

SPECIFICATIONS

HX145LCR

Tier 4 Final Engine

Net Power

SAE J1349 / 116 HP
(87 kW) at 1,950 rpm

Bucket Range

0.52 - 1.85 m³ (0.68 - 2.42 yd³)
Standard Bucket
1.27 m³ (2.42 yd³)

Operating Weight

15,160 kg / 33,420 lb

ENGINE

Maker / Model	Perkins 1204F	
Type	Water cooled, 4 cycle Diesel, 4-cylinders in line, direct injection, turbocharged charger and air cooled	
Rated flywheel horse power	SAE J1995 (gross)	124 HP (92.7 kW) / 1,950 rpm
	J1349 (net)	116 HP (87 kW) / 1,950 rpm
Max. torque	54.0 kgf.m(391 lbf.ft)/ 1,400 rpm	
Bore X stroke	105 x 127 mm (4.1" x 5.0")	
Piston displacement	4,400cc (268.5 in3)	
Batteries	2 X 12V X 100AH	
Starting motor	24V- 4.5kW	
Alternator	24V- 100Amp	

HYDRAULIC SYSTEM

MAIN PUMP

Type	Variable displacement tandem axis piston pumps
Max. flow	2 X 126.8L /min (33.5 US gpm)
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/cm ² (4,980 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: 2-105 X 1,105 mm (4.1" X 43.5")	
	Arm: 1-115 X 1,138 mm (4.5" X 44.8")	
	Bucket: 1-100 X 850 mm (3.9" X 33.1")	
	Blade: 2-100 X 250 mm (3.9" X 9.8")	
	2 pcs	1st: 2-105 X 995 mm (4.1" X 39.2")
Boom	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	12,000 kgf (26,455 lbf)
Max. travel speed (high / low)	5.5 km/hr (3.4 mph) / 3.3 km/hr (2.1 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



OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 4,600mm (15' 1") boom, 2,500mm (8' 2") arm, SAE heaped 0.52m³ (0.68 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	600 (24")	HX145LCR	15,160 (33,420)	0.38 (5.40)
		HX145LCR (Dozer type)	15,960 (35,190)	0.40 (5.69)
	700 (28")	HX145LCR	15,370 (33,880)	0.33 (4.69)
		HX145LCR (Dozer type)	16,170 (35,650)	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	11.2 rpm

SERVICE REFILL CAPACITIES

	() : option	
Re-filling	liter	US gal
Fuel tank	265	70.0
Engine coolant	14.5	3.8
Engine oil	10.5	2.8
Swing device	3.5 (2.5)	0.9 (0.7)
Final drive (each)	2.3	0.6
Hydraulic system (including tank)	180	47.6
Hydraulic tank	96	25.4
DEF/AdBlue® tank	19	5.0

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	
	HX145LCR	HX145CR
No. of shoes on each side	47 EA	45 EA
No. of carrier roller on each side	2 EA	2 EA
No. of track roller on each side	7 EA	7 EA
No. of rail guard on each side	1 EA	

Courtesy of Machine.Market

SPECIFICATIONS HX145LCR

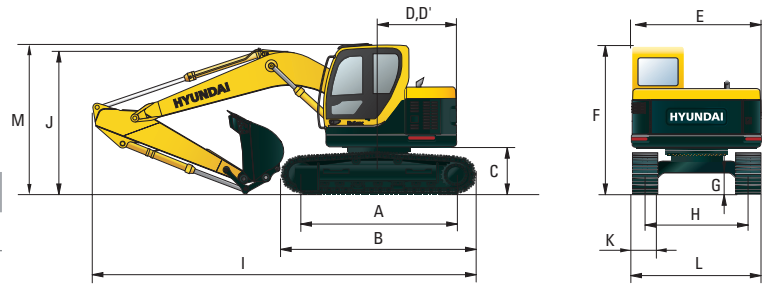
Tier 4 Final Engine

HX145CR L DIMENSIONS

Unit: mm (ft-in)

4.6 m (15' 1") BOOM and 1.9 m (6' 0"), 2.1 m (6' 11"), 2.5 m (8' 2"), 3.0 m (9' 10") ARM

A	Tumbler distance	2,910 (9' 7")
B	Overall length of crawler	3,798 (12' 4")
C	Ground clearance of counterweight	930 (3' 1")
D	Tail swing radius	1,500 (4' 11")
D'	Rear-end length	1,500 (4' 11")
E	Overall width of upperstructure	2,500 (8' 2")
F	Overall height of cab	2,900 (9' 6")
G	Min. ground clearance	440 (1' 5")
H	Track gauge	2,000 (6' 7")
M	Overall height of guardrail	3,215 (10' 7")

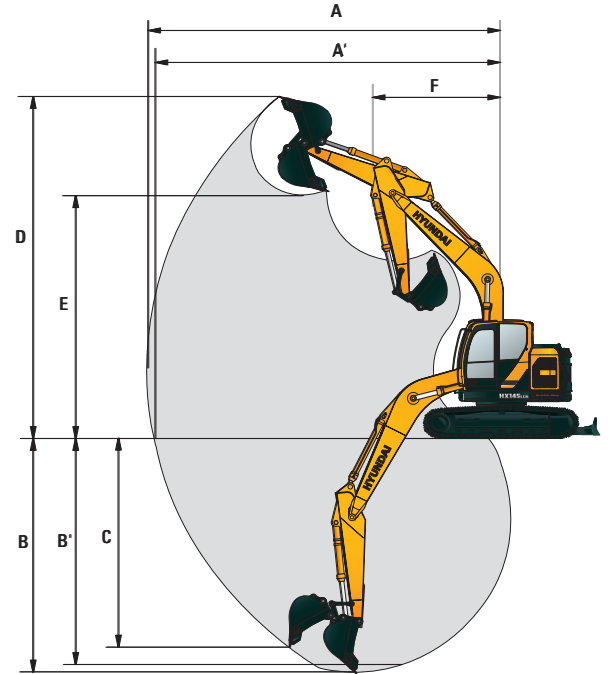


Boom length	4,600 (15' 1")			
Arm length	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")
I Overall length	7,290 (23' 11")	7,310 (23' 12")	7,270 (23' 10")	7,210 (23' 8")
J Overall height of boom	2,630 (8' 8")	2,710 (8' 11")	2,860 (9' 5")	3,210 (10' 6")
K Track shoe width	500 (20")	600 (24")	700 (28")	
L Overall width	2,500 (8' 2")	2,600 (8' 6")	2,700 (8' 10")	

HX145CR L WORKING RANGE

Unit : mm (ft-in)

Boom length	4,600 (15' 1")			
Arm length	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")
A Max. digging reach	7,730 (25' 4")	7,900 (25' 11")	8,310 (27' 3")	8,770 (28' 9")
A' Max. digging reach on ground	7,580 (24' 10")	7,750 (25' 0")	8,170 (26' 10")	8,630 (28' 4")
B Max. digging depth	4,890 (16' 1")	5,100 (16' 9")	5,500 (18' 1")	5,990 (19' 8")
B' Max. digging depth (8' level)	4,640 (15' 3")	4,870 (16' 0")	5,290 (17' 4")	5,810 (19' 1")
C Max. vertical wall digging depth	4,400 (14' 5")	4,600 (15' 1")	5,000 (16' 5")	5,400 (17' 9")
D Max. digging height	8,840 (29' 0")	8,970 (29' 5")	9,350 (30' 8")	9,730 (31' 11")
E Max. dumping height	6,350 (20' 10")	6,470 (21' 3")	6,850 (22' 6")	7,230 (23' 9")
F Min. swing radius	1,860 (6' 1")	2,030 (6' 8")	1,980 (6' 6")	2,260 (7' 5")



ATTACHMENT

Booms and arms are welded, a low-stress, full-box section design. 4.6 m (15' 1"), 4.9 m (16' 1") boom and 1.9 m (6' 3"), 2.1 m (6' 11"), 2.5 m (8' 2"), 3.0 m (9' 10") arms are available.

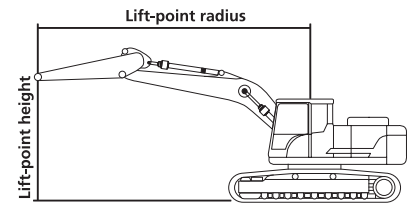
DIGGING FORCE

Arm	Length	mm (ft.in)	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")	Remark
	Weight	kg (lb)	560 (1,230)	580 (1,280)	610 (1,340)	670 (1,480)	
Bucket digging force	SAE	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	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	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	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: 4.6 m (15' 1")

Arm: 2.5 m (8' 2")

Bucket: 0.52 m³ (0.68 yd³) SAE heaped

Shoe 600 mm (24") triple grouser, CWT 2,800 kg (6,170 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)		Load 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)
6.0 m	kg											*2,740	*2,740	4.4
(20 ft)	lb											*6,050	*6,050	(14.4)
6.0 m	kg					*3,690	*3,690					*2,260	*2,260	5.97
(20 ft)	lb					*8,130	*8,130					*4,980	*4,980	(19.6)
4.5 m	kg					*3,940	*3,940	*3,720	2,660			*2,100	2,090	6.87
(15 ft)	lb					*8,680	*8,680	*8,200	5,860			*4,630	4,610	(22.5)
3.0 m	kg			*5,860	*5,860	*4,700	4,060	*3,990	2,580			*2,080	1,830	7.36
(10 ft)	lb			*12,930	*12,930	*10,360	8,940	*8,810	5,680			*4,580	4,040	(24.1)
1.5 m	kg			*10,230	7,110	*6,660	3,790	*5,190	2,460	*2,260	1,740	*2,160	1,730	7.52
(5 ft)	lb			*22,560	15,670	*14,690	8,350	*11,440	5,430	*4,980	3,830	*4,770	3,820	(24.7)
Ground	kg			*8,750	6,630	*7,390	3,570	*5,480	2,360			*2,370	1,750	7.37
Line	lb			*19,290	14,610	*16,280	7,880	*12,070	5,210			*5,220	3,860	(24.2)
-1.5 m	kg	*4,900	*4,900	*9,260	6,500	*7,340	3,470	*5,310	2,310			*2,780	1,910	6.89
(-5 ft)	lb	*10,800	*10,800	*20,420	14,330	*16,180	7,650	*11,710	5,090			*6,120	4,220	(22.6)
-3.0 m	kg	*8,490	*8,490	*9,180	6,560	*6,320	3,480	*3,400	2,350			*3,380	2,340	6.01
(-10 ft)	lb	*18,720	*18,720	*20,230	14,460	*13,940	7,660	*7,490	5,170			*7,440	5,160	(19.7)
-3.0 m	kg			*5,590	*5,590							*3,260	*3,260	4.49
(-10 ft)	lb			*12,320	*12,320							*7,190	*7,190	(14.7)

NOTES:

- Lifting capacities are based on ISO 10567.
- Lifting capacity of the Robex 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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Tier 4 Final Engine

ENGINE	STD	OPT
Perkins 1204F 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	•	
CAB & 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	•	
Warnings	•	
Communication error	•	
Low battery	•	
Clock	•	
Cabin lights	•	
Cabin front window rain guard		•

CAB & INTERIOR	STD	OPT
Seat		
Adjustable air suspension seat with heater	•	
Cabin FOPS/FOG (ISO/DIS 10262) Level 2		
FOPS (Falling Object Protective Structure)-ISO 3,449 Level 2	•	
FOG (Falling Object Guard)		•
Cabin ROPS (ISO 12117-2)		
ROPS (Roll Over Protective Structure)	•	

SAFETY	STD	OPT
Battery master switch	•	
Rearview camera	•	
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		•
Two outside rearview mirror	•	

OTHER		
Booms		
4.60 m, 15' 8"	•	
4.1 m, 13' 5"		
4.9 m, 16' 8"		
Arms		
2.1 m, 6' 11"		•
2.5 m, 8' 2"	•	
1.9 m, 6' 2"		•
3.0 m, 9' 8"		•
Removable clean-out dust net for cooler	•	
Removable reservoir tank	•	
Fuel pre-filter	•	
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		•
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 grousers shoes (500mm, 20")		•
Triple grousers shoe (600 mm, 24")	•	
Triple grousers shoe (700 mm, 28")		•
Rubber pad (500 mm, 20")		•
Track pad (500 mm, 20")		•
Track pad (600 mm, 24")		•

* 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.



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PLEASE CONTACT