## **SPECIFICATIONS** HX145A LCR

Powered By Cummins Performance Series Engine

ENGINE					
Maker / Model		Cummins F3.8			
Туре		4-cycle, turbocharged, charge air cooled, electronic controlled diesel engine.			
Rated flywheel horse power	J1995 (gross)	100 kW (134 HP) at 2,200 rpm			
	J1349 (net)	98 kW (131 HP) at 2,200 rpm			
Max. torque		100 kW (134 hp) at 2,200 rpm			
Peak torque		550 N·m (406 lb·ft) at 1,500 rpm			
Displacement	:	3.8ℓ(229 cu in)			

HYDRAULIC	SYSTEM	
MAIN PUMP		
Туре		Variable displacement tandem axis piston pumps
Max. flow		2 × 127 ℓ/min (33.5 U.S. gpm)
AUXILIARY PR	RESSURE	
2 Way	Flow (I/min)	13~69 gpm / (50~260 lpm)
2 Way	Pressure (bar)	1,450~5,076 psi / (100~350 bar)
Rotating	Flow (I/min)	11 gpm / (39.9 lpm)
	Pressure (bar)	2,321 psi / (160 bar)
PILOT PUMP		
Туре		Fixed displacement gear pump single stage
Max. flow		29.3 ℓ/min (7.7 U.S. gpm)
HYDRAULIC M	IOTORS	
Travel		Variable displacement axial piston motor
Swing		Two fixed displacement axial piston motor
RELIEF VALVE	SETTING	
Implement circuits		350 kgf/cm2 (4,980 psi)
Travel		350 kgf/cm2 (4,980 psi)
Power boost ( Boom, Arm, Bucket )		380 kgf/cm2 (5,410 psi)
Swing circuit		280 kgf/cm2 (3,990 psi)
Pilot circuit		40 kgf/cm2 (569 psi)
Service valve		Installed
DRIVES & BR	RAKES	
Drive method		Fully hydrostatic type
Drive motor		Axial piston motor, in-shoe design
Reduction sys	stem	Planetary reduction gear
Max. Drawbar	pull	12,672 kgf (27,940 lbf)
Max. Travel sp (High / Low)	beed	3.3 km/hr (2.1 mph) / 5.6 km/hr (3.5 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	
Traveling and Steering	Two levers with pedals	
Engine throttle	Electric, dial type	

# HYUNDAI CONSTRUCTION EQUIPMENT

**Net Power** 131 HP (98 kW) / 2,200 rpm

Standard Bucket .61 m<sup>3</sup>/.80 yd<sup>3</sup>/36 in **Operating Weight** 34,020 lbs (15,430 kg)

#### **OPERATING WEIGHT (APPROXIMATE)**

Operating weight, including 4.6 m (15' 1") boom, 3 m (9' 10") arm, SAE heaped 0.61 m<sup>3</sup> (0.80 yd<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipment.

#### **OPERATING WEIGHT**

Shoes		Operating Weight		Ground Pressure
Туре	Width mm(in)	kg (lb)		kgf / cm2 (psi)
	500 (20")	HX145A LCR	15,215 (33,540)	0.46 (6.49)
		HX145A LCR Dozer	16,015 (35,310)	0.48 (6.83)
	600 (24")	HX145A LCR	15,430 (34,020)	0.39 (5.49)
Triple grouser		HX145A LCR Dozer	16,240 (35,800)	0.41 (5.77)
	700 (28")	HX145A LCR	15,650 (34,500)	0.34 (4.76)
		HX145A LCR Dozer	16,465 (36,300)	0.35 (5.02)

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	11.4 rpm		
COOLANT & LUBRICANT CAPACITY			

	US gal	liter
Fueltank	55.5	210
Engine coolant	6.47	24.5
Engine oil	3.2	12
Swing device	0.9	3.5
Final drive (Each)	0.6	2.3
Hydraulic system (Including Tank)	47.6	180
Hydraulic tank	25.4	96
Def/Adblue®	7.1	27

#### 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	47	
No. of Carrier roller	2 x 2	
No. of Track roller	2 x 7	
No. of Rail guard	2	

#### CAB NOISE LEVEL

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

Operator sound pressure level (ISO 6396:2008)	71dB(A)
Exterior sound power level (ISO 6395:2008)	99 dB(A)

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

# SPECIFICATIONS **HX145**A LCR

Powered by Cummins Performance Series Engine

#### HX145A LCR MONO BOOM DIMENSIONS

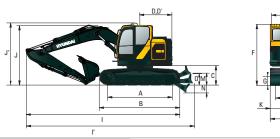
4.10 m (13' 5"), 4.60 m (15' 1") BOOM and 1.90 m (6' 3"), 2.10 m (6' 11"), 2.50 m (8' 2"), 3.00 m (9' 10") ARM

А	Tumbler Distance	3,090 (10'2")
В	Overall Length of Crawler	3,836 (12'7")
*C	Ground Clearance of Counter Weight	918 (3'0")
**D	Tail Swing Radius	1,530 (5'0")
**D'	Rear-End Length	1,530 (5'0")
E	Overall Width of Upper Structure	2,484 (8' 2")
*F	Overall Height of Cab	2,835 (9'4")
*G	Min. Ground Clearance	429 (1'5")
Н	Track gauge	1,990 (6'6")
*j'	Overall Height of Guardrail	3,105 (10' 2")

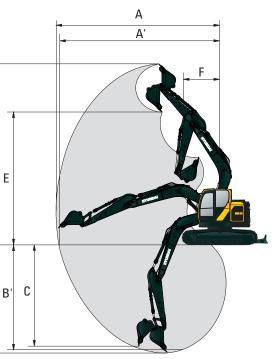
\* This figure includes the size of grousers. \*\* STD counterweight. \*\*\* With dozer blade.

#### HX14

° °				
45A LCR MONO BOOM WORKIN	G RANGE		Unit: ft·in (mm)	
Boom Length	4,600 (15' 1")			
ArmLength	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")	
Max. Digging Reach	7,890 (25' 11")	8,300 (27' 3")	8,765 (28'9")	
Max. Digging Reach on Ground	7,740 (25' 5")	8,160 (26' 9")	8,630 (28' 4")	D
Max. Digging Depth	5,040 (16' 6")	5,440 (17' 10")	5,940 (19' 6")	
Max. Digging Depth (8' Level)	4,800 (15' 9")	5,230 (17' 2")	5,760 (18' 11")	
Max. Vertical Wall Digging Depth	4,590 (15' 1")	4,990 (16' 4")	5,490 (18' 0")	
Max. Digging Height	8,990 (29' 6")	9,370 (30'9")	9,750 (32' 0")	_
Max. Dumping Height	umping Height 6,500 6,880 (21' 4") (22' 7"		7,255 (23' 10")	В
Min. Swing Radius	2,100 (6' 11")	2,050 (6' 9")	2,330 (7' 8")	



2,100	4,600 (15' 1") 2,500	
,	2 500	
(6' 11")	(8' 2")	3,000 (9' 10")
6,990 (22' 11")	6,965 (22'10")	6,885 (22'7")
7,425 (24' 4")	7,400 (24' 3")	7,320 (24'0")
2,895 (9'6")	2,925 (9'7")	3,260 (10' 8")
500 (20")	600 (24")	700 (28")
2,490 (8' 2")	2,590 (8' 6")	2,690 (8' 10")
***M Ground clearance of blade up		(1' 5")
	430 (1' 5")	
***O Height of blade		
	(6 <sup>'</sup> 11") 6,990 (22' 11") 7,425 (24' 4") 2,895 (9' 6") 500 (20") 2,490 (8' 2")	(6' 11")         (8' 2")           6,990         6,965           (22' 11")         (22' 10")           7,425         7,400           (24' 4")         (24' 3")           2,895         2,925           (9' 6")         (9' 7")           500 (20")         600 (24")           2,490 (8' 2")         2,590 (8' 6")           ade up         423 (100)



#### HX145A LCR DIGGING FORCE

А

A'

В

Β'

С

D

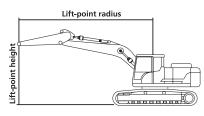
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F

Deres	Length	mm (ft·in)	4,600 (15' 1") Mono Boom				
Boom Weight		kg (lb)		1,091 (2,410)			
Arm	Length	mm (ft <sup>.</sup> in)	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")	Remark	
	Weight	kg (lb)	654 (1,440)	714 (1,570)	749 (1,650)		
		kN	88 [95]	88 [95]	88 [95]		
	SAE	kgf	8,960 [9,730]	8,960 [9,730]	8,956 [9,720]		
Bucket		lbf	19,754 [21,451]	19,754 [21,451]	19,745 [21,429]		
Digging Force		kN	103 [112]	103 [112]	103 [112]		
TOTCC		kgf	10,497 [11,400]	10,497 [11,400]	10,492 [11,390]		
		lbf	23,142 [25,133]	23,142 [25,133]	23,131 [25,111]	[]:	
		kN	74 [80]	63 [68]	56 [61]	Power Boost	
	SAE	kgf	7,506 [8,150]	6,396 [6,940]	5,711 [6,200]	Doose	
Arm		lbf	16,547 [17,968]	14,100 [15,300]	12,591 [13,669]		
Crowd Force		kN	77 [84]	65 [71]	58 [63]		
	IUICE	ISO	kgf	7,863 [8,540]	6,665 [7,240]	5,924 [6,430]	
		lbf	17,334 [18,827]	14,694 [15,961]	13,060 [14,176]		

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

#### **SPECIFICATIONS** X145A LCR Powered by Cummins Performance Series Engine



#### Lifting Capacity (Without Dozer)

Boom: 4.6 m (15' 1")

Arm: 3 m (9' 10")

7.5 m

24.6 ft

6.0 m

19.7 ft

4.5 m

14.8 ft

3.0 m

9.8 ft

1.5 m

4.9 ft

Ground

Line

-1.5 m

-4.9 ft

-4.5 m

-14.8 ft

#### Rating over front

CWT 3,300 kg (7,280 lb)

Shoe 600 mm (24") triple grouser

Lift-point radius At max. reach Lift-point 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 height ŀ **G** m (ft) ŀ ŀ H H H m (ft) \*2870 \*2870 \*2030 \*2030 \*1740 \*1740 4.70 kg \*6330 \*4480 \*3840 \*3840 lb \*6330 \*4480 (15.4) \*2630 \*2630 \*1790 \*1790 \*1450 \*1450 6.18 kg \*3200 lb \*5800 \*5800 \*3950 \*3950 \*3200 (20.3)\*2420 \*2420 \*2820 \*2820 \*2630 2330 \*1360 \*1360 7.05 kg \*3000 lb \*5340 \*5340 \*6220 \*6220 \*5800 5140 \*3000 (23.1) \*3830 \*3830 \*3780 3670 \*3290 2240 \*1450 \*1450 \*1380 \*1380 7.52 kq \*8440 \*8330 8090 \*7250 4940 \*3200 \*3040 \*3040 lb \*8440 \*3200 (24.7)\*7740 64 80 1340 7.68 kq \*17060 142 60 2950 (25.2) lb \*8890 58 90 1350 7.53 kg \*19600 129 30 2980 (24.7) lb \*4160 \*4160 \*9100 56 90 1480 7.06 kg lb \*9170 \*9170 \*20060 125 10 3260 (23.2) \*6730 \*6730 \*7880 57 50 1830 6.20 kg

#### Lifting Capacity (Without Dozer)

Boom: 4.6 m (15' 1")

lb

Arm: 3 m (9' 10")

Shoe 600 mm (24") triple grouser

\*14840

\*14840

\*17370

CWT 3,300 kg (7,280 lb)

Lift-point radius At max. reach Lift-point 6.0 m (19.7 ft) 1.5 m (4.9 ft) 3.0 m (9.8 ft) 7.5 m (24.6 ft) 4.5 m (14.8 ft) Capacity Reach height m (ft) Ŵ μ М F M М Ŵ m(ft) 7.5 m \*2870 \*2870 \*2030 \*2030 \*1740 \*1740 4.70 kg 24.6 ft lb \*6330 \*6330 \*4480 \*4480 \*3840 \*3840 (15.4) \*1790 6.0 m kg \*2630 \*2630 \*1790 \*1450 \*1450 6.18 19.7 ft \*5800 \*5800 \*3950 \*3950 \*3200 \*3200 (20.3) lb 4.5 m kg \*2420 \*2420 \*2820 \*2820 \*2630 2500 \*1360 \*1360 7.05 14.8 ft lb \*5340 \*5340 \*6220 \*6220 \*5800 5510 \*3000 \*3000 (23.1) \*1380 \*3830 \*3780 \*3780 \*3290 \*1450 \*1450 \*1380 3.0 m kg \*3830 2410 7.52 9.8 ft \*8440 \*8330 \*8330 \*7250 5310 \*3200 \*3200 \*3040 \*3040 lb \*8440 (24.7)1.5 m kg \*7740 6900 \*5020 3620 \*3880 2280 \*2010 1540 \*1480 1470 7.68 4.9 ft lb \*17060 15210 \*11070 7980 \*8550 5030 \*4430 3400 \*3260 3240 (25.2) \*5740 \*1800 \*1690 1480 \*8890 6310 3370 \*4200 2160 1490 7.53 Ground kg Line \*19600 13910 \*12650 \*9260 4760 \*3970 3280 \*3730 3260 lb 7430 (24.7)-1.5 m kg \*4160 \*4160 \*9100 6120 \*5880 3230 \*4190 2090 \*2090 1620 7.06 -4.9 ft lb \*9170 \*9170 \*20060 13490 \*12960 7120 \*9240 4610 \*4610 3570 (23.2) -4.5 m kg \*6730 \*6730 \*7880 6140 \*5250 3220 \*3520 2090 \*2950 2000 6.20 \*14840 \*14840 \*17370 13540 \*11570 7100 \*7760 4610 \*6500 4410 (20.3) -14.8 ft lb

NOTES:

1. Lifting capacities are based on ISO 10567.

2. 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.

3. The Lift-point is the bucket pivot mounting pin on the arm (without bucket mass).

4. (\*) indicates load limited by hydraulic capacity.

Rating over side or 360 degrees 📫

in accordance with ISO condition 2 standard.

6460	*5020	3370	3650	2110	*2010	1410	*1480
14240	*11070	7430	8050	4650	*4430	3110	*3260
5870	5620	3120	3520	1990	*1800	1360	*1690
12940	12390	6880	7760	4390	*3970	3000	*3730
5680	5460	2990	3440	1910			*2090
12520	12040	6590	7580	4210			*4610
5700	*5250	2970	3450	1920			*2950
12570	*11570	6550	7610	4230			*6500

### Capacities based on North American Standard Configuration

in accordance with ISO condition 2 standard.

Capacities based on North American Standard Configuration

Rating over front

4030

(20.3)

Rating over side or 360 degrees

ENGINE	STD	OPT
Cummins F3.8	OTD	011
Engine Auto Idle	•	1
Engine Auto Shutdown Control	•	
Emergency Engine Stop Switch	•	
HYDRAULIC SYSTEM	STD	OPT
INTELLIGENT POWER CONTROL (IPC) UPGRADE		
3-Power Mode, 2-Work Mode, User Mode	•	
Variable Power Control	•	
Pump Flow Control	•	
Attachment Mode Flow Control	•	
Hyundai Bio Hydraulic oil (HBHO) CAB & INTERIOR STD OPT	STD	OPT
	310	OPT
ISO STANDARD CABIN		
Rise-Up Type Windshield Wiper	•	
Radio / USB Player Handsfree Mobile Phone System with USB	•	
12V Power Outlet (24V DC to 12V DC converter)	•	
Electric Horn	•	
All-Weather Steel Cab with 360° Visibility	•	
Safety glass - Tempered glass	•	
Safety glass - Tempered glass with front laminated glass	_	•
Sliding Fold-In Front Window Sliding Side Window (LH)	•	
Lockable Door	•	
Hot & Cool Box	•	
Storage Compartment	•	
Transparent Cabin Roof-Cover	•	ļ
Sun Visor	•	
_Door And Cab Locks, One Key Pilot-Operated Slidable Joystick	•	
Adjustable L & R Consoles	•	
AUTOMATIC CLIMATE CONTROL		
Air Conditioner & Heater	•	1
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	•	
Check Engine	•	
Air Cleaner Clogging	•	
Indicators	•	
ECO Gauges	•	
Fuel Level Gauge	•	
Hyd. Oil Temperature Gauge Fuel Warmer	•	
Warnings	•	
Communication Error	•	
Low Battery	•	<u> </u>
Clock	•	
Cabin Lights	•	-
Cabin Front Window Rain Guard Cabin Roof-Steel Cover		•
SEAT		_
Adjustable Air Suspension Seat With Heater	•	
CABIN FOG (ISO 10262) LEVEL 2	-	
		-
FOG (Falling Object Protective Structure)·ISO 10262 Level 2		•
CABIN ROPS		
ROPS (Roll Over Protective Structures)·ISO 12117-2	•	1



SAFETY STD ΟΡΤ Lifting Mode . Auto Safety Lock • Seatbelt Warning Alarm • Battery Master Switch • Rear View Camera . AAVM (Advanced 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 ٠ Safety Lock Valve For Arm Cylinder • Swing Lock System Three Outside Rearview Mirrors . ATTACHMENT STD ΟΡΤ Booms 4.6 m, 15' 1" Mono • 4.9 m, 16' 1" 2-Piece • Arms 2.1 m, 6' 11" • 2.5 m, 8' 2" . 3.0 m, 9' 10' • OTHER STD OPT Fuel Pre-Filter • **Fuel Warmer** • Pre-Cleaner • Self-Diagnostics System . Hi MATE (Remote Management System) Batteries (2  $\times$  12 V  $\times$  72 AH) . Fuel Filler Pump (35 lpm) 2-Way auxiliary w Proportional control + foot pedal . Rotating Piping Kit **Quick Coupler** . One Pedal Straight Travel System Accumulator For Lowering Work Equipment • Pattern Change Valve (2 Patterns) Fine (Cushion/Free) Swing Control UNDERCARRIAGE OPT STD

Lower Frame Under Cover	•	
Track Shoes		
Triple Grousers Shoes (500 mm, 20")		•
Triple Grousers Shoes (600 mm, 24")	•	
Triple Grousers Shoe (700 mm, 28" )		•
Triple Grousers Shoe (900 mm, 36" ) - H/W Mud Application		•
Track Guard	•	
Full Track Guard - H/W		•

\* 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.

 $^{\star}$  Materials and specifications are subject to change without advance notice.

\* All imperial measurements rounded off to the nearest pound or inch.

## building a comfortable tomorrow

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