

SPECIFICATIONS

HX520L

Tier 4 Final Engine

Net Power SAE J1349 / 424 HP (316 kW) at 1,900 rpm	Bucket Range 1.8 yd ³ - 4.19 yd ³ Standard Bucket 2.87 yd ³	Operating Weight 52,400 kg / 115,520 lbs
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ENGINE		
Maker / Model	Scania DC13 084A	
Type	4-cycle turbocharged, charge air cooled, diesel engine	
Rated flywheel horse power	SAE J1995 (gross)	444 HP (331 kW) at 1,900 rpm
	SAE J1349 (net)	424 HP (316 kW) at 1,900 rpm
	DIN 6271/1 (gross)	450 PS (331 kW) at 1,900 rpm
	DIN 6271/1 (net)	430 PS (316 kW) at 1,900 rpm
Max. torque	232 kgf-m (1,678 lbf-ft) at 1250 rpm	
Bore X stroke	130x160 mm (5.12" x 6.3")	
Piston displacement	12,700 cc (775 in ³)	
Batteries	24 Vx200 Ah	
Starting motor	24 Vx6 kW	
Alternator	24 Vx100 A	

HYDRAULIC SYSTEM	
MAIN PUMP	
Type	Variable displacement tandem axis piston pumps
Max. flow	2x380.0 lpm (100.4 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	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/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: Ø6.7x61.8 in
	Arm: Ø7.5x71.7 in
	Bucket: Ø6.7x53.9 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

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 6,250mm (20' 6") boom, 3,050mm (10' 0") arm, SAE heaped 1.27m ³ (1.66 yd ³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.	

OPERATING WEIGHT		Operating weight		Ground pressure
Shoes	Type	Width mm (in)	kg (lb)	kgf/cm ² (psi)
Triple grouser	600 (24") HX520 L	700 (28")	52,400 (115,520)	0.91 (12.94)
		800 (32")	52,920 (116,670)	0.79 (11.23)
			53,180 (117,240)	0.74 (10.52)
Double grouser	600 (24") HX520 L	700 (28")	52,215 (115,110)	0.91 (12.94)
			52,735 (116,260)	0.78 (11.09)
Heavy duty grouser	600 (24") HX520 HD	700 (28")	52,580 (115,920)	0.91 (12.94)
			53,130 (117,130)	0.79 (11.2)



SWING 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 CAPACITIES		
	liters	US gal
Re-filling		
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)	486	128
Hydraulic tank	262	74
DEF/AdBlue®	69	18.2

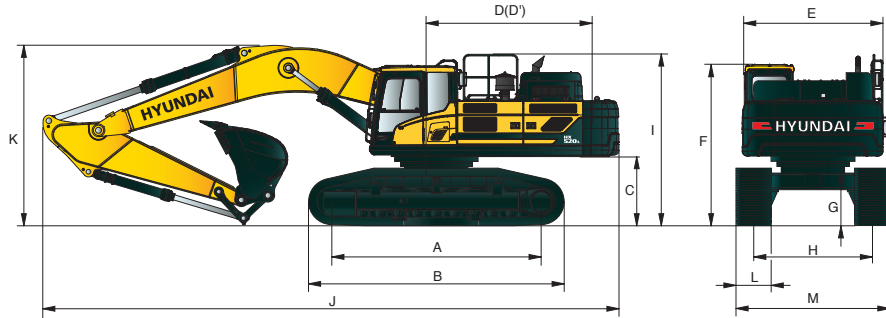
UNDERCARRIAGE	
The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.	
Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	53 EA
No. of carrier roller on each side	3 EA
No. of track roller on each side	9 EA
No. of rail guard on each side	2 EA

SPECIFICATIONS HX520L

Tier 4 Final Engine

HX520 L DIMENSIONS

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



A	Tumbler distance	4,470 (14' 8")	
B	Overall length of crawler	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")	
E	Overall width of upperstructure	2,980 (9' 9")	
F	Overall height of cab	3,340 (10' 11")	
G	Min. ground clearance	770 (2' 6")	
H	Track gauge	Extended	2,940 (9' 8")
		Retracted	2,380 (7' 10")
I	Overall height of guardrail	3,595 (11' 8")	

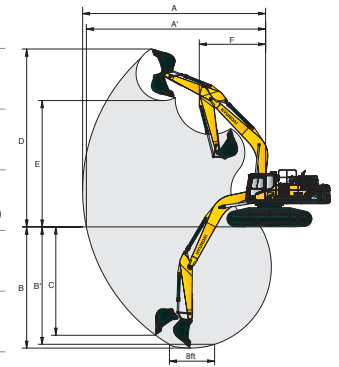
Unit : mm (ft-in)

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' 8")	6,000 (19' 8")
J Overall length	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 height of boom	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 width	600 (24")		700 (28")		750 (30")		800 (32")
M Overall width	Extended	3,540 (11' 7")	3,640 (11' 11")	3,690 (12' 1")	3,740 (12' 3")		
		Retracted	2,980 (9' 10")	3,080 (10' 1")	3,130 (10' 3")	3,180 (10' 5")	

HX520 L 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	10,430 (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")
B 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")
C 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")
E 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 FORCE

Boom	Length	mm (ft-in)	6,550 (21' 6")				7,060 (23' 2")		9,000 (29' 6")	Remark	
			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)	2,430 (5,360)		2,630 (5,800)		2,430 (5,360)	2,630 (5,800)	2,670 (5,890)	2,760 (6,080)
Bucket digging force	SAE	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]	241.2 [263.2]	184.4	
		kgf	24600 [26840]	24600 [26840]	24600 [26840]	24600 [26840]	24600 [26840]	24600 [26840]	24600 [26840]	18800	
		lbf	54230 [59170]	54230 [59170]	54230 [59170]	54230 [59170]	54230 [59170]	54230 [59170]	54230 [59170]	41450	
	ISO	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]	280.5 [306.0]	213.8	
		kgf	28600 [31200]	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]	63050 [68780]	48060	
Arm crowd force	SAE	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		
		kgf	28400 [30980]	23000 [25090]	28400 [30980]	23000 [25090]	19600 [21380]	17500 [19090]	10500		
		lbf	62610 [68300]	50710 [55310]	62610 [68300]	50710 [55310]	43210 [47130]	38580 [42090]	23150		
	ISO	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		
		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

SPECIFICATIONS

HX520L

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 / Handsfree 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 & 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	STD	OPT
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		●
Seat		
Adjustable air suspension seat with heater	●	
Cabin FOPS/FOG		
FOPS (Falling Object Protective Structures) ISO 3449 Level 2		●
FOG (Falling Object Guard) Front & Top Guard		●
ISO/DIS 10262 Level 2 Top Guard		●
Cabin ROPS		
ROPS (Roll Over Protective Structures) 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	●	

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 lpm / 13 gpm)		●
Single-acting piping kit (breaker, etc.)		●
Double-acting piping kit (clamshell, etc.)	●	
Rotating Piping Kit		●
Quick coupler piping		●
Quick coupler		●
Boom floating control		●
Accumulator for lowering work equipment	●	
Pattern change valve (2 patterns)		●
Tool kit		●
UNDERCARRIAGE	STD	OPT
Lower frame under cover (Additional)		●
Lower frame under cover (Normal)	●	
Track shoes		
Triple grousers shoes (600mm, 24")		●
Triple grousers shoe (700 mm, 28")		●
Triple grousers shoe (750 mm, 30")		●
Triple grousers shoe (800 mm, 32")	●	
Double grousers shoe (600 mm, 24")		●
Double grousers shoe (700 mm, 28")		●
Heavy duty grousers shoe (600 mm, 24")		●
Heavy duty grousers shoe (700 mm, 28")		●
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.

PLEASE CONTACT



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