

SPECIFICATIONS

HX220 L

ENGINE				
Maker / Model			Cummins QSB6.7	
Type			4-cycle turbocharged, charge air cooled diesel engine	
Rated flywheel horse power	SAE	J1995 (gross)	136 kW (182.6 HP) at 1,950 rpm	
		J1349 (net)	129 kW (173 HP) at 1,950 rpm	
	DIN	6271/1 (gross)	136 kW (185 PS) at 1,950 rpm	
		6271/1 (net)	129 kW (175 PS) at 1,950 rpm	
Max. torque			85.7 kgf-m (620 lbf-ft) at 1,500 rpm	
Bore x stroke			107 x 124 mm (4.21" x 4.88")	
Piston displacement			6,700 cc (409 cu in)	
Batteries			2 x 12 V x 100 Ah	
Starting motor			Denso 24 V - 4.8 kW	
Alternator			Denso 24 V - 95 A	

HYDRAULIC SYSTEM

MAIN PUMP

Type	Variable displacement tandem axis piston pumps
Max. flow	2 × 222 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	350 kgf/cm² (4,980 psi)
Travel	350 kgf/cm² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,400 psi)
Swing circuit	265 kgf/cm² (3,770 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder bore × stroke	Boom: Ø 120 × 1,290 mm		
	2-Piece Boom: Ø 160 × 1,060 mm		
	Arm: Ø 140 × 1,510 mm		
	Bucket: Ø 120 × 1,055 mm		

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

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	10.8 rpm

SERVICE REFILL CAPACITIES

Re-filling	liter	US gal	UK gal
Fuel tank	400	106	88
Engine coolant	40	10.6	8.8
Engine oil	23	6.1	5.06
Swing device	6.2	1.64	1.36
Final drive (each)	4.5	1.2	1
Hydraulic system (including tank)	275	72.6	60.5
Hydraulic tank	160	42.3	35.2
DEF/AdBlue®	27	7.1	5.9

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

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 and all standard equipments.

OPERATING WEIGHT

Shoes		Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)		kgf / cm² (psi)
Triple grouser	600 (24")	HX220 L	22,100 (48,720)	0.47 (6.68)
		HX220 L HW	23,560 (51,940)	0.50 (7.11)
	700 (28")	HX220 L	22,380 (49,340)	0.41 (5.83)
		HX220 L HW	23,840 (52,560)	0.44 (6.26)
	800 (32")	HX220 L	22,660 (49,960)	0.36 (5.12)
		HX220 L HW	24,120 (53,170)	0.39 (5.55)
		HX220 L	22,940 (50,570)	0.33 (4.69)
		HX220 L HW	24,400 (53,790)	0.35 (4.98)
Double grouser	600 (24")	HX220 L HW	23,690 (52,230)	0.50 (7.11)
	700 (28")	HX220 L HW	24,040 (53,000)	0.43 (6.11)

SPECIFICATIONS

HX220 NL

ENGINE				
Maker / Model		Cummins QSB6.7		
Type		4-cycle turbocharged, charge air cooled diesel engine		
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		J1349 (net)	129 kW (173 HP) at 1,950 rpm	
	DIN	6271/1 (gross)	136 kW (185 PS) at 1,950 rpm	
		6271/1 (net)	129 kW (175 PS) at 1,950 rpm	
Max. torque		85.7 kgf-m (620 lbf-ft) at 1,500 rpm		
Bore x stroke		107 x 124 mm (4.21" x 4.88")		
Piston displacement		6,700 cc (409 cu in)		
Batteries		2 x 12 V x 100 Ah		
Starting motor		Denso 24 V - 4.8 kW		
Alternator		Denso 24 V - 95 A		

HYDRAULIC SYSTEM

MAIN PUMP

Type	Variable displacement tandem axis piston pumps
Max. flow	2 × 222 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	350 kgf/cm² (4,980 psi)
Travel	350 kgf/cm² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,400 psi)
Swing circuit	265 kgf/cm² (3,770 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder bore × stroke	Boom: Ø 120 × 1,290 mm		
	2-Piece Boom: Ø 160 × 1,060 mm		
	Arm: Ø 140 × 1,510 mm		
	Bucket: Ø 120 × 1,055 mm		

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

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	10.8 rpm

SERVICE REFILL CAPACITIES

Re-filling	liter	US gal	UK gal
Fuel tank	310	81.9	68.2
Engine coolant	40	10.6	8.8
Engine oil	23.7	6.3	5.2
Swing device	6.2	1.64	1.36
Final drive (each)	4.5	1.2	1
Hydraulic system (including tank)	340	89.8	74.8
Hydraulic tank	165	43.6	36.3
DEF/AdBlue®	27	7.1	5.9

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

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,650 mm (18' 6") boom; 2,920 mm (9' 7") arm; SAE heaped 0.87 m³ (1.14 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

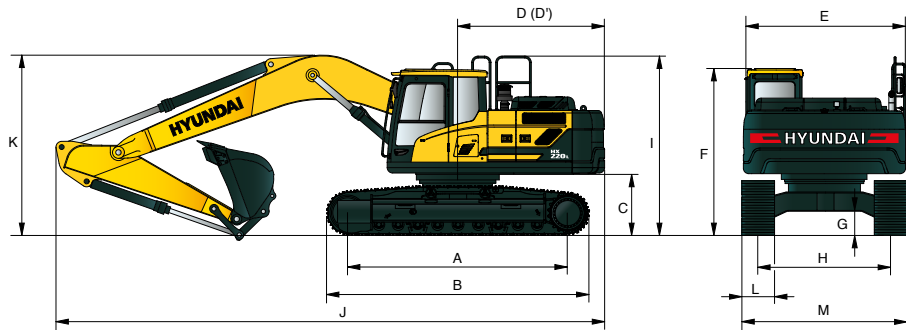
OPERATING WEIGHT

Shoes		Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)		kgf / cm² (psi)
Triple grouser	500 (20")	HX220 NL	22,300 (49,160)	0.57 (8.11)
	600 (24")	HX220 NL	22,400 (49,380)	0.48 (6.83)
	700 (28")	HX220 NL	22,870 (50,420)	0.42 (5.97)

DIMENSIONS & WORKING RANGE

HX220 L DIMENSIONS

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

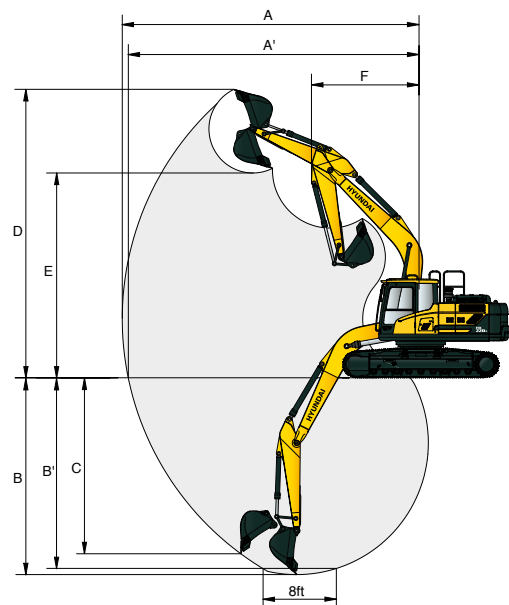


Unit : mm (ft-in)

A	Tumbler distance	3,650 (12' 0")
B	Overall length of crawler	4,404 (14' 4")
C	Ground clearance of counterweight	1,060 (3' 6")
D	Tail swing radius	2,890 (9' 5")
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



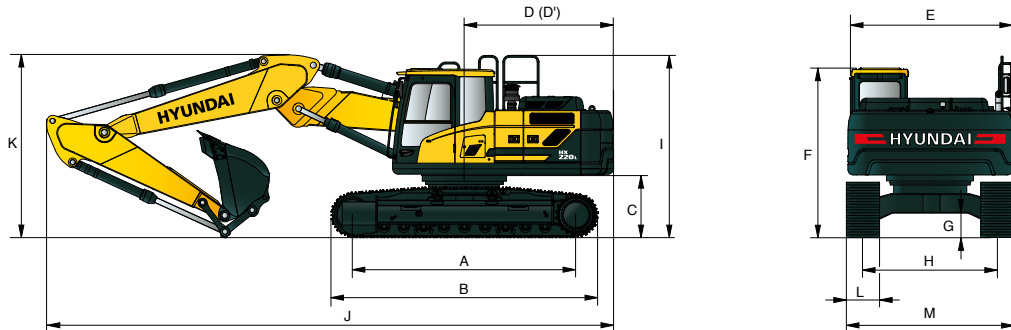
Unit : mm (ft-in)

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. front swing radius	3,750 (12' 4")	3,740 (12' 3")	3,670 (12' 0")	3,700 (12' 2")

DIMENSIONS & WORKING RANGE

HX220 L 2-PIECE BOOM DIMENSIONS

5.65 m (18' 6") 2-Piece BOOM and 2.0 m (6' 7"); 2.4 m (7' 10") & 2.92 m (9' 7") ARM

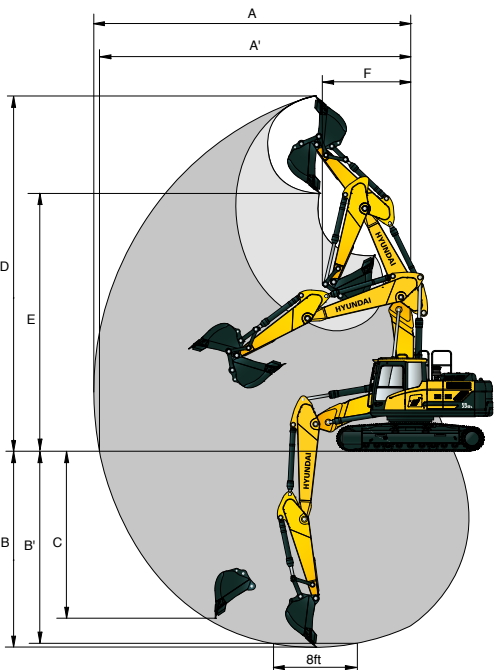


Unit : mm (ft-in)

A	Tumbler distance	3,650 (12' 0")
B	Overall length of crawler	4,404 (14' 4")
C	Ground clearance of counterweight	1,060 (3' 6")
D	Tail swing radius	2,890 (9' 5")
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	5,650 (18' 6") 2-Piece Boom			
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	
J Overall length	9,650 (31' 8")	9,570 (31' 5")	9,530 (31' 3")	
K Overall height of boom	3,200 (10' 6")	3,110 (10' 2")	3,030 (9' 11")	
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 2-PIECE BOOM WORKING RANGE



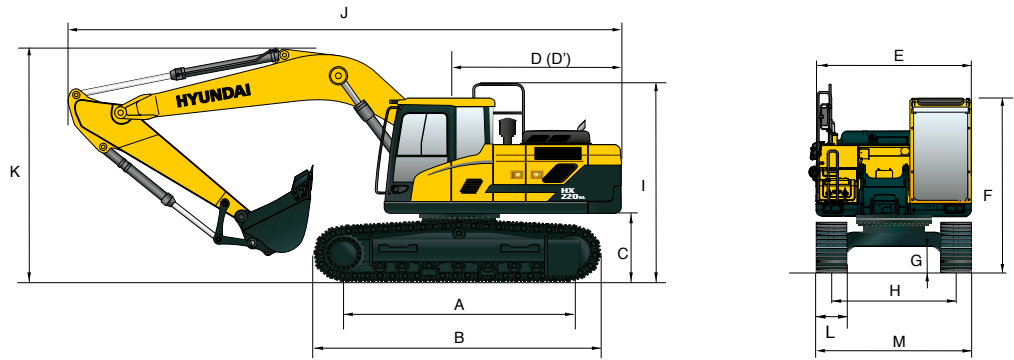
Unit : mm (ft-in)

Boom length	5,650 (18' 6") 2-Piece Boom			
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	
A Max. digging reach	9,120 (29' 11")	9,530 (31' 3")	10,020 (32' 10")	
A' Max. digging reach on ground	8,950 (29' 4")	9,360 (30' 8")	9,860 (32' 4")	
B Max. digging depth	5,820 (19' 1")	5,880 (19' 3")	6,400 (21' 0")	
B' Max. digging depth (8' level)	5,480 (18' 0")	5,770 (18' 11")	6,290 (20' 8")	
C Max. vertical wall digging depth	5,360 (17' 7")	5,020 (16' 6")	5,560 (18' 3")	
D Max. digging height	10,310 (33' 10")	10,670 (35' 0")	11,090 (36' 5")	
E Max. dumping height	7,390 (24' 3")	7,750 (25' 5")	8,160 (26' 9")	
F Min. front swing radius	2,870 (9' 5")	2,660 (8' 9")	2,530 (8' 4")	

DIMENSIONS & WORKING RANGE

HX220 NL DIMENSIONS

5.65 m (18' 6") BOOM and 2.0 m (6' 7"); 2.4 m (7' 10") & 2.92 m (9' 7") ARM

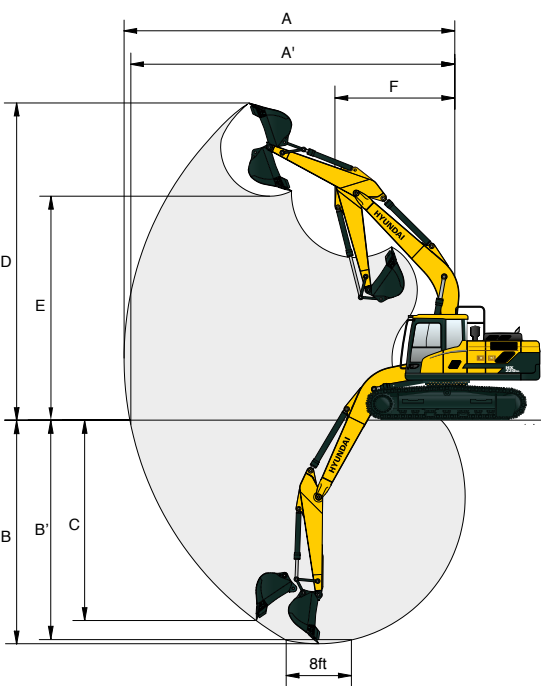


Unit : mm (ft-in)

A	Tumbler distance	3,650 (12' 0")
B	Overall length of crawler	4,404 (14' 4")
C	Ground clearance of counterweight	1,060 (3' 6")
D	Tail swing radius	2,850 (9' 4")
D'	Rear-end length	2,770 (9' 1")
E	Overall width of upperstructure	2,530 (8' 4")
F	Overall height of cab	3,000 (9' 8")
G	Min. ground clearance	480 (1' 7")
H	Track gauge	2,000 (6' 7")
I	Overall height of guardrail	3,210 (10' 5")

Boom length	5,650 (18' 6")		
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")
J Overall length	9,650 (31' 8")	9,570 (31' 5")	9,510 (31' 23")
K Overall height of boom	3,250 (10' 8")	3,170 (10' 5")	3,100 (10' 2")
L Track shoe width	500 (20")	600 (24")	700 (28")
M Overall width	2,500 (8' 2")	2,600 (8' 6")	2,700 (8' 10")

HX220 NL WORKING RANGE



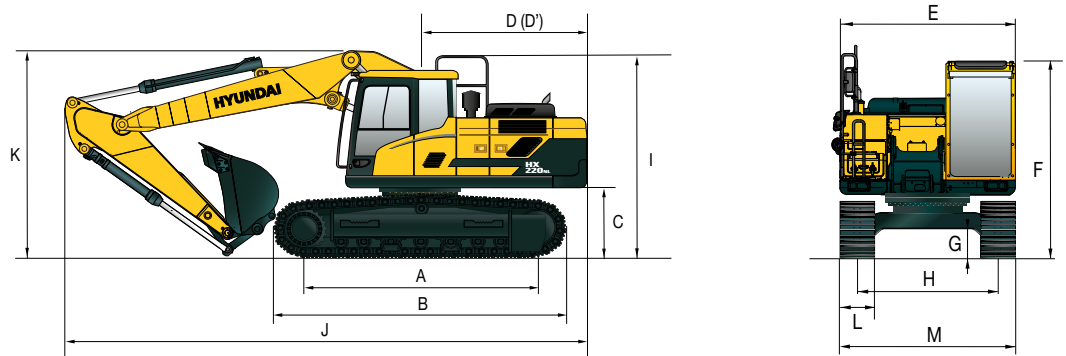
Unit : mm (ft-in)

Boom length	5,650 (18' 68")		
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")
A Max. digging reach	9,140 (30' 0")	9,500 (31' 2")	9,960 (32' 8")
A' Max. digging reach on ground	8,960 (29' 5")	9,340 (30' 8")	9,800 (32' 2")
B Max. digging depth	5,750 (18' 10")	6,150 (20' 2")	6,640 (21' 9")
B' Max. digging depth (8' level)	5,520 (18' 1")	5,950 (19' 6")	6,470 (21' 36")
C Max. vertical wall digging depth	5,320 (17' 5")	5,780 (19' 9")	6,250 (20' 6")
D Max. digging height	9,270 (30' 5")	9,500 (31' 2")	9,740 (31' 11")
E Max. dumping height	6,450 (21' 2")	6,660 (21' 10")	6,900 (22' 8")
F Min. front swing radius	3,710 (12' 2")	3,630 (11' 11")	3,580 (11' 9")

DIMENSIONS & WORKING RANGE

HX220 NL 2-PIECE BOOM DIMENSIONS

5.65 m (18' 6") 2-Piece BOOM and 2.0 m (6' 7"); 2.4 m (7' 10") & 2.92 m (9' 7") ARM

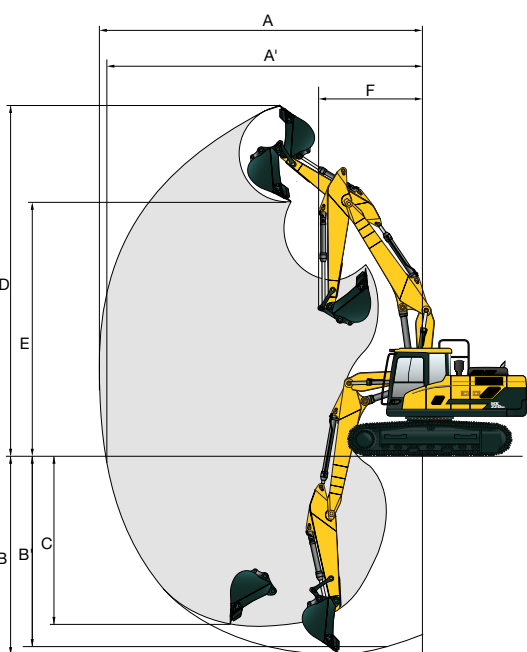


Unit : mm (ft-in)

A	Tumbler distance	3,650 (12' 0")
B	Overall length of crawler	4,404 (14' 4")
C	Ground clearance of counterweight	1,060 (3' 6")
D	Tail swing radius	2,850 (9' 4")
D'	Rear-end length	2,770 (9' 1")
E	Overall width of upperstructure	2,530 (8' 4")
F	Overall height of cab	3,000 (9' 8")
G	Min. ground clearance	480 (1' 7")
H	Track gauge	2,000 (6' 7")
I	Overall height of guardrail	3,210 (10' 5")

Boom length	5,650 (18' 6") 2-Piece Boom		
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")
J Overall length	9,650 (31' 8")	9,570 (31' 5")	9,520 (31' 2")
K Overall height of boom	3,200 (10' 6")	3,000 (9' 10")	3,030 (9' 11")
L Track shoe width	500 (20")	600 (24")	700 (28")
M Overall width	2,500 (8' 2")	2,600 (8' 6")	2,700 (8' 10")

HX220 NL 2-PIECE BOOM WORKING RANGE



Unit : mm (ft-in)

Boom length	5,650 (18' 6") 2-Piece Boom		
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")
A Max. digging reach	9,120 (29' 11")	9,530 (31' 3")	10,020 (32' 10")
A' Max. digging reach on ground	8,940 (29' 4")	9,360 (30' 9")	9,860 (32' 4")
B Max. digging depth	5,480 (18' 0")	5,890 (19' 4")	6,400 (21' 0")
B' Max. digging depth (8' level)	5,360 (17' 7")	5,770 (18' 11")	6,300 (20' 8")
C Max. vertical wall digging depth	4,560 (15' 0")	4,990 (16' 4")	5,530 (18' 2")
D Max. digging height	10,300 (33' 10")	10,670 (35' 0")	11,080 (36' 4")
E Max. dumping height	7,390 (24' 3")	7,740 (25' 5")	8,160 (26' 9")
F Min. front swing radius	2,870 (9' 5")	2,670 (8' 9")	2,530 (8' 4")

LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degrees

HX220 L HIGH WALKER

5.68 m (18' 8") Boom; 2.92 m (9' 7") arm equipped with 0.92 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoes.

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)		Capacity		Reach
														m (ft)
7.5 m (25 ft)	kg lb											*3310 *7300	*3310 *7300	7.78 (25.5)
6.0 m (20 ft)	kg lb									*2300 *5070	*2300 *5070	*3400 *7500	3210 7080	8.74 (28.7)
4.5 m (15 ft)	kg lb							*3970 *8750	*3970 *8750	*3780 *8330	*3780 *8330	*3530 *7780	2780 6130	9.32 (30.6)
3.0 m (10 ft)	kg lb			*9720 *21430	*9720 *21430	*6100 *13450	*6100 *13450	*4790 *10560	*4790 *10560	*4180 *9220	3970 8750	*3680 *8110	2580 5690	9.59 (31.5)
1.5 m (5 ft)	kg lb			*8850 *19510	*8850 *19510	*7900 *17420	*7900 *17420	*5700 *12570	5450 12020	*4660 *10270	3800 8380	3660 8070	2530 5580	9.59 (31.5)
Ground Line	kg lb			*9590 *21140	*9590 *21140	*9100 *20060	8180 18030	*6440 *14200	5210 11490	*5060 *11160	3670 8090	3810 8400	2630 5800	9.31 (30.5)
-1.5 m (-5 ft)	kg lb	*8840 *19490	*8840 *19490	*12650 *27890	*12650 *27890	*9540 *21030	8010 17660	*6810 *15010	5080 11200	5240 11550	3610 7960	4230 9330	2930 6460	8.72 (28.6)
-3.0 m (-10 ft)	kg lb	*12230 *26960	*12230 *26960	*13910 *30670	*13910 *30670	*9260 *20410	8040 17730	*6690 *14750	5080 11200			*4420 *9740	3590 7910	7.75 (25.4)
-4.5 m (-15 ft)	kg lb			*11800 *26010	*11800 *26010	*8060 *17770	*8060 *17770					*4280 *9440	*4280 *9440	6.16 (20.2)

5.68 m (18' 8") Boom; 3.90 m (12' 9") arm equipped with 0.92 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoes.

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 lb													*2700 *5950	*2700 *5950	7.66 (25.1)
7.5 m (25 ft)	kg lb									*1940 *4280	*1940 *4280			*2760 *6080	*2760 *6080	8.94 29.3
6.0 m (20 ft)	kg lb									*2790 *6150	*2790 *6150			*2850 *6280	2600 5730	9.77 (32.1)
4.5 m (15 ft)	kg lb									*3050 *6720	*3050 *6720	*2000 *4410	*2000 *4410	*2970 *6550	2300 5070	10.28 (33.7)
3.0 m (10 ft)	kg lb							*3900 *8600	*3900 *8600	*3510 *7740	*3510 *7740	*2870 *6330	2860 6310	*3110 *6860	2140 4720	10.52 (34.5)
1.5 m (5 ft)	kg lb			*11080 *24430	*11080 *24430	*6600 *14550	*6600 *14550	*4900 *10800	*4900 *10800	*4080 *8990	3820 8420	*3410 *7520	2760 6080	3080 6790	2090 4610	10.52 (34.5)
Ground Line	kg lb	*5300 *11680	*5300 *11680	*10640 *23460	*10640 *23460	*8200 *18080	*8200 *18080	*5820 *12830	5210 11490	*4610 *10160	3630 8000	*3490 *7690	2660 5860	3180 7010	2150 4740	10.27 (33.7)
-1.5 m (-5 ft)	kg lb	*7540 *16620	*7540 *16620	*11690 *25770	*11690 *25770	*9110 *20080	7900 17420	*6440 *14200	4990 11000	*4990 *11000	3510 7740	*2330 *5140	*2330 *5140	3450 7610	2340 5160	9.75 (32.0)
-3.0 m (-10 ft)	kg lb	*10030 *22110	*10030 *22110	*14390 *31720	*14390 *31720	*9320 *20550	7800 17200	*6660 *14680	4910 10820	*5070 *11180	3470 7650			*3850 *8490	2750 6060	8.91 29.2
-4.5 m (-15 ft)	kg lb	*13000 *28660	*13000 *28660	*13310 *29340	*13310 *29340	*8780 *19360	7890 17390	*6290 *13870	4960 10930					*3990 *8800	3640 8020	7.62 (25.0)
-6.0 m (-20 ft)	kg lb			*10560 *23280	*10560 *23280	*7050 *15540	*7050 *15540									

1. Lifting capacity are based on SAE J1097 and 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 load point is a hook located on the back of the bucket.

4. (*) indicates load limited by hydraulic capacity.

LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degrees

HX220 NL

5.65 m (18' 6") Boom; 2.00 m (6' 7") arm equipped with 0.87 m³ (SAE heaped) bucket and 500 mm (20") triple grouser shoes.

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)
7.5 m (25 ft)	kg lb									*4000 *8820	3810 8400	6.61 (21.7)
6.0 m (20 ft)	kg lb					*4420 *9740	4380 9660			*4060 *8950	2800 6170	7.75 (25.4)
4.5 m (15 ft)	kg lb			*5670 *12500	*5670 *12500	*4840 *10670	4230 9330			*4200 *9260	2340 5160	8.41 (27.6)
3.0 m (10 ft)	kg lb			*7430 *16380	6170 13600	*5600 *12350	3990 8800	*4830 *10650	2750 6060	*4360 *9610	2130 4700	8.71 (28.6)
1.5 m (5 ft)	kg lb			*8990 *19820	5700 12570	*6390 *14090	3760 8290	*5190 *11440	2640 5820	4330 9550	2080 4590	8.71 (28.6)
Ground Line	kg lb			*9720 *21430	5490 12100	*6930 *15280	3610 7960	5380 11860	2570 5670	4570 10080	2190 4830	8.40 (27.6)
-1.5 m (-5 ft)	kg lb	*14170 *31240	10580 23320	*9690 *21360	5460 12040	*7030 *15500	3560 7850			*4930 *10870	2540 5600	7.73 (25.4)
-3.0 m (-10 ft)	kg lb	*12680 *27950	10790 23790	*8900 *19620	5570 12280	*6390 *14090	3650 8050			*4910 *10820	3380 7450	6.58 (21.6)

5.65 m (18' 6") Boom; 2.00 m (6' 7") arm equipped with 0.87 m³ (SAE heaped) bucket and 500 mm (20") triple grouser shoes.

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)		Capacity		Reach
														m (ft)
7.5 m (25 ft)	kg lb											*3690 *8140	3360 7410	7.12 (23.4)
6.0 m (20 ft)	kg lb							*3990 *8800	*3990 *8800			*3780 *8330	2540 5600	8.18 (26.8)
4.5 m (15 ft)	kg lb							*4460 *9830	4280 9440	*4050 *8930	2860 6310	*3910 *8620	2140 4720	8.80 (28.9)
3.0 m (10 ft)	kg lb					*6850 *15100	6280 13850	*5260 *11600	4020 8860	*4560 *10050	2760 6080	*4080 *8990	1950 4300	9.09 (29.8)
1.5 m (5 ft)	kg lb					*8540 *18830	5750 12680	*6120 *13490	3760 8290	*4980 *10980	2630 5800	4030 8880	1910 4210	9.08 (29.8)
Ground Line	kg lb			*9080 *20020	*9080 *20020	*9520 *20990	5470 12060	*6760 *14900	3580 7890	*5310 *11710	2540 5600	4220 9300	2000 4410	8.79 (28.8)
-1.5 m (-5 ft)	kg lb	*9930 *21890	*9930 *21890	*13780 *30380	10400 22930	*9710 *21410	5400 11900	*6990 *15410	3510 7740			*4670 *10300	2280 5030	8.16 (26.8)
-3.0 m (-10 ft)	kg lb	*14320 *31570	*14320 *31570	*13400 *29540	10600 23370	*9170 *20220	5470 12060	*6630 *14620	3550 7830			*4750 *10470	2940 6480	7.09 (23.3)
-4.5 m (-15 ft)	kg lb			*10790 *23790	*10790 *23790	*7470 *16470	5710 12590							

1. Lifting capacity are based on SAE J1097 and 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 load point is a hook located on the back of the bucket.

4. (*) indicates load limited by hydraulic capacity.

LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degrees

HX220 NL

5.65 m (18' 6") Boom; 2.92 m (9' 7") arm equipped with 0.87 m³ (SAE heaped) bucket and 500 mm (20") triple grouser shoes.

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)		Capacity		Reach
														m (ft)
7.5 m (25 ft)	kg lb											*3350 *7390	2890 6370	7.76 (25.5)
6.0 m (20 ft)	kg lb									*2140 *4720	*2140 *4720	*3440 *7580	2250 4960	8.73 (28.6)
4.5 m (15 ft)	kg lb							*3970 *8750	*3970 *8750	*3810 *8400	2900 6390	*3580 *7890	1920 4230	9.30 (30.5)
3.0 m (10 ft)	kg lb			*9630 *21230	*9630 *21230	*6090 *13430	*6090 *13430	*4810 *10600	4060 8950	*4210 *9280	2770 6110	3730 8220	1750 3860	9.58 (31.4)
1.5 m (5 ft)	kg lb			*9210 *20300	*9210 *20300	*7920 *17460	5830 12850	*5730 *12630	3780 8330	*4700 *10360	2630 5800	3680 8110	1710 3770	9.57 (31.4)
Ground Line	kg lb			*9810 *21630	*9810 *21630	*9160 *20190	5460 12040	*6490 *14310	3560 7850	*5120 *11290	2510 5530	3830 8440	1780 3920	9.29 (30.5)
-1.5 m (-5 ft)	kg lb	*8950 *19730	*8950 *19730	*12850 *28330	10220 22530	*9630 *21230	5320 11730	*6880 *15170	3450 7610	5250 11570	2450 5400	4250 9370	2000 4410	8.71 (28.6)
-3.0 m (-10 ft)	kg lb	*12340 *27210	*12340 *27210	*14120 *31130	10360 22840	*9380 *20680	5340 11770	*6770 *14930	3450 7610			*4490 *9900	2490 5490	7.73 (25.4)
-4.5 m (-15 ft)	kg lb			*12010 *26480	10690 23570	*8180 *18030	5510 12150					*4360 *9610	3750 8270	6.14 (20.1)

HX220 NL 2-PIECE BOOM

5.65 m (18' 6") 2-Piece Boom; 2.00 m (6' 7") arm equipped with 0.87 m³ (SAE heaped) bucket and 500 mm (20") triple grouser shoes.

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)
10.5 m (35 ft)	kg lb									*6200 *13670	*6200 *13670	4.64 (15.2)
9.0 m (30 ft)	kg lb									*6560 *14460	*6560 *14460	4.60 (15.1)
7.5 m (25 ft)	kg lb			*6750 *14880	*6750 *14880					*5330 *11750	3710 8180	6.66 (21.9)
6.0 m (20 ft)	kg lb			*6910 *15230	*6910 *15230	*5910 *13030	4340 9570			*4920 *10850	2720 6000	7.79 (25.6)
4.5 m (15 ft)	kg lb	*11400 *25130	*11400 *25130	*7810 *17220	6710 14790	*6200 *13670	4190 9240			4680 10320	2270 5000	8.45 (27.7)
3.0 m (10 ft)	kg lb			*9020 *19890	6090 13430	*6670 *14700	3930 8660	*5380 *11860	2700 5950	4350 9590	2060 4540	8.75 (28.7)
1.5 m (5 ft)	kg lb			*9720 *21430	5600 12350	*6990 *15410	3690 8140	*5410 *11930	2590 5710	4300 9480	2020 4450	8.75 (28.7)
Ground Line	kg lb			*9430 *20790	5390 11880	*6900 *15210	3540 7800	*5130 *11310	2520 5560	*4020 *8860	2140 4720	8.43 (27.7)
-1.5 m (-5 ft)	kg lb	*10050 *22160	*10050 *22160	*8270 *18230	5380 11860	*6170 *13600	3500 7720			*3440 *7580	2490 5490	7.77 (25.5)
-3.0 m (-10 ft)	kg lb			*6160 *13580	5520 12170	*4350 *9590	3610 7960					

1. Lifting capacity are based on SAE J1097 and 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 load point is a hook located on the back of the bucket.
4. (*) indicates load limited by hydraulic capacity.

LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degrees

HX220 NL 2-PIECE BOOM

5.65 m (18' 6") 2-Piece Boom; 2.40 m (7' 10") arm equipped with 0.87 m³ (SAE heaped) bucket and 500 mm (20") triple grouser shoes.

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 lb									*5730 *12630	5470 12060	5.39 (17.7)
7.5 m (25 ft)	kg lb			*5870 *12940	*5870 *12940					*4900 *10800	3260 7190	7.18 (23.6)
6.0 m (20 ft)	kg lb			*6440 *14200	*6440 *14200	*5570 *12280	4420 9740			*4570 *10080	2460 5420	8.23 (27.0)
4.5 m (15 ft)	kg lb	*10330 *22770	*10330 *22770	*7350 *16200	6840 15080	*5920 *13050	4240 9350	*4360 *9610	2820 6220	4330 9550	2070 4560	8.84 (29.0)
3.0 m (10 ft)	kg lb			*8630 *19030	6210 13690	*6450 *14220	3960 8730	*5240 *11550	2710 5970	4040 8910	1890 4170	9.13 (30.0)
1.5 m (5 ft)	kg lb			*9550 *21050	5650 12460	*6870 *15150	3700 8160	*5360 *11820	2580 5690	3990 8800	1850 4080	9.13 (30.0)
Ground Line	kg lb	*8600 *18960	*8600 *18960	*9560 *21080	5370 11840	*6920 *15260	3510 7740	*5230 *11530	2490 5490	*3840 *8470	1950 4300	8.83 (29.0)
-1.5 m (-5 ft)	kg lb	*11450 *25240	10280 22660	*8660 *19090	5310 11710	*6390 *14090	3450 7610	*4540 *10010	2470 5450	*3390 *7470	2230 4920	2.21 (26.9)
-3.0 m (-10 ft)	kg lb			*6840 *15080	5400 11900	*4980 *10980	3510 7740					

5.65 m (18' 6") 2-Piece Boom; 2.92 m (9' 7") arm equipped with 0.87 m³ (SAE heaped) bucket and 500 mm (20") triple grouser shoes.

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 lb			*3290 *7250	*3290 *7250					*4600 *10140	4260 9390	6.28 (20.6)
7.5 m (25 ft)	kg lb					*3530 *7780	*3530 *7780			*4030 *8880	2800 6170	7.83 (25.7)
6.0 m (20 ft)	kg lb			*5170 *11400	*5170 *11400	*4870 *10740	4510 9940	*2440 *5380	*2440 *5380	*3800 *8380	2170 4780	8.78 (28.8)
4.5 m (15 ft)	kg lb			*6720 *14820	*6720 *14820	*5540 *12210	4310 9500	*4390 *9680	2860 6310	*3740 *8250	1850 4080	9.36 (30.7)
3.0 m (10 ft)	kg lb	*12710 *28020	12080 26630	*8080 *17810	6370 14040	*6130 *13510	4020 8860	*5040 *11110	2720 6000	3690 8140	1690 3730	9.63 (31.6)
1.5 m (5 ft)	kg lb	*8700 *19180	*8700 *19180	*9240 *20370	5740 12650	*6660 *14680	3720 8200	*5240 *11550	2570 5670	3640 8020	1650 3640	9.63 (31.6)
Ground Line	kg lb	*9390 *20700	*9390 *20700	*9580 *21120	5360 11820	*6880 *15170	3490 7690	*5260 *11600	2450 5400	*3610 *7960	1720 3790	9.35 (30.7)
-1.5 m (-5 ft)	kg lb	*12500 *27560	10070 22200	*9020 *19890	5230 11530	*6570 *14480	3380 7450	*4860 *10710	2400 5290	*3270 *7210	1950 4300	8.77 (28.8)
-3.0 m (-10 ft)	kg lb	*10150 *22380	*10150 *22380	*7560 *16670	5270 11620	*5530 *12190	3400 7500					

1. Lifting capacity are based on SAE J1097 and 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 load point is a hook located on the back of the bucket.
4. (*) indicates load limited by hydraulic capacity.

SPECIFICATIONS

HX220 L

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	●	
CABIN & INTERIOR		
ISO Standard cabin		
Rise-up type windshield wiper	●	
Radio / USB player	●	
Handsfree mobile phone system with USB	●	
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 & cool box	●	
Storage compartment & Ashtray	●	
Transparent cabin roof-cover	●	
Sun visor	●	
Door and cab locks, one key	●	
Mechanical suspension seat with heater	●	
Pilot-operated slidable joystick	●	
Console box height adjust system	●	
Automatic climate control		
Air conditioner & 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	●	
Hyd. oil temperature gauge	●	
Fuel warmer	●	
Warnings	●	
Communication error	●	
Low battery	●	
Clock	●	
Cabin lights		●
Cabin front window rain guard		●
Cabin roof-steel cover		●
Seat		
Adjustable air suspension seat with heater		●
Cabin FOPS/FOG (ISO/DIS 10262) Level 2		
FOPS (Falling Object Protective Structure) · ISO 3449 Level 2		●
FOG (Falling Object Guard)		●
Cabin ROPS (ISO 12117-2)		
ROPS (Roll Over Protective Structure)	●	

SAFETY	STD	OPT
Battery master switch	●	
Rearview camera	●	
AAVM (Advanced Around View Monitoring)		●
Four front 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		
Booms		
5.68 m; 18' 8" Mono boom	●	
5.65 m; 18' 6" 2-Piece boom		●
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)	●	
Batteries (2 × 12 V × 100 Ah)	●	
Fuel filler pump (50 ℓ/min)	●	
Single-acting piping kit (breaker, etc.)		●
Double-acting piping kit (clamshell, etc.)	●	
Rotating Piping Kit		●
Quick coupler piping		●
Quick coupler		●
Boom floating control		●
One Pedal Straight Travel System		●
Accumulator for lowering work equipment	●	
Pattern change valve (2 patterns)		●
Fine Swing Control System		●
Tool kit		●
UNDERCARRIAGE		
Lower frame under cover (Additional)		●
Lower frame under cover (Normal)	●	
Track shoes		
Triple grouser shoes (600 mm; 24")	●	
Triple grouser shoes (700 mm; 28")		●
Triple grouser shoes (800 mm; 32")		●
Triple grouser shoes (900 mm; 36")		●
Double grouser shoes (600 mm; 24")		●
Double grouser shoes (700 mm; 28")		●
Track rail guard	●	
Full track rail guard high walker		●

STD = Standard
OPT = Optional

SPECIFICATIONS

HX220 NL

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	●	
CABIN & INTERIOR		
ISO Standard cabin		
Rise-up type windshield wiper	●	
Radio / USB player	●	
Handsfree mobile phone system with USB	●	
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 & cool box	●	
Storage compartment & Ashtray	●	
Transparent cabin roof-cover	●	
Sun visor	●	
Door and cab locks, one key	●	
Mechanical suspension seat with heater	●	
Pilot-operated slidable joystick	●	
Console box height adjust system	●	
Automatic climate control		
Air conditioner & 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	●	
Hyd. oil temperature gauge	●	
Fuel warmer	●	
Warnings	●	
Communication error	●	
Low battery	●	
Clock	●	
Cabin lights		●
Cabin front window rain guard		●
Cabin roof-steel cover		●
Seat		
Adjustable air suspension seat with heater		●
Cabin FOPS/FOG (ISO/DIS 10262) Level 2		
FOPS (Falling Object Protective Structure) · ISO 3449 Level 2		●
FOG (Falling Object Guard)		●
Cabin ROPS (ISO 12117-2)		
ROPS (Roll Over Protective Structure)	●	

SAFETY	STD	OPT
Battery master switch	●	
Rearview camera	●	
AAVM (Advanced Around View Monitoring)		●
Four front 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		
Booms		
5.65 m; 18' 6" Mono boom	●	
5.65 m; 18' 6" 2-Piece boom		●
Arms		
2.0 m; 6' 7"		●
2.4 m; 7' 10"		●
2.92 m; 9' 7"	●	
Removable clean-out dust net for cooler	●	
Removable reservoir tank	●	
Fuel pre-filter	●	
Fuel single warmer	●	
Fuel dual warmer		●
Self-diagnostics system	●	
Hi MATE (Remote Management System)	●	
Batteries (2 × 12 V × 100 Ah)	●	
Fuel filler pump (50 ℓ/min)	●	
Single-acting piping kit (breaker, etc.)		●
Double-acting piping kit (clamshell, etc.)	●	
Rotating Piping Kit		●
Quick coupler piping		●
Quick coupler		●
One Pedal Straight Travel System		●
Accumulator for lowering work equipment	●	
Pattern change valve (2 patterns)		●
Fine Swing Control System		●
Tool kit		●
UNDERCARRIAGE		
Lower frame under cover (Additional)		●
Lower frame under cover (Normal)	●	
Track shoes		
Triple grouser shoes (600 mm; 24")	●	
Triple grouser shoes (700 mm; 28")		●
Triple grouser shoes (800 mm; 32")		●
Triple grouser shoes - H / Chassis (600 mm; 24")		●
Track rail guard	●	
Full track rail guard		●

STD = Standard
OPT = Optional