SPECIFICATIONS HX480AL

Net Power 395 HP (295 kW) at 2,100 rpm

Standard Bucket 2.6 m³ (3.41 yd³)

Operating Weight 51,920 kg (114,460 lb)



Powered By Cummins Performance Series Engine

ENGINE				
Maker / Model	Cummins / X12			
Туре	Tier 4F/ Stage V Emission Certified, 6 cylinder diesel engine with passive regeneration			
Gross Power (SAE J1995)	298 kW (400 hp) at 2,100 rpm			
Net Power (SAE J1349)	295 kW (395 hp) at 2,100 rpm			
Max. Power	300 kW (402 hp) at 1,800 rpm			
Max. Torque	1,898 N·m (1,400 lb-ft) at 1,400 rpm			
Piston Displacement	11.8 ℓ (720 cu in)			

	HYDRAULIC SYSTEM			
	MAIN PUMP			
Туре		Variable displacement axis piston pumps		
	Max. Flow	2×394 lpm (2 x 104.0 US gpm)		
	Sub-Pump For Pilot (Gear Pump)	1 × 23.9 lpm (1 x 6.3 US gpm)		
Cross-sensing and fuel saving pump system.		system.		

Cross-sensing and fuel saving pump system.				
AUXILIAR	Y PRESSURE			
2 \\/av	Flow (I/min)	26.4~200.8 gpm (100~760 lpm)		
2 Way	Pressure (bar)	2,611~4,786 psi (180~330 bar)		
D - 4 - 4 !	Flow (I/min)	15.9 gpm / (60 lpm)		
Rotating	Pressure (bar)	4,062 psi / (280 bar)		
HYDRAUL	IC MOTORS			
Travel		Two speed axial pistons motor with brake valve and parking brake		
Swing		Axial piston motor with automatic brake		
RELIEF VA	LVE SETTING			
Implement	Circuits	330kgf/cm ² (4,694 psi)		
Travel		360kgf/cm ² (5,120 psi)		
Power Boost (Boom, Arm, Bucket)		360kgf/cm² (5,120 psi)		
Swing Circu	uit	285kgf/cm ² (4,053 psi)		
Pilot Circuit		40 kgf/cm² (569 psi)		
Service Valve		Installed		
HYDRAUL	IC CYLINDERS			
N (C.1)		Boom: Ø170x1,580 mm		
No. of Cylinder		Arm : Ø 190x1.820 mm		

DRIVES & BRAKES				
Drive Method	Fully hydrostatic type			
Drive Motor	Axial piston motor, in-shoe design			
Reduction System	Planetary reduction gear			
Max. Drawbar Pull	39,674 kgf (87,466 lbf)			
Max. Travel Speed (High / Low)	3.3 km/hr (2.1 mph) / 5.3 km/hr (3.3 mph)			
Gradeability	35° (70%)			
Parking Brake	Multi wet disc			

Arm:Ø190x1,820 mm

Bucket: Ø160x1,370 mm

CONTROL

Bore X Stroke

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

Pilot Control	Two joysticks with one safety lever (LH): Swing and arm, Boom and bucket
Traveling and Steering	Two levers with pedals
Engine Throttle	Electric, dial type

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 7.06 m (23' 2") boom, 3.38 m (11' 1") arm, SAE heaped 2.2m³ (2.88 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

OPERATING WEIGHT						
Shoes		Operating Weight	Ground Pressure			
Туре	Width mm(in)	kg (lb)	kgf/cm² (psi)			
Triple	700 (28")	51,391 (113,295)	0.77 (10.9)			
Grouser	800 (32")	51,920 (114,460)	0.68 (9.6)			

SWING SYSTEM	
Swing Motor	Axial piston motor
Swing Reduction	Planetary gear reduction
Swing Bearing Lubrication	Grease-bathed
Swing Brake	Multi wet disc
Swing Speed	9.0 rpm

COOLANT & LUBRICANT CAPACITY				
	liter	US gal		
Fuel Tank	600	158.4		
Engine Coolant	43	11.3		
Engine Oil	34	9.0		
Swing Device	7	1.8		
Final Drive (Each)	13	3.4		
Hydraulic System (Including Tank)	499	131.7		
Hydraulic Tank	275	72.6		
Def/Adblue ²²	70	18.4		

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	53 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

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 shall be necessary if an operator is working in the improperly maintained 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)	70 dB(A)		
Exterior sound power level (ISO 6395:2008)	98 dB(A)		

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

SPECIFICATIONS **HX480**_A L

Powered By Cummins Performance Series Engine

HX480AL DIMENSIONS

nit: mm (

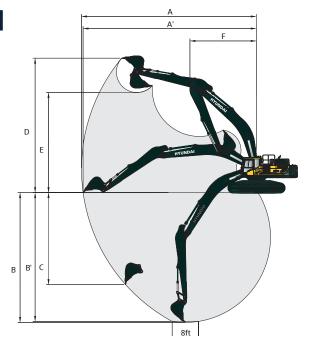
6.55 m (21' 6"), 7.06 m (23' 2"), 9.0 m (29' 6") boom and 2.4 m (7' 10"), 2.55 m (8' 4"), 2.9 m (9' 6"), 3.38 m (11' 1"), 4.0 m (13' 8"), 6.0 m (19' 8") arm

А	Tumbler distance	4,470 (14' 8")
В	Overall length of crawler	5,416 (17' 9")
*C	Ground clearance of counterweight	1,295 (4' 3")
D	Tail-swing radius	3,800 (12' 6")
D'	Rear-end length	3,665 (12' 0")
Е	Overall width of upper structure	2,980 (9' 9")
*F	Overall height of cab	3,240 (10' 8")
G	Min. ground clearance	560 (1' 10")
Н	Track gauge	2,740 (9' 0"))
*	Overall Height of Guardrail w/ Grouser	

						- 1	1.	- 1
	Boom length	6,5 (21'			,)60 ' 2")		9,000 (29' 6")
	Arm length	2,400 (7' 10")	2,550 (8' 4")	2,550 (8' 4")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")
J	Overall length	11,780 (38' 8")	11,600 (38' 1")	12,110 (39' 9")	12,170 (39' 11")	12,040 (39' 6")	12,010 (39' 5")	14,010 (46' 0")
*K	Overall height of boom	4,100 (13' 5")	3,980 (13' 1")	3,920 (12' 10")	3,900 (12' 10")	3,790 (12' 5")	4,110 (13' 6")	3,990 (13' 1")
L	Track shoe width	600 (24"		700 (28")		800 (32")		900 36")
М	Overall Width	3,34 (11' 0		3,440 (11' 3")		3,540 (11' 7")		,640 ' 11")

^{*} This figure includes the size of grousers.

Н	HX480AL WORKING RANGE Unit : mm (ft-in)									
	Boom length	gth 6,550 (21' 6")			7,060 (23' 2")					
	Arm length	2,400 (7' 10")	2,550 (8' 4")	2,550 (8' 4")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")		
А	Max. digging reach	10.650 (34' 11")	10,860 (35' 8")	11,410 (37' 5")	11,620 (38' 1")	12,040 (39' 6")	12,600 (41' 4")	16,180 (53' 1")		
Α'	Max. digging reach on ground	10,430 (34' 3")	10,640 (34' 11 ")	11,200 (36' 9")	11,410 (37' 5")	11,840 (38' 10")	12,410 (40' 9")	16,030 (52' 7")		
В	Max. digging depth	6,420 (21' 1")	6,570 (21' 7")	6,930 (22' 9")	7,280 (23' 11")	7,760 (25' 6")	8,380 (27' 6")	12,020 (39' 5")		
В'	Max. digging depth (8' level)	6,240 (20' 6")	6,400 (21' 0")	6,760 (22' 2")	7,120 (23' 4")	7,620 (25' 0")	8,250 (27' 1")	11,920 (39' 1")		
C	Max. vertical wall digging depth	4,510 (14' 10")	5,550 (18' 3")	5,720 (18' 9")	5,800 (19' 0")	5,920 (19' 5")	6,470 (21' 3")	8,510 (27' 11")		
D	Max. digging height	10,170 (33' 4")	10,580 (34' 9")	11,110 (36' 5")	10,930 (35' 10")	11,030 (36' 2")	11,260 (36' 11")	12,610 (41' 4")		
Е	Max. dumping height	6,850 (22' 6")	7,070 (23' 2")	7,570 (24' 10")	7,490 (24' 7")	7,640 (25' 1")	7,870 (25' 10")	9,410 (30' 10")		
F	Min. swing radius	4,730 (15' 6")	4,550 (14' 11")	4,780 (15' 8")	4,890 (16' 1")	4,770 (15' 8")	4,630 (15' 2")	6,040 (19' 10")		



DIGGIN	IG FORC	Œ								
Boom	Length	mm (ft.in)	6,550 ((21' 6")		7,060	(23' 2")		9,000 (29' 6")	
DOOM	Weight	kg (lb)	4,340 (9,570)			5,130 (11,310)				
Arm	Length	mm (ft.in)	2,400 (7' 10")	2,550 (8' 4")	2,550 (8' 4")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")	
AIIII	Weight	kg (lb)	2,390 (5,270)	2,350 (5,180)	2,350 (5,180)	2,590 (5,710)	2,630 (5,800)	2,720 (6,000)	3,290 (7,250)	
		kN	241.2 [263.2]	211.8 [231.0]	211.8 [231.0]	211.8 [231.0]	213.8 [233.2]	215.7 [235.4]	216.7	
		kgf	24,600 [26,840]	21,600 [23,560]	21,600 [23,560]	21,600 [23,560]	21,800 [23,780]	22,000 [24,000]	22,100	
Bucket		lbf	54,230 [59,170]	47,620 [51,940]	47,620 [51,940]	47,620 [51,940]	48,060 [52,430]	48,500 [52,910]	48,720	
Digging Force	ISO	kN	280.5 [306.0]	246.2 [268.5]	246.2 [268.5]	246.2 [268.5]	248.1 [270.7]	250.1 [272.8]	252.0	[]: Power
		kgf	28,600 [31,200]	25,100 [27,380]	25,100 [27,380]	25,100 [27,380]	25,300 [27,600]	25,500 [27,820]	25,700	Boost
		lbf	63,050 [68,780]	55,340 [60,360]	55,340 [60,360]	55,340 [60,360]	55,780 [60,850]	56,220 [61,330]	56,660	
	SAE	kN	274.6 [299.6]	232.7 [253.9]	232.7 [253.9]	220.7 [240.8]	191.2 [208.6]	170.6 [186.1]	121.6	
		kgf	28,000 [30,550]	23,730 [25,890]	23,730 [25,890]	22,500 [24,550]	19,500 [21,270]	17,400 [18,980]	12,400	
Arm		lbf	61,730 [67,350]	52,320 [57,080]	52,320 [57,080]	49,600 [54,120]	42,990 [46,890]	38,360 [41,840]	27,340	
Crowd Force	ISO	kN	287.3 [313.4]	243.2 [265.3]	243.2 [265.3]	229.5 [250.4]	198.1 [216.1]	176.5 [192.6]	124.5	
		kgf	29,300 [31,960]	24,800 [27,050]	24,800 [27,050]	23,400 [25,530]	20,200 [22,040]	18,000 [19,640]	12,700	
		lbf	64,600 [70,460]	54,670 [59,630]	54,670 [59,630]	51,590 [56,280]	44,530 [48,590]	39,680 [43,300]	28,000	

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



Lifting Capacity

Boom: 7,060 mm (23' 2") Arm: 3,380 mm (11' 1")

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

Rating over front

Bucket: 2.2 m³ (2.88 yd³) SAE heaped

			At max. reach											
Lift-point height m (ft)			At max. reach											
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
		Ū		U		P		Ū				U		m (ft)
9.0 m	kg											*7670	*7670	7.44
29.5 ft	lb											*16910	*16910	(24.4)
7.5 m	kg						*10410	*10410				*7250	*7250	8.60
24.6 ft	lb						*22950	*22950				*15980	*15980	(28.2)
6.0 m	kg						*10910	*10910	*9970	8490		*7160	*7160	9.38
19.7 ft	lb						*24050	*24050	*21980	18720		*15790	*15790	(30.8)
4.5 m	kg			*18520	*18520	*14070	*14070	*11770	11020	*10400	8310	*7280	7150	9.86
14.8 ft	lb			*40830	*40830	*31020	*31020	*25950	24290	*22930	18320	*16050	15760	(32.4)
3.0 m	kg			*22310	21880	*15900	14520	*12730	10550	*10860	8060	*7610	6740	10.10
9.8 ft	lb			*49190	48240	*35050	32010	*28060	23260	*23940	17770	*16780	14860	(33.1)
1.5 m	kg			*16400	*16400	*17220	13810	*13510	10140	*11240	7830	*8180	6600	10.11
4.9 ft	lb			*36160	*36160	*37960	30450	*29780	22350	*24780	17260	*18030	14550	(33.2)
Ground	kg			*18730	*18730	*17690	13390	*13860	9850	*11330	7660	*9100	6710	9.90
Line	lb			*41290	*41290	*39000	29520	*30560	21720	*24980	16890	*20060	14790	(32.5)
-1.5 m	kg	*13500	*13500	*22500	20300	*17250	13230	*13600	9710	*10900	7590	*10130	7140	9.43
-4.9 ft	lb	*29760	*29760	*49600	44750	*38030	29170	*29980	21410	*24030	16730	*22330	15740	(31.0)
-3.0 m	kg	*21470	*21470	*20180	*20180	*15850	13270	*12490	9730			*10050	8030	8.69
-9.8 ft	lb	*47330	*47330	*44490	*44490	*34940	29260	*27540	21450			*22160	17700	(28.5)
-4.5 m	kg	*20180	*20180	*16530	*16530	*13150	*13150	*9790	*9790			*9580	*9580	7.58
-14.8 ft	lb	*44490	*44490	*36440	*36440	*28990	*28990	*21580	*21580			*21120	*21120	(24.9)

- 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 bucket pivot mounting pin on the arm (without bucket mass).
- 4. (*) indicates load limited by hydraulic capacity.



HYDRAULIC SYSTEM		STD	OPT
INTELLIGENT POWER CONTROL	(IPC)		
3-Power Mode, 2-Work Mode, Us	er Mode	•	
Variable Power Control		•	
Pump Flow Control (Upgraded IPC)	•	
Attachment Mode Flow Control Engine Auto Idle		•	
Engine Auto Shutdown Control		•	
CAB & INTERIOR		STD	OPT
ISO STANDARD CABIN		J.D	011
Cabin Lights (LED)			•
Cabin Front Window Rain Guard			•
Cabin Roof-Steel Cover			•
Rise-Up Type Windshield Wiper		•	
Radio / USB Player	ith LICD	•	
Handsfree Mobile Phone System v 12 V Power Outlet (24 V DC to 12 V			
Electric Horn	De convener)	•	
All-Weather Steel Cab with 360° V	isibility	•	
Safety glass - Tempered glass		•	
Safety glass - Tempered glass with	n front laminated glass		•
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		•	
AUTOMATIC STARTING AID(AIR O	GRID HEATER) FOR WEATHER		
Starting Aid (Air Grid Heater) for	Cold Weather	•	
CENTRALIZED MONITORING		1	
8" LCD Display	1	•	
Engine Speed or Trip Meter / Acce Engine Coolant Temperature Gaug		•	
Max Power		•	
Low Speed / High Speed		•	
Auto Idle		•	
Overload warning with alarm			•
Check Engine		•	
Air Cleaner Clogging Indicators		•	
Eco Gauges		•	
Fuel Level Gauge		•	
Hyd. Oil Temperature Gauge		•	
Fuel Warmer		•	
Warnings		•	
Communication Error		•	
Low Battery Clock		•	
SEAT		-	
Mechanical Suspension without He	eater		•
Mechanical Suspension with Heate			•
Adjustable Air Suspension without			•
Adjustable Air Suspension with He		•	
CABIN FOG (ISO 1,0262) LEVEL 2			
FOG (Falling Object Guard)	Front & Tops Guard Top Guard		•
CABIN ROPS (ISO 1,2117-2)	10p Suulu		
ROPS (Roll Over Protective Struct	ures)	•	

SAFETY	STD	OPT
Battery Master Switch	•	
Rearview Camera	•	
AAVM (Advanced Around View Monitoring)		•
Six Front Working Lights		
(4 Boom Mounted, 2 Front Frame Mounted)		
Travel Alarm	•	
Rear Work		•
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	•	
OTHERS	STD	OPT
Removable Clean-Out Dust Net for Cooler	•	
Removable Washer Tank	•	
Fuel Pre-Filter(1,000hr)	•	
Fuel Warmer	•	
Self-Diagnostics System	•	
Hi-Mate (Remote Management System)	•	
Batteries (2 \times 12 V \times 160 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		•
Boom Floating Control		•
One Pedal Straight Travel System		•
Accumulator for Lowering Work Equipment	•	
Pattern Change Valve (2 Patterns)	•	
Tool Kit		•
BOOMS		
6.15 m, 20' 2"		•
7.06 m, 23' 2"	•	
ARMS		
2.5 m, 8' 2"		•
3.38 m, 11' 1"	•	
3.9 m, 12' 10"		•
UNDERCARRIAGE	STD	OPT
Lower Frame Under Cover (Additional)		•
Lower Frame Under Cover (Normal)	•	
TRACK SHOES	<u> </u>	
Triple Grousers Shoes (600 mm, 24")		•
Triple Grousers Shoe (700 mm, 28")		•
		_
Triple Grousers Shoe (800 mm, 32")	•	_
Triple Grousers Shoe (900 mm, 36")		•
Double Grousers Shoe (600 mm, 24")		•
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.



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