SPECIFICATIONS
HX180L

Tier 4 Final Engine

Net Power
SAE J1349 / 128 HP
(96 kW) at 2,050 rpm

Bucket Range
0.39 m³ - 1.05 m³
(0.51 yd³ - 1.37 yd³)
Standard Bucket
0.76 m³ (0.99 yd³)

Operating Weight
19,484 kg (42,955 lb)

ENGINE

Make / model			Perkins 1204F Tier 4 Final
Type			Water cooled, 4-cycle diesel, 4 cylinders in line, direct injection, turbocharged and air cooled
Rated flywheel horsepower	SAE	J1995 (gross)	137 HP (102.1 kW) / 2,050 rpm
		J1349 (net)	128 HP (96 kW) / 2,050 rpm
Max. torque			57.1 kgf·m (413 lbf·ft) / 1,400 rpm
Bore × stroke			105 x 127 mm (4.13" x 5.0")
Piston displacement			4,400 cc (268.5 in³)
Batteries			2 x 12 V x 100 Ah
Starting motor			24 V - 4.5 kW
Alternator			24 V - 100 Amp

HYDRAULIC SYSTEM

MAIN PUMP

Type	Two variable displacement piston pumps
Max. flow	2 x 164 ℓ/min (43.3 US gpm)
Sub-pump for pilot circuit (Gear Pump)	31.5 ℓ/min (8.3 gpm)

CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

HYDRAULIC MOTORS

Travel	Two-speed axial piston motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING

Implement circuits	400 kgf/cm² (5,690 psi)
Travel	350 kgf/cm² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,400 psi)
Swing circuit	285 kgf/cm² (4,050 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinders bore X stroke	Boom: 2-115 x 1,090 mm (4.5" x 42.9")
	Arm: 1-120 x 1,355 mm (4.7" x 53.3")
	Bucket: 1-110 x 995 mm (4.3" x 39.2")
	Blade: 2-110 x 320 mm (4.3" x 12.6")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Two-speed axial pistons motor
Reduction system	Planetary reduction gear
Max. drawbar pull	17,000 kgf (37,500 lbf)
Max. travel speed (high / low)	5 km/hr (3.1 mph) / 3.2 km/hr (2.0 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 (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, dial type

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,100 mm (16' 9") boom, 2,600 mm (8' 6") arm, SAE heaped 0.76 m³ (0.99 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, max 3,250 kg (7,165 lb) counterweight and all other standard equipment.

OPERATING WEIGHT

Shoes		Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)		kg f / cm² (psi)
Triple grouser	600 (24")	HX180L	19,230 (42,395)	0.44 (6.26)
	700 (28")	HX180L	19,484 (42,955)	0.39 (5.53)
	800 (32")	HX180L	19,738 (43,515)	0.34 (4.80)

SWING SYSTEM

Swing motor	Axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	10.3 rpm

SERVICE REFILL CAPACITIES

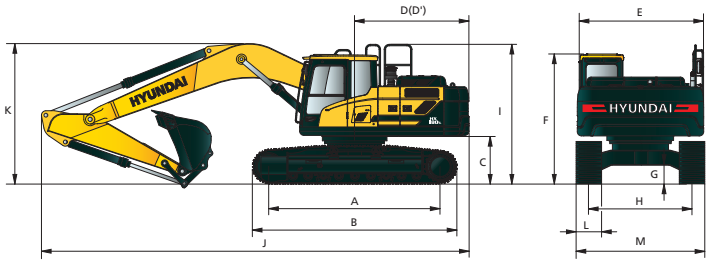
Refilling	liters	US gal
Fuel tank	290	76.6
Engine coolant	27.5	7.3
Engine oil	10.5	2.8
Swing device	6.2	1.6
Final drive (each)	5.8	1.5
Hydraulic system (including tank)	240	63.4
Hydraulic tank	125	33.0
DEF/AdBlue® tank	19	5.0

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	51 EA
No. of carrier rollers on each side	2 EA
No. of track rollers on each side	7 EA
No. of rail guards on each side	1 EA

SPECIFICATIONS
HX180L
Tier 4 Final Engine



HX180L DIMENSIONS

Unit: mm (ft·in)

5.68 m (18′ 8″) boom and 2.0 m (6′ 7″), 2.4 m (7′ 10″), 2.92 m (9′ 7″), 3.9 m (12′ 10″) arm

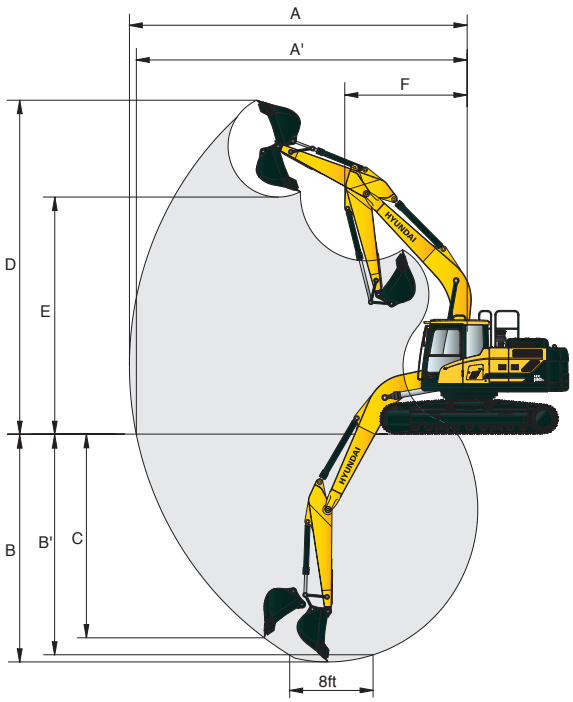
A	Tumbler distance	3,360 (11′ 0″)
B	Overall length of crawler	4,116 (13′ 6″)
C	Ground clearance of counterweight	1,055 (3′ 6″)
D	Tail swing radius	2,480 (8′ 2″)
D′	Rear-end length	2,480 (8′ 2″)
E	Overall width of upper structure	2,475 (8′ 1″)
F	Overall height of cab	2,980 (9′ 9″)
G	Min. ground clearance	460 (1' 6")
H	Track gauge	2,250 (7' 5")
I	Overall height of guardrail	3,235 (10' 7")

	Boom length		5,100 (16' 9")	
	Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
J	Overall length	8,660 (28' 5")	8,650 (28' 5")	8,650 (28' 5")
K	Overall height of boom	3,010 (9' 11")	2,990 (9' 10")	3,150 (10' 4")
L	Track shoe width	500 (20")	600 (24")	700 (28")
M	Overall width	2,750 (9′ 0″)	2,850 (9′ 4″)	2,950 (9′ 8″)

HX180L WORKING RANGE

Unit : mm (ft·in)

	Boom length		5,100 (16' 9")	
	Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
A	Max. digging reach	8,690 (28' 6")	9,020 (29' 7")	9,450 (31' 0")
A′	Max. digging reach on ground	8,530 (28' 0")	8,860 (29' 1")	9,300 (30' 6")
B	Max. digging depth	5,660 (18' 7")	6,060 (19' 11")	6,560 (21' 6")
B′	Max. digging depth (8' level)	5,430 (17' 10")	5,850 (19' 2")	6,370 (20' 11")
C	Max. vertical wall digging depth	5,120 (16' 10")	5,380 (17' 8")	5,710 (18' 9")
D	Max. digging height	8,750 (28' 8")	8,840 (29' 0")	8,980 (29' 6")
E	Max. dumping height	6,110 (20' 1")	6,220 (20' 5")	6,390 (21' 0")
F	Min. swing radius	3,180 (10' 5")	3,170 (10' 5")	3,170 (10' 5")



DIGGING FORCE

Arm	Length	mm (ft·in)	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")	
	Weight	kg (lb)	750 (1,560)	810 (1,790)	890 (1,960)	
Bucket digging force	SAE	kN	107.9 [117.2]	107.9 [117.2]	107.9 [117.2]	[Power Boost]
		kgf	11,000 [11,940]	11,000 [11,940]	11,000 [11,940]	
		lbf	24,250 [26,330]	24,250 [26,330]	24,250 [26,330]	
	ISO	kN	123.6 [134.2]	123.6 [134.2]	123.6 [134.2]	
		kgf	12,600 [13,680]	12,600 [13,680]	12,600 [13,680]	
		lbf	27,780 [30,160]	27,780 [30,160]	27,780 [30,160]	
Arm crowd force	SAE	kN	87.2 [94.7]	77.3 [83.9]	69.0 [74.9]	
		kgf	8,890 [9,650]	7,880 [8,560]	7,030 [7,630]	
		lbf	19,600 [21,280]	17,370 [18,860]	15,500 [16,830]	
	ISO	kN	91.0 [98.8]	80.3 [87.2]	71.4 [77.5]	
		kgf	9,280 [10,080]	8,190 [8,890]	7,280 [7,900]	
		lbf	20,460 [22,210]	18,060 [19,600]	16,050 [17,430]	

Note : Arm weight includes bucket cylinder, linkage, and pin

SPECIFICATIONS
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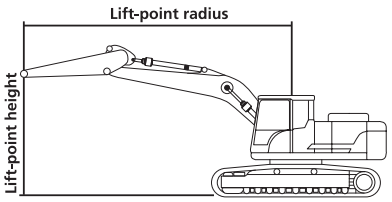
Tier 4 Final Engine



Lifting Capacity

Boom: 5,100 mm (16′ 9″)
Arm: 2,600 mm (8′ 6″)
Bucket: 0.76 m³ (1.0 yd³) SAE heaped
Shoe: 700 mm (28″) triple grouser, CWT 3,250 kg (7,165 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		
		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
														m (ft)
6.0 m	kg							*3,810	*3,810			*2,850	*2,850	6.78
(19.7 ft)	lb							*8,400	*8,400			*6,290	*6,290	(22.2)
4.5 m	kg							*4,360	*4,360	*2,980	*2,980	*2,760	*2,760	7.55
(14.8 ft)	lb							*9,600	*9,600	*6,560	*6,560	*6,080	*6,080	(24.8)
3.0 m	kg			*9,340	*9,340	*6,570	6,520	*5,470	4,240	*4,140	3,020	*2,800	2,740	7.97
(9.8 ft)	lb			*20,590	*20,590	*14,490	14,380	*12,070	9,340	*9,130	6,650	*6,180	6,030	(26.1)
1.5 m	kg			*7,940	*7,940	*8,260	6,140	6,170	4,070	4,410	2,940	*2,970	2,630	8.09
(4.9 ft)	lb			*17,500	*17,500	*18,200	13,540	13,590	8,960	9,720	6,480	*6,560	5,790	(26.5)
Ground Line	kg			*7,130	*7,130	*9,370	5,880	6,010	3,930	4,340	2,880	*3,310	2,670	7.91
	lb			*15,710	*15,710	*20,660	12,950	13,250	8,650	9,560	6,340	*7,300	5,880	(26.0)
-1.5 m	kg	*5,530	*5,530	*10,100	*10,100	9,260	5,760	5,930	3,850			*3,940	2,890	7.43
(-4.9 ft)	lb	*12,200	*12,200	*22,280	*22,280	20,420	12,700	13,070	8,490			*8,680	6,370	(24.4)
-3.0 m	kg	*9,310	*9,310	*13,130	10,970	*8,970	5,770	5,940	3,860			*4,690	3,430	6.57
(-9.8 ft)	lb	*20,530	*20,530	*28,950	24,180	*19,780	12,720	13,100	8,520			*10,330	7,570	(21.6)
-4.5 m	kg			*10,050	*10,050	*6,880	5,920					*5,640	4,920	5.14
(-14.8 ft)	lb			*22,160	*22,160	*15,170	13,050					*12,430	10,850	(16.9)

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.

SPECIFICATIONS
HX180L
Tier 4 Final Engine

ENGINE	STD	OPT
Perkins 1204F 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		•
Electronic fan control	•	

CAB & INTERIOR	STD	OPT
ISO Standard cabin		
Rise-up type windshield wiper	•	
Radio / usb player	•	
Bluetooth / hands-free mobile phone system with USB	•	
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	•	
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	•	
Hydraulic oil temperature gauge	•	
Warnings	•	
Communication error	•	
Low battery	•	
Clock	•	

CAB & INTERIOR		STD	OPT
Seat			
Adjustable air suspension seat with heater		•	
Cabin FOG/FOPS			
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 (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		•
Safety lock valve for arm cylinder		•
Swing lock system		•
Three outside rearview mirrors	•	

OTHER		STD	OPT
Booms			
5.1 m, 16' 9" 1-piece		•	
5.1 m, 16' 9" 2-piece			•
Arms			
2.2 m, 7' 3"			•
2.6 m, 8' 6"			•
3.1 m, 10' 2"		•	
Removable clean-out dust net for cooler		•	
Removable reservoir tank		•	
Fuel pre-filter		•	
Fuel warmer			•
Self-diagnostics system		•	
Hi-Mate Remote Management System	Mobile	•	
	Satellite		•
Batteries (2 x 12V x 100 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 float control			•
Pilot accumulator		•	
Pattern change valve (SAE and ISO)		•	
Fine swing control system			•
Tool kit			•

UNDERCARRIAGE	STD	OPT
Lower frame under cover (Additional)		•
Lower frame under cover (Normal)	•	
Track shoes		
Triple grouser shoes (600 mm, 24")		•
Triple grouser shoes (700 mm, 28")	•	
Triple grouser shoes (800 mm, 32")		•
Triple grouser shoes (500 mm, 20")		•
Track rail guard	•	
Full 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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