

# SPECIFICATIONS

# HX330L

Tier 4 Final Engine

## Net Power

SAE J1349 / 270 HP  
(202 kW) at 1,800 rpm

## Bucket Range

1.88 yd<sup>3</sup> - 2.75 yd<sup>3</sup>  
**Standard Bucket**  
1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>)

## Operating Weight

35,050 kg / 77,270 lb

ENGINE		
Make / Model	Cummins QSL9	
Type	4-cycle turbocharged, charge air-cooled, diesel engine	
Rated flywheel horse-power	SAE J1995 (gross)	284 HP (212 kW) at 1,800 rpm
	J1349 (net)	270 HP (202 kW) at 1,800 rpm
Max. torque	123.7 kgf·m (895 lbf·ft) at 1500 rpm	
Bore X stroke	114x145 mm (4.49" x 5.69")	
Piston displacement	8900 cc (543 in <sup>3</sup> )	
Batteries	2x12 Vx160 Ah	
Starting motor	24 V-7.8 kW	
Alternator	24 V-95 A	

## HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable-displacement piston pumps
Max. flow	2x277.2 lpm (73.2 gpm)
Sub-pump for pilot circuit	Gear pump

## CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

HYDRAULIC MOTORS	
Travel	Two speed axial piston motor
Swing	Axial piston motor

## RELIEF VALVE SETTING

Implement circuits	350 kgf/cm <sup>2</sup> (4,980 psi)
Travel	350 kgf/cm <sup>2</sup> (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm <sup>2</sup> (5,400 psi)
Swing circuit	300 kgf/cm <sup>2</sup> (4,270 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (569 psi)
Service valve	Installed

## HYDRAULIC CYLINDERS

No. of cylinders bore X stroke	Boom: 0150 x 1,480 mm (05.9x58.3 in)
	Arm: 0160 x 1,685 mm (06.3x66.3 in)
	Bucket: 0140 x 1,285 mm (05.5x50.6 in)

## DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	27,000 kgf (59,500 lbf)
Max. travel speed (high / low)	5.9 km/hr (3.67 mph) / 3.4 km/hr (2.11 mph)
Gradeability	35° (70%)
Parking brake	Multi wet disc brake

## CONTROL

Pilot pressure operated joysticks and pedals with detachable lever for minimal operator fatigue.

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 6450 mm (21' 2") boom, 3,200 mm (10' 6") arm, SAE heaped 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, 6,600 kg (14,550 lb) counterweight and all standard equipment.

## OPERATING WEIGHT

Shoes		Operating weight		Ground pressure
Type	Width mm (in)		kg (lb)	kgf/cm <sup>2</sup> (psi)
Triple grouser	700 (28")	HX330 L	34,670 (76,430)	0.57 (8.11)
	800 (32")	HX330 L	35,050 (77,270)	0.51 (7.25)
	900 (36")	HX330 L	35,430 (78,110)	0.46 (6.54)

## SWING SYSTEM

Swing motor	Fixed displacement axial piston motor
Swing reduction	Planetary reduction gear
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc brake
Swing speed	9.1 rpm

## SERVICE REFILL CAPACITIES

	liters	US gal
Refilling		
Fuel tank	600	154.7
Engine coolant	55	14.5
Engine oil	30	7.9
Swing device	11	2.91
Final drive (each)	7.8	2.06
Hydraulic system (including tank)	330	87.2
Hydraulic tank	210	55.5
DEF/AdBlue®	42.5	11.2

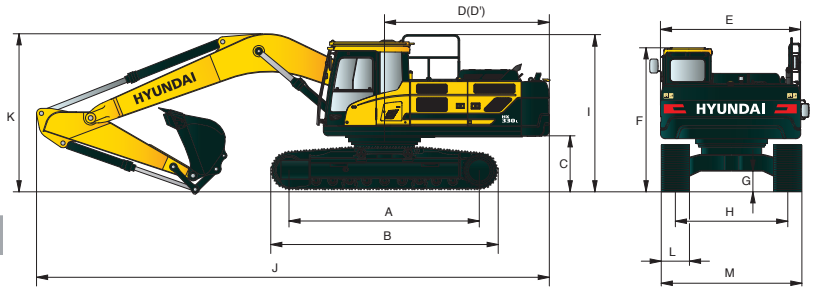
## UNDERCARRIAGE

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	48 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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## HX330 L DIMENSIONS

Unit: mm (ft-in)

6.45 m (21' 2"), 6.15 m (20' 2") boom and 2.2 m (7' 3"), 2.5 m (8' 2"), 3.2 m (10' 6"), 4.05 m (13' 3") arm

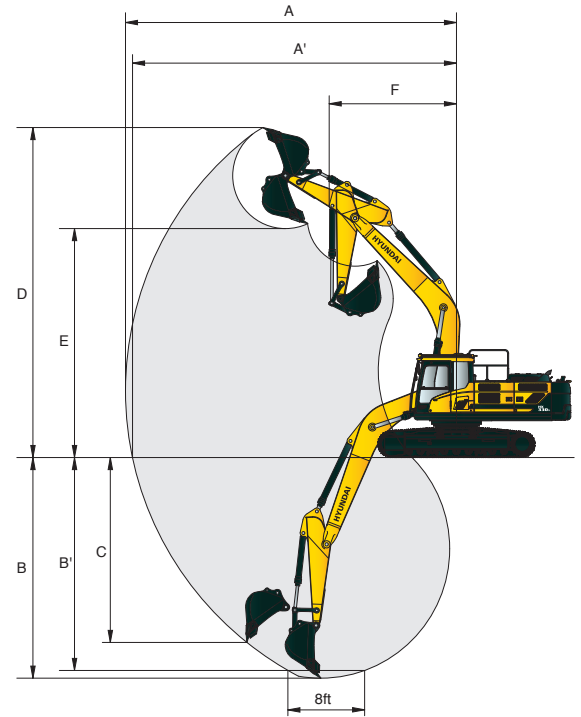
A	Tumbler distance	4,030 (13' 3")
B	Overall length of crawler	4,940 (16' 2")
C	Ground clearance of counterweight	1,200 (3' 11")
D	Tail-swing radius	3,570 (11' 7")
D'	Rear-end length	3,505 (11' 5")
E	Overall width of upperstructure	2,980 (9' 9")
F	Overall height of cab	3,160 (10' 4")
G	Min. ground clearance	500 (1' 8")
H	Track gauge	2,680 (8' 10")
I	Overall height of guardrail	3,350 (11' 0")

Boom length	6,150 (20' 2")	6,450 (21' 2")			
Arm length	2,200 (7' 3")	2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")	4,050 (13' 3")
J Overall length	11,170 (36' 8")	11,470 (37' 8")	11,340 (37' 2")	11,220 (36' 10")	11,220 (36' 10")
K Overall height of boom	3,680 (12' 1")	3,740 (11' 11")	3,760 (12' 0")	3,380 (11' 1")	3,860 (12' 8")
L Track shoe width	600 (24")	700 (28")	800 (32")	900 (36")	
M Overall width	3,280 (10' 9")	3,380 (11' 1")	3,480 (11' 5")	3,580 (11' 5")	

## HX330 L WORKING RANGE

Unit : mm (ft-in)

	Boom length	6.45 (21' 2")				
		6.15 (20' 2")	2.2 (7' 3")	2.5 (8' 2")	3.2 (10' 6")	4.05 (13' 3")
A	Max. digging reach	10,020 (32' 10")	10,330 (33' 11")	10,550 (34' 7")	11,140 (36' 7")	11,950 (39' 2")
A'	Max. digging reach on ground	9,800 (32' 2")	10,110 (33' 2")	10,330 (33' 11")	10,940 (35' 11")	11,760 (38' 7")
B	Max. digging depth	6,160 (20' 3")	6,370 (20' 11")	6,670 (21' 11")	7,370 (24' 2")	8,220 (26' 12")
B'	Max. digging depth (8' level)	5,950 (19' 6")	6,160 (20' 3")	6,470 (21' 3")	7,210 (23' 8")	8,080 (26' 6")
C	Max. vertical wall digging depth	5,710 (18' 9")	5,980 (19' 7")	5,920 (19' 5")	6,360 (20' 10")	7,260 (23' 10")
D	Max. digging height	9,940 (32' 7")	10,220 (33' 6")	10,170 (33' 4")	10,310 (33' 10")	10,710 (35' 2")
E	Max. dumping height	6,780 (22' 3")	7,050 (23' 2")	7,050 (23' 2")	7,240 (23' 9")	7,630 (25' 0")
F	Min. swing radius	4,520 (14' 10")	4,700 (15' 5")	4,550 (14' 11")	4,460 (14' 8")	4,470 (14' 8")



## DIGGING FORCE

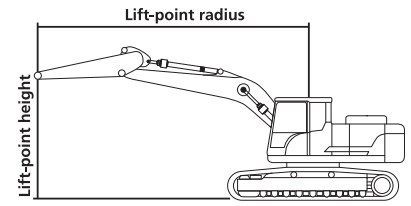
Unit : mm (ft-in)

	Boom	Length	mm (ft-in)	6,450 (21' 2")				Remark		
				3,030 (6,680)						
	Arm	Length	mm (ft-in)	2,200 (7' 3")	2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")	4,050 (13' 3")		
		Weight	kg (lb)	1,560 (3,440)	1,560 (3,440)	1,650 (3,640)	1,770 (3,900)	1,870 (4,120)		
Bucket digging force	SAE	kN		189.3 [205.5]	189.3 [205.5]	189.3 [205.5]	189.3 [205.5]	189.3 [205.5]	[ ]: Power Boost	
			kgf		19300 [20950]	19300 [20950]	19300 [20950]	19300 [20950]		19300 [20950]
				lbf		42550 [46200]	42550 [46200]	42550 [46200]		42550 [46200]
		ISO	kN		211.8 [230.0]	211.8 [230.0]	211.8 [230.0]	211.8 [230.0]		211.8 [230.0]
			kgf		21600 [23450]	21600 [23450]	21600 [23450]	21600 [23450]		21600 [23450]
			lbf		47620 [51700]	47620 [51700]	47620 [51700]	47620 [51700]		47620 [51700]
Arm crowd force	SAE	kN		196.6 [213.4]	196.6 [213.4]	178.9 [194.2]	143.2 [155.5]	119.6 [129.9]	[ ]: Power Boost	
			kgf		20000 [21760]	20000 [21760]	18200 [19810]	14600 [15850]		12200 [13240]
				lbf		44190 [47980]	44190 [47980]	40220 [43670]		32190 [34950]
		ISO	kN		202.8 [220.2]	202.8 [220.2]	185.1 [201.0]	147.1 [159.7]		122.7 [133.3]
			kgf		20700 [22450]	20700 [22450]	18900 [20500]	15000 [16290]		12515 [13590]
			lbf		45600 [49510]	45600 [49510]	41620 [45190]	33070 [35900]		27590 [29950]

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: 6.45 m (21'2")

Arm: 3.2 m (10'6")

Bucket: 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped

Shoe 800 mm (32") triple grouser, CWT 6,600 kg (14,550 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		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
7.5 m	kg							*7,770	7,570			*6,550	*6,550	7.76
24.6 ft	lb							*17,120	16,690			*14,430	*14,430	(25.5)
6.0 m	kg							*9,290	7,510			*6,340	5,930	8.63
19.7 ft	lb							*20,470	16,550			*13,980	13,080	(28.3)
4.5 m	kg					*11,370	10,260	*10,080	7,300	*7,820	5,460	*6,370	5,290	9.18
14.8 ft	lb					*25,070	22,610	*22,220	16,090	*17,250	12,050	*14,050	11,660	(30.1)
3.0 m	kg		*18,340	14,790	*13,420	9,730	10,470	7,030	7,910	5,350	*6,610	4,950	9.45	
9.8 ft	lb		*40,430	32,610	*29,580	21,450	23,070	15,510	17,430	11,790	*14,570	10,920	(31.0)	
1.5 m	kg		*18,340	13,940	14,320	9,270	10,190	6,790	7,770	5,230	*7,070	4,840	9.47	
4.9 ft	lb		*40,440	30,730	31,570	20,440	22,470	14,960	17,130	11,520	*15,580	10,680	(31.1)	
0.0 m	kg		*19,370	13,590	13,990	8,990	9,990	6,610	7,680	5,140	7,380	4,950	9.25	
0.0 ft	lb		*42,710	29,960	30,840	19,810	22,030	14,560	16,930	11,330	16,270	10,910	(30.4)	
-1.5 m	kg	*12,510	*12,510	*22,400	13,540	13,860	8,870	9,910	6,530			7,950	5,310	8.77
-4.9 ft	lb	*27,590	*27,590	*49,390	29,840	30,560	19,560	21,840	14,390			17,520	11,700	(28.8)
-3.0 m	kg	*20,130	*20,130	*21,230	13,660	13,910	8,910	9,960	6,580			9,160	6,090	7.97
-9.8 ft	lb	*44,380	*44,380	*46,800	30,120	30,660	19,650	21,960	14,500			20,180	13,420	(26.2)
-4.5 m	kg	*25,050	*25,050	*18,390	13,970	*13,830	9,140					*11,710	7,810	6.75
-14.8 ft	lb	*55,220	*55,220	*40,540	30,800	*30,500	20,140					*25,810	17,220	(22.1)

### NOTES:

- Lifting capacities are based on ISO 10567.
- 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.
- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- (\*) indicates load limited by hydraulic capacity.



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ENGINE	STD	OPT
Cummins QSL 9 engine	●	
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		●
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 (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		●

CAB & INTERIOR	STD	OPT
<b>Seat</b>		
Adjustable air suspension seat with heater	●	
<b>Cabin FOPS/FOG</b>		
FOG ISO 10262 Level 2		●
(FOPS ISO 3449 Level 2)	Front and top guard	●
	Top guard	●
<b>Cabin ROPS</b>		
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		●
Three outside rearview mirrors	●	

OTHER	STD	OPT
<b>Booms</b>		
6.15 m, 20' 2"		●
6.45 m, 21' 2"	●	
<b>Arms</b>		
2.2 m, 7' 3"		●
2.5 m, 8' 2"		●
3.2 m, 10' 6"	●	
4.05 m, 13' 3"		●
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 160 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)	●	
Tool kit		●

UNDERCARRIAGE	STD	OPT
Lower frame under cover (additional)		●
Lower frame under cover (normal)	●	
<b>Track shoes</b>		
Triple grouser shoe (700 mm, 28")		●
Triple grouser shoe (800 mm, 32")	●	
Triple grouser shoe (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.



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PLEASE CONTACT