

# SPECIFICATIONS

## HX355<sup>A</sup> LCR



**Net Power**  
258 HP (192 kW)  
at 1,800 rpm

**Bucket Range**  
0.67 – 1.75 yd<sup>3</sup>  
(0.51 – 1.34 m<sup>3</sup>)

**Operating Weight**  
78,483 lb (35,600 kg) –  
79,807 lb (36,200 kg)

### ENGINE

Maker / Model	HYUNDAI / DL08
Type	6-cylinder, 4-stroke, Inline, Water-cooled, Turbocharged and Air-cooled, Direct injection, electronically controlled diesel engine
Gross Power	270 hp (202 kW) at 1,800 rpm
Net Power	257.6 hp (192.2 kW) at 1,800 rpm
Max. Power	270 hp (202 kW) at 1,800 rpm
Peak Torque	940 lb.ft (1,275 N.m) at 1,300 rpm
Displacement	466 cu in (7.640 l)

### HYDRAULIC SYSTEM

#### MAIN PUMP

Type	Variable-displacement, tandem-axis piston pumps
Max. Flow	2 × 288 l/min (2 × 76.1 U.S. gpm / 2 × 63.4 UK gpm)
Sub-Pump for Pilot Circuit	Gear pump
Cross-sensing and fuel saving pump system.	

#### AUXILIARY PRESSURE

2-Way	Flow	13 - 150 gpm (50~570 l/min)
	Pressure	3,553-5,076 psi (245~350 bar)
Rotating	Flow	10 gpm (38 l/min)
	Pressure	1,137 psi (78.45 bar)

#### HYDRAULIC MOTORS

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

#### RELIEF VALVE SETTING

Implement Circuits	4,980 psi (350 kgf/cm <sup>2</sup> )
Travel	4,980 psi (350 kgf/cm <sup>2</sup> )
Power Boost (Boom, Arm, Bucket)	5,262 psi (370 kgf/cm <sup>2</sup> )
Swing Circuit	3,698 psi (260 kgf/cm <sup>2</sup> )
Pilot Circuit	570 psi (40 kgf/cm <sup>2</sup> )
Service Valve	Installed

#### HYDRAULIC CYLINDERS

No. of Cylinders Bore X Stroke	Boom : 2-140 X 1,530 mm (2-piece stroke : 1,400)
	Arm : 1-160 X 1,660 mm
	Bucket : 1-140 X 1,150 mm
	Blade : 2-140 X 432 mm

### DRIVES & BRAKES

Drive Method	Fully hydrostatic type
Drive Motor	Axial-piston motor, in-shoe design
Reduction System	Planetary reduction gear
Max. Drawbar Pull	83,334 lbf (37,800 kgf)
Max. Travel Speed (High / Low)	3.2 mph (5.2 km/hr) / 2 mph (3.2 km/hr)
Gradeability	35° (70%)
Parking Brake	Pilot pressure, mechanical

### CONTROL

Pilot pressure operated joysticks and pedals with levers provide almost effortless and fatigueless operation.

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 20' 6" (6,245 mm) boom, 10' 2" (3,100 mm) arm, SAE heaped 1.66 yd<sup>3</sup> (1.27 m<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipment.

### OPERATING WEIGHT

Shoes	Operating Weight		Ground Pressure
Type	Width in (mm)	lb (kg)	psi (kgf/cm <sup>2</sup> )
Triple Grouser	28" (700)	78,483 (35,600)	8.39 (0.59)
	32" (800)	79,365 (36,000)	7.39 (0.52)
	34" (850)	79,807 (36,200)	6.96 (0.49)

### SWING SYSTEM

Swing Motor	Axial-piston motor
Swing Reduction	2-stage planetary gear reduction
Swing Bearing Lubrication	Grease-bathed
Swing Brake	Multi wet disc
Swing Speed	9.81 rpm

### COOLANT & LUBRICANT CAPACITY

	US gal	liter
Fuel Tank	127.4	490.0
Engine Coolant	12.4	47.5
Engine Oil	10.9	42.0
Swing Device	1.8	7.0
Final Drive (Each)	1.8	7.0
DEF/AdBlue®	16.1	62.0
Hydraulic System (Including Tank)	72.8	280.0
Hydraulic Tank	45.5	175.0

### 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 Rollers on Each Side	2 ea
No. of Track Rollers on Each Side	9 ea
No. of Rail Guards on Each Side	2 ea

### CAB NOISE LEVEL

Guaranteed noise level presented below can vary depending on a range of factors such as operating conditions, speed of a cooling fan, types of engine and so forth. Hearing protection shall be necessary if an operator is working in an improperly maintained cabin or exposed to a noisy environment by leaving doors and/or windows open. With cooling fan at maximum:

Operator sound pressure level (ISO 6396:2008)	69 dB(A)
Exterior sound power level (ISO 6395:2008)	104 dB(A)

\* Distance of 15 m (49.2 ft), moving forward in second gear ratio

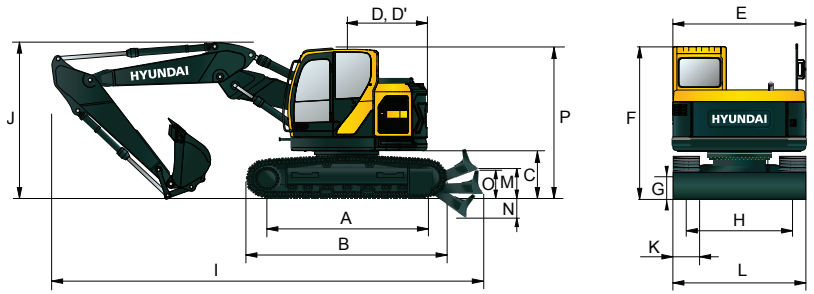
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## HX355A LCR DIMENSIONS

Unit: ft in (mm)

20' 6" (6,245 m) for 2-piece, heavy-duty or standard boom and 10' 2" (3.1 m), 2-piece, heavy-duty or standard arm

A	Tumbler Distance	13' 3" (4,040)
B	Overall Length of Crawler	16' 3" (4,960)
*C	Ground Clearance of Counterweight	3' 8" (1,117)
D	Tail-swing Radius	6' 3" (1,900)
D'	Rear-end Length	6' 3" (1,900)
E	Overall Width of Upperstructure	9' 10" (2,990)
*F	Overall Height of Cab	10' 2" (3,100)
*G	Min. Ground Clearance	1' 7" (475)
H	Track Gauge	9' 0" (2,750)
M	Ground Clearance of Blade Up	2' 2" (660)
*N	Depth of Blade Down	2' 6" (751)
O	Height of Blade	2' 9" (830)
P	Overall Height of Guardrail	10' 6" (3,200)

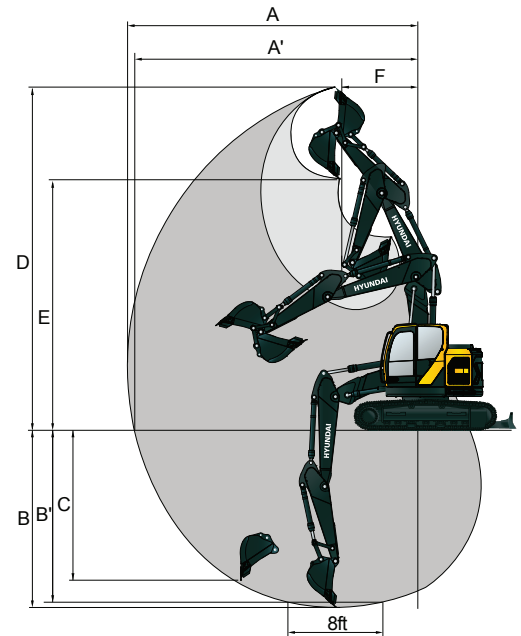


Boom length	20' 6" (6,245) STD	20' 6" (6,245) HD	2-piece boom
Arm length	10' 2" (3,100) STD	10' 2" (3,100) STD	2-piece arm
I	Overall length	32' 9" (9,975)	32' 9" (9,975)
*J	Overall height of boom	11' 3" (3,425)	11' 3" (3,425)
K	Track shoe width	2' 9" (850)	
L	Overall Width (w/ Foot Board)	11' 10" (3,600)	

## HX355A LCR WORKING RANGE

Unit: ft in (mm)

Boom length	20' 6" (6,245) STD	20' 6" (6,245) STD	2-piece boom
Arm length	10' 2" (3,100) STD	10' 2" (3,100) HD	10' 2" (3,100) 2-piece arm
A	Max. digging reach	35' 6" (10,820)	34' 11" (10,640)
A'	Max. digging reach on ground	34' 10" (10,620)	34' 3" (10,435)
B	Max. digging depth	22' 10" (6,970)	21' 1" (6,440)
B'	Max. digging depth (8' level)	20' 2" (6,160)	12' 0" (3,660)
C	Max. vertical wall digging depth	20' 2" (6,154)	18' 3" (5,560)
D	Max. digging height	36' 9" (11,200)	38' 9" (11,805)
E	Max. dumping height	26' 5" (8,065)	28' 3" (8,615)



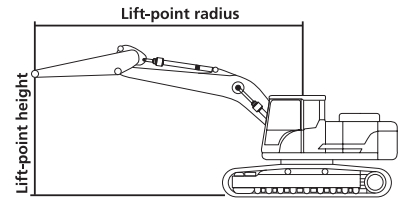
## HX355A LCR DIGGING FORCE

Boom	Length	ft in (mm)	20' 6" (6,245) STD	20' 6" (6,245) HD	2-piece boom
	Weight	lb (kg)	5,082 lb (2,305 kg)	5,399 lb (2,449 kg)	5,558 lb (2,521 kg)
Arm	Length	ft in (mm)	10' 2" (3,100) STD	10' 2" (3,100) HD	10' 2" (3,100) 2-piece arm
	Weight	lb (kg)	2,326 lb (1,055 kg)	2,509 lb (1,138 kg)	2,326 lb (1,055 kg)
Bucket Digging Force	SAE	kN	157.52 [186]	157.52 [186]	157.52 [186]
		kgf	17,900 [19,000]	17,900 [19,000]	17,900 [19,000]
		lbf	39,462 [41,887]	39,462 [41,887]	39,462 [41,887]
	ISO	kN	199.06 [210.82]	199.06 [210.82]	199.06 [210.82]
		kgf	20,300 [21,500]	20,300 [21,500]	20,300 [21,500]
		lbf	44,753 [47,399]	44,753 [47,399]	44,753 [47,399]
Arm Crowd Force	SAE	kN	144.14 [152.97]	144.14 [152.97]	144.14 [152.97]
		kgf	14,700 [15,600]	14,700 [15,600]	14,700 [15,600]
		lbf	33,289 [35,053]	33,289 [35,053]	33,289 [35,053]
	ISO	kN	148.07 [155.91]	148.07 [155.91]	148.07 [155.91]
		kgf	15,100 [15,900]	15,100 [15,900]	15,100 [15,900]
		lbf	33,289 [35,053]	33,289 [35,053]	33,289 [35,053]

[ ]: Power Boost

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

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## Lifting Capacity

Boom: 20' 6" (6.248 m) STD

Arm: 10' 2" (3.10 m) STD

Shoe: 2' 9" (850 mm) triple grouser

CWT: 16,976 lb (7,700 kg)

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

Rating over front

Rating over side or 360 degrees

Lift-point height m (ft)												At max. reach		
		9.8 ft (3.0 m)		14.8 ft (4.5 m)		19.7 ft (6.0 m)		24.6 ft (7.5 m)		29.5 ft (9.0 m)		Capacity		Reach
														m (ft)
9.0 m	lb											14,237*	14,237*	19.72
29.5 ft	kg											6,460*	6,460*	5.94
7.5 m	lb					18,315*	18,315*					12,849*	12,849*	24.5
24.6 ft	kg					8,310*	8,310*					5,830*	5,830*	7.38
6.0 m	lb					19,395*	19,395*	17,940*	13,643			12,364*	11,373	27.56
19.7 ft	kg					8,800*	8,800*	8,140*	6,190			5,610*	5,160	8.3
4.5 m	lb	40,245*	40,245*	27,131*	27,131*	21,775*	18,866	18,932*	13,224			12,408*	9,962	29.45
14.8 ft	kg	18,260*	18,260*	12,310*	12,310*	9,880*	8,560	8,590*	6,000			5,630*	4,520	8.87
3.0 m	lb			33,412*	27,241	24,662*	17,742	19,836	12,673	14,877	9,499	12,871*	9,235	30.38
9.8 ft	kg			15,160*	12,360	11,190*	8,050	9,000	5,750	6,750	4,310	5,840*	4,190	9.15
1.5 m	lb			37,600*	25,324	27,043*	16,728	19,241	12,144	14,613	9,257	13,819*	8,970	30.48
4.9 ft	kg			17,060*	11,490	12,270*	7,590	8,730	5,510	6,630	4,200	6,270*	4,070	9.18
Ground Line	lb			38,305*	24,464	26,404	16,089	18,822	11,747			14,524	9,147	29.75
	kg			17,380*	11,100	11,980	7,300	8,540	5,330			6,590	4,150	8.96
-1.5 m	lb	30,216*	30,216*	36,432*	24,266	26,095	15,803	18,624	11,571			15,692	9,852	28.09
-4.9 ft	kg	13,710*	13,710*	16,530*	11,010	11,840	7,170	8,450	5,250			7,120	4,470	8.46
-3.0 m	lb	42,493*	42,493*	32,244*	24,531	24,684*	15,891	18,403*	11,725			17,720*	11,461	25.33
-9.8 ft	kg	19,280*	19,280*	14,630*	11,130	11,200*	7,210	8,350*	5,320			8,040*	5,200	7.63
-4.5 m	lb	31,605*	31,605*	24,839*	24,839*	18,315*	16,442					16,441*	15,252	21.08
-14.8 ft	kg	14,340*	14,340*	11,270*	11,270*	8,310*	7,460					7,460*	6,920	6.35

### 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.



ENGINE	STD	OPT
<b>HYUNDAI - DL08</b>		
High-pressure common-rail (HPCR)	•	
Variable geometry turbocharger (VGT)	•	
Cooled exhaust gas recirculation (CEGR)	•	
Selective catalytic reduction (SCR)	•	
Diesel exhaust fluid (DEF)	•	
Fuel filter with water separator	•	
Coolant expansion tank	•	
Dual element dry-type air filter with evacuator	•	
Electronic engine control (ECU)	•	
Auto-idle	•	
Auto-shutdown (time-adjustable)	•	
Overheat and low oil pressure engine protection	•	
Block heater (110 V)		•
<b>HYDRAULIC SYSTEM</b>		
Electronic power optimizing system (EPOS)	•	
Variable-axial piston main pump (tandem)	•	
Cross-sensing pump control	•	
Pilot-operated control valves	•	
Gear pilot pump	•	
Smart power control (SPC)	•	
Axial-piston swing motor	•	
Spring-applied hydraulic release brake, swing motor	•	
Axial piston travel motor (high/low, auto)	•	
Auxiliary hydraulics, one- and two-way piping	•	
Auxiliary hydraulics, tilt/rotate piping		•
Adjustable auxiliary flow and pressure, 10 presets	•	
Breaker filter		•
Straight travel		•
<b>CONTROLS</b>		
Joystick controls	•	
Pattern control change valve (SAE, ISO)	•	
<b>Joystick attachment control switches/buttons</b>		
- Right (one-way, two-way, power boost)	•	
- Left (tilt/rotate, horn, one-touch decel)	•	
Foot pedal attachment control	•	
<b>Control stands</b>		
- Height adjustable	•	
- Sliding (fore/aft)	•	
- Tilting armrests	•	
Engine speed control dial	•	
Travel pedals with hand levers	•	
Straight travel pedal		•
<b>Switches, console-mounted</b>		
- Starter button switch	•	
- Travel speed selector	•	
- Work light	•	
- Auxiliary mode switch	•	
Emergency stop switch	•	
Power modes (P+, P, S, E)	•	
Work modes (digging, lifting, breaker, shear)	•	
Smart power control (SPC)	•	
Jog dial display control	•	
Bluetooth® control panel	•	
Wiper control panel	•	
Audio control panel	•	

CAB & INTERIOR	STD	OPT
<b>CABIN ROPS (ISO 12117-2)</b>		
ROPS (Roll Over Protective Structure)	•	
Steel, all-weather and sound-suppressed	•	
Viscous mount with spring reinforcement	•	
Front window with wiper/washer	•	
Tinted safety glass	•	
Skylight top hatch with sunscreen	•	
Front window with sunscreen	•	
Pull-up type top front window	•	
Removable lower front window with storage behind seat	•	
Adjustable sliding side door window	•	
Defrost, front window	•	
<b>Seat</b>		
- Heated	•	
- Air suspension	•	
- 2" (51 mm) seat belt	•	
- Recline	•	
- Adjustable fore/aft	•	
- Adjustable armrests	•	
<b>Control stands</b>		
- Height adjustable	•	
- Mounted to seat base	•	
Storage for operator's manuals	•	
Fully automatic HVAC with ambient temperature sensor	•	
8" multi-function LCD interactive display monitor	•	
Cigarette lighter	•	
Digital Bluetooth audio broadcasting MP3 radio with cell phone integration	•	
Speakers (2)	•	
Antenna, roof-mounted	•	
Emergency breakout tool	•	
Hot/cold beverage compartment	•	
Power socket, 12 V & 24 V	•	
Cup holder	•	
Interior light	•	
Coat hanger	•	
Rain shield	•	
Fog guard	•	
Panto wiper, front windshield and lower window	•	
Front window guard	•	
Vandalism window cover mount	•	
<b>ELECTRICAL</b>		
System voltage – 24 V	•	
Alternator – 24 V, 80 amp	•	
2 x 12 V batteries, 150 AH reserve capacity	•	
Blade-type fuse panel	•	
Main circuit breaker	•	
Light, work (LED): 4 cab top, front (2), rear (2)	•	
Light, work (LED): 6 cab top, front (4), rear (2)		•
Rotating beacon		•
Hour meter	•	
Engine restart prevention system	•	
Side-view and rearview cameras with LED lamps (6)		•
360° all-around view camera		•
Ultrasonic sensor		•
Self-diagnostics system	•	
Smart key (remote ignition key)	•	

DISPLAY MONITOR & WARNINGS	STD	OPT
<b>Hyundai - DL08</b>		
Indicators	•	
- Work modes (P+, P, S, E)	•	
- User/service menu	•	
<b>Gauges</b>		
- Fuel level	•	
- DEF level	•	
- Engine coolant temperature	•	
- Hydraulic oil temperature	•	
- Engine rpm	•	
- Battery voltage	•	
- Hydraulic pump pressure	•	
- ECO	•	
- Trip meter	•	
- Hour meter	•	
- Fuel consumption	•	
<b>Warning and indicator lights</b>		
- Seat belt	•	
- Error code	•	
- SCR warning	•	
- Check engine	•	
- Engine oil pressure	•	
- Engine pre-heat engaged	•	
- Radiator coolant level and temperature	•	
- Air filter	•	
- Fuel level	•	
- DEF level – low	•	
- Water in fuel	•	
- Battery charge	•	
- Work lights on	•	
- Hydraulic oil temperature	•	
- Hydraulic charge pressure	•	
- Hydraulic pilot filter	•	
- Hydraulic return filter	•	
Swing alarm	•	
Travel alarm	•	
<b>Buzzer</b>		
- Engine oil pressure	•	
- Coolant temperature	•	
<b>OTHERS</b>		
<b>BOOMS</b>		
6,245 mm mono, 20' 6"	•	
6,245 mm mono, 20' 6", heavy-duty		•
2-piece, 3.05 m + 3.25 m /10' 0"+ 10' 8"		•
<b>ARMS</b>		
3,100 mm, 10' 2"	•	
3,100 mm, 10' 2", heavy-duty	•	
3,750 mm, 12' 4"	•	
Removable reservoir tank	•	
Fuel warmer		•
Hi MATE remote management system	•	
Quick coupler piping	•	
One-pedal straight travel system	•	
Accumulator for lowering work equipment	•	
Pattern change valve (2 patterns)	•	
<b>UNDERCARRIAGE</b>		
Dozer blade		•
<b>TRACK SHOES</b>		
Shoes, triple grouser – 700 mm		•
Shoes, triple grouser – 800 mm		•
Shoes, triple grouser – 850 mm	•	
Standard track rail guard	•	
Full 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.