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

Bucket Range 1.37 - 3.2 m³ (1.8 - 4.19 yd³) Standard Bucket 2.19 m³ (2.87 yd³) **Operating Weight** 53,680 kg / 118,340 lb

Tier 4 Final Engine

ENGINE	NGINE				
Make / model		Scania DC13 084A			
Туре		4-cycle air-cooled, charge air-cooled, diesel engine			
Rated flywheel CAE	J1995 (gross)	444 HP (331 kW) at 1,900 rpm			
horse- power	J1349 (net)	424 HP (316 kW) at 1,900 rpm			
Max. torque		232 kgf·m (1,678 lbf·ft) at 1250 rpm			
Bore X stroke		130×160 mm (5.12"×6.3")			
Piston displace	ment	12,700 cc (775 in ³)			
Batteries		2x12 V×200 Ah			
Starting motor		24 V×6 kW			
Alternator		24 V×100 A			

HYDRAULIC SYSTEM

MAIN PUMP

WAITE FORM				
Туре	Variable-displacement tandem axis piston pumps			
Max. flow	2×380.0 lpm (100.4 gpm)			
Sub-pump for pilot circuit	Gear pump			

CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

HYDRAULIC MOTORS

ITavei	automatic brake			
Swing	Axial piston motor with automatic brake			
DELLES VALVE CETTING				
RELIEF VALVE SETTING				
Implement circuits	330 kgf/cm ² (4,690 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/cm² (4,050 psi)			
Pilot circuit	40 kgf/cm² (569 psi)			
Service valve	Installed			

Two-speed axial piston motor with brake motor with

HYDRAULIC CYLINDERS

N. C. P. I	Boom: 0170 x 1,570 mm (06.7×61.8 in)
No. of cylinders bore X stroke	Arm: 0190 x 1,820 mm (07.5×71.7 in)
bole X stroke	Bucket: 0170 x 1,370 mm (06.7×53.9 in)

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 brake		

CONTRO

Pilot pressure operated joysticks and pedals provide very-low-effort 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 7,060 mm (23' 2") boom, 3,380 mm (11' 1") arm, SAE heaped 1.27 m 3 (1.66 yd 3) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, 10,700 kg (23,590 lb) counterweight and all standard equipment.

OPERATING WEIGHT

Shoes		Opera	Ground pressure	
Туре	Width mm (in)	kg (lb)		kgf/cm² (psi)
Triple	700 (28")	HX520 L	53,420 (117,770)	0.80 (11.38)
grouser	800 (32")	HX520 L	53,680 (118,340)	0.75 (10.67)

SWING SYSTEM	WING SYSTEM			
Swing motor	Fixed displacement axial piston motor			
Swing reduction	Planetary gear reduction			
Swing bearing lubrication	Grease-bathed			
Swing brake	Multi wet disc brake			
Swing speed	8.6 rpm			

SERVICE REFILL CAPACIT	IES	
Refilling	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®	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	3 ea		
No. of track rollers on each side	9 ea		
No. of rail guards on each side	2 ea		

Tier 4 Final Engine

HX520 L DIMENSIONS

Unit: mm (ft·ir

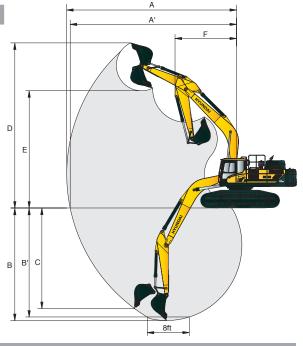
6.55 m (21' 6"), 7.06 m (23' 2"), 9.0 m (29' 6") boom and 2.4 m (7' 10"), 2.9 m (9' 6"), 3.38 m (11' 1"), 4.0 m (13' 1"), 6.0 m (19' 8") arm

Α	Tumbler distance		4,470 (14' 8")
В	Overall length of cra	wler	5,460 (17' 11")
C	Ground clearance of	counterweight	1,445 (4' 9")
D	Tail-swing radius		3,940 (12' 11")
D' Rear-end length			3,885 (12' 9")
Е	Overall width of upp	per structure	2,980 (9' 9")
F	Overall height of cal)	3,340 (10' 11")
G	Min. ground clearan	ce	770 (2' 6")
	- 1	Extended	2,940 (9' 8")
Н	Track gauge	Retracted	2,380 (7' 10")
1	Overall height of gua	ardrail	3,595 (11' 8")

m (ft·in)	THY	ONDA!	J	A	Sto.	c	F	G H
Boom le	ngth	6,5 (21)				060 ' 2")		9,000 (29' 6")
Arm leng	gth	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")
		12.000	11 070	12 510	12 200	12.200	12.250	1 1 200

	Boom length		,	6")		,	' 2")	(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 leng	gth	12,000 (39' 4")	11,870 (38' 11")	12,510 (41' 1")	12,380 (40' 7")	12,260 (40' 3")	12,250 (40' 2")	14,200 (46' 7")
K	Overall heighboom	ght of	4,190 (13' 9")	4,080 (13' 5")	4,070 (13' 4")	3,920 (12' 10")	3,790 (12' 5")	4,090 (13' 5")	3,960 (13' 0")
L	Track shoe	600 (24")	700 (28	")	750 (30")	80	0 (32")	
М	Overall Ext	tended	3,540 (11' 7")		3,640 (11' 11'		3,690 (12' 1")	3,740 (12' 3")	
IVI	width Re	tracted	2,980 (9' 10")		3,080 (10' 1")		3,130 (10' 3")		3,180 0' 5")

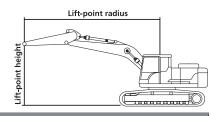
	HX520 L WORKING RANGE Unit : mm (ft-in									
	Boom length	6,5 (21'			7,060 (23' 2")					
	Arm length	2,400 (7' 10")	2,900 (9' 6")	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	6,000 (19' 8")		
А	Max. digging reach	10,690 (35' 1")	11,130 (36' 6")	11,200 (36' 9")	11,620 (38' 1")	12,040 (39' 6")	12,600 (41' 4")	16,180 (53' 1")		
A'	Max. digging reach on ground	10,430 (34' 3")	10,870 (35' 8')	10,950 (35' 11")	11,380 (37' 4")	11,810 (38' 9")	12,380 (40' 7")	16,010 (52' 6")		
В	Max. digging depth	6,240 (20' 6")	6,740 (22' 1")	6,630 (21' 9")	7,130 (23' 5")	7,610 (25' 0")	8,230 (27' 0")	11,870 (38' 11")		
B'	Max. digging depth (8' level)	6,060 (19' 11")	6,580 (21' 7")	6,460 (21' 2")	6,980 (22' 11")	7,470 (24' 6")	8,110 (26' 7")	11,770 (38' 7")		
С	Max. vertical wall digging depth	4,370 (14' 4")	5,420 (17' 9")	4,650 (15' 3")	5,660 (18' 7")	5,770 (18' 11")	6,320 (20' 9")	8,360 (27' 5")		
D	Max. digging height	10,390 (34' 1")	10,660 (35' 0")	10,750 (35' 3")	10,980 (36' 0")	11,060 (36' 3")	11,280 (37' 0")	12,590 (41' 4")		
Е	Max. dumping height	7,040 (23' 1")	7,210 (23' 8")	7,410 (24' 4")	7,540 (24' 9")	7,690 (25' 3")	7,910 (25' 11")	9,410 (30' 10")		
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 F	ORCE									
Doom	Length	mm (ft·in)	6,5 (21)			,	060 ' 2")		9,000 (29' 6")	
Boom	Weight	kg (lb)	4,3 (9,5	340 570)			370 530)		5,130 (11,310)	Domark
Δ #100	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")	Remark
Arm	Weight	kg (lb)	2,430 (5,360)	2,630 (5,800)	2,430 (5,360)	2,630 (5,800)	2,670 (5,890)	2,760 (6,080)	3,290 (7,250)	
		kN	241.2 [263.2]	241.2 [263.2]	241.2 [263.2]	241.2 [263.2]	241.2 [263.2]	241.2 [263.2]	184.4	
	SAE	kgf	24600 [26840]	24600 [26840]	24600 [26840]	24600 [26840]	24600 [26840]	24600 [26840]	18800	
Bucket		lbf	54230 [59170]	54230 [59170]	54230 [59170]	54230 [59170]	54230 [59170]	54230 [59170]	41450	
digging force		kN	280.5 [306.0]	280.5 [306.0]	280.5 [306.0]	280.5 [306.0]	280.5 [306.0]	280.5 [306.0]	213.8	
	ISO	kgf	28600 [31200]	28600 [31200]	28600 [31200]	28600 [31200]	28600 [31200]	28600 [31200]	21800	
		lbf	63050 [68780]	63050 [68780]	63050 [68780]	63050 [68780]	63050 [68780]	63050 [68780]	48060	[]:
		kN	278.5 [303.8]	225.6 [246.1]	278.5 [303.8]	225.6 [246.1]	192.2 [209.7]	171.6 [187.2]	103.0	Power Boost
	SAE	kgf	28400 [30980]	23000 [25090]	28400 [30980]	23000 [25090]	19600 [21380]	17500 [19090]	10500	
Arm		lbf	62610 [68300]	50710 [55310]	62610 [68300]	50710 [55310]	43210 [47130]	38580 [42090]	23150	
crowd force		kN	291.3 [317.7]	235.4 [256.7]	291.3 [317.7]	235.4 [256.7]	200.1 [218.2]	177.5 [193.7]	105.9	
	ISO	kgf	29700 [32400]	24000 [26180]	29700 [32400]	24000 [26180]	20400 [22250]	18100 [19750]	10800	
		lbf	65480 [71430]	52910 [57720]	65480 [71430]	52910 [57720]	44970 [49050]	39900 [43540]	23810	

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

Tier 4 Final Engine



Lifting Capacity

Boom: 7.06 m (23′2′) Arm: 3.38 m (11′1′)

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

Bucket: 2.20 m³ (2.88yd³) SAE heaped

Rating over-front

Shoe 800 mm (32") triple grouser, CWT 10,700 kg (23,590 lb)

Rating over-side or 360 degree

				, (11)			radius					At max. reach							
Load point height (m / 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)		9.0 m (29.5 ft)		Capacity		Reach					
		P		P		P		P		P				m (ft)					
7.5 m	kg							*12,320	*12,320			*8,520	*8,520	8.69					
24.6 ft	lb							*27,160	*27,160			*18,790	*18,790	(28.5)					
6.0 m	kg							*13,110	12,850	*10,380	9,610	*8,440	*8,440	9.43					
19.7 ft	lb							*28,900	28,330	*22,890	21,180	*18,610	*18,610	(31.0)					
4.5 m	kg			*22,420	*22,420	*16,970	*16,970	*14,180	12,420	*12,540	9,410	*8,610	8,090	9.90					
14.8 ft	lb			*49,440	*49,440	*37,410	*37,410	*31,260	27,390	*27,640	20,750	*18,980	17,820	(32.5)					
3.0 m	kg			*24,650	*24,650	*19,160	16,450	*15,350	11,950	*13,110	9,160	*9,020	7,670	10.11					
9.8 ft	lb			*54,350	*54,350	*42,230	36,260	*33,830	26,340	*28,890	20,190	*19,880	16,920	(33.2)					
1.5 m	kg			*18,980	*18,980	*20,690	15,740	*16,260	11,530	*13,550	8,930	*9,720	7,560	10.10					
4.9 ft	lb			*41,850	*41,850	*45,610	34,700	*35,850	25,420	*29,880	19,680	*21,420	16,660	(33.1)					
0.0 m	kg			*22,300	*22,300	*21,180	15,330	*16,650	11,250	13,450	8,760	*10,100	7,730	9.86					
0.0 ft	lb			*49,160	*49,160	*46,680	33,800	*36,700	24,800	29,660	19,310	*22,280	17,040	(32.4)					
-1.5 m	kg	*16,590	*16,590	*25,980	23,510	*20,580	15,190	*16,290	11,120	*13,070	8,700	*10,820	8,250	9.38					
-4.9 ft	lb	*36,590	*36,590	*57,280	51,820	*45,380	33,480	*35,910	24,510	*28,800	19,180	*23,860	18,190	(30.8)					
-3.0 m	kg	*24,940	*24,940	*23,920	23,720	*18,840	15,250	*14,890	11,160			*12,160	9,330	8.60					
-9.8 ft	lb	*54,980	*54,980	*52,730	52,290	*41,540	33,620	*32,820	24,600			*26,820	20,570	(28.2)					
-4.5 m	kg	*23,780	*23,780	*19,490	*19,490	*15,500	*15,500					*11,590	11,550	7.45					
-14.8 ft	lb	*52,430	*52,430	*42,960	*42,960	*34,180	*34,180					*25,550	25,470	(24.4)					

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.



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 slidable joystick	•	
Console box height adjust system	•	
Automatic climate control		
Air conditioner and 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	-	
Fuel warmer Warnings	•	
Communication error	•	
Low battery	•	
Clock	•	
Cabin lights	•	
Cabin front window rain guard		•
Cabin roof-steel cover		•

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) Four front working lights	•	_
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 Three outside rearview mirrors	•	_
Three outside real view militors	•	_
OTHER	STD	OP
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 Pre-cleaner		•
Self-diagnostics system	•	
Hi-mate remote management system Mobile	•	
Satellite Satellite		•
Batteries (2 x 12V x 200 AH) Fuel-filler pump (50 lpm / 13 gpm)		•
Single-acting piping kit (breaker, etc.)		•
Double-acting piping kit (clamshell, etc.)	•	
Rotating Piping Kit		•
Quick coupler piping		•
Quick coupler		•
Boom float control		•
Pilot accumulator	•	
Pattern-change valve (SAE and ISO) Tool kit	•	•
UNDERCARRIAGE	CTD	
	STD	OP
Lower frame under cover (additional) Lower frame under cover (normal)		•
Track shoes (700 2011)		
Triple grouser shoes (700 mm, 28")		•
·		
Triple grouser shoes (800 mm, 32") Track rail quard	•	

NOTE: Standard and optional equipment may vary. Materials and specifications are subject to change without advance notice. Contact your Hyundai dealer for more information.



www.hceamericas.com 6100 Atlantic Blvd., Norcross, GA 30071 TEL (678) 823 7777 FAX (678) 823 7778



Made in the U.S.A. 1012-EX-SP Rev 10/2016