Net Power SAE J1349 / 173 HP (129 kW) at 1,950 rpm Bucket Range 0.52 m³ (0.68 yd³) Operating Weight 24,820 kg (54,720 lb)

Tier 4 Final Engine

ENGINE			
Make / model		Cummins QSB6.7	
Туре		4-cycle turbocharged, charge air-cooled, diesel engine	
Rated J'	1995 (gross)	182.6 HP (136 kW) at 1,950 rpm	
	1349 (net)	173 HP (129 kW) at 1,950 rpm	
Max. torque		85.7 kgf·m (620 lbf·ft) at 1,500 rpm	
Bore X stroke		107 × 124 mm (4.2"× 4.9")	
Piston displacement		6,700 cc (409 in³)	
Batteries		2 x 12 V x 100 Ah	
Starting motor		24 V - 4.8 kW	
Alternator		24 V - 95 Amp	

HYDRAULIC SYSTEM	
MAIN PUMP	
Туре	Variable-displacement tandem axis piston pumps
Max. flow	2 × 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 SETTIN	G		
Implement circuits	350 kgf/cm² (4,980 psi)		
Travel	350 kgf/cm² (4,980 psi)		
Boom	400 kgf/cm² (5,690 psi)		
Arm	300 kgf/cm² (4,270 psi)		
Bucket	280 kgf/cm² (3,980 psi)		
Swing circuit	265 kgf/cm² (3,770 psi)		
Pilot circuit	40 kgf/cm² (570 psi)		
Service valve	Installed		
HYDRAULIC CYLINDE	RS		
	Boom: 120 x 1,290 mm (4.7" x 50.8")		
No. of cylinders	Arm: 140 x 1,570 mm (5.5" x 59.4")		
bore X stroke	Bucket: 120 v 1 055 mm (4 7" v 41 5")		

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	

Bucket: 120 x 1,055 mm (4.7" x 41.5")

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 8.2 m (26' 11") boom and 6.3 m (20' 8") arm, SAE heaped 0.52 m 3 (0.68 yd 3) 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
Туре	ype Width k mm (in)		kg (lb)	kgf/cm² (psi)
Triple grouser	800 (32")	HX220LR	24,820 (54,720)	0.39 (5.55)

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

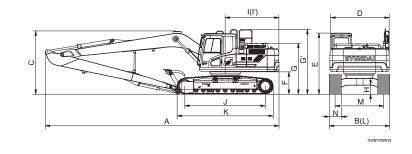
The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock-absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

Center frame	X-leg type
Track frame	Pentagonal box type
No. of shoes on each side	49 EA
No. of carrier rollers on each side	2 EA
No. of track rollers on each side	9 EA
No. of rail guards on each side	2 EA

SPECIFICATIONS **HX220**LR

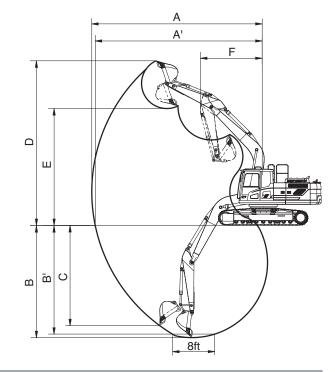
Tier 4 Final Engine

H	HX220LR DIMENSIONS Unit: mm (ft·in		
8.2	8.2 m (26' 11") boom and 6.3 m (20' 8") arm		
Α	Overall length	12,030 (39' 6")	
В	Overall width, with 800 mm shoe	3,190 (10' 6")	
С	Overall height of boom	3,280 (10' 9")	
D	Superstructure width	2,740 (9' 0")	
Е	Overall height of cab	2,920 (9' 7")	
F	Ground clearance of counterweight	1,060 (3' 6")	
G	Engine cover height	2,469 (8' 1")	
G'	Overall height of handrail	3,211 (10' 6")	



Н	Minimum ground clearance	480 (1' 7")
1	Rear-end distance	2,770 (9' 1")
T'	Rear-end swing radius	2,840 (9' 4")
J	Distance between tumblers	3,650 (12' 0")
K	Undercarriage length	4,440 (14' 7")
L	Undercarriage width	3,190 (10' 6")
M	Track gauge	2,390 (7' 10")
Ν	Track shoe width	800 (32")

HX220LR WORKING RANGE	Unit : mm (ft·in)
A Max. digging reach	15,220 (50' 0")
A' Max. digging reach on ground	15,120 (49' 7")
B Max. digging depth	11,760 (38' 7")
B' Max. digging depth (8' level)	11,650 (38' 3")
C Max. vertical wall digging depth	9,610 (31' 6")
D Max. digging height	12,550 (41' 2")
E Max. dumping height	10,280 (33' 8")
F Min. swing radius	4,870 (16' 0")

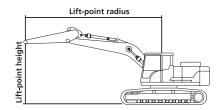


DIGGING FORCE						
D. a. a. a.	Length	mm (ft·in)	8,200 (26' 11'')			
Boom	Weight	kg (lb)	2,105 (4,460)			
Arm	Length	mm (ft·in)	6,300 (20' 8'')			
Arm	Weight	kg (lb)	1,100 (2,430)			
	SAE	kN	72.6			
		kgf	7,400			
Bucket		lbf	16,310			
digging force	ISO	kN	83.4			
Torce		kgf	8,500			
		lbf	18,740			
	SAE	kN	49.0			
		kgf	5,000			
Arm		lbf	11,020			
crowd force	ISO	kN	50.0			
		kgf	5,100			
		lbf	11,240			

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

SPECIFICATIONS

Tier 4 Final Engine



Lifting Capacity

Boom: 8.2 m (26' 11") Arm: 6.3 m (20' 8")

Capacities based on North American Standard

Configuration in accordance with ISO condition 2 standard.

Rating over front

Bucket: 0.52 m³ (0.68 yd³) SAE heaped

		Lift-point radius At max. reach																
Load point height (m / ft)		4.5 m (15 ft)		6.0 m	6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		10.5 m (35 ft)		12.0 m (40 ft)		13.5 m (45 ft)		Capacity	
								ľ				Ū				Ū		m (ft)
10.5 m	kg															*1,470	*1,470	12.11
(35 ft)	lb															*3,240	*3,240	-39.
9.0 m	kg											*930	*930			*1,490	*1,490	13.1
(30 ft)	lb											*2,050	*2,050			*3,280	*3,280	-4
7.5 m	kg											*1,540	*1,540			*1,530	1,350	13.8
(25 ft)	lb											*3,400	*3,400			*3,370	2,980	-45.4
6.0 m	kg									*1,590	*1,590	*1,600	*1,600			*1,580	1,190	14.3
(20 ft)	lb									*3,510	*3,510	*3,530	*3,530			*3,480	2,620	-47.
4.5 m	kg									*1,770	*1,770	*1,710	*1,710	*1,260	*1,260	*1,630	1,080	14.7
(15 ft)	lb									*3,900	*3,900	*3,770	*3,770	*2,780	*2,780	*3,590	2,380	-48.
3.0 m	kg					*2,500	*2,500	*2,200	*2,200	*2,000	*2,000	*1,860	1,670	*1,590	1,260	*1,700	1,010	14.8
(10 ft)	lb					*5,510	*5,510	*4,850	*4,850	*4,410	*4,410	*4,100	3,680	*3,510	2,780	*3,750	2,230	-48.
1.5 m	kg	*5,570	*5,570	*3,900	*3,900	*3,060	*3,060	*2,560	*2,560	*2,240	2,050	*2,030	1,570	*1,790	1,200	*1,780	970	14.
(5 ft)	lb	*12,280	*12,280	*8,600	*8,600	*6,750	*6,750	*5,640	*5,640	*4,940	4,520	*4,480	3,460	*3,950	2,650	*3,920	2,140	-48.
Ground	kg	*6,930	6,870	*4,720	4,590	*3,580	3,320	*2,910	2,490	*2,490	1,910	*2,200	1,480	*1,820	1,140	*1,860	960	14.7
Line	lb	*15,280	15,150	*10,410	10,120	*7,890	7,320	*6,420	5,490	*5,490	4,210	*4,850	3,260	*4,010	2,510	*4,100	2,120	-48.
-1.5 m	kg	*7,750	6,340	*5,330	4,220	*4,020	3,060	*3,220	2,320	*2,700	1,790	*2,350	1,400	*1,570	1,100	*1,960	990	14.4
(-5 ft)	lb	*17,090	13,980	*11,750	9,300	*8,860	6,750	*7,100	5,110	*5,950	3,950	*5,180	3,090	*3,460	2,430	*4,320	2,180	-47.
-3.0 m	kg	*8,150	6,120	*5,720	4,000	*4,330	2,890	*3,450	2,190	*2,870	1,700	*2,460	1,340			*2,060	1,050	13.9
(-10 ft)	lb	*17,970	13,490	*12,610	8,820	*9,550	6,370	*7,610	4,830	*6,330	3,750	*5,420	2,950			*4,540	2,310	-45.
-4.5 m	kg	*8,220	6,060	*5,890	3,910	*4,490	2,810	*3,590	2,120	*2,960	1,660	*2,490	1,330			*2,180	1,170	13.
(-15 ft)	lb	*18,120	13,360	*12,990	8,620	*9,900	6,190	*7,910	4,670	*6,530	3,660	*5,490	2,930			*4,810	2,580	-43.
-6.0 m	kg	*8,020	6,130	*5,840	3,920	*4,500	2,790	*3,600	2,110	*2,940	1,660					*2,310	1,370	12.2
(-20 ft)	lb	*17,680	13,510	*12,870	8,640	*9,920	6,150	*7,940	4,650	*6,480	3,660					*5,090	3,020	-40.
-7.5 m	kg	*7,500	6,310	*5,550	4,010	*4,300	2,850	*3,420	2,170	*2,700	1,730					*2,430	1,710	10.9
-25 ft)	lb	*16,530	13,910	*12,240	8,840	*9,480	6,280	*7,540	4,780	*5,950	3,810					*5,360	3,770	-3
-9.0 m	kg	*6,570	*6,570	*4,920	4,200	*3,790	3,000	*2,890	2,320									
-30 ft)	lb	*14,480	*14,480	*10,850	9,260	*8,360	6,610	*6,370	5,110									
10.5 m	kg	*4,970	*4,970	*3,680	*3,680													
(-35 ft)	lb	*10,960	*10,960	*8,110	*8,110													

NOTES:

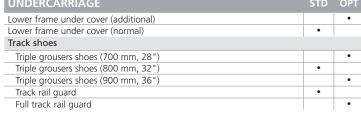
- 1. Lifting capacities are based on ISO 10567.
- 2. Lifting capacity of the HX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- 4. (*) indicates load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

SPECIFICATIONS

Tier 4 Final Engine

ENGINE	STD	ОРТ
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	STD	OPT
ISO standard cabin		
Rise-up type windshield wiper	•	
Radio / USB player	•	
Bluetooth / hands-free mobile phone system with USB	•	
Miracast	•	
12-volt 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 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	•	
Cabin lights	•	
Cabin front window rain guard		•
Cabin roof-steel cover		•
Automatic climate control		
Air conditioner and heater	•	
Defroster	•	
Starting aid (air grid heater) for cold weather	•	
Centralized monitoring		
8"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	•	

CAB & INTERIOR		STD	OP
Seat			
Adjustable air suspension seat w	rith heater	•	
Cabin FOPS/FOG			
FOG ISO 10262 Level 2	Front and top guard		•
(FOPS ISO 3449 Level 2)	Top guard		•
Cabin ROPS			
ROPS ISO 12117-2		•	
SAFETY		STD	OP
Battery master switch		•	
Rearview camera		•	
AAVM (All-Around View Monitorii	ng)		•
	mounted, 2 front frame mounted)	•	
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 everload warning device	_ •	-
Safety lock valve for arm cylinder	with overload warning device		
Swing lock system			
Three outside rearview mirrors		•	
OTHER		STD	OF
Booms		310	- 01
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 syst	em Mobile	•	
	Satellite		•
Batteries (2 x 12 V x 100 Ah)		•	
Fuel-filler pump (50 l/min / 13 gp			
Single-acting piping kit (breaker, e			_
Double-acting piping kit (clamshel	i, etc.)	+ -	
Rotating piping kit Quick coupler piping			
Quick coupler piping Quick coupler			
Boom float control		+	•
One-pedal straight travel system		+	•
Pilot accumulator		•	
Pattern change valve (SAE and ISC))	•	
Fine swing control system			•
Tool kit			•
UNDERCARRIAGE		STD	OF
Lower frame under cover (addition	nal)		
Lower frame under cover (normal)		•	
Track shoes	20"\		
Triple grousers shoes (700 mm, 2		•	Η.
Triple arousers shoes (200 mm			
Triple grousers shoes (800 mm, 3 Triple grousers shoes (900 mm, 3			



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



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PLEASE	CONTACT

1071-EX-SP 2/2018 v13