ENGINE	STD	OPT
Cummins QSM11-C	●	

HYDRAULIC SYSTEM	STD	OPT
Intelligent Power Control (IPC)		
3-power mode, 2-work mode, user mode	●	
Variable power control	●	
Pump flow control	●	
Attachment mode flow control		●
Engine auto idle	●	
Engine auto shutdown control		●

CAB & INTERIOR	STD	OPT
ISO Standard Cabin		
Rise-up type windshield wiper	●	
Radio / USB player	●	
Handsfree mobile phone system with USB	●	
12 V power outlet (24 V DC to 12 V DC converter)	●	
Electric horn	●	
All-weather steel cab with 360° visibility	●	
Safety glass windows	●	
Sliding fold-in front window	●	
Sliding side window (LH)	●	
Lockable door	●	
Hot & Cool box	●	
Storage compartment & Ashtray	●	
Sun visor	●	
Door and cab locks, one key	●	
Pilot-operated slidable joystick	●	
Cabin lights		●
Cabin front window rain guard		●
Cabin roof-steel cover	●	
Automatic Climate Control		
Air conditioner & Heater	●	
Defroster	●	
Starting aid(air grid heater) for cold weather	●	
Centralized Monitoring		
8" LCD display - Normal type	●	
8" LCD display - Premium type		●
Engine speed or trip meter / Accel	●	
Engine coolant temperature gauge	●	
Max power	●	
Low speed / High speed	●	
Auto idle	●	
Overload	●	
Check engine	●	
Air cleaner clogging	●	
Indicators	●	
ECO gauges	●	
Fuel level gauge	●	
Hyd. oil temperature gauge	●	
Fuel warmer	●	
Warnings	●	
Communication error	●	
Low battery	●	
Clock	●	
Seat		
Mechanical suspension without heater	●	
Mechanical suspension with heater		●
Adjustable air suspension without heater		●
Adjustable air suspension with heater		●
Cabin FOG		
FOG (Falling object guard) ISO/DIS 10262 Level 2 — Front & Tops guard		●
FOG (Falling object guard) ISO/DIS 10262 Level 2 — Tops guard		●

SAFETY	STD	OPT
Battery master switch	●	
Rearview camera		●
AAVM (Advanced around view monitoring)		●
Six front working lights (4 boom mounted, 2 front frame mounted)	●	
Travel alarm	●	
Rear work lamp		●
Beacon lamp		●
Automatic swing brake	●	
Boom holding system	●	
Arm holding system	●	
Safety lock valve for boom cylinder with overload warning device		●
Safety lock valve for arm cylinder		●
Swing lock system		●
Two outside rearview mirror	●	

OTHER	STD	OPT
Booms		
6.55 m, 21' 6"		●
7.06 m, 23' 2"	●	
Arms		
2.4 m, 7' 10"		●
2.9 m, 9' 6"		●
3.38 m, 11' 1"	●	
4.0 m, 13' 1"		●
6.0 m, 19' 8"		●
Removable clean-out dust net for cooler	●	
Removable washer tank	●	
Fuel pre-filter with fuel warmer	●	
Rain cap	●	
Pre-cleaner		●
Self-diagnostics system	●	
Hi-mate (Remote management system)		●
Batteries (2 × 12 V × 200 AH)	●	
Fuel filler pump (50 ℓ/min)		●
Lover wiper moter		●
Single-acting piping kit (Breaker, etc.)		●
Double-acting piping kit (Clamshell, etc.)		●
Quick coupler piping		●
Quick coupler		●
Accumulator for lowering work equipment		●
Pattern change valve (2 patterns)		●
General type guardrail		●
Tool kit		●

UNDERCARRIAGE	STD	OPT
Lower frame under cover (Additional)		●
Lower frame under cover (Normal)	●	
Track Shoes		
Triple grousers shoes (600 mm, 24")	●	
Triple grousers shoe (700 mm, 28")		●
Triple grousers shoe (800 mm, 32")		●
Track rail guard	●	
Full track rail guard		●
3-piece type track rail guard		●

* 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.

HYUNDAI CONSTRUCTION EQUIPMENT

Head Office (Sales Office)
3F, BUNDANG FIRST TOWER, 55 BUNDANG-RO, BUNDANG-GU, SEONGNAM-SI, GYEONGGI-DO, 13591, KOREA

PLEASE CONTACT

www.hyundai-ce.com

2019. 12 Rev.3

MOVING YOU FURTHER

HX520S L

With Tier 2 / Stage II Engine Installed

*Photo may include optional equipment

Net Power
SAE J1349 / 330 HP (246 kW) at 2,000 rpm

Gross Power
SAE J1995 / 335 HP (250 kW) at 2,000 rpm

Travel Speed
5.0 km/hr (3.1 mph) / 3.2 km/hr (1.98 mph)

Operating Weight
51,175 kg / 112,820 lb

HYUNDAI CONSTRUCTION EQUIPMENT

RULE THE GROUND

The HX Series exceeds customer's expectation!
Become a true leader on the ground with HCE's HX Series.

HX520S L

WORK MAX, WORTH MAX

- New Variable Power Control
- Fuel Rate Information
- Attachment Flow Control (Option)
- ECO Gauge
- New Cooling System with Increased Air Flow
- Enlarged Air Inlet with Grill Cover
- Cycle Time Improvement

MORE RELIABLE, MORE SUSTAINABLE

- Durable Cooling Module
- Reinforced Pin, Bush, and Polymer Shim
- Almost Doubled Durability of the Attachments
- Wear Resistant Cover Plate
- Hi-grade (High-pressure) Hoses

INFOTAINMENT FRONTIER

- New Front Side Air-Conditioning Systems
- Intelligent and Wide Cluster
- New Air Conditioning System
- Wi-Fi Direct with Smart Phone (Miracast) (Option)
- Quick Coupler Button (Option)
- New Audio System
- Front Side Air-Vent

MODERN COMFORT, SIMPLE AND SAFE SOLUTION

- AAVM (Advanced Around View Monitoring) Camera System (Option)
- Hi-mate (Remote Management System) (Option)
- Cab Suspension Mount
- Swing Lock System (Option)

*Photo may include optional equipment.

New Variable Power Control

The HX Series minimizes equipment input and output control signals to improves fuel efficiecy. Its three-stage power mode ensures the highest performance in any operating environmet.

* **P(power) mode :** Maximizes speed and power of the equipment for heavy load work.
* **S(standard) mode :** Optimizes performance and fuel efficiency of the equipment for general load work.
* **E(economy) mode :** Improves the control systemfor light load work.

WORK MAX, WORTH MAX

Fuel Efficient System, Allows Great Performance

The HX Series has an eco-friendly, high-performance engine which ensures both excellent fuel efficiency and high power. With outstanding operating performance proven by rigorous tests at various work sites, it will satisfy any customer's needs.

15% increased greater screen from 7 to 8 inch is applied in HX Series.
More funtions and better resolution are available with adding premium options.

Fuel Rate Information

Attachment Flow Control (Option)

The HX Series improves pump flow rate by independent control of two pumps. It optimizes attachments for effective flow rate setting depending on attachments (ten breaker types and ten crusher types), enabling various operations matching the site environments.

Eco Gauge

Eco gauge enables economic operation of machines. The gauge level and color displays engine torque and fuel efficiency level. On top of that, the status of fuel consumption such as average rate and the total amount of fuel consumed is displayed. Hourly and daily based fuel consumption can be checked in the detailed menu as well.

New Cooling System with Increased Air Flow

With the three-layer stacked up cooling module improving air inflow, the HX Series provides excellent cooling performance by increasing heat dissipation.

Enlarged Air Inlet with Grill Cover

Enlarged vent hole of the air inlet side cover and fine net grill to prevent penetration of foreign materials further improve durability.

Cycle Time Improvement

The HX Series provides higher productivity on the site by faster operation: it loads trucks up to 2% faster and levels up to 6% faster than the 9S Series.

MORE RELIABLE, MORE SUSTAINABLE

New Exterior Design for Robustness and Safety

The true value of the HX Series lies in its durability. The robust frame structure and the attachments show the real value of the HX Series in tough working environments and promise higher productivity.

Reinforced Pin, Bush, and Polymer Shim

The HX Series improves lubricity of connecting parts between the equipment and attachments. Gaps with attachments are minimized by wear-resistant long-life pins, bushes, and polymer shims, supporting the highest performance with invariable durability.

Wear Resistant Cover Plate

A wear-resistant cover plate is installed at the end of the arm to minimize abrasion on the connector between the arm and the bucket. Vibration reduction of buckets enables more stable operation even in high-load work.

Durable Cooling Module

The HX Series has a durable cooling module that passed stringent tests, demonstrating the highest productivity in tough working environments.

Reinforced Durability of Upper and Lower Structure and Attachments

The upper and lower structure and attachments of the HX Series have higher durability than demanded on the site, as proven through numerous tests including road tests and virtual simulation. The wear resistance of the bucket has been improved by use of new material.

Almost Doubled Durability of the Attachments for HX520S L

New boom and arm for HX520S L radically enhanced its durability in fields. Principal dimensions have been increased notably at critical section while their total weights were kept as usual by means of structural optimization. Completely new welding technique, which was developed to remove the back plate, also contributed a lot to the enhancement. The new attachments, in the end, have been proved to ensure at least 1.8 times longer life than those for 9-series.

*Photo may include optional equipment.

Hi-grade (High-pressure) Hoses

The HX Series uses high-pressure hoses with improved heat and pressure resistance, greatly increasing the durability of the equipment.

*Photo may include optional equipment.

New Front Side Air-conditioning System

The ventilation is designed for both warm and cool air reaching to operators' faces. It could helps operators create more neat and enjoyable atmosphere through indoor air circulation.

INFOTAINMENT FRONTIER

Improved Instrument Panel for Easier Monitoring

Many electronic functions are concentrated in the most convenient spot for operators to improve work efficiency. The highly-advanced infotainment system, a product of HCE's intensive information technology development, enables both productivity and comfort while working! The HX Series is designed with the operator in mind.

Intelligent and Wide Cluster

The 8-inch interactive touchscreen display of the HX Series is 15% larger than that of the previous model. The centralized switches on the display allow the operator to check the urea level and the temperature outside the cab.

New Air Conditioning System

Front side Air Vent holes make operators more convenient and fresh through direct air flow to driver's face, foot and body.

Wi-Fi Direct with Smart Phone (Miracast) (Option)

The smart terminal-miracast system uses the Wi-fi from the operator's smart phone to easily and conveniently enable features of the smart phone, such as navigating, surfing the web, watching videos, and listening to music, on the 8" screen. (Currently only available for Android phones.)

Front Side Air-Vent

Quick Coupler Button (Option)

Easy attachment replacement of equipment is available with quick coupler button.

New Audio System

The radio player with a USB-based MP3 player, an integrated Bluetooth hands-free feature, and a built-in microphone allow for phone calls while at work and in transit. The radio player is conveniently located on the right side of the operator to allow for improved access.

MODERN COMFORT, SIMPLE AND SAFE SOLUTION

New Cabin for More Comfort

Low noise, low vibration, and ergonomic design make the cabin space more comfortable and pleasant! With focus on safety and convenience of operators, the HX Series allows rapid and safe equipment inspection anytime and anywhere, providing an optimal environment for operators to work.

AAVM (Advanced Around View Monitoring) Camera System (Option)

The HX Series has a state-of-the-art AAVM video camera system to secure field of vision for operators in all directions, thereby preventing accidents. Operators can easily check the workplace in the front and rear and to the right and left.

* AVM (Around View Monitoring): Secure field of vision in all directions by nine views including 3D bird's eye view and 2D / 4CH view.
* IMOD (Intelligent Moving Object Detection): Inform when people or dangerous objects are detected within the range of operation (Recognition distance: 5m).

HiMATE

It's Convenient, Easy and Valuable

Hi-mate Hyundai's newly developed remote management system, utilizes GPS-satellite technolgy to provide customers with the highest level of service and product support available. Hi-mate enables users to remotely evaluate machine performance, access diagnostic information, and verify machine locations at the touch of a button.

What is benefits

Increase Productivity

It helps you operate machines in efficient. You can check the difference between total engine hours and actual working hours. See how productive your machines are and plan any required cost saving solutions. Hi MATE offers working information such as working / idling hours, fuel consumption and rate.

Convenient and Easy Monitoring

There is nothing much to do to monitor your machines. Just log on to the Hi MATE website or mobile application. Hi MATE allows you to watch your machines whenever and wherever you are.

Security

Protect your machines from theft or unauthorized usage with Hi MATE. If the machine moves out of the Geo-fence boundary, you will get alerts.

*Photo may include optional equipment.

Cab Suspension Mount

With a low-vibration design by the coil spring and damper inside the mount, the cab suspension mount of the HX Series reduces noise inside the cabin and improves durability, providing a comfortable operation space that lessens operators' fatigue.

Swing Lock System (Option)

Swing lock system is provided to maintain stability when swing movement needs to be limited, improving operating speed and productivity.

SPECIFICATIONS

ENGINE

Maker / Model			Cummins QSM11
Type			Water-cooled, 4-cycle diesel, 6-cylinder in-line, Direct injection, turbocharged, charge air cooled, low emission
Rated flywheel horse power	SAE	J1995 (gross)	335 HP (250 kW) at 2,000 rpm
		J1349 (net)	330 HP (246 kW) at 2,000 rpm
	DIN	6271 / 1 (gross)	340 PS (250 kW) at 2,000 rpm
		6271 / 1 (net)	335 PS (246 kW) at 2,000 rpm
Max. power			367 HP (274 kW) at 1,800 rpm
Max. torque			183 kgf·m (1,320 lbf·ft) at 1,400 rpm
Bore × Stroke			125 × 147 mm (4.92" × 5.79")
Piston displacement			10,800 cc (659 cu in)
Batteries			2 × 12 V × 200 Ah
Starting motor			24 V × 7.2 kW
Alternator			24 V × 90 A

※No derating for continuous operating required up to 2,743 m (9,000 ft)
This engine meets the EPA(Tier Ⅱ) / EU(Stage Ⅱ) emission regulation.

HYDRAULIC SYSTEM

MAIN PUMP

Type	Variable displacement tandem axis piston pumps
Max. flow	2×380.0 ℓ/min
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/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
Bucket	Ø170×1,370 ST For 6,550 mm (21' 6") Boom & 2,400 mm (7' 10") arm only

HYDRAULIC CYLINDERS

No. of cylinder bore X stroke	Boom: 2-Ø170×1,580 mm
	Arm: 1-Ø190×1,820 mm
	Bucket: 1-Ø160×1,370 mm
	Bucket:1-Ø170×1,370 mm * 6,550 mm (21' 6") Boom and 2,400 mm (7' 10") arm only

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	37,300 kgf (82,230 lbf)
Max. travel speed (high / low)	5.0 km/hr (3.1 mph) / 3.32 km/hr (1.98 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 piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	8.5 rpm

COOLANT & LUVBRICANT CAPACITY

	liter	US gal	UK gal
Fuel tank	660	174.4	145.2
Engine coolant	40	10.57	8.8
Engine oil	37.9	10.0	8.3
Swing device (each)	7	1.8	1.54
Final drive (each)	12	3.2	2.64
Hydraulic system (including tank)	486	128.4	106.9
Hydraulic tank	262	68.7	57.2

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

OPERATING WEIGHT (APPROXIMATE)

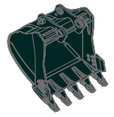
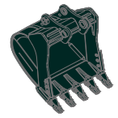
Operating weight, including 7,060mm (23' 2") boom, 3,380mm (11' 1") arm, SAE heaped 2.2m³ (2.88 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

OPERATING WEIGHT

Shoes		Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)		kgf/cm² (psi)
Triple grouser	600 (24")	HX520S L	51,175 (112,820)	0.89 (12.64)
	700 (28")	HX520S L	51,695 (113,970)	0.77 (10.95)
	800 (32")	HX520S L	52,225 (115,140)	0.68 (9.68)

BUCKET SELECTION GUIDE & DIGGING FORCE

BUCKETS

SAE heaped m³ (yd³)	1.38 (1.80) 2.20 (2.88) 2.79 (3.65)	◈2.20 (2.88) ◈2.79 (3.65)	◆3.20 (4.19) ◆2.43 (3.18) ◆2.79 (3.65) ◆3.00 (3.92) ◆3.20 (4.19)	★2.70 (3.53) ★3.00 (3.92)

Capacity m³ (yd³)		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
SAE heaped	CECE heaped				2,400 (7' 10") Arm	2,900 (9' 6") Arm	2,400 (7' 10") Arm	2,900 (9' 6") Arm	3,380 (11' 1") Arm	4,000 (13' 1") Arm	6,000 (19' 8") Arm
1.38 (1.80)	1.24 (1.62)	1,135 (44.7")	1,670 (3,680)	4	●	●	●	●	●	●	◐
2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,030 (4,480)	5	●	●	●	●	●	●	-
2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,300 (5,070)	5	●	●	●	◐	◐	■	-
◈2.20 (2.88)	1.93 (2.52)	1,605 (63.2")	2,320 (5,110)	5	●	●	●	●	●	◐	-
◈2.79 (3.65)	2.47 (3.23)	1,785 (70.3")	2,630 (5,800)	5	●	●	●	◐	■	■	-
◆3.20 (4.19)	1.93 (2.52)	1,995 (78.5")	2,870 (6,330)	6	◐	◐	■	■	▲	▲	-
◆2.43 (3.18)	2.47 (3.23)	1,750 (68.9")	2,730 (6,020)	5	●	●	●	●	◐	■	-
◆2.79 (3.65)	2.82 (3.69)	1,785 (70.3")	2,950 (6,500)	5	●	●	◐	◐	■	▲	-
◆3.00 (3.92)	2.67 (3.49)	1,905 (75.0")	3,140 (6,920))	6	●	◐	◐	■	■	▲	-
◆3.20 (4.19)	1.93 (2.52)	1,995 (78.5")	3,230 (7,120)	6	◐	◐	■	■	▲	▲	-
★2.70 (3.53)	2.47 (3.23)	1,755 (69.1")	2,770 (6,110)	5	●	●	●	◐	■	■	-
★3.00 (3.92)	2.82 (3.69)	1,950 (76.8")	3,040 (6,700)	6	●	◐	◐	■	■	▲	-

◈ Heavy duty bucket
◆ Rock-Heavy duty bucket
★ Rock-Spade nose

● : 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

ATTACHMENT

Booms and arms are all-welded, low-stress, full-box section design. 6,550 mm (21' 6"), 7,060 mm (23' 2") booms and 2,400 mm (7' 10"), 2,900 mm (9' 6"), 3,380 mm (11' 1"), 4,000 mm (13' 1") Arms are available, Hyundai Bucket are all-welded, high-strength steel implements.

DIGGING FORCE

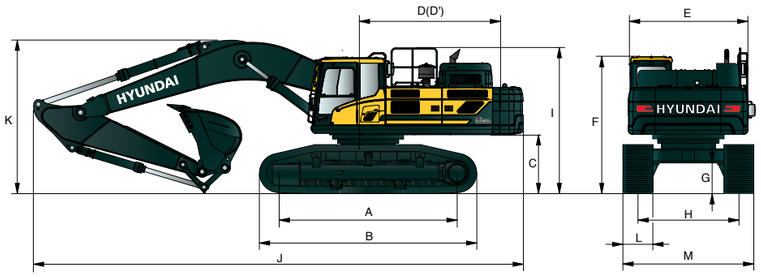
Boom	Length	mm (ft·in)	6,550 (21' 6")		7,060 (23' 2")				Remark
	Weight	kg (lb)	4,340 (9,570)		4,370 (9,630)				
Arm	Length	mm (ft·in)	2,400 (7' 10")	2,900 (9' 6")	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	
	Weight	kg (lb)	2,390 (5,270)	2,590 (5,710)	2,390 (5,270)	2,590 (5,710)	2,630 (5,800)	2,760 (6,080)	
Bucket digging force	SAE	kN	241.2 [263.2]	239.3 [261.1]	241.2 [263.2]	239.3 [261.1]	241.2 [263.2]	243.2 [265.3]	[ ] : Power Boost
		kgf	24,600 [26,840]	24,400 [26,620]	24,600 [26,840]	24,400 [26,620]	24,600 [26,840]	24,800 [27,050]	
		lbf	54,230 [59,170]	53,790 [58,690]	54,230 [59,170]	53,790 [58,690]	54,230 [59,170]	54,670 [59,630]	
	ISO	kN	280.5 [306.0]	278.5 [303.8]	280.5 [306.0]	278.5 [303.8]	280.5 [306.0]	282.4 [308.1]	
		kgf	28,600 [31,200]	28,400 [30,980]	28,600 [31,200]	28,400 [30,980]	28,600 [31,200]	28,800 [31,420]	
		lbf	63,050 [68,780]	62,610 [68,300]	63,050 [68,780]	62,610 [68,300]	63,050 [68,780]	63,490 [69,270]	
Arm crowd force	SAE	kN	274.6 [299.6]	220.7 [240.8]	274.6 [299.6]	220.7 [240.8]	191.2 [208.6]	170.6 [186.1]	
		kgf	28,000 [30,550]	22,500 [24,550]	28,000 [30,550]	22,500 [24,550]	19,500 [21,270]	17,400 [18,980]	
		lbf	61,730 [67,350]	49,600 [54,120]	61,730 [67,350]	49,600 [54,120]	42,990 [46,890]	38,360 [41,840]	
	ISO	kN	287.3 [313.4]	229.5 [250.4]	287.3 [313.4]	229.5 [250.4]	198.1 [216.1]	176.5 [192.6]	
		kgf	29,300 [31,960]	23,400 [25,530]	29,300 [31,960]	23,400 [25,530]	20,200 [22,040]	18,000 [19,640]	
		lbf	64,600 [70,460]	51,590 [56,280]	64,600 [70,460]	51,590 [56,280]	44,530 [48,590]	39,680 [43,300]	

Note : Boom weight includes arm cylinder, piping, and pin
Arm weight includes bucket cylinder, linkage, and pin

DIMENSIONS & WORKING RANGE

HX520S L DIMENSIONS

6.55 m (21' 6"), 7.06 m (23' 2"), 9.0 m (29' 6") BOOM and 2.4 m (7' 10"), 2.9 m (9' 6"), 3.38 m (11' 1"), 4.0 m (13' 1"), 6.0 m (19' 8") ARM

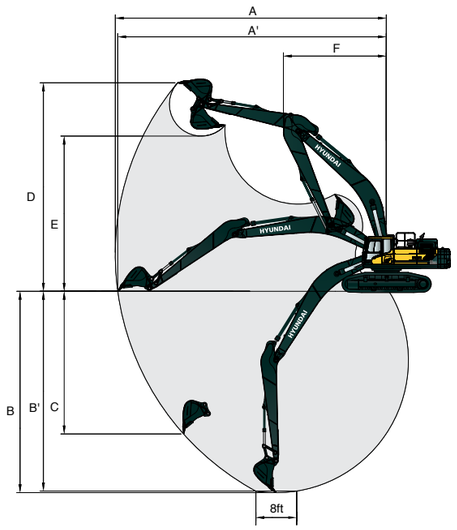


Unit : mm (ft · in)

A	Tumbler distance		4,470 (14' 8")
B	Overall length of crawler		5,460 (17' 11")
C	Ground clearance of counterweight		1,445 (4' 9")
D	Tail swing radius		3,720 (12' 2")
D'	Rear-end length		3,665 (12' 0")
E	Overall width of upperstructure		2,980 (9' 9")
F	Overall height of cab		3,190 (10' 6")
G	Min. ground clearance		770 (2' 6")
H	Track gauge	Extend	2,940 (9' 8")
		Retracted	2,380 (7' 10")
I	Overall height of guardrail (Opt)		3,595 (11' 8")

	Boom length		6,550 (21' 6")		7,060 (23' 2")		
	Arm length		2,400 (7' 10")	2,900 (9' 6")	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")
J	Overall length		11,780 (38' 8")	11,650 (38' 3")	12,290 (40' 4")	12,160 (39' 11")	12,040 (39' 6")	12,030 (39' 6")
K	Overall height of boom		4,190 (13' 9")	4,080 (13' 5")	4,070 (13' 4")	3,920 (12' 10")	3,790 (12' 5")	4,090 (13' 5")
L	Track shoe width		600 (24")		700 (28")		800 (32")	
M	Overall width	Extend	3,540 (11' 7")		3,640 (11' 11")		3,690 (12' 1")	
		Retracted	2,990 (9' 10")		3,080 (10' 1")		3,130 (10' 3")	

HX520S L WORKING RANGE



Unit : mm (ft · in)

	Boom length	6,550 (21' 6")		7,060 (23' 2")			
	Arm length	2,400 (7' 10")	2,900 (9' 6")	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")
A	Max. digging reach	10,650 (34' 11")	11,070 (36' 4")	11,200 (36' 9")	11,620 (38' 1")	12,040 (39' 6")	12,600 (41' 4")
A'	Max. digging reach on ground	10,390 (34' 1")	10,820 (35' 6')	10,950 (35' 11")	11,380 (37' 4")	11,810 (38' 9")	12,380 (40' 7")
B	Max. digging depth	6,270 (20' 7")	6,770 (22' 3")	6,630 (21' 9")	7,130 (23' 5")	7,610 (25' 0")	8,230 (27' 0")
B'	Max. digging depth (8' level)	6,090 (20' 0")	6,610 (21' 8")	6,460 (21' 2")	6,980 (22' 11")	7,470 (24' 6")	8,110 (26' 7")
C	Max. vertical wall digging depth	4,370 (14' 4")	5,420 (17' 9")	4,650 (15' 3")	5,660 (18' 7")	5,770 (18' 11")	6,320 (20' 9")
D	Max. digging height	10,320 (33' 10")	10,530 (34' 7")	10,860 (35' 8")	11,080 (36' 4")	11,180 (36' 8")	11,410 (37' 5")
E	Max. dumping height	7,000 (23' 0")	7,120 (23' 4")	7,490 (24' 7")	7,630 (25' 0")	7,780 (25' 6")	8,020 (26' 4")
F	Min. swing radius	4,730 (15' 6")	4,520 (14' 10")	5,110 (16' 9")	4,890 (16' 1")	4,770 (15' 8")	4,630 (15' 2")

LIFTING CAPACITY

Rating over-front Rating over-side or 360 degree

HX520S L

6.55 m (21' 6") boom, 2.40 m (7' 10") arm equipped with 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius 3.0m (9.8 ft)		4.5m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		At max. reach Capacity		Reach
												m (ft)
7.5 m (24.6 ft)	kg					*13,500	*13,500			*12,940	*12,940	7.02
	lb					*29,760	*29,760			*28,530	*28,530	(23.0)
6.0 m (19.7 ft)	kg					*14,310	*14,310	*12,670	11,900	*12,420	10,870	7.93
	lb					*31,550	*31,550	*27,930	26,230	*27,380	23,960	(26.0)
4.5 m (14.8 ft)	kg					*15,780	*15,780	*13,210	11,590	*12,210	9,610	8.47
	lbT					*34,790	*34,790	*29,120	25,550	*26,920	21,190	(27.8)
3.0 m (9.8 ft)	kg					*17,270	15,400	*13,870	11,220	*12,150	9,000	8.72
	lb					*38,070	33,950	*30,580	24,740	*26,790	19,840	(28.6)
1.5 m (4.9 ft)	kg					*18,080	14,840	*14,270	10,900	*12,150	8,860	8.71
	lb					*39,860	32,720	*31,460	24,030	*26,790	19,530	(28.6)
Ground Line	kg					*17,900	14,570	*14,080	10,720	*12,130	9,180	8.43
	lb					*39,460	32,120	*31,040	23,630	*26,740	20,240	(27.7)
-1.5 m (-4.9 ft)	kg			*20,970	*20,970	*16,600	14,550	*12,880	10,720	*11,950	10,110	7.86
	lb			*46,230	*46,230	*36,600	32,080	*28,400	23,630	*26,350	22,290	(25.8)
-3.0 m (-9.8 ft)	kg	*19,550	*19,550	*17,320	*17,320	*13,780	*13,780			*11,270	*11,270	6.91
	lb	*43,100	*43,100	*38,180	*38,180	*30,380	*30,380			*24,850	*24,850	(22.7)

6.55 m (21' 6") boom, 2.90 m (9' 6") arm equipped with 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius 3.0m (9.8 ft)		4.5m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		9.0m (29.5 ft)		At max. reach Capacity		Reach
														m (ft)
9.0 m (29.5 ft)	kg											*11,180	*11,180	6.21
	lb											*24,650	*24,650	(20.4)
7.5 m (24.6 ft)	kg							*10,730	*10,730			*10,420	*10,420	7.53
	lb							*23,660	*23,660			*22,970	*22,970	(24.7)
6.0 m (19.7 ft)	kg					*13,460	*13,460	*11,970	*11,970			*10,250	9,990	8.38
	lb					*29,670	*29,670	*26,390	*26,390			*22,600	22,020	(27.5)
4.5 m (14.8 ft)	kg			*19,620	*19,620	*15,010	*15,010	*12,640	11,650			*10,460	8,910	8.90
	lb			*43,250	*43,250	*33,090	*33,090	*27,870	25,680			*23,060	19,640	(29.2)
3.0 m (9.8 ft)	kg					*16,650	15,510	*13,440	11,230	*11,510	8,570	*11,020	8,370	9.14
	lb					*36,710	34,190	*29,630	24,760	*25,380	18,890	*24,290	18,450	(30.0)
1.5 m) (4.9 ft)	kg					*17,750	14,860	*14,010	10,860	*11,610	8,390	*11,430	8,230	9.13
	lb					*39,130	32,760	*30,890	23,940	*25,600	18,500	*25,200	18,140	(29.9)
Ground Line	kg			*23,890	22,240	*17,910	14,490	*14,080	10,620			*11,490	8,470	8.86
	lb			*52,670	49,030	*39,480	31,940	*31,040	23,410			*25,330	18,670	(29.1)
-1.5 m (-4.9 ft)	kg	*19,060	*19,060	*22,030	*22,030	*17,020	14,390	*13,310	10,560			*11,470	9,220	8.32
	lb	*42,020	*42,020	*48,570	*48,570	*37,520	31,720	*29,340	23,280			*25,290	20,330	(27.3)
-3.0 m (-9.8 ft)	kg	*23,080	*23,080	*18,850	*18,850	*14,790	14,530					*11,130	10,860	7.43
	lb	*50,880	*50,880	*41,560	*41,560	*32,610	32,030					*24,540	23,940	(24.4)
-4.5 m (-14.8 ft)	kg			*13,500	*13,500	*9,960	*9,960					*9,800	*9,800	6.05
	lb			*29,760	*29,760	*21,960	*21,960					*21,610	*21,610	(19.9)

1. Lifting capacity is based on ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
4. (*) indicates the load limited by hydraulic capacity.

LIFTING CAPACITY

Rating over-front Rating over-side or 360 degree

HX520S L

7.06 m (23' 2") boom, 2.40 m (7' 10") arm equipped with 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius										At max. reach		
		3.0m (9.8 ft)		4.5m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		9.0m (29.5 ft)		Capacity		Reach
														m (ft)
9.0m	kg											*12,730	*12,730	6.40
(29.5 ft)	lb											*28,060	*28,060	(21.0)
7.5m	kg							*11,850	*11,850			*11,810	11,480	7.69
(24.6 ft)	lb							*26,120	*26,120			*26,040	25,310	(25.2)
6.0m	kg					*14,020	*14,020	*12,110	11,790			*11,410	9,590	8.53
(19.7 ft)	lb					*30,910	*30,910	*26,700	25,990			*25,150	21,140	(28.0)
4.5m	kg					*15,630	*15,630	*12,810	11,390	*11,260	8,640	*11,230	8,590	9.03
(14.8 ft)	lb					*34,460	*34,460	*28,240	25,110	*24,820	19,050	*24,760	18,940	(29.6)
3.0m	kg					*17,110	14,950	*13,540	10,970	*11,470	8,460	*11,180	8,090	9.27
(9.8 ft)	lb					*37,720	32,960	*29,850	24,180	*25,290	18,650	*24,650	17,840	(30.4)
1.5m	kg					*17,790	14,420	*13,980	10,630	*11,540	8,290	*11,160	7,970	9.26
(4.9 ft)	lb					*39,220	31,790	*30,820	23,440	*25,440	18,280	*24,600	17,570	(30.4)
Ground	kg					*17,520	14,210	*13,880	10,450			*11,130	8,220	9.00
Line	lb					*38,620	31,330	*30,600	23,040			*24,540	18,120	(29.5)
-1.5m	kg					*16,350	14,210	*13,020	10,430			*10,980	8,940	8.46
(-4.9 ft)	lb					*36,050	31,330	*28,700	22,990			*24,210	19,710	(27.8)
-3.0m	kg			*17,030	*17,030	*14,080	*14,080	*10,730	10,650			*10,470	*10,470	7.59
(-9.8 ft)	lb			*37,540	*37,540	*31,040	*31,040	*23,660	23,480			*23,080	*23,080	(24.9)
-4.5m	kg			*12,190	*12,190	*9,600	*9,600					*8,910	*8,910	6.25
(-14.8 ft)	lb			*26,870	*26,870	*21,160	*21,160					*19,640	*19,640	(20.5)

7.06 m (23' 2") boom, 4.00 m arm equipped with 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius												At max. reach		
		3.0m (9.8 ft)		4.5m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		9.0m (29.5 ft)		10.5m (34.4 ft)		Capacity		Reach
																m (ft)
9.0m	kg													*6,120	*6,120	8.32
(29.5 ft)	lb													*13,490	*13,490	(27.3)
7.5m	kg									*7,640	*7,640			*5,850	*5,850	9.34
(24.6 ft)	lb									*16,840	*16,840			*12,900	*12,900	(30.6)
6.0m	kg							*10,240	*10,240	*9,450	9,070			*5,800	*5,800	10.04
(19.7 ft)	lb							*22,580	*22,580	*20,830	20,000			*12,790	*12,790	(32.9)
4.5m	kg					*13,260	*13,260	*11,190	*11,190	*9,920	8,830			*5,900	*5,900	10.47
(14.8 ft)	lb					*29,230	*29,230	*24,670	*24,670	*21,870	19,470			*13,010	*13,010	(34.4)
3.0m	kg			*21,020	*21,020	*15,210	*15,210	*12,250	11,230	*10,480	8,540	*7,660	6,700	*6,160	*6,160	10.68
(9.8 ft)	lb			*46,340	*46,340	*33,530	*33,530	*27,010	24,760	*23,100	18,830	*16,890	14,770	*13,580	*13,580	(35.0)
1.5m	kg			*21,450	*21,450	*16,740	14,780	*13,160	10,760	*10,970	8,270	*8,230	6,560	*6,610	6,410	10.67
(4.9 ft)	lb			*47,290	*47,290	*36,910	32,580	*29,010	23,720	*24,180	18,230	*18,140	14,460	*14,570	14,130	(35.0)
Ground	kg			*20,600	*20,600	*17,490	14,250	*13,670	10,410	*11,220	8,050			*7,310	6,520	10.44
Line	lb			*45,420	*45,420	*38,560	31,420	*30,140	22,950	*24,740	17,750			*16,120	14,370	(34.3)
-1.5m	kg	*13,610	*13,610	*23,120	21,670	*17,350	14,000	*13,630	10,210	*11,020	7,940			*8,410	6,900	9.98
(-4.9 ft)	lb	*30,000	*30,000	*50,970	47,770	*38,250	30,860	*30,050	22,510	*24,290	17,500			*18,540	15,210	(32.8)
-3.0m	kg	*19,760	*19,760	*21,170	*21,170	*16,290	13,980	*12,830	10,180	*10,040	7,960			*9,520	7,670	9.26
(-9.8 ft)	lb	*43,560	*43,560	*46,670	*46,670	*35,910	30,820	*28,290	22,440	*22,130	17,550			*20,990	16,910	(30.4)
-4.5m	kg	*23,280	*23,280	*17,970	*17,970	*14,060	*14,060	*10,850	10,340					*9,290	9,200	8.20
(-14.8 ft)	lb	*51,320	*51,320	*39,620	*39,620	*31,000	*31,000	*23,920	22,800					*20,480	20,280	(26.9)
-6.0m	kg			*12,800	*12,800	*9,800	*9,800							*8,280	*8,280	6.64
(-19.7 ft)	lb			*28,220	*28,220	*21,610	*21,610							*18,250	*18,250	(21.8)

1. Lifting capacity is based on ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
4. (*) indicates the load limited by hydraulic capacity.

Rating over-front Rating over-side or 360 degree

HX520S L

7.06 m (23' 2") boom, 2.90 m (9' 6") arm equipped with 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius										At max. reach		
		3.0m (9.8 ft)		4.5m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		9.0m (29.5 ft)		Capacity		Reach
														m (ft)
9.0m	kg											*10,980	*10,980	7.00
(29.5 ft)	lb											*24,210	*24,210	(23.0)
7.5m	kg							*11,070	*11,070			*10,380	*10,380	8.20
(24.6 ft)	lb							*24,410	*24,410			*22,880	*22,880	(26.9)
6.0m	kg					*13,220	*13,220	*11,490	*11,490			*10,250	8,840	8.98
(19.7 ft)	lb					*29,150	*29,150	*25,330	*25,330			*22,600	19,490	(29.5)
4.5m	kg					*14,880	*14,880	*12,280	11,440	*10,790	8,650	*10,440	7,970	9.47
(14.8 ft)	lb					*32,800	*32,800	*27,070	25,220	*23,790	19,070	*23,020	17,570	(31.1)
3.0m	kg					*16,510	15,060	*13,130	10,980	*11,140	8,420	*10,460	7,530	9.69
(9.8 ft)	lb					*36,400	33,200	*28,950	24,210	*24,560	18,560	*23,060	16,600	(31.8)
1.5m	kg					*17,490	14,420	*13,720	10,600	*11,370	8,210	*10,500	7,400	9.68
(4.9 ft)	lb					*38,560	31,790	*30,250	23,370	*25,070	18,100	*23,150	16,310	(31.8)
Ground	kg					*17,550	14,110	*13,830	10,350	*11,240	8,080	*10,540	7,590	9.43
Line	lb					*38,690	31,110	*30,490	22,820	*24,780	17,810	*23,240	16,730	(30.9)
-1.5m	kg			*21,170	*21,170	*16,710	14,040	*13,250	10,280			*10,510	8,180	8.92
(-4.9 ft)	lb			*46,670	*46,670	*36,840	30,950	*29,210	22,660			*23,170	18,030	(29.3)
-3.0m	kg	*21,490	*21,490	*18,450	*18,450	*14,850	14,180	*11,630	10,390			*10,240	9,420	8.10
(-9.8 ft)	lb	*47,380	*47,380	*40,680	*40,680	*32,740	31,260	*25,640	22,910			*22,580	20,770	(26.6)
-4.5m	kg			*14,180	*14,180	*11,370	*11,370					*9,310	*9,310	6.86
(-14.8 ft)	lb			*31,260	*31,260	*25,070	*25,070					*20,530	*20,530	(22.5)

7.06 m (23' 2") boom, 3.38 m arm equipped with 600 mm (24") triple grouser shoe.

Load point height m (ft)		Load radius										At max. reach		
		3.0m (9.8 ft)		4.5m (14.8 ft)		6.0m (19.7 ft)		7.5m (24.6 ft)		9.0m (29.5 ft)		Capacity		Reach
														m (ft)
9.0m	kg							*8,120	*8,120			*7,590	*7,590	7.58
(29.5 ft)	lb							*17,900	*17,900			*16730	*16,730	(24.9)
7.5m	kg							*10,410	*10,410			*7,220	*7,220	8.69
(24.6 ft)	lb							*22,950	*22,950			*15,920	*15,920	(28.5)
6.0m	kg							*10,950	*10,950	*10,050	8,920	*7,140	*7,140	9.43
(19.7 ft)	lb							*24,140	*24,140	*22,160	19,670	*15,740	*15,740	(31.0)
4.5m	kg			*18,880	*18,880	*14,220	*14,220	*11,830	11,560	*10,410	8,720	*7,280	*7,280	9.90
(14.8 ft)	lb			*41,620	*41,620	*31,350	*31,350	*26,080	25,490	*22,950	19,220	*16,050	*16,050	(32.5)
3.0m	kg			*22,540	*22,540	*16,010	15,310	*12,780	11,090	*10,870	8,470	*7,630	7,060	10.11
(9.8 ft)	lb			*49,690	*49,690	*35,300	33,750	*28,180	24,450	*23,960	18,670	*16,820	15,560	(33.2)
1.5m	kg			*16,320	*16,320	*17,260	14,610	*13,530	10,670	*11,230	8,230	*8,230	6,950	10.10
(4.9 ft)	lb			*35,980	*35,980	*38,050	32,210	*29,830	23,520	*24,760	18,140	*18,140	15,320	(33.1)
Ground	kg			*19,190	*19,190	*17,640	14,200	*13,820	10,390	*11,290	8,060	*9,200	7,100	9.86
Line	lb			*42,310	*42,310	*38,890	31,310	*30,470	22,910	*24,890	17,770	*20,280	15,650	(32.4)
-1.5m	kg	*14,230	*14,230	*22,260	21,810	*17,110	14,050	*13,500	10,260	*10,780	8,010	*10,090	7,590	9.38
(-4.9 ft)	lb	*31,370	*31,370	*49,070	48,080	*37,720	30,970	*29,760	22,620	*23,770	17,660	*22,240	16,730	(30.8)
-3.0m	kg	*22,280	*22,280	*19,840	*19,840	*15,610	14,120	*12,290	10,300			*9,990	8,600	8.60
(-9.8 ft)	lb	*49,120	*49,120	*43,740	*43,740	*34,410	31,130	*27,090	22,710			*22,020	18,960	(28.2)
-4.5m	kg	*19,480	*19,480	*16,030	*16,030	*12,740	*12,740					*9,450	*9,450	7.45
(-14.8 ft)	lb	*42,950	*42,950	*35,340	*35,340	*28,090	*28,090					*20,830	*20,830	(24.4)

1. Lifting capacity is based on ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
4. (*) indicates the load limited by hydraulic capacity.

MEMO