

SPECIFICATIONS

HX480L

Tier 4 Final Engine

Net Power

SAE J1349 / 424 HP
(316 kW) at 1,900 rpm

Bucket Range

1.37 - 3.2 m³
(1.8 - 4.19 yd³)

Operating Weight

51,040 kg / 112,520 lb

Standard Bucket

2.2 m³ (2.88 yd³)

ENGINE	
Maker / Model	Scania DC13 084A
Type	4-cycle air-cooled, charge air-cooled, diesel engine
Rated flywheel horsepower	SAE J1995 (gross) 444 HP (331 kW) at 1,900 rpm J1349 (net) 424 HP (316 kW) at 1,900 rpm
Max. torque	232 kgf·m (1,678 lbf·ft) at 1,250 rpm
Bore × stroke	130 × 160 mm (5.12" × 6.3")
Piston displacement	12,700 cc (775 in ³)
Batteries	2 × 12 V × 200 Ah
Starting motor	24 V - 6 kW
Alternator	24 V - 100 Amp

HYDRAULIC SYSTEM	
MAIN PUMP	
Type	Variable displacement tandem axis piston pumps
Max. flow	2 × 380.0 l/min (100.4 gpm)
Sub-pump for pilot circuit (Gear Pump)	28 l/min (7.4 gpm)

CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM	
HYDRAULIC MOTORS	
Travel	Two-speed axial pistons motor with brake motor with automatic brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	380 kgf/cm ² (5,400 psi)
Travel	330 kgf/cm ² (4,690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm ² (5,120 psi)
Swing circuit	285 kgf/cm ² (4,050 psi)
Pilot circuit	40 kgf/cm ² (569 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom: 170 x 1,570 mm (6.7 × 61.8")
	Arm: 190 x 1,820 mm (7.5 × 71.7")
	Bucket: 160 x 1,370 mm (6.3 × 53.9")

DRIVES & BRAKES	
Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	34,100 kgf (75,180 lbf)
Max. travel speed (high / low)	5.3 km/hr (3.29 mph) / 3.3 km/hr (2.05 mph)
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 7,060 mm (23' 2") boom, 3,380 mm (11' 1") arm, SAE heaped 2.2 m ³ (2.88 yd ³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, 9,700 kg (21,380 lb) counterweight and all standard equipment.	

OPERATING WEIGHT			
Shoes	Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)	kgf/cm ² (psi)
Triple grouser	700 (28")	HX480L 50,520 (111,380)	0.76 (10.81)
	800 (32")	HX480L 51,040 (112,520)	0.67 (9.53)
	900 (36")	HX480L 51,560 (113,670)	0.60 (8.53)

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	8.6 rpm

SERVICE REFILL CAPACITIES		
Re-filling	liters	US gal
Fuel tank	610	161
Engine coolant	50	13.2
Engine oil	38	10
Swing device	7	1.8
Final drive (each)	12	3.2
Hydraulic system (including tank)	480	127
Hydraulic tank	262	74
DEF/AdBlue® tank	69	18.2

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 rollers on each side	2 EA
No. of track rollers on each side	9 EA
No. of rail guards on each side	2 EA

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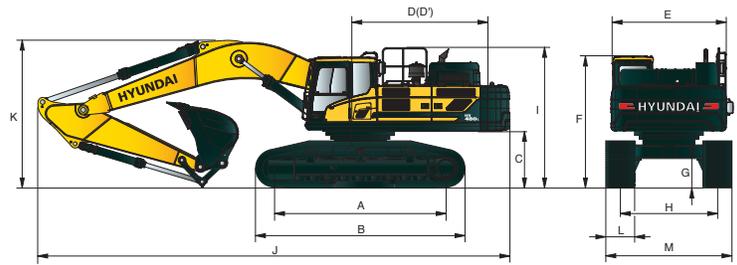
Tier 4 Final Engine

HX480L DIMENSIONS

Unit: mm (ft-in)

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

A	Tumbler distance	4,470 (14' 8")
B	Overall length of crawler	5,460 (17' 11")
C	Ground clearance of counterweight	1,295 (4' 3")
D	Tail swing radius	3,940 (12' 11")
D'	Rear-end length	3,885 (12' 9")
E	Overall width of upper structure	2,980 (9' 9")
F	Overall height of cab	3,240 (10' 6")
G	Min. ground clearance	560 (1' 8")
H	Track gauge	2,740 (9' 0")
I	Overall height of guardrail	3,450 (11' 3")

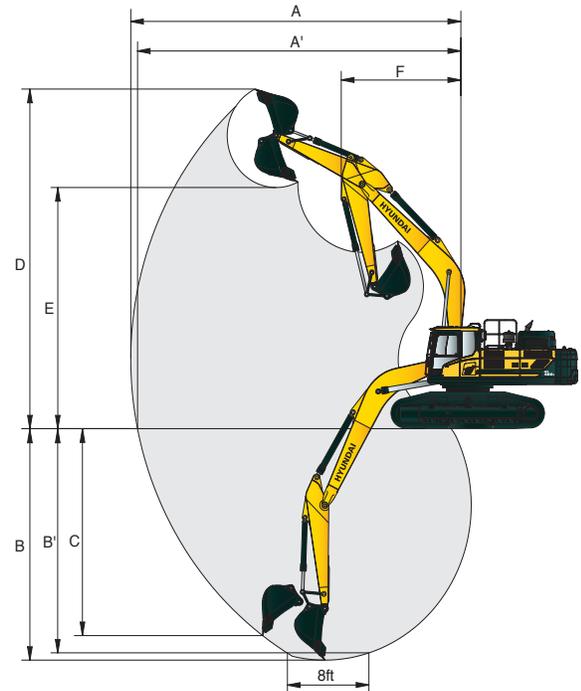


Boom length	6,550 (21' 6")		7,060 (23' 2")			9,000 (29' 6")	
Arm length	2,400 (7' 10")	2,900 (9' 6")	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 8")	6,000 (19' 8")
J Overall length	11,990 (39' 4")	11,870 (38' 11")	12,510 (41' 1")	12,390 (40' 8")	12,260 (40' 3")	12,230 (40' 1")	14,230 (46' 8")
K Overall height of boom	4,130 (13' 7")	4,050 (13' 3")	4,010 (13' 2")	3,900 (12' 10")	3,790 (12' 5")	4,110 (13' 6")	3,990 (13' 1")
L Track shoe width	600 (24")	700 (28")	750 (30")	800 (32")	900 (36")		
M Overall width	3,340 (10' 11")	3,440 (11' 3")	3,490 (11' 5")	3,540 (11' 7")	3,640 (11' 11")		

HX480L WORKING RANGE

Unit : mm (ft-in)

Boom length	6,550 (21' 6")		7,060 (23' 2")			9,000 (29' 6")	
Arm length	2,400 (7' 10")	2,900 (9' 6")	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")
A Max. digging reach	10,690 (35' 1")	11,130 (36' 6")	11,200 (36' 9")	11,620 (38' 1")	12,040 (39' 6")	12,600 (41' 4")	16,180 (53' 1")
A' Max. digging reach on ground	10,470 (34' 4")	10,910 (35' 10")	10,980 (36' 0")	11,410 (37' 5")	11,840 (38' 10")	12,410 (40' 9")	16,030 (52' 7")
B Max. digging depth	6,390 (21' 0")	6,890 (22' 7")	6,780 (22' 3")	7,280 (23' 11")	7,760 (25' 6")	8,380 (27' 6")	12,020 (39' 5")
B' Max. digging depth (8' level)	6,210 (20' 4")	6,730 (22' 1")	6,600 (21' 8")	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")	4,790 (15' 9")	5,800 (19' 0")	5,920 (19' 5")	6,470 (21' 3")	8,510 (27' 11")
D Max. digging height	10,240 (33' 7")	10,510 (34' 6")	10,600 (34' 9")	10,830 (35' 6")	10,910 (35' 10")	11,130 (36' 6")	12,440 (40' 10")
E Max. dumping height	6,890 (22' 7")	7,060 (23' 2")	7,260 (23' 10")	7,390 (24' 3")	7,540 (24' 9")	7,760 (25' 6")	9,260 (30' 5")
F Min. swing radius	4,870 (16' 0")	4,540 (14' 11")	5,160 (16' 11")	4,890 (16' 1")	4,850 (15' 11")	4,710 (15' 5")	6,140 (20' 2")



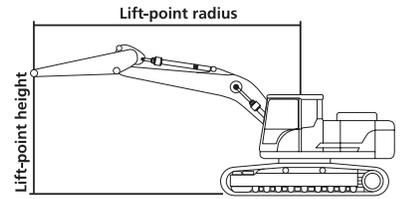
DIGGING FORCE

Boom	Length	mm (ft-in)	6,550 (21' 6")			7,060 (23' 2")			9,000 (29' 6")	[Power Boost]
	Weight	kg (lb)	4,340 (9,570)			4,370 (9,630)			5,130 (11,310)	
Arm	Length	mm (ft-in)	2,400 (7' 10")	2,900 (9' 6")	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")	
	Weight	kg (lb)	2,390 (5,270)	2,590 (5,710)	2,390 (5,270)	2,590 (5,710)	2,630 (5,800)	2,760 (6,080)	3,290 (7,250)	
Bucket digging force	SAE	kN	220.7 [240.8]	220.7 [240.8]	220.7 [240.8]	220.7 [240.8]	220.7 [240.8]	220.7 [240.8]	184.4	
		kgf	22,500 [24,550]	22,500 [24,550]	22,500 [24,550]	22,500 [24,550]	22,500 [24,550]	22,500 [24,550]	18,800	
		lbf	49,600 [54,120]	49,600 [54,120]	49,600 [54,120]	49,600 [54,120]	49,600 [54,120]	49,600 [54,120]	41,450	
	ISO	kN	255.0 [278.1]	255.0 [278.1]	255.0 [278.1]	255.0 [278.1]	255.0 [278.1]	255.0 [278.1]	213.8	
		kgf	26,000 [28,360]	26,000 [28,360]	26,000 [28,360]	26,000 [28,360]	26,000 [28,360]	26,000 [28,360]	21,800	
		lbf	57,320 [62,520]	57,320 [62,520]	57,320 [62,520]	57,320 [62,520]	57,320 [62,520]	57,320 [62,520]	48,060	
Arm crowd force	SAE	kN	276.6 [301.7]	224.6 [245.0]	276.6 [301.7]	224.6 [245.0]	191.2 [208.6]	170.6 [186.1]	103.0	
		kgf	28,200 [30,760]	22,900 [24,980]	28,200 [30,760]	22,900 [24,980]	19,500 [21,270]	17,400 [18,980]	10,500	
		lbf	62,170 [67,810]	50,490 [55,070]	62,170 [67,810]	50,490 [55,070]	42,990 [46,890]	38,360 [41,840]	23,150	
	ISO	kN	290.3 [316.7]	234.4 [255.7]	290.3 [316.7]	234.4 [255.7]	199.1 [217.2]	176.5 [192.6]	105.9	
		kgf	29,600 [32,290]	23,900 [26,070]	29,600 [32,290]	23,900 [26,070]	20,300 [22,150]	18,000 [19,640]	10,800	
		lbf	65,260 [71,190]	52,690 [57,470]	65,260 [71,190]	52,690 [57,470]	44,750 [48,830]	39,680 [43,300]	23,810	

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

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Tier 4 Final Engine



Lifting Capacity

Boom: 7.06 m (23' 2")

Arm: 3.38 m (11' 1")

Bucket: 2.20 m³ (2.88 yd³) SAE heaped

Shoe 800 mm (32") triple grouser, CWT 9,700 kg (21,380 lb)

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



Rating over front



Rating over side or 360 degree

Lift-point height m (ft)		Lift-point radius										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 m (ft)
7.5 m	kg							*12,080	11,430			*9,070	9,040	8.60
24.6 ft	lb							*26,630	25,200			*20,000	19,930	(28.2)
6.0 m	kg							*13,040	11,180	*10,010	8,300	*8,950	7,730	9.37
19.7 ft	lb							*28,750	24,640	*22,070	18,290	*19,740	17,030	(30.8)
4.5 m	kg			*21,960	*21,960	*16,760	15,050	*14,090	10,760	*12,500	8,110	*9,110	6,970	9.86
14.8 ft	lb			*48,410	*48,410	*36,960	33,190	*31,050	23,730	*27,560	17,890	*20,080	15,380	(32.4)
3.0 m	kg			*26,550	21,320	*18,980	14,170	*15,260	10,300	13,010	7,870	*9,510	6,570	10.10
9.8 ft	lb			*58,530	47,010	*41,840	31,230	*33,640	22,700	28,680	17,340	*20,980	14,490	(33.1)
1.5 m	kg			*20,120	*20,120	*20,600	13,450	*16,210	9,880	12,750	7,630	*10,030	6,430	10.11
4.9 ft	lb			*44,360	*44,360	*45,420	29,650	*35,740	21,780	28,100	16,820	*22,110	14,180	(33.2)
Ground Line	kg			*22,940	19,750	*21,200	13,020	16,440	9,580	12,550	7,460	*10,120	6,540	9.90
	lb			*50,560	43,530	*46,730	28,710	36,240	21,130	27,680	16,440	*22,300	14,420	(32.5)
-1.5 m	kg	*16,610	*16,610	*25,190	19,720	*20,710	12,860	16,280	9,440	12,480	7,390	*10,650	6,950	9.44
-4.9 ft	lb	*36,630	*36,630	*55,530	43,470	*45,660	28,340	35,880	20,820	27,510	16,290	*23,490	15,320	(31.0)
-3.0 m	kg	*25,370	*25,370	*24,280	19,900	*19,100	12,900	*15,110	9,460			*12,210	7,810	8.69
-9.8 ft	lb	*55,920	*55,920	*53,530	43,880	*42,100	28,440	*33,310	20,870			*26,910	17,220	(28.5)
-4.5 m	kg	*24,570	*24,570	*20,050	*20,050	*15,960	13,150	*11,970	9,710			*11,710	9,580	7.58
-14.8 ft	lb	*54,160	*54,160	*44,200	*44,200	*35,190	29,000	*26,390	21,420			*25,810	21,130	(24.9)

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 bucket pivot mounting pin on the arm (without bucket mass).

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



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Tier 4 Final Engine

ENGINE	STD	OPT
Scania DC13 084A engine		
HYDRAULIC SYSTEM	STD	OPT
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		•
CAB & INTERIOR	STD	OPT
ISO standard cabin		
Rise-up type windshield wiper	•	
Radio / USB player	•	
Bluetooth / hands-free mobile phone system with USB	•	
Miracast	•	
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 and cool box	•	
Storage compartment and ashtray	•	
Transparent cabin roof-cover	•	
Sun visor	•	
Door and cab locks, one key	•	
Mechanical suspension seat with heater	•	
Pilot-operated adjustable joystick	•	
Console box height adjust system	•	
Cabin lights		•
Cabin front window rain guard		•
Cabin roof-steel cover		•
Automatic climate control		
Air conditioner and heater	•	
Defroster	•	
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	•	
Hydraulic oil temperature gauge	•	
Fuel warmer	•	
Warnings	•	
Communication error	•	
Low battery	•	
Clock	•	

CAB & INTERIOR	STD	OPT
Seat		
Adjustable air suspension seat with heater	•	
Cabin FOPS/FOG		
FOG ISO 10262 Level 2	Front and top guard	•
(FOPS ISO 3449 Level 2)	Top guard	•
Cabin ROPS		
ROPS ISO 12117-2	•	
SAFETY	STD	OPT
Battery master switch	•	
Rearview camera	•	
AAVM (All-Around View Monitoring)		•
Six front working lights (4 boom mounted, 2 front frame mounted)	•	
Dual boom 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		•
Three outside rearview mirrors	•	
OTHER	STD	OPT
Booms		
6.55 m, 21' 6"		•
7.06 m, 23' 2"	•	
9.00 m, 29' 6"		•
Arms		
2.4 m, 7' 10"		•
2.9 m, 9' 6"		•
3.38 m, 11' 1"	•	
4.0 m, 13' 1"		•
6.0 m, 19' 8"		•
Removable clean-out dust net for cooler	•	
Removable reservoir tank	•	
Fuel pre-filter with fuel warmer	•	
Rain cap	•	
Pre-cleaner		•
Self-diagnostics system	•	
Hi-mate Remote Management System	Mobile Satellite	•
Batteries (2 x 12V x 200 Ah)	•	
Fuel-filler pump (50 ℓ/min / 13 gpm)		•
Lower wiper moter		•
Single-acting piping kit (breaker, etc.)		•
Double-acting piping kit (clamshell, etc.)	•	
Quick coupler piping		•
Quick coupler		•
Boom float control		•
Pilot accumulator	•	
Pattern-change valve (SAE and ISO)	•	
Tool kit		•
UNDERCARRIAGE	STD	OPT
Lower frame under cover (additional)		•
Lower frame under cover (normal)	•	
Track shoes		
Triple grouser shoes (700 mm, 28")		•
Triple grouser shoes (800 mm, 32")	•	
Triple grouser shoes (900 mm, 36")		•
Track rail guard	•	
Full track rail guard		•
3-piece type track rail guard		•

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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