

# SPECIFICATIONS

## HX140LC

Powered By Cummins Tier 4 Final Engine

### Net Power

SAE J1349 / 127 HP  
(95 kW) at 2,200 rpm

### Bucket Range

0.30 yd<sup>3</sup> - 0.93 yd<sup>3</sup>  
(0.23 m<sup>3</sup> - 0.71 m<sup>3</sup>)

### Standard Bucket

0.73 yd<sup>3</sup> / 0.56 m<sup>3</sup>

### Operating Weight

33,358 lb / 15,131 kg -  
33,841 lb / 15,350 kg

-Dozer Blade  
35,239 lb / 15,984 kg -  
35,721 lb / 16,203 kg

### ENGINE

Maker / Model	CUMMINS QSF 3.8	
Type	4-cycle turbocharged, air-cooled diesel engine	
Rated flywheel horsepower	SAE	J1995 (gross) 130 HP (97 kW) at 2,200 rpm J1349 (net) 127 HP (95 kW) at 2,200 rpm
Max. torque	4.02" x 4.53" (102 x 115 mm)	
Bore x stroke	4.02" x 4.53" (102 x 115 mm)	
Piston displacement	229 in <sup>3</sup> (3,800 cc)	
Batteries	2 x 12 V x 100 Ah	
Starting motor	24 V - 4.8 kW	
Alternator	28 V - 70 Amp	

### HYDRAULIC SYSTEM

#### MAIN PUMP

Type	Variable displacement tandem axial piston pumps
Max. flow	2 x 33.5 gpm (2 x 126.8 l/min)
Sub-pump for pilot circuit	Gear pump

### CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

#### HYDRAULIC MOTORS

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

#### RELIEF VALVE SETTING

Implement circuits	5,690 psi (400 kgf/cm <sup>2</sup> )
Travel	4,980 psi (350 kgf/cm <sup>2</sup> )
Power boost (boom, arm, bucket)	5,690 psi (380 kgf/cm <sup>2</sup> )
Swing circuit	4,054 psi (285 kgf/cm <sup>2</sup> )
Pilot circuit	570 psi (40 kgf/cm <sup>2</sup> )
Service valve	Installed

#### HYDRAULIC CYLINDERS

No. of cylinder bore X stroke	Boom: 105 x 1,075 mm
	Arm: 115 x 1,138 mm
	Bucket: 100 x 840 mm

### DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	26,455 lbf (12,000 kgf)
Max. travel speed (high / low)	3.5 mph (5.6 km/hr) / 2.1 mph (3.3 km/hr)
Gradeability	35° (70%)
Parking brake	Multi wet disc

### CONTROL

Pilot pressure-operated joysticks and pedals with detachable lever provide more-precise control, with reduced effort and fatigue.

Pilot control	Two joysticks with one safety lever (LH) Swing and arm (RH) Boom and bucket
Traveling and steering	Two levers with pedals
Engine throttle	Electric, dial type



### OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 15' 1" (4,600 mm) boom, 9' 10" (600 mm) arm, 24" (600mm) triple grouser shoes, SAE heaped 0.73 yd<sup>3</sup> (0.58 m<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, max 5,071 lb (2,300 kg) counterweight and all other standard equipment.

### OPERATING WEIGHT

Shoes	Operating weight		Ground pressure
Type	Width in (mm)	lb (kg)	psi (kgf/cm <sup>2</sup> )
Triple grouser	24" (600)	HX140LC 33,358 (15,131)	5.39 (0.38)
	28" (700)	HX140LC 33,841 (15,350)	4.66 (0.33)
Triple grouser w/ Dozer Blade	24" (600)	HX140LDC 35,239 (15,984)	5.69 (0.40)
	28" (700)	HX140LDC 35,721 (16,203)	4.98 (0.35)

### 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	11.6 rpm

### SERVICE REFILL CAPACITIES

Re-filling	liters	US gal
Fuel tank	270	71.3
Engine coolant	15.5	4.1
Engine oil	10.5	2.8
Swing device	2.5	0.66
Final drive (each)	2.2	0.6
Hydraulic system (including tank)	210	55.5
Hydraulic tank	124	32.8
DEF/AdBlue® tank	19	5

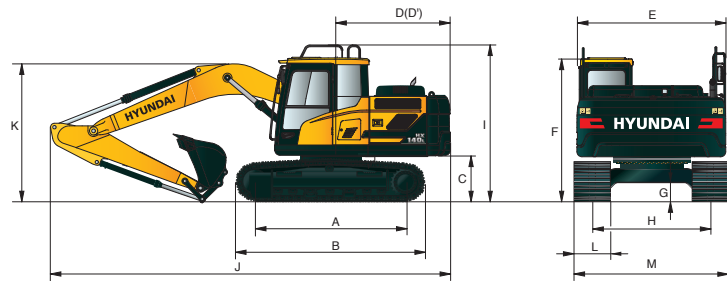
### UNDERCARRIAGE

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	46 EA
No. of carrier rollers on each side	1 EA
No. of track rollers on each side	7 EA
No. of rail guards on each side	1 EA

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Unit: ft-in (mm)

## HX140LC DIMENSIONS

Unit: ft-in (mm)

15' 1" (4.6 m), 13' 5" (4.1 m) boom and 6' 3" (1.9 m), 6' 11" (2.1 m), 8' 2" (2.5 m), 9' 10" (3.0 m) arm

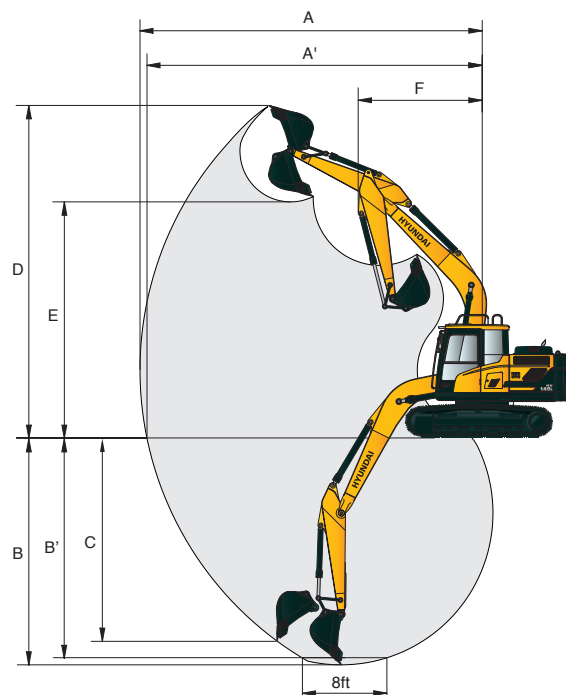
A	Tumbler distance	9' 10" (3,000)
B	Overall length of crawler	12' 2" (3,708)
C	Ground clearance of counterweight	3' 1" (940)
D	Tail swing radius	7' 7" (2,330)
D'	Rear-end length	7' 7" (2,330)
E	Overall width of upper structure	8' 1" (2,475)
F	Overall height of cab	9' 5" (2,860)
G	Min. ground clearance	1' 5" (440)
H	Track gauge	6' 7" (2,000)
I	Overall height of guardrail	10' 2" (3,100)

Boom length	15' 1" (4,600)				13' 5" (4,100)	
Arm length	6' 3" (1,900)	6' 11" (2,100)	8' 2" (2,500)	9' 10" (3,000)	6' 3" (1,900)	6' 11" (2,100)
J Overall length	25' 7" (7,820)	25' 8" (7,850)	25' 7" (7,820)	25' 6" (7,790)	24' 0" (7,320)	24' 1" (7,350)
K Overall height of boom	8' 7" (2,650)	9' 0" (2,760)	9' 1" (2,780)	10' 2" (3,110)	8' 5" (2,600)	9' 2" (2,790)
L Track shoe width	20" (500)		24" (600)		28" (700)	
M Overall width	8' 2" (2,500)		8' 6" (2,600)		8' 10" (2,700)	

## HX140LC WORKING RANGE

Unit: ft-in (mm)

Boom length	15' 1" (4,600)				13' 5" (4,100)	
Arm length	6' 3" (1,900)	6' 11" (2,100)	8' 2" (2,500)	9' 10" (3,000)	6' 3" (1,900)	6' 11" (2,100)
A Max. digging reach	25' 5" (7,750)	25' 11" (7,920)	27' 4" (8,330)	28' 10" (8,790)	23' 10" (7,260)	24' 4" (7,420)
Max. digging reach on ground	24' 11" (7,600)	25' 6" (7,770)	26' 10" (8,180)	28' 4" (8,650)	23' 3" (7,090)	23' 10" (7,260)
B Max. digging depth	16' 2" (4,950)	16' 10" (5,150)	18' 3" (5,550)	19' 10" (6,050)	14' 11" (4,540)	15' 7" (4,740)
B' Max. digging depth (8' level)	15' 4" (4,680)	16' 1" (4,900)	17' 6" (5,340)	19' 3" (5,870)	14' 1" (4,280)	14' 9" (4,490)
C Max. vertical wall digging depth	15' 3" (4,650)	16' 1" (4,900)	17' 6" (5,330)	19' 2" (5,850)	13' 11" (4,240)	14' 3" (4,350)
D Max. digging height	26' 7" (8,100)	26' 10" (8,180)	27' 11" (8,500)	28' 10" (8,780)	25' 3" (7,700)	25' 6" (7,770)
E Max. dumping height	18' 7" (5,670)	18' 10" (5,750)	19' 11" (6,060)	20' 9" (6,330)	17' 3" (5,260)	17' 6" (5,340)
F Min. swing radius	8' 8" (2,630)	8' 9" (2,670)	8' 8" (2,650)	8' 10" (2,680)	7' 9" (2,350)	8' 1" (2,460)



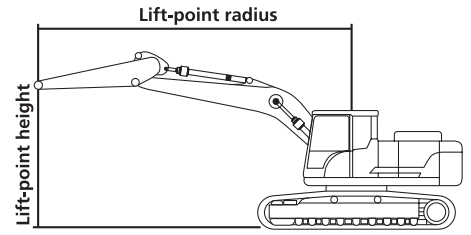
## HX140LC DIGGING FORCE

Arm	Length	ft-in (mm)	6' 3" (1,900)	6' 11" (2,100)	8' 2" (2,500)	9' 10" (3,000)	[Power Boost]
	Weight	lb (kg)	1,230 (560)	1,280 (580)	1,340 (610)	1,480 (670)	
Bucket digging force	SAE	kN	87.3 [94.8]	87.3 [94.8]	87.3 [94.8]	87.3 [94.8]	
		kgf	8,900 [9,660]	8,900 [9,660]	8,900 [9,660]	8,900 [9,660]	
		lbf	19,620 [21,300]	19,620 [21,300]	19,620 [21,300]	19,620 [21,300]	
	ISO	kN	102 [110.8]	102 [110.8]	102 [110.8]	102 [110.8]	
		kgf	10,400 [11,290]	10,400 [11,290]	10,400 [11,290]	10,400 [11,290]	
		lbf	22,930 [24,890]	22,930 [24,890]	22,930 [24,890]	22,930 [24,890]	
Arm crowd force	SAE	kN	76.5 [83.1]	73.6 [79.9]	62.8 [68.2]	55.9 [60.7]	
		kgf	7,800 [8,470]	7,500 [8,140]	6,400 [6,950]	5,700 [6,190]	
		lbf	17,200 [18,670]	16,530 [17,950]	14,110 [15,320]	12,570 [13,640]	
	ISO	kN	80.4 [87.3]	77.5 [84.1]	65.7 [71.4]	57.9 [62.8]	
		kgf	8,200 [8,900]	7,900 [8,580]	6,700 [7,270]	5,900 [6,410]	
		lbf	18,080 [19,630]	17,420 [18,910]	14,770 [16,040]	13,010 [14,120]	

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

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## Lifting Capacity

Boom: 15' 1" (4.6m) / Arm : 9'10" (3.0M) / Shoe : 24" (600mm) Triple grouser / Counter weight : 5,071 lb / 2,300 kg / Dozer Blade None

Lift-point height m (ft)		Lift-point radius								At max. reach		Reach m (ft)
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		
6.0 m (19.7 ft)	kg							*2,230	*2,230	*2,000	*2,000	6.08
	lb							*4,920	*4,920	*4,410	*4,410	(20.0)
4.5 m (14.8 ft)	kg							*3,280	2,640	*1,880	*1,880	6.94
	lb							*7,230	5,820	*4,140	*4,140	(22.8)
3.0 m (9.8 ft)	kg			*5,250	*5,250	*4,130	3,990	*3,670	2,560	*1,870	1,810	7.40
	lb			*11,570	*11,570	*9,110	8,800	*8,090	5,640	*4,120	3,990	(24.3)
1.5 m (4.9 ft)	kg			*8,390	6,840	*5,340	3,720	3,670	2,440	*1,970	1,720	7.53
	lb			*18,500	15,080	*11,770	8,200	8,090	5,380	*4,340	3,790	(24.7)
Ground Line	kg			*7,180	6,420	5,510	3,520	3,560	2,340	*2,180	1,750	7.36
	lb			*15,830	14,150	12,150	7,760	7,850	5,160	*4,810	3,860	(24.1)
-1.5 m (-4.9 ft)	kg	*4,370	*4,370	*9,280	6,320	5,400	3,430	3,510	2,290	*2,610	1,920	6.85
	lb	*9,630	*9,630	*20,460	13,930	11,900	7,560	7,740	5,050	*5,750	4,230	(22.5)
-3.0 m (-9.8 ft)	kg	*7,550	*7,550	*9,420	6,380	5,420	3,440			*3,560	2,380	5.91
	lb	*16,640	*16,640	*20,770	14,070	11,950	7,580			*7,850	5,250	(19.4)

Boom: 15' 1" (4.6m) / Arm : 9'10" (3.0M) / Shoe : 24" (600mm) Triple grouser / Counter weight : 5,071 lb / 2,300 kg / Dozer Blade Down

Lift-point height m (ft)		Lift-point radius								At max. reach		Reach m (ft)
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		
6.0 m (19.7 ft)	kg				*2,230	*2,230	*2,000	*2,000	6.08	*2000	*2000	6.08
	lb				*4,920	*4,920	*4,410	*4,410	(20.0)	*4410	*4410	(20.0)
4.5 m (14.8 ft)	kg				*3,280	3,000	*1,880	*1,880	6.94	*1880	*1880	6.94
	lb				*7,230	6,610	*4,140	*4,140	(22.8)	*4140	*4140	(22.8)
3.0 m (9.8 ft)	kg		*5,250	*5,250	*4,130	*4,130	*3,670	2,910	*1,870	*1,870	7.40	7.4
	lb		*11,570	*11,570	*9,110	*9,110	*8,090	6,420	*4,120	*4,120	(24.3)	(24.3)
1.5 m (4.9 ft)	kg		*8,390	7,960	*5,340	4,270	*4,220	2,800	*1,970	*1,970	7.53	7.53
	lb		*18,500	17,550	*11,770	9,410	*9,300	6,170	*4,340	*4,340	(24.7)	(24.7)
Ground Line	kg		*7,180	*7,180	*6,290	4,060	*4,700	2,700	*2,180	2,020	7.36	7.36
	lb		*15,830	*15,830	*13,870	8,950	*10,360	5,950	*4,810	4,450	(24.1)	(24.1)
-1.5 m (-4.9 ft)	kg	*4,370	*4,370	*9,280	7,410	*6,660	3,960	*4,860	2,650	*2,610	2,220	6.85
	lb	*9,630	*9,630	*20,460	16,340	*14,680	8,730	*10,710	5,840	*5,750	4,890	(22.5)
-3.0 m (-9.8 ft)	kg	*7,550	*7,550	*9,420	7,480	*6,270	3,970		*3,560	2,740	5.91	5.91
	lb	*16,640	*16,640	*20,770	16,490	*13,820	8,750		*7,850	6,040	(19.4)	(19.4)

Boom: 15' 1" (4.6m) / Arm : 9'10" (3.0M) / Shoe : 24" (600mm) Triple grouser / Counter weight : 5,071 lb / 2,300 kg / Dozer Blade Up

Lift-point height m (ft)		Lift-point radius								At max. reach		Reach m (ft)
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		
6.0 m (19.7 ft)	kg							*2,230	*2,230	*2,000	*2,000	6.08
	lb							*4,920	*4,920	*4,410	*4,410	(20.0)
4.5 m (14.8 ft)	kg							*3,280	2,780	*1,880	*1,880	6.94
	lb							*7,230	6,130	*4,140	*4,140	(22.8)
3.0 m (9.8 ft)	kg			*5,250	*5,250	*4,130	*4,130	*3,670	2,700	*1,870	*1,870	7.40
	lb			*11,570	*11,570	*9,110	*9,110	*8,090	5,950	*4,120	*4,120	(24.3)
1.5 m (4.9 ft)	kg			*8,390	7,210	*5,340	3,930	3,670	2,580	*1,970	1,830	7.53
	lb			*18,500	15,900	*11,770	8,660	8,090	5,690	*4,340	4,030	(24.7)
Ground Line	kg			*7,180	6,780	5,510	3,720	3,560	2,490	*2,180	1,860	7.36
	lb			*15,830	14,950	12,150	8,200	7,850	5,490	*4,810	4,100	(24.1)
-1.5 m (-4.9 ft)	kg	*4,370	*4,370	*9,280	6,680	5,400	3,630	3,510	2,440	*2,610	2,040	6.85
	lb	*9,630	*9,630	*20,460	14,730	11,900	8,000	7,740	5,380	*5,750	4,500	(22.5)
-3.0 m (-9.8 ft)	kg	*7,550	*7,550	*9,420	6,750	5,420	3,640			*3,560	2,520	5.91
	lb	*16,640	*16,640	*20,770	14,880	11,950	8,020			*7,850	5,560	(19.4)

### 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.

# SPECIFICATIONS HX140LC

Powered By Cummins Tier 4 Final Engine

ENGINE	STD	OPT
Cummins QSF 3.8	•	
<b>HYDRAULIC SYSTEM</b>		
<b>Intelligent Power Control (IPC)</b>		
3-power mode, 2-work mode, user mode	•	
Attachment mode flow control	•	
Electronic fan control	•	
Engine auto idle	•	
Engine auto shutdown control		•
Pump flow control	•	
Variable power control	•	
<b>CAB &amp; INTERIOR</b>		
<b>ISO Standard cabin</b>		
12-volt power outlet (24V DC to 12V DC converter)	•	
All-weather steel cab with 360° visibility	•	
Bluetooth / hands-free	•	
Console box height adjust system	•	
Door and cab locks, one key	•	
Electric horn	•	
Hot and cool box	•	
Lockable door	•	
Mechanical suspension seat with heater	•	
Pilot-operated adjustable joystick	•	
Radio / USB player	•	
Rise-up type windshield wiper	•	
Safety glass windows	•	
Sliding fold-in front window	•	
Sliding side window (LH)	•	
Storage compartment and ashtray	•	
Sun visor	•	
Transparent cabin roof cover	•	
Cabin front window rain guard		•
Cabin lights	•	
Cabin roof-steel cover		•
<b>Automatic climate control</b>		
Air conditioner and heater	•	
Defroster	•	
Starting aid (air grid heater) for cold weather	•	
<b>Centralized monitoring</b>		
8" LCD display	•	
Air cleaner clogging	•	
Auto idle	•	
Check engine	•	
Clock	•	
Communication error	•	
ECO gauges	•	
Engine coolant temperature gauge	•	
Engine speed or trip meter / accel.	•	
Fuel level gauge	•	
Fuel warmer	•	
Hydraulic oil temperature gauge	•	
Indicators	•	
Low battery	•	
Low speed / high speed	•	
Max. power	•	
Overload		•
Warnings	•	
<b>Seat</b>		
Adjustable air suspension seat with heater	•	
<b>Cabin FOPS/FOG (ISO/DIS 10262) Level 2</b>		
FOPS ISO 3,449 Level 2		•
FOG (Falling Object Guard)		•
<b>Cabin ROPS (ISO 12117-2)</b>		
ROPS (Roll Over Protective Structure)	•	

SAFETY	STD	OPT
AAVM (All-Around View Monitoring)		•
Arm holding system	•	
Automatic swing brake	•	
Battery master switch	•	
Beacon lamp		•
Boom holding system	•	
Four front working lights (2 boom mounted, 2 front frame mounted)	•	
Rear work lamp		•
Rearview camera	•	
Safety lock valve for arm cylinder		•
Safety lock valve for boom cylinder with overload warning device		•
Swing lock system		•
Three outside rearview mirrors	•	
Travel alarm	•	

OTHER		
<b>Booms</b>		
15' 1" (4.6 m)	•	
13' 5" (4.1 m)		•
16' 1" (4.9 m) 2-piece boom		•
<b>Arms</b>		
6' 3" (1.9 m)		•
6' 11" (2.1 m)		•
8' 2" (2.5 m)		•
9' 10" (3.0 m)	•	
Batteries (2 x 12V x 100 Ah)	•	
Boom float control		•
Double-acting piping kit (clamshell, etc.)	•	
Fine swing control system		•
Fuel filler pump (50 l/min)		•
Fuel pre-filter	•	
Fuel warmer		•
Hi-mate Remote Management System	Mobile Satellite	•
Pattern change valve (SAE and ISO)		•
Pilot accumulator	•	
Quick coupler		•
Quick coupler piping		•
Removable clean-out dust net for cooler	•	
Removable reservoir tank	•	
Rotating piping kit		•
Self-diagnostics system	•	
Single-acting piping kit (breaker, etc.)		•
Tool kit		•

UNDERCARRIAGE		
Lower frame under cover (additional)		•
Lower frame under cover (normal)	•	
<b>Track shoes</b>		
Full track rail guard		•
Track rail guard	•	
Double grouser shoes 24" (600 mm)		•
Double grouser shoes 28" (700 mm)		•
Triple grouser shoes 24" (600mm)	•	
Triple grouser shoes 28" (700 mm)		•
Triple grouser shoes 32" (800 mm)		•
Triple grouser shoes 36" (900 mm)		•

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

## PLEASE CONTACT



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