

SPECIFICATIONS

HX220L

Tier 4 Final Engine

Net Power

SAE J1349 / 173 HP
(129 kW) at 1,950 rpm)

Bucket Range

0.52 m³ - 1.34 m³
0.68 yd³ - 1.75 yd³
Standard Bucket
0.92 m³ (1.2 yd³)

Operating Weight

23,360 kg (51,500 lb)

ENGINE	
Make / model	Cummins QSB6.7
Type	4-cycle turbocharged, charge air cooled, diesel engine
Rated flywheel horsepower	SAE J1995 (gross) 182.6 HP (136 kW) at 1,950 rpm SAE J1349 (net) 173 HP (129 kW) at 1,950 rpm
Max. torque	85.7 kgf-m (620 lbf-ft) / 1,500 rpm
Bore x stroke	107 x 124 mm (4.2" x 4.9")
Piston displacement	6,700 cc (409 in ³)
Batteries	2 x 12 V x 100 Ah
Starting motor	24 V-4.8 kW
Alternator	24 V-95 Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable-displacement tandem axis piston pumps
Max. flow	2 x 222 l/min (58.6 gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel-saving pump system

HYDRAULIC MOTORS

Travel	Two-speed axial piston motor with brake motor with automatic brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING

Implement circuits	350 kgf / cm ² (4,980 psi)
Travel	350 kgf / cm ² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf / cm ² (5,400 psi)
Swing circuit	265 kgf / cm ² (3,770 psi)
Pilot circuit	40 kgf / cm ² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinders bore X stroke	Boom: 120 x 1,290 mm (4.7 x 50.8 in)
	Arm: 140 x 1,570 mm (5.5 x 59.4 in)
	Bucket: 120 x 1,055 mm (4.7 x 41.5 in)

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	20,200 kgf (44,530 lbf)
Max. travel speed (high / low)	5.5 km / hr (3.41 mph) / 3.6 km / hr (2.23 mph)
Gradeability	35° (70%)
Parking brake	Multi wet disc brake

CONTROL

Pilot pressure operated joysticks provide very-low-effort 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



OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,680 mm (18' 8") boom, 2,920 mm (9' 7") arm, SAE heaped 0.92 m³ (1.20 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, max 4,500 kg (9,920 lb) counterweight and all other standard equipment.

OPERATING WEIGHT

Shoes	Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)	kg f / cm ² (psi)
Triple grouser	700 (28")	HX220 L 23,080 (50,883)	0.42 (6.01)
	800 (32")	HX220 L 23,360 (51,500)	0.37 (5.28)
	900 (36")	HX220 L 23,640 (52,117)	0.34 (4.84)

SWING SYSTEM

Swing motor	Fixed displacement axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc brake
Swing speed	10.8 rpm

SERVICE REFILL CAPACITIES

Refilling	liters	US gal
Fuel tank	400	106
Engine coolant	40	10.6
Engine oil	23	6.1
Swing device	6.2	1.64
Final drive (each)	4.5	1.2
Hydraulic system (including tank)	275	72.6
Hydraulic tank	160	42.3
DEF/AdBlue®	27	7.1

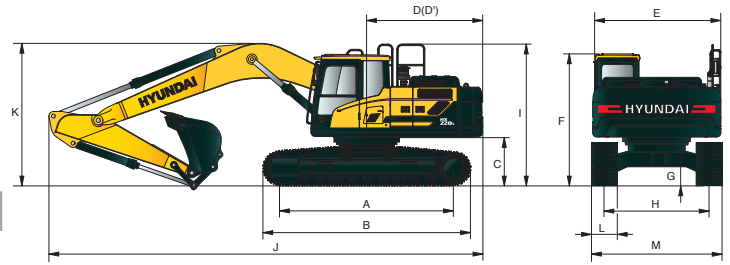
UNDERCARRIAGE

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	49 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	2 EA

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HX220 L DIMENSIONS

Unit: mm (ft-in)

5.68 m (18' 8") boom and 2.0 m (6' 7"), 2.4 m (7' 10"), 2.92 m (9' 7"), 3.9 m (12' 10") arm

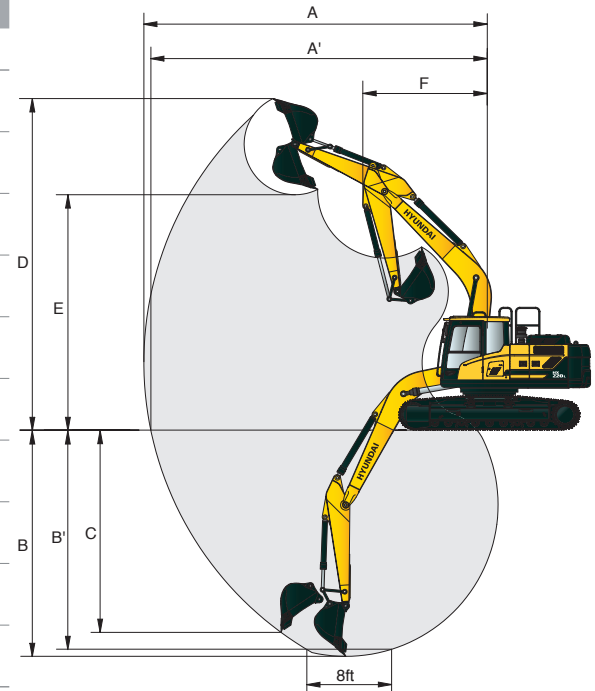
A Tumbler distance	3,650 (12' 0")
B Overall length of crawler	4,440 (14' 7")
C Ground clearance of counterweight	1,060 (3' 6")
D Tail swing radius	2,840 (9' 4")
D' Rear-end length	2,770 (9' 1")
E Overall width of upperstructure	2,740 (9' 0")
F Overall height of cab	3,000 (9' 8")
G Min. ground clearance	480 (1' 7")
H Track gauge	2,390 (7' 10")
I Overall height of guardrail	3,210 (10' 5")

Boom length	5,680 (18' 8")			
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	3,900 (12' 10")
J Overall length	9,650 (31' 8")	9,570 (31' 5")	9,530 (31' 3")	9,520 (31' 3")
K Overall height of boom	3,200 (10' 6")	3,110 (10' 2")	3,030 (9' 11")	3,480 (11' 5")
L Track shoe width	600 (24")	700 (28")	800 (32")	900 (36")
M Overall width	2,990 (9' 10")	3,090 (10' 2")	3,190 (10' 6")	3,290 (10' 10")

HX220 L WORKING RANGE

Unit : mm (ft-in)

Boom length	5,680 (18' 8")			
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	3,900 (12' 10")
A Max. digging reach	9,140 (30' 0")	9,500 (31' 2")	9,980 (32' 9")	10,910 (35' 10")
A' Max. digging reach on ground	8,960 (29' 5")	9,330 (30' 7")	9,820 (32' 3")	10,770 (35' 4")
B Max. digging depth	5,820 (19' 1")	6,220 (20' 5")	6,730 (22' 1")	7,720 (25' 4")
B' Max. digging depth (8' level)	5,580 (18' 4")	6,010 (19' 9")	6,560 (21' 6")	7,580 (24' 10")
C Max. vertical wall digging depth	5,280 (17' 4")	5,720 (18' 9")	6,280 (20' 7")	7,240 (23' 9")
D Max. digging height	9,140 (30' 0")	9,340 (30' 8")	9,600 (31' 6")	10,110 (33' 2")
E Max. dumping height	6,330 (20' 9")	6,520 (21' 5")	6,780 (22' 3")	7,290 (23' 11")
F Min. swing radius	3,750 (12' 4")	3,740 (12' 3")	3,670 (12' 0")	3,700 (12' 2")



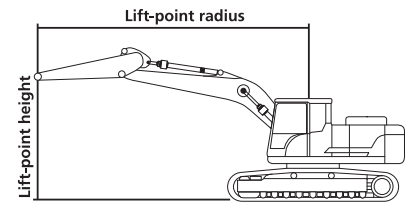
DIGGING FORCE

Boom	Length	mm (ft-in)	5,680 (18' 8")				8,200 (26' 11")	Remark
	Weight	kg (lb)	1,950 (4,300)				2,350 (5,180)	
Arm	Length	mm (ft-in)	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	3,900 (12' 10")	6,300 (20' 8")	[Power Boost]
	Weight	kg (lb)	975 (2,150)	1,045 (2,300)	1,095 (2,410)	1,295 (2,850)	1,330 (2,930)	
Bucket digging force	SAE	kN	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]	72.6	
		kgf	13,600 [14,770]	13,600 [14,770]	13,600 [14,770]	13,600 [14,770]	7,400	
		lbf	29,980 [32,550]	29,980 [32,550]	29,980 [32,550]	29,980 [32,550]	16,310	
	ISO	kN	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]	83.4	
		lbf	34,170 [37,100]	34,170 [37,100]	34,170 [37,100]	34,170 [37,100]	18,740	
Arm crowd force	SAE	kN	144.2 [156.5]	119.6 [129.9]	102.0 [110.7]	84.3 [91.6]	49.0	
		kgf	14,700 [15,960]	12,200 [13,250]	10,400 [11,290]	8,600 [9,340]	5,000	
		lbf	32,410 [35,190]	26,900 [29,210]	22,930 [24,900]	18,960 [20,590]	11,020	
	ISO	kN	151.0 [164.0]	125.5 [136.3]	106.9 [116.1]	87.3 [94.8]	50.0	
		lbf	33,950 [36,860]	28,220 [30,640]	24,030 [26,090]	19,620 [21,300]	11,240	

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

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Lifting Capacity Chart

Boom: 5,680 mm (18'8")

Arm: 2,920 mm (9'7")

Bucket: 0.92 m³ (1.20 yd³) SAE heaped

Shoe 800 mm (32") triple grouser, CWT 4,500 kg (9,920 lb)

Capacities based on North American Standard Configuration in accordance with ISO condition 2 standard.



Rating over front



Rating over side or 360 degree

Load point height (m / ft)		Lift-point radius										At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity		Reach
														m (ft)
7.5 m	kg							*4,570	*4,570			*3,910	*3,910	6.25
25 ft	lb							*10,070	*10,070			*8,630	*8,630	(20.5)
6.0 m	kg							*5,240	*5,240			*3,600	*3,600	7.37
20 ft	lb							*11,550	*11,550			*7,940	*7,940	(24.2)
4.5 m	kg							*5,840	*5,710	*5,500	4,030	*3,510	*3,510	8.06
15 ft	lb							*12,880	*12,590	*12,120	8,880	*7,750	*7,750	(26.4)
3.0 m	kg				*8,690	*8,350	*6,830	*5,470	*6,000	3,920		*3,570	*3,270	8.43
10 ft	lb				*19,150	*18,400	*15,060	*12,050	*13,220	8,650		*7,880	*7,210	(27.6)
1.5 m	kg				*10,750	*7,820	*7,880	*5,220	6,150	3,800		*3,780	*3,160	8.51
5 ft	lb				*23,700	*17,250	*17,360	*11,510	13,560	8,390		*8,330	*6,970	(27.9)
Ground-line	kg			*6,770	*6,770	*11,950	*7,540	8,430	5,040	6,050	3,710	*4,160	*3,220	8.33
	lb			*14,930	*14,930	*26,350	*16,620	18,590	11,120	13,330	8,180	*9,180	*7,090	(27.3)
-1.5 m	kg	*7,430	*7,430	*11,860	*11,860	*12,220	*7,450	8,340	4,960	6,010	3,680	*4,860	*3,470	7.85
-5 ft	lb	*16,380	*16,380	*26,150	*26,150	*26,940	*16,430	18,390	10,950	13,260	8,120	*10,720	*7,660	(25.7)
-3.0 m	kg	*12,690	*12,690	*16,380	*14,590	*11,620	*7,510	8,380	4,990			*5,900	*4,080	7.02
-10 ft	lb	*27,980	*27,980	*36,100	*32,160	*25,620	*16,550	18,470	11,010			*13,000	*8,990	(23.0)
-4.5 m	kg			*13,820	*13,820	*9,760	*7,720					*7,240	*5,590	5.68
-15 ft	lb			*30,460	*30,460	*21,510	*17,010					*15,960	*12,330	(18.6)

NOTES:

1. Lifting capacities are based on ISO 10567.

2. Lifting capacity of the HX 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 load limited by hydraulic capacity.



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ENGINE	STD	OPT
Cummins QSB 6.7 engine	●	
HYDRAULIC SYSTEM		
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		●
Electronic fan control	●	
CAB & INTERIOR		
ISO standard cabin		
Rise-up type windshield wiper	●	
Radio / USB player	●	
Bluetooth / hands-free mobile phone system with USB	●	
Miracast	●	
12-volt power outlet (24V DC to 12V 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 and cool box	●	
Storage compartment and ashtray	●	
Transparent cabin roof-cover	●	
Sun visor	●	
Door and cab locks, one key	●	
Mechanical suspension seat with heater	●	
Pilot-operated adjustable joystick	●	
Console box height adjust system	●	
Automatic climate control		
Air conditioner and heater	●	
Defroster	●	
Starting aid (air grid heater) for cold weather	●	
Centralized monitoring		
8" (203.2 mm) LCD display	●	
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	●	
Hydraulic oil temperature gauge	●	
Fuel warmer	●	
Warnings	●	
Communication error	●	
Low battery	●	
Clock	●	
Cabin lights	●	
Cabin front window rain guard		●
Cabin roof-steel cover		●

CAB & INTERIOR	STD	OPT
Seat		
Adjustable air suspension seat with heater	●	
Cabin FOPS/FOG		
FOG ISO 10262 Level 2		●
(FOPS ISO 3449 Level 2)	Front and top guard	●
	Top guard	●
Cabin ROPS		
ROPS ISO 12117-2	●	

SAFETY	STD	OPT
Battery master switch	●	
Rearview camera	●	
AAVM (All-Around View Monitoring)		●
Four front working lights	●	
Dual boom working lights	●	
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		●
Three outside rearview mirrors	●	

OTHER SPECS	STD	OPT
Booms		
5.68 m, 18' 8"	●	
8.2 m, 26' 11" Long reach		●
Arms		
2.0 m, 6' 7"		●
2.4 m, 7' 10"		●
2.92 m, 9' 7"	●	
3.9 m, 12' 10"		●
6.3 m, 20' 8" Long reach		●
Removable clean-out dust net for cooler	●	
Removable reservoir tank	●	
Fuel pre-filter	●	
Fuel warmer		●
Self-diagnostics system	●	
Hi-mate remote management system		Mobile Satellite
	●	●
Batteries (2 x 12V x 100 AH)	●	
Fuel-filler pump (50 lpm / 13 gpm)		●
Single-acting piping kit (breaker, etc.)		●
Double-acting piping kit (clamshell, etc.)	●	
Rotating piping kit		●
Quick coupler piping		●
Quick coupler		●
Boom float control		●
One-pedal straight travel system		●
Pilot accumulator	●	
Pattern change valve (SAE and ISO)	●	
Fine swing control system		●
Tool kit		●

UNDERCARRIAGE	STD	OPT
Lower frame under cover (additional)		●
Lower frame under cover (normal)	●	
Track shoes		
Triple grousers shoes (700 mm, 28")		●
Triple grousers shoes (800 mm, 32")	●	
Triple grousers shoes (900 mm, 36")		●
Track rail guard	●	
Full track rail guard		●

NOTE: Standard and optional equipment may vary. Materials and specifications are subject to change without advance notice. Contact your Hyundai dealer for more information.



www.hceamericas.com

6100 Atlantic Blvd., Norcross, GA 30071

TEL (678) 823 7777 FAX (678) 823 7778

PLEASE CONTACT