

HYUNDAI INDIA

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PLEASE CONTACT

<http://www.hyundaiindia.net>

We build a better future

Robex 390LC-9

With Tier 2 Engine installed



*Photo may include optional equipment.

 **HYUNDAI**
CONSTRUCTION EQUIPMENT
INDIA

Pride at Work

Hyundai 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!



Robex390LC-9

Machine Walk-Around

Engine Technology

- Proven / reliable, fuel efficient Hyundai D6AC-C engine
- Low noise / Auto engine warm up 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
- Larger right-side glass, now one piece, for better right visibility
- Safety glass windows on all sides - 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
- 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 / satellite / cellular technology enabled
- 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, 20% more heat and air output than 7 series!
- RMS (Remote Management System) works through GPS/cellular 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

*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. 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 personal operating preferences. Seat and console position can be set together and independent from each other. Other preference settings that add to overall operator comfort include the fully automatic high capacity airconditioning system and the 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. A powerful climate control system provides the operator with optimum air temperature. An advanced audio system with USB player, AM/FM stereo is perfect for listening to music favorites.



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 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 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.

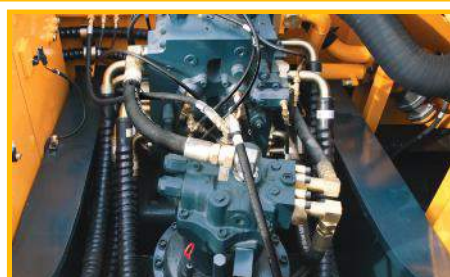
Improved Hydraulic System



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 operation. 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.

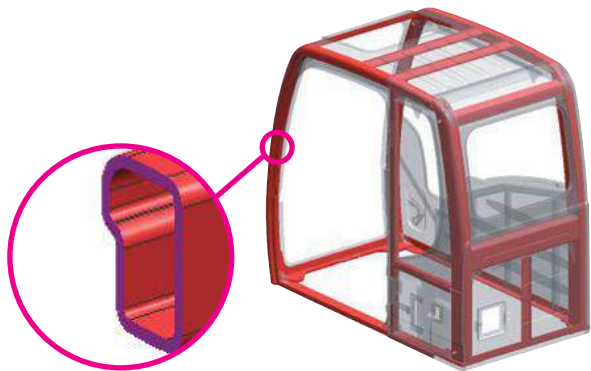


*Photo may include optional equipment.



Track Rail Guard & Adjusters

Triple 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.

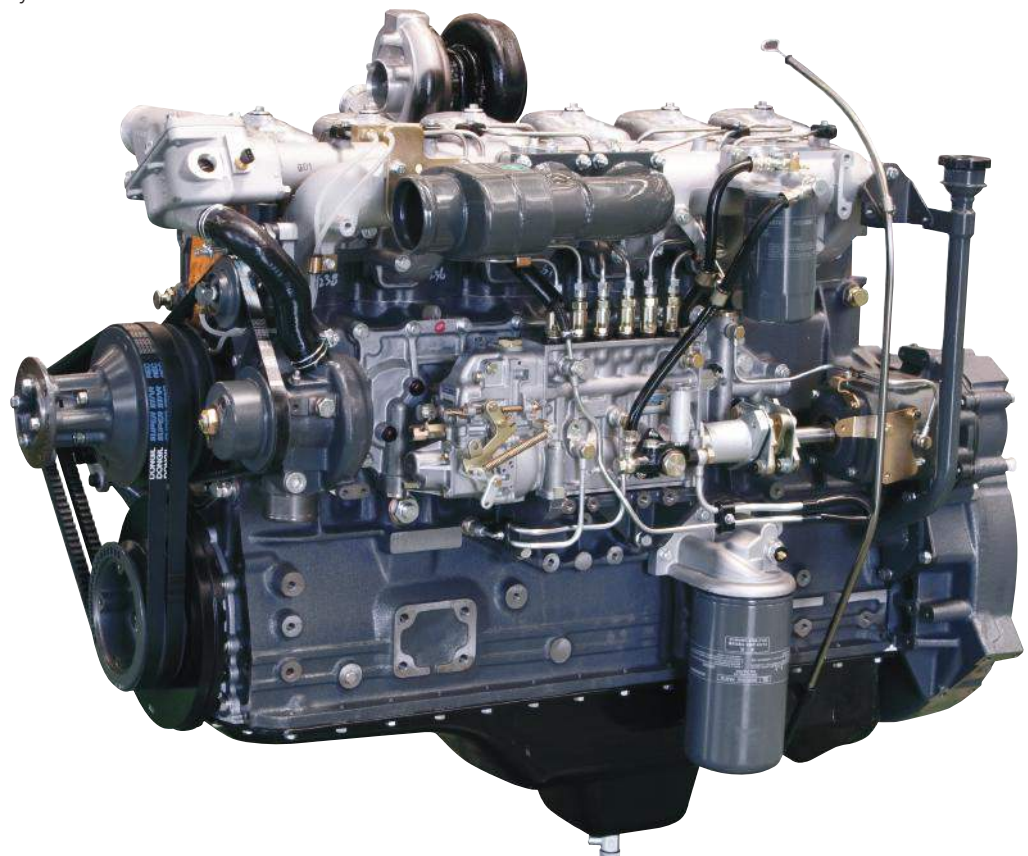
HYUNDAI D6AC-C ENGINE

The six cylinders, 4 cycle, turbo-charged, charger air cooled engine is built for power, reliability, economy and low emissions.

A More Reliable Way To Reach Your Dream

When you have a tough job to do, you need power precision and flexibility of Hyundai D6AC-C engine. It is built to withstand the toughest work environment. Bearings have more surface area to handle higher loads with greater durability. Reduced friction in the power cylinder means longer life and increased power output. From the structurally reinforced block to the stiffened gear housing, the D6AC-C is built stronger to last longer.

The D6AC-C engine is capable of reaching Tier 2 emission standards without electronic engine controls. It uses durable mechanical IN-LINE fuel injection system. You get a proven power plant that meets ecological concerns, without paying a premium for technology you don't need.



Profitability

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



*Photo may include optional equipment.

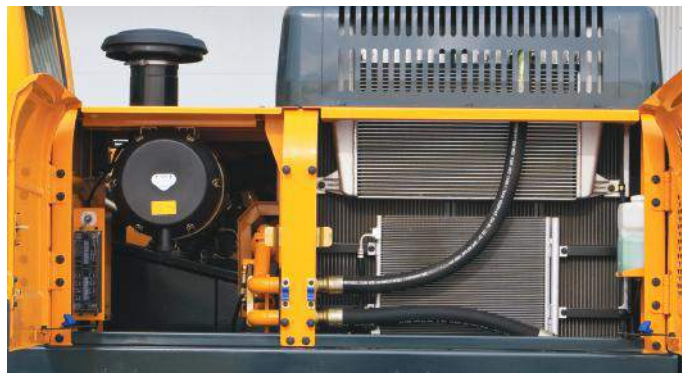
Fuel Efficiency

9 Series excavators are engineered to be extremely fuel efficient. New innovations like 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 which extend service intervals, minimize operating costs and reduce machine down time.

Specifications

ENGINE

MODEL	HYUNDAI D6AC-C		
Type	Water cooled, 4 cycle Diesel, 6-cylinders in line, direct injection, turbocharged, charger air cooled, low emission		
Rated flywheel horse power	SAE	J1995 (gross)	276 HP (206 kW) at 1,900 rpm
		J1349 (net)	261 HP (195 kW) at 1,900 rpm
	DIN	6271/1 (gross)	280 PS (206 kW) at 1,900 rpm
		6271/1 (net)	265 PS (195 kW) at 1,900 rpm
Max. torque	120.0kgf.m (868lbf.ft)/1,400rpm		
Bore X stroke	130mm X 140mm (9.56" X 10.3")		
Piston displacement	11,149cc (680 in ³)		
Batteries	2 X 12V X 160AH		
Starting motor	24V, 5.5 kW		
Alternator	24V, 70 Amp		

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem axis piston pumps
Rated flow	2 X 280 L/min (74.0 US gpm / 61.6 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	330 kgf/cm ² (4,690 psi)
Travel	360 kgf/cm ² (5,120 psi)
Power boost (boom, arm, bucket)	360 kgf/cm ² (5,120 psi)
Swing circuit	290 kgf/cm ² (4,125 psi)
Pilot circuit	40 kgf/cm ² (569 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder	Boom: 2-160 X 1,500 mm (6.3" X 59.1")
bore X stroke	Arm: 1-170 X 1,760 mm (6.7" X 69.3") Bucket: 1-150 X 1,295 mm (5.9" X 51.0")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	32,000 kgf (70,550 lbf)
Max. travel speed(high) / (low)	5.0 km/hr (3.1 mph) / 3.1 km/hr (1.9 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	Fixed displacement axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.7 rpm

COOLANT & LUBRICANT CAPACITY

Refilling	liter	US gal	UK gal
Fuel tank	550	145.3	121.0
Engine coolant	52.0	13.7	11.4
Engine oil	27.3	7.2	6.0
Swing device-gear oil	8.0	2.1	1.8
Final drive(each)-gear oil	4.3	1.1	0.9
Hydraulic system(including tank)	410.0	108.3	90.2
Hydraulic tank	210.0	55.5	46.2

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	51 EA
No. of carrier roller on each side	2 EA
No. of track roller on each side	9 EA
No. of rail guard on each side	3 EA

OPERATING WEIGHT (APPROXIMATE)

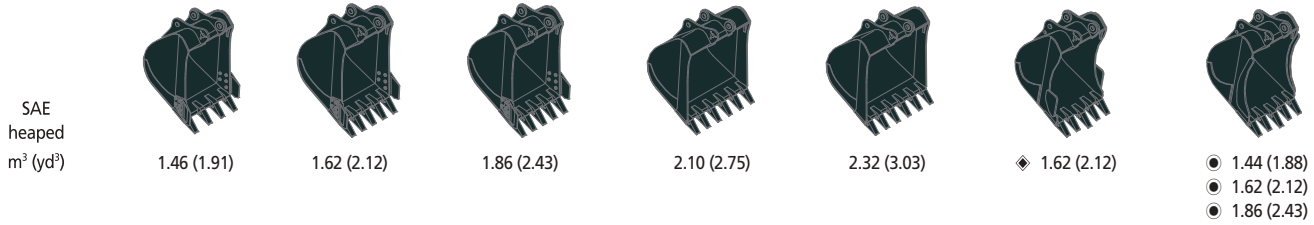
Operating weight, including 6,500mm (21' 4") boom, 2,900mm (9' 6") arm, SAE heaped 1.44m³ (1.88 yd³) HD bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	8,750 kg (19,290 lb)
Boom (with arm cylinder)	3,780 kg (8,330 lb)
Arm (with bucket cylinder)	2,140 kg (4,720 lb)

OPERATING WEIGHT				
Type	Shoes		Operating weight kg (lb)	Ground pressure kgf/cm ² (psi)
	Width mm (in)			
Triple grouser	600 (24")		38,995 (85,970)	0.70 (9.95)
	700 (28")		39,445 (86,960)	0.61 (8.67)
	750 (30")		39,670 (87,460)	0.57 (8.11)
	800 (32")		39,895 (87,950)	0.54 (7.68)
	900 (36")		40,345 (88,950)	0.48 (6.83)
Triple grouser (Heavy Duty)	600 (24")		39,335 (86,760)	0.71 (10.10)
	700 (28")		39,855 (87,870)	0.61 (8.67)
Double grouser	600 (24")		39,265 (86,560)	0.71 (10.10)
	700 (28")		39,765 (87,670)	0.61 (8.67)

BUCKETS

All buckets are welded with high-strength steel.



Capacity m³ (yd³)		Width mm (in)		Weight kg (lb)	Recommendation mm (ft-in)						
SAE heaped	CECE heaped	Without side cutters	With side cutters		6,500 (21' 4") Boom					6,150 (20' 2") Boom	8,600 (28' 3") Boom
					2,500 (8' 2") Arm	2,900 (9' 6") Arm	3,200 (10' 6") Arm	3,900 (12' 10") Arm	4,300 (14' 1") Arm	2,500 (8' 2") Arm	5,100 (16' 9") Arm
1.46 (1.91)	1.27 (1.66)	1,380 (54.3)	1,510 (59.4)	1,170 (2,580)	●	●	●	●	●	●	▲
1.62 (2.12)	1.40 (1.83)	1,440 (56.7)	1,570 (61.8)	1,280 (2,820)	●	●	●	■	■	●	-
1.86 (2.43)	1.60 (2.09)	1,620 (63.8)	1,750 (68.9)	1,390 (3,060)	●	●	●	■	▲	●	-
※ 2.10 (2.75)	1.80 (2.35)	1,810 (71.3)	1,940 (76.4)	1,520 (3,350)	■	■	■	▲	-	●	-
2.32 (3.03)	2.00 (2.62)	1,990 (78.3)	2,120 (83.5)	1,760 (3,880)	▲	▲	▲	▲	-	■	-
◆ 1.62 (2.12)	1.40 (1.83)	1,540 (60.6)	-	1,570 (3,460)	●	●	●	■	▲	●	-
◆ 1.44 (1.88)	1.27 (1.66)	1,280 (50.4)	-	1,565 (3,450)	●	●	●	■	▲	●	-
● 1.62 (2.12)	1.40 (1.83)	1,545 (60.8)	-	1,610 (3,550)	●	●	●	■	▲	●	-
● 1.86 (2.43)	1.60 (2.09)	1,725 (67.9)	-	1,710 (3,770)	■	■	■	-	-	■	-

◆ Heavy duty bucket

● Rock-Heavy duty bucket

※ Symbol indicates standard Bucket

Other buckets are optional & long lead

● : 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, a low-stress, full-box section design. 6.15m, 6.5m, 8.6m booms and 2.5m, 3.2m, 3.9m, 4.3m, 5.1m arms are available.

DIGGING FORCE

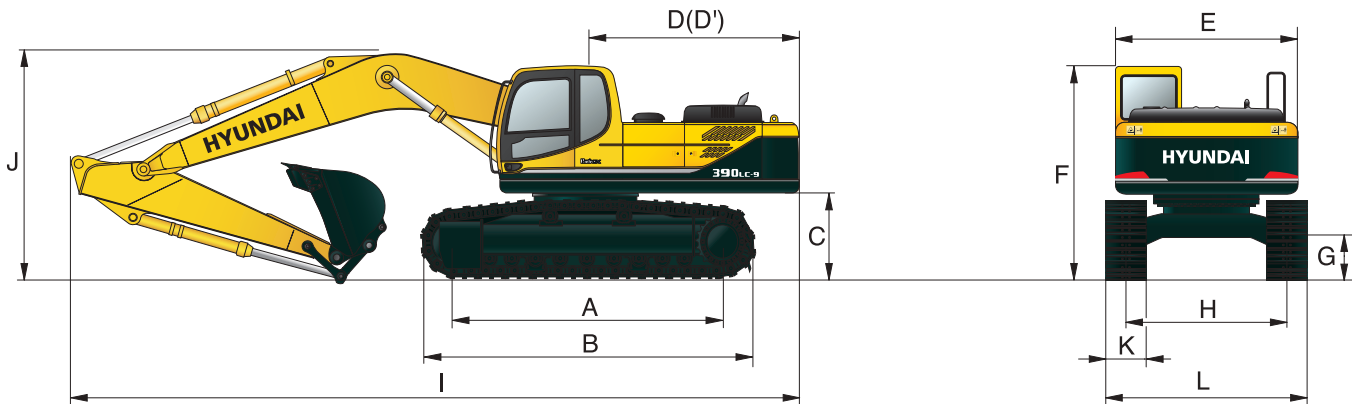
Boom	Length	mm (ft-in)	6,500 (21' 4")					8,600 (28' 3")	Remarks
	Weight	kg (lb)	3,780 (8,330)					4,560 (10,050)	
Arm	Length	mm (ft-in)	2500 (8' 2")	2,900 (9' 6")	3,200 (10' 6")	3,900 (12' 10")	4,300 (14' 1")	5,100 (16' 9")	Power Boost
	Weight	kg (lb)	1,990 (4,390)	2,140 (4,720)	2,010 (4,430)	2,220 (4,890)	2,340 (5,160)	2,560 (5,640)	
Bucket digging force	SAE	kN	201.0 [219.3]	200.1 [218.2]	201.0 [219.3]	201.0 [219.3]	201.0 [219.3]	201.0 [219.3]	[]: Power Boost
		kgf	20,500 [22,360]	20,400 [22,250]	20,500 [22,360]	20,500 [22,360]	20,500 [22,360]	20,500 [22,360]	
		lbf	45,190 [49,300]	44,970 [49,050]	45,190 [49,300]	45,190 [49,300]	45,190 [49,300]	45,190 [49,300]	
	ISO	kN	228.5 [249.3]	228.5 [249.3]	228.5 [249.3]	228.5 [249.3]	228.5 [249.3]	228.5 [249.3]	
		kgf	23,300 [25,420]	23,300 [25,420]	23,300 [25,420]	23,300 [25,420]	23,300 [25,420]	23,300 [25,420]	
		lbf	51,370 [56,040]	51,370 [56,040]	51,370 [56,040]	51,370 [56,040]	51,370 [56,040]	51,370 [56,040]	
Arm crowd force	SAE	kN	184.4 [201.1]	164.8 [179.8]	152.0 [165.8]	135.3 [147.6]	124.5 [135.9]	109.8 [119.8]	
		kgf	18,800 [20,510]	16,800 [18,330]	15,500 [16,910]	13,800 [15,050]	12,700 [13,850]	11,200 [12,220]	
		lbf	41,450 [45,220]	37,037 [40,410]	34,170 [37,280]	30,420 [33,190]	28,000 [30,550]	24,690 [26,930]	
	ISO	kN	192.2 [209.7]	170.6 [186.1]	156.9 [171.2]	139.3 [151.9]	128.5 [140.1]	112.8 [123.0]	
		kgf	19,600 [21,380]	17,400 [18,980]	16,000 [17,450]	14,200 [15,490]	13,100 [14,290]	11,500 [12,550]	
		lbf	43,210 [47,140]	38,360 [41,840]	35,270 [38,480]	31,310 [34,160]	28,880 [31,510]	25,350 [27,650]	

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

Arm weight includes bucket cylinder, linkage, and pin

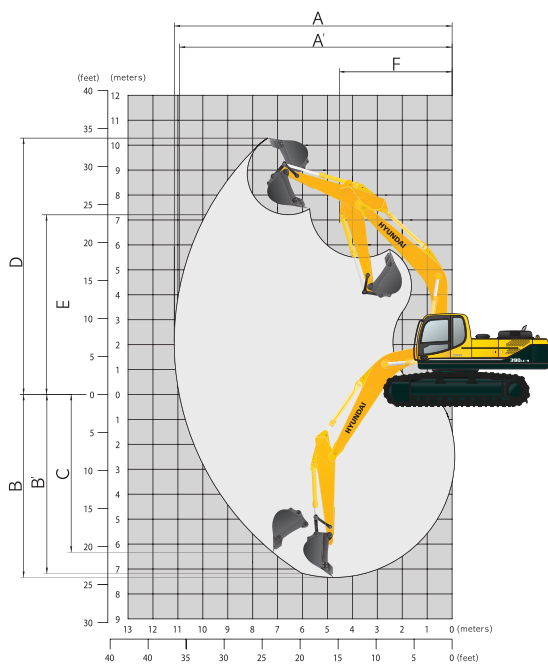
Dimensions & Working Range

R390LC-9 DIMENSIONS



mm (ft-in)		mm (ft-in)							
A Tumbler distance	4,340 (14' 3")	Boom length	6,500 (21' 4")				6,150 (20' 2")	8,600 (28' 3")	
B Overall length of crawler	5,280 (17' 4")	Arm length	2,500 (8' 2")	2,900 (9' 6")	3,200 (10' 6")	3,900 (12' 10")	4,300 (14' 1")	2,500 (8' 2")	5,100 (16' 9")
C Ground clearance of counterweight	1,290 (4' 3")	I Overall length	11,240 (36' 11")	11,180 (36' 8")	11,120 (36' 6")	11,160 (36' 7")	11,110 (36' 5")	10,880 (35' 8")	13,070 (42' 11")
D Tail swing radius	3,415 (11' 2")	J Overall height of boom	3,710 (12' 2")	3,540 (11' 7")	3,450 (11' 4")	3,880 (12' 9")	4,300 (14' 1")	3,760 (12' 4")	4,910 (16' 1")
D' Rear-end length	3,350 (10' 12")	K Track shoe width	600 (24")	700 (28")	750 (30")	800 (32")	900 (36")		
E Overall width of upperstructure	2,980 (9' 9")	L Overall width	3,340 (10' 11")	3,440 (11' 3")	3,490 (11' 5")	3,540 (11' 7")	3,640 (11' 11")		
F Overall height of cab	3,175 (10' 5")								
G Min. ground clearance	550 (1' 10")								
H Track gauge	2,740 (8' 12")								

R390LC-9 WORKING RANGE

















		mm (ft-in)						
Boom length		6,500 (21' 4")				6,150 (20' 2")	8,600 (28' 3")	
Arm length		2,500 (8' 2")	2,900 (9' 6")	3,200 (10' 6")	3,900 (12' 10")	4,300 (14' 1")	2,500 (8' 2")	5,100 (16' 9")
A Max. digging reach		10,720 (35' 2")	11,000 (36' 1")	11,250 (36' 11")	11,870 (38' 11")	12,380 (39' 12")	10,330 (33' 11")	15,280 (50' 2")
A' Max. digging reach on ground		10,490 (34' 5")	10,780 (35' 4")	11,040 (36' 3")	11,670 (38' 3")	12,180 (40' 0")	10,100 (33' 2")	15,120 (49' 7")
B Max. digging depth		6,820 (22' 5")	7,220 (23' 8")	7,520 (24' 8")	8,220 (26' 12")	8,620 (28' 3")	6,450 (21' 2")	11,230 (36' 10")
B' Max. digging depth (8' level)		6,640 (21' 9")	7,060 (23' 2")	7,360 (24' 2")	8,080 (26' 6")	8,490 (27' 10")	6,270 (20' 7")	11,120 (36' 6")
C Max. vertical wall digging depth		5,930 (19' 5")	5,970 (19' 7")	6,330 (20' 9")	7,040 (23' 1")	7,540 (24' 9")	5,490 (18' 0")	10,060 (33' 0")
D Max. digging height		10,590 (34' 9")	10,480 (34' 5")	10,570 (34' 8")	10,800 (35' 5")	11,360 (37' 3")	10,320 (33' 10")	13,350 (43' 10")
E Max. dumping height		7,370 (24' 2")	7,330 (24' 1")	7,410 (24' 4")	7,640 (25' 1")	8,160 (26' 4")	7,120 (23' 4")	10,150 (33' 4")
F Min. swing radius		4,530 (14' 10")	4,540 (14' 11")	4,450 (14' 7")	4,440 (14' 7")	4,460 (14' 8")	4,220 (13' 10")	5,900 (19' 4")

Lifting Capacity















R390LC-9

 Rating over-front  Rating over-side or 360 degree















Boom : 6.5m (21' 4") / Arm : 2.9m (10' 6") / Bucket : 1.44m³ (2.12 yd³) SAE heaped / Shoe : 600mm(24") triple grouser

Load point height m (ft)	Load radius										At max. reach					
	1.5m (5.0ft)		3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		7.5m (25.0ft)		9.0m (30.0ft)		Capacity		Reach	
															m (ft)	
9.0 m (30 ft)	kg													*5990	*5990	7.62
	lb													*13210	*13210	(25.0)
7.5 m (25 ft)	kg													*6020	5160	8.82
	lb													*13270	11380	(28.9)
6.0 m (20 ft)	kg								*6770	*6770				*6150	4230	9.59
	lb								*14930	*14930				*13560	9330	(31.5)
4.5 m (15 ft)	kg				*10670	*10670	*8500	*8500	*7410	6560				*6340	3720	10.05
	lb				*23520	*23520	*18740	*18740	*16340	14460				*13980	8200	(33.0)
3.0m (10 ft)	kg				*13990	*13990	*10110	8970	*8260	6190	*5460	4420		6250	3400	10.25
	lb				*30840	*30840	*22290	19780	*18210	13650	*12040	9740		13780	7630	(33.6)
1.5 m (5 ft)	kg				*16550	12960	*11580	8340	*9100	5840	*6400	4250		6220	3410	10.19
	lb				*36490	28570	*25530	18390	*20060	12870	*14110	9370		13710	7520	(33.4)
Ground	kg				*12700	*12700	*17660	12450	*12540	7930	*9720	5580		6500	3560	9.88
Line	lb				*28000	*28000	*38390	27450	*27650	17480	*21430	12300		14330	7850	(32.4)
-1.5 m (-5 ft)	kg	*14950	*14950	*18450	*18450	*17630	12350	*12830	7760	*9900	5470		7210	3990	9.28	
	lb	*32960	*32960	*40680	*40680	*38870	27230	*28290	17110	*21830	12060		15900	8800	(30.4)	
-3.0 m (-10 ft)	kg	*19710	*19710	*23620	*23620	*16640	12500	*12330	7810	*9360	5530		*7590	4900	8.33	
	lb	*43450	*43450	*52070	*52070	*36680	27560	*27180	17220	*20640	12190		*16730	10800	(27.3)	
-4.5 m (-15 ft)	kg				*19940	*19940	*14380	12910	*10570	8110				*7360	7050	6.85
	lb				*43960	*43960	*31700	28460	*23300	17880				*16230	15540	(22.5)

Boom : 6.5m (21' 4") / Arm : 2.9m (10' 6") / Bucket : 1.62m³ (2.12 yd³) SAE heaped / Shoe : 600mm(24") triple grouser

Load point height m (ft)	Load radius										At max. reach						
	1.5m (5.0ft)		3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		7.5m (25.0ft)		9.0m (30.0ft)		Capacity		Reach		
															m (ft)		
9.0 m (30 ft)	kg													*5630	*5630	7.62	
	lb													*12410	*12410	(25.0)	
7.5 m (25 ft)	kg													*5670	4860	8.82	
	lb													*12500	10710	(28.9)	
6.0 m (20 ft)	kg									*6450	*6450				*5800	3930	9.59
	lb									*14220	*14220				*12790	8660	(31.5)
4.5 m (15 ft)	kg				*10360	*10360	*8180	*8180	*7080	6290				*5990	3410	10.05	
	lb				*22840	*22840	*18030	*18030	*15610	13870				*13210	7520	(33.0)	
3.0m (10 ft)	kg				*13660	*13660	*9790	8710	*7940	5910	*5180	4140		5950	3160	10.25	
	lb				*30120	*30120	*21580	19200	*17500	13030	*11420	9130		13120	6970	(33.6)	
1.5 m (5 ft)	kg				*16210	12670	*11250	8070	*8780	5560	*6130	3970		5910	3100	10.19	
	lb				*35740	27930	*24800	17790	*19360	12260	*13510	8750		13030	6830	(33.4)	
Ground	kg				*13010	*13010	*17310	12160	*12210	7650	*9390	5310		6190	3260	9.88	
Line	lb				*28680	*28680	*38160	26810	*26920	16870	*20700	11710		13650	7190	(32.4)	
-1.5 m (-5 ft)	kg	*15240	*15240	*18770	*18770	*17280	12050	*12500	7480	*9580	5190		6910	3690	9.28		
	lb	*33600	*33600	*41380	*41380	*38100	26570	*27560	16490	*21120	11440		15230	8140	(30.4)		
-3.0 m (-10 ft)	kg	*20020	*20020	*23250	*23250	*16300	12210	*12010	7530	*9030	5260		*7240	4600	8.33		
	lb	*44140	*44140	*51260	*51260	*35940	26920	*26480	16600	*19910	11600		*15960	10140	(27.3)		
-4.5 m (-15 ft)	kg				*19600	*19600	*14050	12640	*10240	7840				*7000	6740	6.85	
	lb				*43210	*43210	*30970	27870	*22580	17280				*15430	14860	(22.5)	

Boom : 6.5m (21' 4") / Arm : 2.9m (10' 6") / Bucket : 2.10m³ (2.12 yd³) SAE heaped / Shoe : 600mm(24") triple grouser

Load point height m (ft)	Load radius										At max. reach						
	1.5m (5.0ft)		3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		7.5m (25.0ft)		9.0m (30.0ft)		Capacity		Reach		
															m (ft)		
9.0 m (30 ft)	kg													*5760	*5760	7.62	
	lb													*12700	*12700	(25.0)	
7.5 m (25 ft)	kg													*5790	4960	8.82	
	lb													*12760	10930	(28.9)	
6.0 m (20 ft)	kg									*6560	*6560				*5910	4030	9.59
	lb									*14460	*14460				*13030	8880	(31.5)
4.5 m (15 ft)	kg				*10450	*10450	*8280	*8280	*7190	6380				*6100	3520	10.05	
	lb				*23040	*23040	*18250	*18250	*15850	14070				*13450	7760	(33.0)	
3.0m (10 ft)	kg				*13750	*13750	*9880	8780	*8040	6000	*5280	4230		6050	3260	10.25	
	lb				*30310	*30310	*21780	19360	*17730	13230	*11640	9330		13340	7190	(33.6)	
1.5 m (5 ft)	kg				*16290	12740	*11340	8140	*8880	5650	*6220	4060		6020	3210	10.19	
	lb				*35910	28090	*25000	17950	*19580	12460	*13710	8950		13270	7080	(33.4)	
Ground	kg				*12890	*12890	*17400	12230	*12300	7730	*9490	5390		6300	3360	9.88	
Line	lb				*28420	*28420	*38360	26960	*27120	17040	*20920	11880		13890	7410	(32.4)	
-1.5 m (-5 ft)	kg	*15130	*15130	*18640	*18640	*17370	12120	*12600	7560	*9680	5270		7020	3790	9.28		
	lb	*33360	*33360	*41090	*41090	*38290	26720	*27780	16670	*21340	11620		15480	8360	(30.4)		
-3.0 m (-10 ft)	kg	*19900	*19900	*23340	*23340	*16380	12280	*12100	7610	*9130	5340		*7360	4700	8.33		
	lb	*43870	*43870	*51460	*51460	*36110	27070	*26680	16780	*20130	11770		*16230	10360	(27.3)		
-4.5 m (-15 ft)	kg				*19680	*19680	*14140	12700	*10340	7920				*7130	6850	6.85	
	lb				*43390	*43390	*31170	28000	*22800	17460				*15720	15100	(22.5)	











- 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 Capacity











R390LC-9

 Rating over-front  Rating over-side or 360 degree













Boom : 6.15 m (20' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.62 m³ (2.12 yd³) SAE heaped / Shoe : 600mm(24") triple grouser

Load point height m (ft)	Load radius								At max. reach			
	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									*7580	*7580	6.65
	lb									*16710	*16710	(21.8)
7.5 m (25 ft)	kg									*7420	6190	8.02
	lb									*16360	13650	(26.3)
6.0 m (20 ft)	kg							*6510	*6510	*7460	4980	8.88
	lb							*14350	*14350	*16450	10980	(29.1)
4.5 m (15 ft)	kg	*18270	*18270	*12170	*12170	*18940	*18940	*8620	*8620	6560	7480	9.38
	lb	*40280	*40280	*26830	*26830	*9790	*9790	*19000	*19000	14460	16490	(30.8)
3.0 m (10 ft)	kg			*15380	14190	*21580	21340	*9350	6250	7050	4040	9.58
	lb			*33910	31280	*11300	9030	*20610	13780	15540	8910	(31.4)
1.5 m (5 ft)	kg			*17740	13080	*24910	19910	*10060	5940	7010	3980	9.52
	lb			*39110	28840	*12640	8450	*22180	13100	15450	8770	(31.2)
Ground	kg	*13400	*13400	*18580	12560	*27870	18630	10120	5710	7360	4170	9.19
	lb	*29540	*29540	*40960	27690	*13410	8060	22310	12590	16230	9190	(30.2)
-1.5 m (-5 ft)	kg	*21020	*21020	*18170	12420	*29560	17770	10010	5610	8290	4710	8.53
	lb	*46340	*46340	*40060	27380	*13400	7880	22070	12370	18280	10380	(28.0)
-3.0 m (-10 ft)	kg	*22960	*22960	*16580	12540	*29540	17370			*8180	5950	7.47
	lb	*50620	*50620	*36550	27650	*12330	7930			*18030	13120	(24.5)
-4.5 m (-15 ft)	kg	*17870	*17870	*13110	12970	*27180	17480					
	lb	*39400	*39400	*28900	28590							

Boom : 6.5 m (21' 4") / Arm : 2.5 m (8' 2") / Bucket : 1.62 m³ (2.12 yd³) SAE heaped / Shoe : 600mm(24") triple grouser

Load point height m (ft)	Load radius								At max. reach			
	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									*6820	*6820	7.22
	lb									*15040	*15040	(23.7)
7.5 m (25 ft)	kg									*6770	5390	8.49
	lb									*14930	11880	(27.9)
6.0 m (20 ft)	kg					*7970	*7970	*7480	6600	*6850	4400	9.29
	lb					*17570	*17570	*16490	14550	*15100	9700	(30.5)
4.5 m (15 ft)	kg			*11870	*11870	*9290	*9290	*8060	6340	6800	3870	9.77
	lb			*26170	*26170	*20480	*20480	*17770	13980	14990	8530	(32.1)
3.0 m (10 ft)	kg			*15200	13420	*10870	8630	*8870	6000	6450	3610	9.97
	lb			*33510	29590	*23960	19030	*19550	13230	14220	7960	(32.7)
1.5 m (5 ft)	kg			*17480	12430	*12250	8060	*9650	5690	6420	3570	9.91
	lb			*38540	27400	*27010	17770	*21270	12540	14150	7870	(32.5)
Ground	kg			*18200	12080	*13060	7730	9870	5480	6740	3750	9.59
	lb			*40120	26630	*28790	17040	21760	12080	14860	8270	(31.5)
-1.5 m (-5 ft)	kg	*17830	*17830	*17860	12060	*13180	7610	9790	5410	7540	4230	8.97
	lb	*39310	*39310	*39370	26590	*29060	16780	21580	11930	16620	9330	(29.4)
-3.0 m (-10 ft)	kg	*22850	*22850	*16580	12250	*12430	7700			*7850	5260	7.97
	lb	*50380	*50380	*36550	27010	*27400	16980			*17310	11600	(26.1)
-4.5 m (-15 ft)	kg	*18790	*18790	*13880	12720					*7110	*7110	6.39
	lb	*41420	*41420	*30600	28040					*15670	*15670	(21.0)

Boom : 6.5 m (21' 4") / Arm : 3.2 m (10' 6") / Bucket : 1.62 m³ (2.12 yd³) SAE heaped / Shoe : 600mm(24") triple grouser

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)		9.0 m (30 ft)		Capacity		Reach m (ft)	
																
9.0 m (30 ft)	kg												*5950	*5950	7.97	
	lb												*13120	*13120	(26.1)	
7.5 m (25 ft)	kg								*4560	*4560			*6020	4820	9.12	
	lb								*10050	*10050			*13270	10630	(29.9)	
6.0 m (20 ft)	kg								*6620	*6620			*6110	4010	9.87	
	lb								*14590	*14590			*13470	8840	(32.4)	
4.5 m (15 ft)	kg							*8260	*8260	*7320	6530	*4450	*4450	*6190	3550	10.32
	lb							*18210	*18210	*16140	14400	*9810	*9810	*13650	7830	(33.9)
3.0 m (10 ft)	kg				*13520	*13520	*9960	8910	*8240	6150	*6360	4430	5940	3310	10.50	
	lb				*29810	*29810	*21960	19640	*18170	13560	*14020	9770	13100	7300	(34.4)	
1.5 m (5 ft)	kg				*16390	12870	*11570	8270	*9170	5790	*7510	4230	5890	3250	10.45	
	lb				*36130	28370	*25510	18230	*20220	12760	*16560	9330	12990	7170	(34.3)	
Ground	kg			*13090	*13090	*17880	12230	*12690	7820	*9880	5520	*7070	4090	6130	3380	10.14
	lb			*28860	*28860	*39420	26960	*27980	17240	*21780	12170	*15590	9020	13510	7450	(33.3)
-1.5 m (-5 ft)	kg	*13720	*13720	*17520	*17520	*18150	12020	*13170	7600	9750	5370		6730	3740	9.57	
	lb	*30250	*30250	*38620	*38620	*40010	26500	*29030	16760	21500	11840		14840	8250	(31.4)	
-3.0 m (-10 ft)	kg	*17880	*17880	*22800	*22800	*17430	12080	*12880	7580	9750	5370		*7730	4490	8.65	
	lb	*39420	*39420	*50270	*50270	*38430	26630	*28400	16710	21500	11840		*17040	9900	(28.4)	
-4.5 m (-15 ft)	kg	*22600	*22600	*21880	*21880	*15520	12390	*11510	7790				*7690	6200	7.25	
	lb	*49820	*49820	*48240	*48240	*34220	27320	*25380	17170				*16950	13670	(23.8)	
-6.0 m (-20 ft)	kg					*11410	*11410									
	lb					*25150	*25150									

- 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.

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)
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
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
Hi-mate (Remote Management System)
Tool kit
Cabin guard - front
Wire net
Fuel filler pump (35 L/min)
Door and cab locks, one key
Two outside rearview mirrors
Fully adjustable suspension seat with seat belt
Pilot-operated slidable joystick
Four front working lights
Electric horn
Batteries (2 x 12V x 160 AH)
Battery master switch
Removable clean-out dust net for cooler
Automatic swing brake
Removable reservoir tank
Fuel pre-filter
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)

OPTIONAL EQUIPMENT

Beacon lamp
Single-acting piping kit (breaker, etc.)
Double-acting piping kit (clamshell, etc.)
Quick coupler
Travel alarm
Booms
6.15 m, 20' 2"
6.5 m, 21' 4"
6.5 m, 21' 4" Heavy Duty
8.6 m, 28' 3"
Arms
2.5 m, 8' 2"
2.9 m, 9' 6"
3.2 m, 10' 6"
3.2 m, 10' 6" Heavy Duty
3.9 m, 12' 10"
4.3 m, 14' 1"
5.1 m, 16' 9"
Climate control
Air conditioner only
Heater only
Cabin FOPS/FOG (ISO/DIS 10262 Level II)
FOPS (Falling Object Protective Structure)
FOG (Falling Object Guard)
Cabin lights
Cabin front window rain guard
Sun visor
Track shoes
Triple grousers shoe (700mm, 28")
Triple grousers shoe (750mm, 30")
Triple grousers shoe (800mm, 32")
Triple grousers shoe (900mm, 36")
Heavy duty track shoe (600mm, 24")
Heavy duty track shoe (700mm, 28")
Full track rail guard
Lower frame under cover (Additional)
Pre-heating system, coolant
Operator suit
Rearview camera
Seat
Mechanical suspension seat with heater
Fuel warmer
Air compressor

- * 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.
- * Option items are long lead items.