

HX500L

**WHAT'S NEXT?
NEXT IS NEW HYUNDAI**

HX500L BRAND BOOK

01

**Leading to
Global Brand**

Beginning & Advance of
the HX500L Brand

03

02

**Best
in Quality**

True Value of the HX500L
Brand

05

03

**Communication
to Connect**

Realization of Smart
Construction through
Digital Technology

07

04

**Safety
Technology**

Best Safety Solution

09

05

**Innovation
to Change**

Domestic Rock Mountain
Test Result

11

06

**Advanced
Standard guide**

Option Guide

13

LEADING TO GLOBAL BRAND

Our brand is provided for value of customer time.

Beginning & Advance of the HX500L Brand

The equipment performance and durability of the recently launched HX500L is receiving good comments from the customers. Especially, the brand is receiving great interests and affection from the domestic-foreign customers on the design, quality, technology and services, etc. HX500L Large Excavator is mounted with the eco-friendly and high-performance Tier 3 engine that satisfies the latest environmental regulations.



The new Cummins X12 engine integrated with the latest technology of Cummins removed engine After-treatment system (EGR) to improve the engine durability. In addition, the improved fuel efficiency and extended maintenance cycle reduces the operating expenses. Meanwhile, upgraded IPC (Intelligent Power Control System) was applied to optimize the pump flux and power in various working conditions. Moreover, flux of the main pump was increased by 4% to secure high workability.

Through this, the fuel efficiency was reduced by 5~7% depending on the work details and site condition, and sudden RPM drop in unexpected, quick operation was prevented to improve the operating performance. HX500L Large Excavator is enhanced with the front and side lifting force compared to the previous model to increase the work productivity. Also, reversible cooling fan is applied for improved maintenance, and to maintain the continuous cooling performance.



Cooling Fan Reverse Mode



IPC (Intelligent Power Control) Upgrade

* The above image include the options, and may be different from the actual equipment.

BEST IN QUALITY

HX500L reflects the needs of the customers through strict site monitoring.



True Value of the HX500L Brand

The true value of HX500L series is in the durability and high productivity.

Even the small components were improved in detail and delicately to perform the equipment performance properly.

The upper/lower frame and working devices of the HX A Series Excavator provides durability that is higher than the site requirement. HX500L Excavator is applied with the cooling module that passed the strict quality test, and along with outstanding durability, the equipment shows best productivity in not only intense climate, but also in rough terrain. Reversible fan is applied to improve the cooling performance, and best engine performance is maintained even in places with high concentration of dust. In addition, cat walk is basically mounted to secure the safety of the driver during maintenance.

Existing VHD-type bushing is applied with the dimple-type bushing to improve the lubrication sustainability. Moreover, torsional rigidity of the arm end was improved by about 14% compared to the past, and bushing surface pressure was reduced by 24% to enhance the pin and bushing lifespan. (However, the improved arm end shape causes compatibility issue with the previous series, bucket, quick coupler and breaker.

HX500L has the flange width increased on the upper and lower roller, the sprocket saw-tooth shape improved, and the size of the bushing, track, link and idler was increased to greatly



· Reinforced Upper/Lower Frame and Operating System

· Undercarriage Components Improved with Durability

COMMUNICATION TO CONNECT

We will lead the Smart construction market, and guide innovation in the construction site.

"Daily report is no longer required in the work site."

Realization of Smart Construction through Digital Technology

Hyundai Construction Equipment is realizing the Smart construction site through the digital technology based on IoT, ICT and AI. Connectivity, productivity and safety were maximized through the digital technology for the successful business of the customer that purchased our product.

The Hi MATE system supports efficient operation of the equipment. The difference between the overall engine operating time and actual working time can be checked. The productivity of the equipment can be checked to establish the necessary cost reduction solution plan. Work information such as the working /idle time, fuel efficiency and speed, etc can be checked remotely through Hi MATE.

The Hi MATE system monitors the equipment, and there is almost nothing to be performed separately. Login can be performed through the Hi MATE website or mobile APP, and Hi MATE can be used to check the equipment anytime and anywhere.

In addition, Hi MATE can be used to protect from theft or unauthorized use.



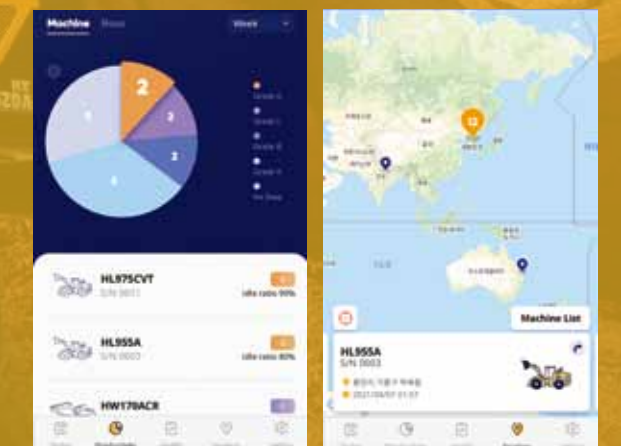
Productivity Improvement



Simple & Convenient Monitoring



Equipment Security



Hi MATE Fleet Manager (Mobile App) Screen

SAFETY TECHNOLOGY

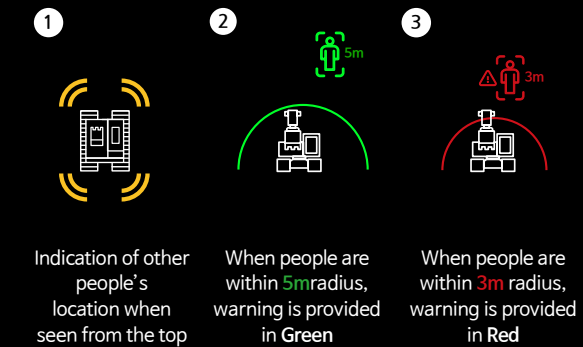
Safety of Hyundai Construction Equipment is a precious value that is irreplaceable.

Best Safety Solution

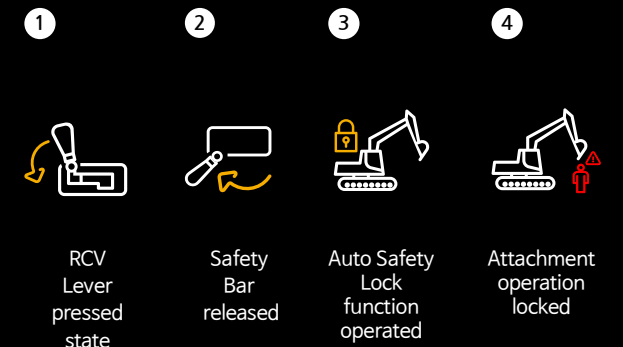
Latest technology and design were applied for the safety of the workers operating in the hazardous work site. HX500L is applied with the latest safety technology to enable the workers to focus on the safety issues without concerns.

AVM (Around View Monitoring) and IMOD (Intelligent Moving Object Detection) systems detect the surrounding people for preventing safety accidents, and verified risk factors are shown as image analysis on the monitor. Notably, 4-way camera was installed to reduce the blind spots. The auto safety lock on the driver's seat stops the operation of the equipment when the safety bar is released while the RCV lever is pressed to prevent the safety accidents from unintended operation. Meanwhile, when the engine is started without wearing the seat belt, alarm is sounded regularly along with the warning light to enable the operator to work in a safer environment. The cabin suspension mount of HX500L designed with low-vibration coil spring and damper was improved with durability, and the noise inside the cabine was reduced to decrease the operator fatigue and provide comfortable working space.

AAVM (Advanced Around View Monitoring) Camera System OPTION



Auto Safety lock STANDARD APPLICATION





INNOVATION TO CHANGE

Continuing the efforts to become a reliable brand.

On-site Test Result

Equipment test was performed in the Indonesian coal mine site to verify the product excellence. The test result may be different depending on the site condition and driving habit of the customer.

Test Information

Test Information

1. Test Schedule 2022/10/16 ~ 2022/10/28
2. Test Location Coal Mining in Kalimantan, Indonesia
3. Main Comparison Details Fuel Efficiency & Productivity Comparison Test
4. Main Details of Competitor Comparison

Classification		HX500L	R480LC-9S	Competitor A	Competitor B
Boom	m	6.55	6.55	6.65	6.55
Arm	m	2.90	2.40	2.90	2.50
Bucket	m ³	3.60	3.20	3.60	3.10

Test Result

Loading Condition Truck with average of 25.5 tons per hour: 15EA (Max. 17EA)

Fuel Efficiency Standard of equal P mode condition
(Actual work mode may be different depending on the equipment performance)

Classification		HX500L	R480LC-9S	Competitor A	Competitor B
Productivity	m ³ /hr	789.00	760.00	821.00	751.00
Fuel Efficiency	%	Criteria	92	96	80

ADVANCED STANDARD GUIDE

Information on improved standard option.



Option Guide

Standard Domestic Option

Classification	HX500L	R480LC-9S
Boom	6.55 (IMPROVED)	6.55
Arm	2.40 (IMPROVED)	2.40
Bucket	3.2m ³ or 3.6m ³	3.2m ³
Counter Weight	10.7 TONS	9.7 TONS
Lower Frame	FIXED TRACK (DURABILITY INCREASED)	FIXED TRACK (GENERAL)
Track Shoe	600mm Triple	600mm Triple
Track Guard	GENERAL	GENERAL
Piping	PIPE NOT INSTALLED	PIPE NOT INSTALLED
Quick Coupler	NOT INSTALLED	NOT INSTALLED
Frame Bottom Cover	BASIC COVER APPLIED	BASIC COVER APPLIED
Pre-cleaner	GENERAL	GENERAL
Cat Walk	CAT WALK MOUNTED + PROTECTIVE GUARD NOT INSTALLED	CAT WALK MOUNTED + PROTECTIVE GUARD NOT INSTALLED
Hi Mate	MOBILE TYPE APPLIED BASICALLY	SATELLITE TYPE APPLIED BASICALLY
Work Light	LED TYPE	HALOGEN TYPE
RCV	GENERAL	GENERAL

Best Safety Solution

- Auto Safety Lock **new**
- AAVM **option**
- Safely Belt Warning Sound
- Low-vibration Design Cabin

Improved Maintainability

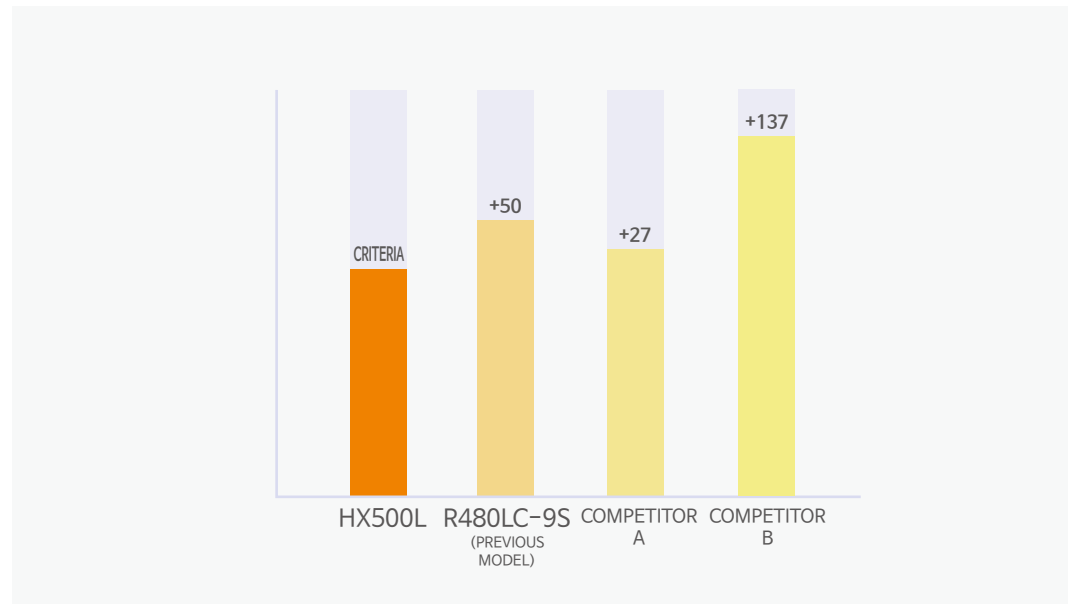
- Engine Remote Diagnosis(ECD) **new**
- Hi MATE **option**

The above image include the options, and may be different from the actual equipment.

TOTAL COST OF OWNERSHIP

Total Cost of Ownership (TCO)

(Unit: 1,000UD)



When 10,000 hours are operated and maintained after introducing HX500L, there is about USD 33,000 of reduction effect compared to the previous model.

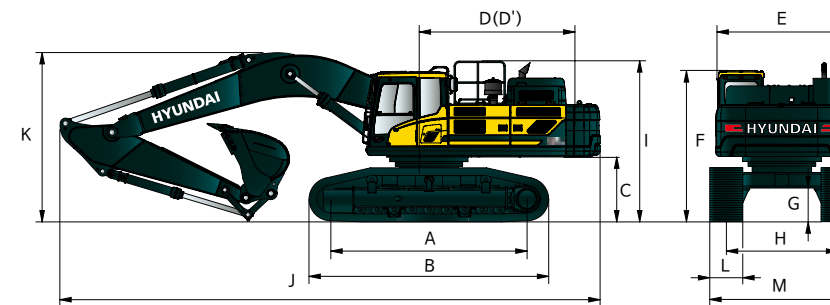
Standard of 5-years and 10,000 hours operation (Fuel Cost + Part replacement cost related to consumables/failure)

(Unit: 1,000UD)

Standards load condition	HX500L(New Model)	R480LC-9S (Previous Model)	Competitor A	Competitor B
Fuel Efficiency	100%	92%	96%	80%
Standard of 10,000 hours / Fuel 1.3UD (Difference)	CRITERIA	+32	+27	+137
Components such as consumables (Difference)	CRITERIA	+12	-	-
Total (Difference)	CRITERIA	+50	+27	+137

DIMENSIONS & WORKING RANGE

Dimensions & Working Range



HX500L Dimensions

6.55 M, 7.06 M, 9.0 M BOOM /
2.9 M, 3.38 M, 4.0 M, 6.0 M ARM

Main Specification

NUMBER IN () IS WHEN THE BOOST BUTTON IS PRESSED. / THE RELEVANT DIGGING FORCE IS IN THE STANDARD OF THE STANDARD MODEL, AND CAN BE CHANGED ACCORDING TO THE SPECIFICATION.

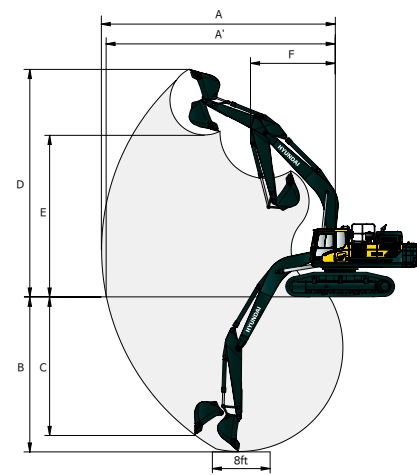
Item	Unit	HX500L	
Equipment Weight (Coupler mounted)	kg	52,400 (53,120)	
Bucket Capacity (SAE)	m ³	1.81	
Engine	Manufacturer/Model	Cummins X12	
	Rated Power	405 / 2,100	
	Max. Torque	193 / 1,400	
Hydraulic	Working Pressure	330 (360)	
	Discharge Flow Rate	ℓ min	2 X 394
Work Performance	Max. Turning Speed	rpm	9.0
	Max. Driving Speed	km/h	5.3 / 3.3
	Max. Bucket Digging Force	kgf	SAE: 24,600(26,840), ISO: 28,600(31,200)
	Max. Arm Digging Force	kgf	SAE: 19,500(21,270), ISO: 20,200(22,040)
	Max. Traction	kgf	39674
	Gradeability	DEGREES	35
Tank Capacity	Fuel Tank	ℓ	600
	Hydraulic Fluid Tank	ℓ	275
	Urea Tank	ℓ	70

· 6.55 m (21' 6"), 7.06 m (23' 2"), 9.0 m (29' 6") boom and 2.55 m (8' 4"), 2.9 m (9' 6"), 3.38 m (11' 1"), 4.0 m (13' 8"), 6.0 m (19' 8") arm

Item	6.55 (21' 6")		7.06 (23' 2")		9.0 (29' 6")	
	2,550 (8' 4")	2,900 (9' 6")	2,550 (8' 4")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")
A Tumbler Distance	4,470 (14' 8")					
*B Overall Length of Crawler	5,490 (18' 0")					
*C Ground Clearance of Counter Weight	1,370 (4' 6")					
D Tail Swing Radius	3,800 (12' 6")					
D' Rear-end Length	3,745 (12' 3")					
E Overall Width of Upper Structure	2,980 (9' 9")					
*F Overall Height of Cab	3,335 (10' 11")					
*G Min. Ground Clearance	585 (1' 11")					
H Track gauge	2,740 (9' 0")					
*I Overall Height of Guardrail	3,515 (11' 6")					
Boom Length	6,550 (21' 6")		7,060 (23' 2")		9,000 (29' 6")	
Arm Length	2,550 (8' 4")	2,900 (9' 6")	2,550 (8' 4")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")
J Overall Length	11,680 (38' 4")	11,690 (38' 4")	12,210 (40' 1")	12,220 (40' 1")	12,160 (39' 11")	12,150 (39' 10")
*K Overall Height of Boom	3,790 (12' 5")	3,950 (13' 0")	3,790 (12' 5")	3,850 (12' 8")	3,850 (12' 8")	3,890 (12' 9")
L Track Shoe Width	600 (24")	700 (28")	800 (32")	900 (36")		
M Overall Width	3,340 (10' 11")	3,440 (11' 3")	3,540 (11' 7")	3,640 (11' 11")		

· This figure includes the size of gausers.

HX500L Working Range



Unit : mm (ft-in)

Boom Length	6,550 (21' 6")		7,060 (23' 2")				9,000 (29' 6")
	2,550 (8' 4")	2,900 (9' 6")	2,550 (8' 4")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")
Arm Length	2,550 (8' 4")	2,900 (9' 6")	2,550 (8' 4")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")
A Max. digging reach	10,870 (35' 8")	11,130 (36' 6")	11,410 (37' 5")	11,670 (38' 3")	12,060 (39' 7")	12,610 (41' 4")	16,110 (52' 10")
A' Max. digging reach on ground	10,640 (34' 11")	10,910 (35' 10")	11,190 (36' 9")	11,460 (37' 7")	11,850 (38' 11")	12,410 (40' 9")	15,950 (52' 7")
B Max. digging depth	6,460 (21' 2")	6,810 (22' 4")	6,900 (22' 8")	7,250 (23' 9")	7,730 (25' 4")	8,350 (27' 5")	11,710 (38' 5")
B' Max. digging depth (8' level)	6,290 (20' 8")	6,650 (21' 10")	6,730 (22' 1")	7,090 (23' 3")	7,590 (25' 11")	8,220 (27' 0")	11,620 (38' 1")
C Max. vertical wall digging depth	4,840 (15' 11")	4,900 (16' 1")	5,280 (17' 4")	5,710 (18' 9")	5,490 (18' 0")	6,170 (20' 3")	8,660 (28' 5")
D Max. digging height	10,670 (35' 0")	10,630 (34' 11")	11,070 (36' 4")	11,090 (36' 5")	11,060 (36' 3")	11,330 (37' 2")	13,100 (43' 0")
E Max. dumping height	7,210 (23' 8")	7,240 (23' 9")	7,600 (24' 11")	7,630 (25' 0")	7,710 (25' 4")	7,920 (26' 0")	9,800 (32' 2")
F Min. swing radius	4,440 (14' 7")	4,450 (14' 7")	4,820 (15' 10")	4,880 (16' 0")	4,870 (16' 0")	4,630 (15' 2")	5,630 (18' 6")

Bucket

All buckets are welded with high-strength steel.

SAE heaped m ³ (yd ³)	Bucket Type		
	GP	HD	Rock-HD
1.38 (1.80)	2.20 (2.88)	2.20 (2.88)	2.20 (2.88)
2.20 (2.88)	2.79 (3.65)	2.43 (3.18)	2.43 (3.18)
3.00 (3.92)	3.20 (4.19)	2.79 (3.65)	3.20 (4.19)

Capacity m ³ (yd ³)	Width mm (in)	Weight kg (lb)	Tooth (EA)	Recommendation mm (ft-in)							
				6,550 (21' 6") Boom		7,060 (23' 2") Boom			9,000 (29' 6") Boom		
				2,550 (8' 4") Arm	2,900 (9' 6") Arm	2,550 (8' 4") Arm	2,900 (9' 6") Arm	3,380 (11' 1") Arm	4,000 (13' 1") Arm	6,000 (19' 8") Arm	
(G) 1.38 (1.80)	1,24 (1.62)	1,130 (44.5)	1,640 (3,620)	4	●	●	●	●	●	●	▲
(G) 2.20 (2.88)	1.93 (2.52)	1,600 (63.0)	2,020 (4,450)	5	●	●	●	●	○	○	X
(G) 3.00 (3.92)	2.64 (3.45)	1,905 (75.0)	2,425 (5,350)	6	○	■	■	■	▲	▲	X
(H) 2.20 (2.88)	1.93 (2.52)	1,600 (63.0)	2,325 (5,130)	5	●	●	●	○	○	■	X
(H) 2.79 (3.65)	2.46 (3.22)	1,795 (70.7)	2,615 (5,770)	5	○	○	■	■	▲	▲	X
(H) 3.20 (4.19)	2.82 (3.69)	2,015 (79.3)	2,860 (6,310)	6	■	■	▲	▲	▲	X	X
(R) 2.20 (2.88)	1.93 (2.52)	1,600 (63.0)	2,605 (5,740)	5	●	●	●	○	○	X	X
(R) 2.43 (3.18)	2.11 (2.76)	1,745 (69.0)	2,730 (6,020)	5	●	○	○	■	■	X	X
(R) 2.79 (3.65)	2.46 (3.22)	1,795 (71.0)	2,970 (6,550)	5	○	■	■	▲	▲	X	X
(R) 3.20 (4.19)	2.82 (3.69)	2,015 (79.3)	3,235 (7,130)	6	■	▲	▲	▲	X	X	X

(G) General Purpose

(H) Heavy Duty

(R) Rock-HD

● : 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

X : Not Recommended

Option

• BREAKER LINE • QUICK COUPLER 700MM / 2-BAR

• WIRENET GUARD (CABINE FRONT PROTECTIVE GUARD)

• TRACK SHOE (HEAVY DUTY GROUSER SHOE 700MM / 2-BAR)

• SEMI-AUTO GREASE SYSTEM

• FOG GUARD (CABIN FRONT & UPPER PROTECTIVE GUARD) 700MM / 2-BAR

HYUNDAI
CONSTRUCTION EQUIPMENT

First Tower, 55, Bundang0ro, Bundang-gu,
Seongnam-si, Gyeonggi-do, Korea

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