITY**

Re-filling	liter	
Fuel tank	621	
Engine coolant	50	
Engine oil	37	
Swing device - gear oil	5	
Final drive (each) - gear oil	5	
Hydraulic system (including tank)	380	
Hydraulic tank	262	

#### **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 triple grouser shoes.

Center frame	X-leg type	
Track frame	Pentagonal box type	
No. of shoes on each side	53	
No. of carrier rollers on each side	2	
No. of track rollers on each side	9	
No. of rail guards on each side	2	

### **OPERATING WEIGHT (APPROXIMATE)**

Operating weight, including 6,550mm (21' 6") Heavy duty boom, 2,550mm (8' 4") Heavy duty arm, SAE heaped 3.03m³(3.92 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT			
Upper structure 10,940kg (24,120lb)			
Boom (with arm cylinder)	4,110kg (9,060lb)		

OPERATING WEIGHT					
Shoes		Operating weight	Ground pressure		
Туре	Width mm (in)	kg (lb)	kgf/cm² (psi)		
Triple grouser	600 mm (24")	49,500 (106,040)	0.83 (11.80)		

#### **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 0.85kg refrigerant consisting of a CO<sub>2</sub> equivalent 1.22kg metric tonne. For more information, Please refer to the manual.

### **BUCKETS**

All buckets are welded with high-strength steel.



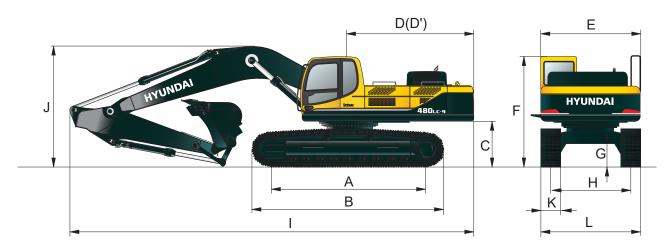
Capacity					Recommendation mm (ft.in)
m³ (yd³)					CF F00 (24) C//\ Deem
SAE	CECE	Width	Weight	Tooth	65,500 (21' 6") Boom
heaped	heaped	mm (in)	kg (lb)	EA	2,550 (8′ 4″) Arm
3.03 (3.92)	2.70 (3.53)	1905 (76")	2460 (6420)	6	
2.79 (3.65)	2.47 (3.23)	1785 (70")	2630 (5800)	6	•
2.43 (3.18)	2.11 (2.76)	1750 (69")	2730 (6020)	6	•

- $\ensuremath{\mathbb{O}}$  : Applicable for materials with density of 1,800 kg /m³ (3,000 lb/ yd³) or less
- $\blacksquare$  : Applicable for materials with density of 1,600 kg /m³ (2,700 lb/ yd³) or less

### **DIGGING FORCE**

Boom	Length	mm (ft.in)	6,550
			<u> </u>
Arm	Length	mm (ft.in)	2,550 (8′ 4″)
		kN	211.8 [231.0]
Bucket	SAE	kgf	21,600 [23,560]
		lbf	47,620 [51,940]
digging		kN	246.2 [268.5]
force	ISO	kgf	25,100 [27,380]
		lbf	55,340 [60,360]
Arm		kN	232.7 [253.9]
	SAE	kgf	23,730 [25,890]
		lbf	52,320 [57,080]
crowd		kN	243.2 [265.3]
force	ISO	kgf	24,800 [27,050]
		lbf	54,670 [59,630]

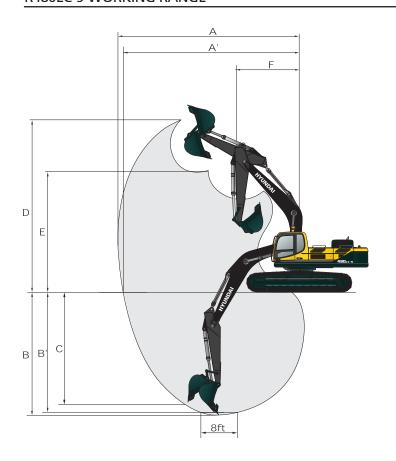
## Dimensions & Working Range



A Tumbler distance	4,470 (14′ 8″)
B Overall length of crawler	5,462 (17′ 11″)
C Ground clearance of counterweight	1,295 (4′ 3″)
D Tail swing radius	3,750 (12′ 4″)
D' Rear-end length	3,695 (12′ 1″)
E Overall width of upperstructure	2,980 (9′ 9″)
F Overall height of cab	3,190 (10′ 6″)
G Min. ground clearance	555 (1′ 10″)
H Track gauge	2,740 (9′ 0″)

Boom length	6,550 (21′ 6″)	
Arm length	2,550 (8′ 4″)	
I Overall length	11,630 (38′ 2″)	
Overall height of boom	3,750 (12′ 4″)	
K Track shoe width	600 (24")	
L Overall width	3,340 (10′ 11″)	

### R480LC-9 WORKING RANGE



	Boom length	6,550 (21' 6")
	Arm length	2,550 (8′ 4″)
А	Max. digging reach	10,860 (35′ 8″)
A'	Max. digging reach on ground	10,640 (34' 11")
В	Max. digging depth	6,570 (21′ 7″)
B'	Max. digging depth (8' level)	6,400 (21′ 0″)
С	Max. vertical wall digging depth	5,610 (18' 5")
D	Max. digging height	10,580 (34' 9")
Е	Max. dumping height	7,070 (23′ 2″)
F	Min. swing radius	4,390 (14′ 8″)

### **Lifting Capacity**

### R480LC-9

Rating over-front Rating over-side or 360 degree

Boom: 6.55m (21' 6") / Arm: 2.55 m (7' 10") / Bucket: 3.03 m³ (2.81 yd³) SAE heaped / Shoe: 600mm (24") triple grouser Load radius At max. reach Load point 4.5 m (14.8 ft) 9.0 m (29.5 ft) 3.0 m (9.8 ft) 6.0 m (19.7 ft) 7.5 m (24.6 ft) Capacity Reach height 4 m (ft) ₩ 40 ₩ ₩ ₩ m (ft) 9.0 m \*12650 \*12650 5.72 kg \*27890 \*27890 (29.5 ft) lb (18.8)\*13270 \*13270 7.5 m kg \*11430 11210 7.17 (24.6 ft) lb \*29260 \*29260 \*25200 24710 (23.5)6.0 m \*14050 \*14050 \*12530 10340 \*11030 9100 8.09 kg \*30970 \*30970 \*27620 \*24320 (19.7 ft) lb 22800 20060 (26.5)\*20440 \*20440 \*15540 14070 \*13090 \*11080 8020 4.5 m 10050 8.65 kg \*45060 \*45060 17680 (14.8 ft) lb \*34260 31020 \*28860 22160 \*24430 (28.4)3.0 m \*23270 19970 \*17130 13320 \*13820 9690 \*11510 7480 8.92 kg (9.8 ft) lb \*51300 44030 \*37770 29370 \*30470 21360 \*25380 16490 (29.3)\*18140 \*14330 \*11910 1.5 m 12740 9370 7320 8.93 kg (4.9 ft) \*39990 29370 \*31590 \*26260 16140 (29.3)20660 lb \*22570 18910 \*14290 \*11880 0.0 m kg \*18170 12430 9160 7520 8.69 (0.0 ft)\*49760 41690 \*40060 27400 \*31500 20190 \*26190 16580 (28.5)\*16270 \*16270 \*21830 18970 \*17110 12360 \*13360 9120 \*11710 8190 8.16 -1.5 m kg \*35870 \*35870 \*37720 \*29450 \*25820 (-4.9 ft) lb \*48130 41820 27250 20110 18060 (26.8)\*21500 \*21500 \*11130 -3.0 m \*18470 \*18470 \*14650 12520 9670 7.28 kg (-9.8 ft) lb \*47400 \*47400 \*40720 \*40720 \*32300 27600 \*24540 21320 (23.9)-4.5 m \*12790 \*12790 \*9300 \*9300 5.91 kg

(-14.8 ft)

\*28200

\*28200

\*20500

\*20500

(19.4)

<sup>1.</sup> Lifting capacity is based on ISO 10567.

<sup>2.</sup> 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.

<sup>3.</sup> The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).

<sup>4. (\*)</sup> indicates the load limited by hydraulic capacity.

### STANDARD EQUIPMENT

STANDAND EQUIFINENT
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
Transparent cabin roof-cover
Radio & USB player
Handsfree mobile phone system with USB  12 volt power outlet (24V DC to 12V DC converter)
Sun visor
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 Air conditioner & heater
Defroster 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 Check engine
Overland
Overload  Communication error
Communication error
Communication error Low battery Air cleaner clogging Indicators
Communication error Low battery Air cleaner clogging Indicators Max power
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer Auto idle
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer Auto idle Three outside rearview mirrors Mechanical suspension seat with heater Pilot-operated slidable joystick
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer Auto idle Three outside rearview mirrors Mechanical suspension seat with heater Pilot-operated slidable joystick Console box height adjust system
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer Auto idle Three outside rearview mirrors Mechanical suspension seat with heater Pilot-operated slidable joystick Console box height adjust system Four front working lights, one rear light
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer Auto idle Three outside rearview mirrors Mechanical suspension seat with heater Pilot-operated slidable joystick Console box height adjust system Four front working lights, one rear light Electric horn
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer Auto idle There outside rearview mirrors Mechanical suspension seat with heater Pilot-operated slidable joystick Console box height adjust system Four front working lights, one rear light Electric horn Batteries (2 x 12V x 200 AH)
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer Auto idle Three outside rearview mirrors Mechanical suspension seat with heater Pilot-operated slidable joystick Console box height adjust system Four front working lights, one rear light Electric horn Batteries (2 x 12V x 200 AH) Battery master switch
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Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer Auto idle Three outside rearview mirrors Mechanical suspension seat with heater Pilot-operated slidable joystick Console box height adjust system Four front working lights, one rear light Electric horn Batteries (2 x 12V x 200 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
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Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer Auto idle Three outside rearview mirrors Mechanical suspension seat with heater Pilot-operated slidable joystick Console box height adjust system Four front working lights, one rear light Electric horn Batteries (2 x 12V x 200 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 (600mm, 24") Track rail guard Accumulator for lowering work equipment Electric transducer Lower frame under cover (Normal) Viscous fan clutch
Communication error Low battery Air cleaner clogging Indicators Max power Low speed/High speed Fuel warmer Auto idle Three outside rearview mirrors Mechanical suspension seat with heater Pilot-operated slidable joystick Console box height adjust system Four front working lights, one rear light Electric horn Batteries (2 x 12V x 200 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 (600mm, 24") Track rail guard Accumulator for lowering work equipment Electric transducer Lower frame under cover (Normal) Viscous fan clutch Travel alarm
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Boom
Standard boom (6.55m,21'6")
Arm
Standard arm (2.55m)

Standard arm (2.55m)
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
Counterweight
9,700kg (21,380lb)
10,200kg (22,490lb)
10,700kg (23,590lb)
Climate control
Heater only
Cabin FOPS/FOG (ISO 10262 Level II)
FOPS (Falling Object Protective Structure)
Cabin ROPS (ISO 12117-2)
ROPS (Roll Over Protective Structure)
Cabin guard front
Wire net
Fine net
Cabin roof-steel cover
Cabin lights
Cabin front window rain guard
Lower frame under cover (Additional)
Pre-heating system, coolant
Operator suit
Rearview camera
Seat
Adjustable air suspension seat
Adjustable air suspension seat with heater
Mechanical suspension seat
Pattern change valve (2 patterns)

- \* 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		



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