

SPECIFICATIONS

HX235LCR

Tier 4 Final Engine

Net Power

SAE J1349 / 179 HP
(133 kW) at 1,950 rpm

Bucket Range

0.51 - 1.34 m³
(0.67 - 1.75 yd³)

Operating Weight

24,560 kg / 54,140 lb

Standard Bucket

0.80 m³ (1.05 yd³)

ENGINE	
Maker / Model	CUMMINS QSB6.7 Engine
Type	Water cooled, 4 cycle Diesel, 6-cylinders in line, direct injection, turbocharged charger and air cooled
Rated flywheel horse power	J1995 (gross) 183HP (136kW) / 1,950 rpm
SAE	J1349 (net) 173HP (129kW) / 1,950 rpm
Max. torque	85.7 kgf.m (620lb.ft) / 1,500rpm
Bore X stroke	107 mm X 124 mm (4.2" X 4.9")
Piston displacement	6,700 cc (409 in ³)
Batteries	2 X 12V X 100 Ah
Starting motor	24V, 4.8 kW
Alternator	24V, 95 Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem axis piston pumps
Max. flow	2 X 228.2 ℓ/min (60.3 US gpm)
Sub-pump for pilot circuit (Gear Pump)	28.5 ℓ/min (7.5 gpm)

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	400 kgf/cm ² (5,690 psi)
Travel	350 kgf/cm ² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm ² (5,410 psi)
Swing circuit	285 kgf/cm ² (4,050 psi)
Pilot circuit	40 kgf/cm ² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom: 2-125 X 1,260 mm (4.92" X 49.6")
	Arm: 1-160 X 1,610 mm (6.29" X 63.3")
	Bucket: 1-120 X 1,055 mm (4.7" X 41.5")
	Blade: 2-130 X 240 mm (5.1" X 9.4")
	2-Piece Boom
	1st: 2-105 X 995 mm (4.1" X 39.2")
	2nd: 1-145 X 613 mm (5.7" X 24.1")

DRIVES & BRAKES	
Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	20,600 kgf (45,415 lbf)
Max. travel speed (high / low)	5.5 km/hr (3.5mph) / 3.3 km/hr (2.1mph)
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



OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,680mm (18' 8") boom, 2,920mm (9' 7") arm, SAE heaped 0.80m³ (1.05 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipment.

OPERATING WEIGHT			
Shoes		Operating weight	Ground pressure
Type	Width mm (in)	kg (lb)	kgf/cm ² (psi)
Triple grouser	700 (28")	24,280 (53,530)	0.44 (6.26)
	800 (32")	24,560 (54,140)	0.39 (5.55)
	900 (36")	24,840 (54,760)	0.35 (4.98)

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

	liter	US gal
Re-filling		
Fuel tank	320	84.5
Engine coolant	40	10.6
Engine oil	23.7	6.3
Swing device	7	1.8
Final drive (each)	4.5	1.2
DEF / AdBlue R tank	27	7.1
Hydraulic system (including tank)	275	72.6
Hydraulic tank	160	42.3

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

SPECIFICATIONS HX235LCR

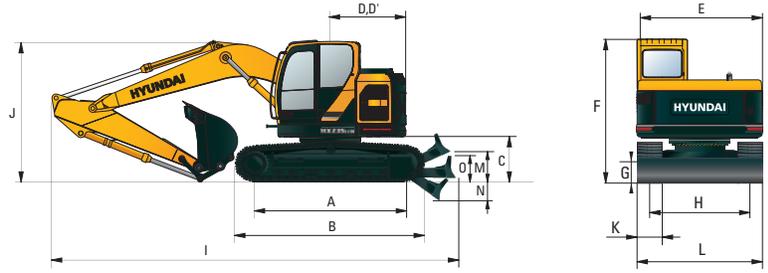
Tier 4 Final Engine

HX235LCR 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"), 3.0 m (9' 10") arm

A	Tumbler distance	3,650 (12' 0")
B	Overall length of crawler	4,404 (14' 6")
C	Ground clearance of counterweight	1,080 (3' 7")
D	Tail swing radius	1,780 (5' 10")
D'	Rear-end length	1,780 (5' 10")
E	Overall width of upperstructure	2,980 (9' 9")
F	Overall height of cab	3,290 (10' 10")
G	Min. ground clearance	480 (1' 7")
H	Track gauge	2,390 (7' 10")
M	Ground clearance of blade up	550 (1' 10")
N	Depth of blade down	410 (1' 4")
O	Height of blade	740 (2' 5")

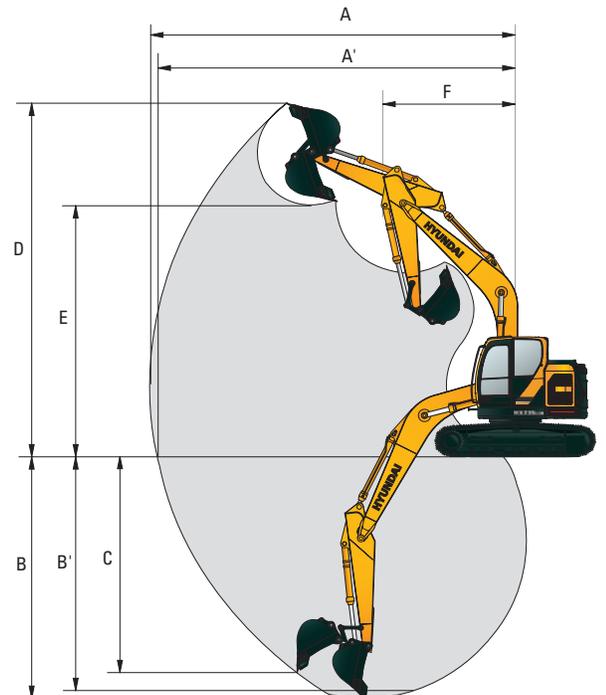


Boom length	5,680 (18' 8")		
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")
I Overall length	9,040 (29' 8")	8,950 (29' 4")	8,910 (29' 3")
J Overall height of boom	3,200 (10' 6")	3,100 (10' 2")	3,020 (9' 11")
K Track shoe width	700 (28")	800 (32")	900 (36")
L Overall width	2,700 (8' 10")	3,190 (10' 6")	3,290 (10' 10")

HX235LCR 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")
A Max. digging reach	9,040 (29' 8")	9,430 (30' 11")	9,910 (32' 6")
A' Max. digging reach on ground	8,860 (29' 1")	9,260 (30' 5")	9,750 (32' 0")
B Max. digging depth	5,780 (19' 0")	6,180 (20' 3")	6,700 (22' 0")
B' Max. digging depth (8' level)	5,550 (19' 0")	5,980 (19' 7")	6,530 (21' 5")
C Max. vertical wall digging depth	5,140 (16' 10")	5,710 (18' 9")	6,270 (20' 7")
D Max. digging height	10,090 (33' 1")	10,420 (34' 2")	10,830 (35' 6")
E Max. dumping height	7,190 (23' 7")	7,510 (24' 8")	7,890 (25' 11")
F Min. swing radius	2,860 (9' 5")	2,550 (8' 4")	2,350 (7' 9")



ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design.

5.68m (18'8") Mono boom, 5.65m (18'6") 2 Piece Booms and 2.0m (6'7"), 2.4m (7'10"), 2.92m (9'7") arms are available.

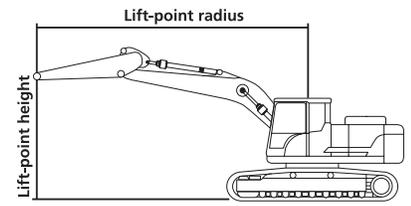
DIGGING FORCE

Arm	Length	mm (ft.in)	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	
	Weight	kg (lb)	975 (2,150)	1,045 (2,300)	1,095 (2,410)	
Bucket digging force	SAE	kgf	13,600 [14,770]	13,600 [14,770]	13,600 [14,770]	[Power Boost]
		lbf	29,980 [32,550]	29,980 [32,550]	29,980 [32,550]	
	ISO	kgf	15,500 [16,830]	15,500 [16,830]	15,500 [16,830]	
		lbf	34,170 [37,100]	34,170 [37,100]	34,170 [37,100]	
Arm crowd force	SAE	kgf	14,700 [15,960]	12,200 [13,250]	10,400 [11,290]	
		lbf	32,410 [35,190]	26,900 [29,210]	22,930 [24,900]	
	ISO	kgf	15,400 [16,720]	12,800 [13,900]	10,900 [11,830]	
		lbf	33,950 [36,860]	28,220 [30,640]	24,030 [26,090]	

Note: Arm weight includes bucket cylinder, linkage, and pin

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Tier 4 Final Engine



Lifting Capacity

Boom: 5.68 m (18' 8")

Arm: 2.92 m (9' 7")

Bucket: 0.80 m³ (1.05 yd³) SAE heaped

Shoe: 800 mm (32") triple grouser, CWT 5,300 kg (11,685 lb)

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

 Rating over front
 Rating over side or 360 degree

Lift-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)
9.0 m 29.5 ft	kg lb											*4,830 *10,660	*4,830 *10,660	4.25 (14.0)
7.5 m 24.6 ft	kg lb					*5,380 *11,850	*5,380 *11,850	*4,760 *10,490	*4,760 *10,490			*3,920 *8,640	*3,920 *8,640	6.16 (20.2)
6.0 m 19.7 ft	kg lb					*5,670 *12,500	*5,670 *12,500	*5,440 *12,000	5,420 11,940			*3,610 *7,950	*3,610 *7,950	7.29 (23.9)
4.5 m 14.8 ft	kg lb			*8,780 *19,360	*8,780 *19,360	*6,840 *15,090	*6,840 *15,090	*5,930 *13,080	5,260 11,590	*5,280 *11,630	3,680 8,110	*3,520 *7,750	3,300 7,280	7.99 (26.2)
3.0 m 9.8 ft	kg lb					*8,600 *18,950	7,700 16,970	*6,720 *14,810	5,020 11,060	*5,790 *12,770	3,580 7,890	*3,580 *7,880	3,010 6,630	8.35 (27.4)
1.5 m 4.9 ft	kg lb					*10,180 *22,450	7,180 15,820	*7,510 *16,550	4,770 10,520	5,870 12,930	3,460 7,630	*3,780 *8,330	2,900 6,390	8.44 (27.7)
Ground Line	kg lb			*7,170 *15,800	*7,170 *15,800	*10,930 *24,090	6,880 15,180	*8,000 *17,630	4,590 10,130	5,770 12,710	3,370 7,430	*4,160 *9,180	2,950 6,500	8.26 (27.1)
-1.5 m -4.9 ft	kg lb	*7,450 *16,420	*7,450 *16,420	*12,200 *26,890	*12,200 *26,890	*10,780 *23,770	6,790 14,980	7,960 17,550	4,520 9,960	5,730 12,640	3,340 7,370	*4,860 *10,710	3,190 7,020	7.78 (25.5)
-3.0 m -9.8 ft	kg lb	*12,780 *28,160	*12,780 *28,160	*13,590 *29,960	13,340 29,410	*9,800 *21,600	6,850 15,090	*7,270 *16,030	4,550 10,020			*5,390 *11,870	3,750 8,270	6.96 (22.8)
-4.5 m -14.8 ft	kg lb			*10,320 *22,760	*10,320 *22,760	*7,560 *16,660	7,060 15,550					*5,540 *12,210	5,180 11,410	5.62 (18.4)

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 QSB 6.7 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	•	
Hands free mobile phone system with USB	•	
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 & 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	•	
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	•	
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	OPT
Seat		
Adjustable air suspension seat with heater		•
Cabin FOG/FOPS		
FOG ISO 10262 Level 2	Front and top guard	•
(FOPS ISO 3449 Level 2)	Top guard	•
Cabin ROPS (ISO 12117-2)		
ROPS ISO 12117-2		•
SAFETY	STD	OPT
Battery master switch	•	
Rearview camera		•
AAVM (All-Around View Monitoring)		•
Four front working lights (2 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		
5.68 m mono, 18' 8"	•	
5.65 m 2-piece, 18' 6"		•
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 warmer (Single)	•	
Fuel warmer (Dual)		•
Self-diagnostics system	•	
Hi-mate Remote Management System	Mobile Satellite	•
Batteries (2 x 12V x 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	STD	OPT
Lower frame under cover (Additional)		•
Lower frame under cover (Normal)	•	
Track shoes		
Triple grouser shoes (600mm, 24")	•	
Triple grouser shoes (700 mm, 28")		•
Triple grouser shoes (800 mm, 32")		•
Triple grouser shoes (900 mm, 36")		•
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.

PLEASE CONTACT



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