

HX1000AL SPECIFICATIONS

Gross Power
628.9 hp
(469 kW)
at 2,100 rpm

Operating Weight
Standard arm:
220,880 lb
(100,400 kg)

Arm Crowd Force (ISO)
Standard arm:
79,850 lbf
(36,220 kgf)

Bucket Digging Force (ISO)
Standard arm:
88,185 lbf
(40,000 kgf)

ENGINE		
Make		Perkins
Model		2806J
Emissions certification		Tier 4 Final
Number of cylinders		6
Rated power, gross (SAE J1995)	hp (kW)	628.9 (469) @ 2,100 rpm
Max. torque, gross (SAE J1995)	lbf·ft (Nm)	2,178 (2,951) @ 1,300 rpm
Displacement	in ³ (ℓ)	1,105 (18.1)
Bore and stroke	in (mm)	5.7 × 7.2 (145 × 183)
Starter	hp (kW)	12.1 (9.0), 24 V
Battery		2 × 12 V, 200 Ah
Alternator		24 V, 115 A
Air cleaner		Three-stage

HYDRAULICS		
Main pumps	gpm (ℓ/min)	3 × 138 (523)
Air cleaner		15.9 (60)
WORKING PRESSURE		
Max. system pressure		5,076 (357)
Boom/arm/bucket (normal mode)		5,076 (357)
Travel (normal mode)	psi (kg/cm ²)	5,076 (357)
Swing (normal mode)		4,270 (300)
Pilot		2,901 (204)

HYDRAULIC CYLINDERS			bore × rod diameter × stroke
Boom (2)			8.5 × 5.9 × 75.0 (215 × 150 × 1,905)
Arm* (1)	in		9.4 × 6.7 × 79.5 (240 × 170 × 2,020)
Bucket (1)	Std (ME)	in (mm)	8.9 × 6.3 × 60.2 (225 × 160 × 1,530)
	Long arm		8.3 × 5.7 × 60.2 (210 × 145 × 1,530)

* ME: Mass Excavation arm

The piston rods and cylinder bodies are made of high-strength steel.

A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

SWING MECHANISM		
Swing speed	rpm	0–6.3
Swing torque	lbf·ft (kgf·m)	284,474 (39,330)

DRIVE SYSTEM		
Travel speed [low–high]	mph (km/h)	1.6–2.7 (2.6–4.3)
Traction force, max. (drawbar pull)	lbf·ft (kgf·m)	173,504 (78,700)
Max. grade (limited by engine lubrication)		35° (70%)

ENVIRONMENT		
Sound level (2000/14/EC)		109
Cabin sound level (ISO 6396)	dB(A)	71

REFILL CAPACITIES		
Fuel tank		300.6 (1138)
DEF tank		12.4 (47)
Cooling system (radiator capacity)		27.5 (105.1)
Engine oil (with filler)	gal (ℓ)	17.2 (65)
Swing drive		2.1 (8) × 2
Final drive (each side)		5.3 (20)
Hydraulic system		233 (881)
Hydraulic tank		141 (533)

UNDERCARRIAGE		
Upper rollers (each track)		3
Lower rollers (each track)		9
Number of shoes (links per side)		51

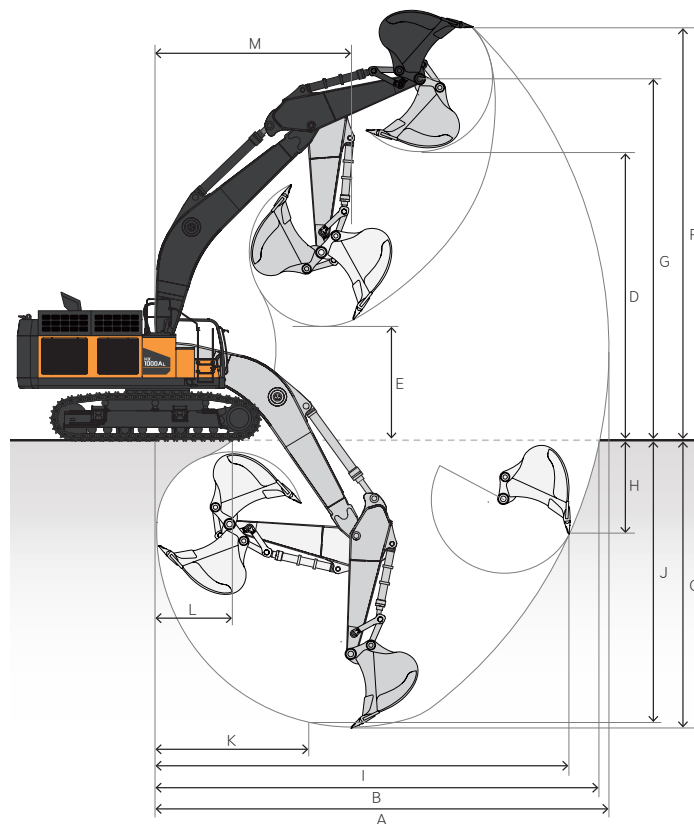
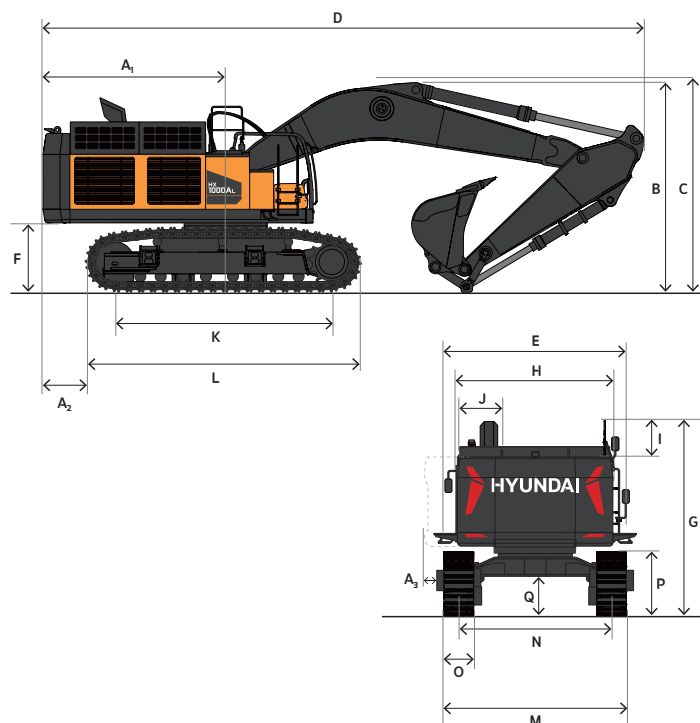
NOTE: Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards.

Specifications and design are subject to change without notice. All dimensions are given for Hyundai excavators equipped with standard tracks and the standard front as listed.

Pictures of Hyundai excavators may show other than standard equipment. All dimensions are shown in American measurements. Respective metric dimensions are enclosed by parentheses. Hyundai equipment is manufactured with a Quality Management System that is in compliance with ISO 9001:2008.



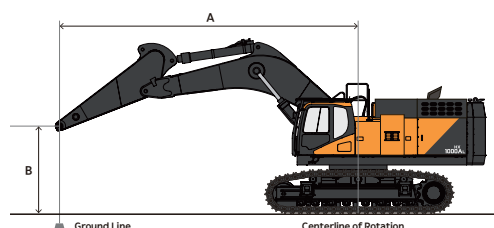
HX1000AL DIMENSIONS AND WORKING RANGE



DIMENSIONS		HD ARM	STD ARM
Boom length	ft in	23' 9" (7,250)	27' 7" (8,400)
Arm length	(mm)	9' 6" (2,900)	12' 4" (3,750)
Bucket type (SAE)	yd ³ (m ³)	8.89 (6.8)	7.06 (5.4)
Track type			Retractable
A ₁ Tail swing radius		15' 2" (4,620)	
A ₂ Tail swing overhang (rear)		4' 7" (1,395)	
A ₃ Tail swing overhang (side)	without step	8' 1" (2,465)	
	with step	7' 7" (2,319)	
B Shipping height (boom)		16' 8" (5,090)	17' 11" (5,450)
C Shipping height (hose)		16' 11" (5,150)	18' 3" (5,550)
D Shipping length		45' 3" (13,800)	47' 9" (14,550)
E Shipping width		13' 1" (3,982)	
F Counterweight clearance		5' 1" (1,560)	
G Cabin height		11' 10" (3,615)	
H Upper structure width	without catwalks	11' 2" (3,410)	
	with catwalks	14' 7" (4,450)	
I Cabin height above house	ft in (mm)	-	
J Cabin width		3' 4" (1,010)	
K Tumbler distance		16' 9" (5,100)	
L Overall track length		20' 10" (6,341)	
M Undercarriage width	retracted	12' 1" (3,690)	
	without step		
	extended	14' 7" (4,450)	
	with step		
M Undercarriage width	retracted	13' 1" (3,982)	
	extended	15' 7" (4,742)	
N Track gauge		11' 8" (3,550)	
O Track shoe width		36" (900)	
P Track height		4' 9" (1,452)	
Q Ground clearance		2' 10" (860)	

WORKING RANGE		HD ARM	STD ARM
Boom length	ft in	23' 9" (7,250)	27' 7" (8,400)
Arm length	(mm)	9' 6" (2,900)	12' 4" (3,750)
Bucket type (SAE, PCSA)	yd ³ (m ³)	8.89 (6.8)	7.06 (5.4)
Track type			Retractable
A Max. digging reach		40' 9" (12,430)	46' 10" (14,275)
B Max. digging reach (ground)		39' 9" (12,110)	45' 11" (14,000)
C Max. digging depth		23' 10" (7,260)	28' 10" (8,795)
D Max. loading height		26' 7" (8,100)	31' 0" (9,440)
E Min. loading height		12' 10" (3,910)	13' 10" (4,210)
F Max. digging height		40' 9" (12,425)	45' 5" (13,840)
G Max. bucket pin height	ft in (mm)	34' 6" (10,515)	38' 11" (11,862)
H Max. vertical wall depth		9' 9" (2,965)	14' 8" (4,470)
I Max. radius vertical		36' 1" (10,995)	40' 3" (12,265)
J Max. depth to 8' line		23' 4" (7,110)	28' 5" (8,665)
K Min. radius to 8' line		14' 6" (4,410)	17' 4" (5,290)
L Min. digging reach		6' 6" (1,970)	11' 0" (3,365)
M Min. swing radius		17' 6" (5,345)	20' 8" (6,295)
Bucket digging force (PCSA)	ISO lbf (kgf)	98,767 (44,800)	88,185 (40,000)
Arm crowd force		88,846 (40,300)	79,850 (36,220)
Operating weight	lb (kg)	220,282 (100,128)	220,880 (100,400)
Ground pressure	psi (kg/cm ²)	14.4 (1.01)	

HX1000AL LIFTING CAPACITY



A Distance from center of rotation
B Height



Rating over-front



Rating over-side or 360 degree

HEAVY DUTY ARM

Unit: lb (kg)

Boom: 23' 9" (7,250 mm), arm: 9' 6" (2,900 mm), counterweight: 24,860 lb (11,300 kg), 36" (900 mm) double grouser, no dozer, bucket: none

B ft (m)	15' (4.5)		20' (6.0)		25' (7.5)		30' (9.0)		Max. Reach		A, ft (m)
35' (10.5)									* 43,780	* 43,780	20.99' (6.40)
30' (9.0)					* 46,570	* 46,570			* 39,360	* 39,360	25.93' (7.90)
25' (7.5)					* (21,120)	* (21,120)			* (17,850)	* (17,850)	
20' (6.0)					* 47,040	* 47,040			* 37,570	* 37,570	29.23' (8.91)
15' (4.5)					* (21,340)	* (21,340)			* (17,040)	* (17,040)	
10' (3.0)			* 58,870	* 58,870	* 50,180	* 50,180	* 45,440	* 45,440	* 37,210	* 37,210	31.39' (9.57)
5' (1.5)			* (26,700)	* (26,700)	* (22,760)	* (22,760)	* (20,610)	* (20,610)	* (16,880)	* (16,880)	
0			* 30,640	* 30,640	* 54,530	* 54,530	* 47,320	44,400	* 37,940	* 37,940	32.67' (9.96)
-5' (-1.5)			* (67,560)	* (67,560)	* (24,730)	* (24,730)	* (21,460)	(20,140)	* (17,210)	(17,110)	
-10' (-3.0)			* 34,080	* 34,080	* 58,720	56,260	* 49,410	43,040	* 39,750	36,120	33.15' (10.10)
-15' (-4.5)			* (75,130)	* (75,130)	* (26,640)	(25,520)	* (22,410)	(19,520)	* (18,030)	(16,380)	
			* 79,020	75,140	* 61,510	54,350	* 50,790	41,910	* 42,890	35,950	32.88' (10.02)
			* (35,840)	(34,080)	* (27,900)	(24,650)	* (23,040)	(19,010)	* (19,460)	(16,310)	
			* 78,850	73,900	* 62,030	53,250	* 50,560	41,260	* 45,810	37,280	31.84' (9.70)
			* (35,770)	(33,520)	* (28,140)	(24,160)	* (22,930)	(18,720)	* (20,780)	(16,910)	
	* 95,130	* 95,130	* 75,010	73,820	* 59,610	53,010	* 47,190	41,350	* 46,020	40,640	29.94' (9.13)
	* (43,150)	* (43,150)	* (34,030)	(33,480)	* (27,040)	(24,050)	* (21,400)	(18,750)	* (20,870)	(18,430)	
	* 83,510	* 83,510	* 66,940	* 66,940	* 52,700	* 52,700			* 45,320	* 45,320	27.00' (8.23)
	* (37,880)	* (37,880)	* (30,360)	* (30,360)	* (23,900)	* (23,900)			* (20,560)	* (20,560)	
	* 64,800	* 64,800	* 51,600	* 51,600					* 41,910	* 41,910	22.61' (6.89)
	* (29,390)	* (29,390)	* (23,410)	* (23,410)					* (19,010)	* (19,010)	

STANDARD ARM

Unit: lb (kg)

Boom: 27' 7" (8,400 mm), Arm: 12' 4" (3,750 mm), Counterweight: 24,860 lb (11,300 kg), 36" (900 mm) double grouser, no dozer, bucket: none

B ft (m)	15' (4.5)		20' (6.0)		25' (7.5)		30' (9.0)		35' (10.5)		Max. Reach		A, ft (m)
35' (10.5)							* 33,690	* 33,690			* 32,320	* 32,320	29.70' (9.05)
30' (9.0)							* (15,280)	* (15,280)			* (14,660)	* (14,660)	
25' (7.5)							* 35,690	* 35,690			* 30,690	* 30,690	33.36' (10.17)
20' (6.0)							* (16,190)	* (16,190)			* (13,920)	* (13,920)	
15' (4.5)					* 40,750	* 40,750	* 36,950	* 36,950	* 34,770	33860	* 30,070	* 30,070	35.98' (10.97)
10' (3.0)					* (18,480)	* (18,480)	* (16,760)	* (16,760)	* (15,770)	(15,360)	* (13,640)	* (13,640)	
5' (1.5)					* 45,060	* 45,060	* 39,280	* 39,280	* 35,710	33,070	* 30,160	28,030	37.75' (11.50)
0					* (20,440)	* (20,440)	* (17,820)	* (17,820)	* (16,200)	(15,000)	* (13,680)	(12,710)	
-5' (-1.5)					* 50,010	* 50,010	* 42,110	40,830	* 37,200	31,990	* 30,880	26,120	38.80' (11.83)
-10' (-3.0)					* (22,680)	* (22,680)	* (19,100)	(18,520)	* (16,870)	(14,510)	* (14,010)	(11,850)	
-15' (-4.5)					* 54,500	50,790	* 44,840	38,970	* 38,730	30,870	* 32,270	25,090	39.21' (11.95)
-20' (-6.0)					* (24,720)	(23,040)	* (20,340)	(17,670)	* (17,570)	(14,000)	* (14,640)	(11,380)	
					* 57,540	48,520	* 46,890	37,450	* 39,880	29,920	* 34,450	24,840	38.98' (11.88)
					* (26,100)	(22,010)	* (21,270)	(16,990)	* (18,090)	(13,570)	* (15,630)	(11,270)	
					* 58,650	47,190	* 47,800	36,430	* 40,200	29,270	* 35,460	25,380	38.11' (11.62)
					* (26,600)	(21,410)	* (21,680)	(16,520)	* (18,230)	(13,280)	* (16,090)	(11,510)	
			* 72,260	65,470	* 57,710	46,680	* 47,200	35,970	* 39,150	29,050	* 35,800	26,880	36.55' (11.14)
			* (32,780)	(29,700)	* (26,180)	(21,170)	* (21,410)	(16,320)	* (17,760)	(13,180)	* (16,240)	(12,190)	
	* 83,060	* 83,060	* 67,280	66,050	* 54,530	46,870	* 44,530	36,110			* 35,850	29,760	34.19' (10.42)
	* (37,670)	* (37,670)	* (30,520)	(29,960)	* (24,730)	(21,260)	* (20,200)	(16,380)			* (16,260)	(13,500)	
	* 72,150	* 72,150	* 59,330	* 59,330	* 48,350	47,780	* 38,320	37,040			* 35,180	35,030	30.88' (9.41)
	* (32,730)	* (32,730)	* (26,910)	* (26,910)	* (21,930)	(21,680)	* (17,380)	(16,800)			* (15,960)	(15,890)	
			* 46,610	* 46,610	* 36,590	* 36,590					* 32,550	* 32,550	26.19' (7.98)
			* (21,140)	* (21,140)	* (16,600)	* (16,600)					* (14,760)	* (14,760)	

NOTE: Lifting capacities are in compliance with SAE 1097 and ISO 10567. Machine in lifting mode with power boost turned on. Load point is the end of the arm. Rated loads shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities. Rated loads marked with an asterisk (*) are limited by hydraulic capacities. The least stable position is over the side. The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb (75 kg) operator.

HX1000AL STANDARD & OPTIONAL EQUIPMENT

●: Standard / ○: Optional

ENGINE		CABIN		ELECTRICAL	
Perkins 2806J	●	Steel, all-weather and sound-suppressed	●	System voltage – 24 V	●
Tier 4 Final compliant	●	Vandalism guard hooks	●	Alternator – 24 V, 115 A	●
Turbo, waste gate (WGT)	●	Viscous mount with spring reinforcement	●	2 × 12 V batteries, 200 Ah reserve capacity	●
Air-to-air intercooler	●	Front window with wiper/washer	●	Main circuit breaker	●
Selective catalyst reduction (SCR)	●	Tinted safety glass	●	Power sockets – 12 V and 24 V	●
Diesel oxidation catalyst (DOC)	●	Skylight top hatch with sun screen	●	Electrical remote box with spare fuses and spare relays	●
Diesel particulate filter (DPF)	●	Pull-up type top front window	●	LED lights: machine (2), boom (2)	●
Three-stage air cleaner (cyclonic pre-filter and 2 filter elements)	●	Removable lower front window with storage behind seat	●	Lights, work (LED): 8	●
HYDRAULIC		Defrost, front window	●	Rotating beacon	●
Pilot-operated control valves	●	Seat		Overload warning alarm	●
Pattern control change valve	●	- Heated		Hour meter	●
Removable counterweight system	●	- Air suspension		Engine restart prevention system	●
Variable-speed hydraulic cooling fan	●	- 2" (51 mm) seat belt	●	Side view and rearview camera with LED lamps (3)	●
Axial piston swing motors	●	- Adjustable height and recline		AAVM (All-Around View Monitoring)	●
Auxiliary hydraulics, one- and two-way piping with pedal	●	- Adjustable fore/aft		Laptop service port	●
Auxiliary hydraulics, rotate piping	●	- Adjustable armrests		Self-diagnostics system	●
Quick coupler piping	●	- Adjustable lumbar		Smart key (remote ignition key)	●
Adjustable auxiliary flow and pressure, 10 presets	●	Leatherette seat		Emergency stop switch	●
Intelligent floating boom	●	- Heating and cooling		Swing alarm	●
Breaker return filter	●	- Air suspension		Travel alarm	●
Boom and arm lock valves	●	- 3" (76 mm) seat belt		Lower window wiper	●
Boom and arm flow regeneration	●	- Adjustable height and recline		UNDERCARRIAGE	
Straight travel	●	- Adjustable fore/aft	○	Track guards and chains with adjusters	●
CONTROLS		- Adjustable armrests		Track rollers, upper (3)	●
Proportional control for auxiliary hydraulics, roll switch on both joysticks	●	- Adjustable lumbar		Track rollers, lower (9)	●
Limp home mode control switch	●	- Adjustable headrest		Shoes, double grouser – 26" (600 mm)	○
Auto idle control system, one-touch deceleration button on joystick	●	- Adjustable bottom cushion		Shoes, double grouser – 30" (750 mm)	○
Engine speed control dial	●	- Height adjustable panels		Shoes, double grouser – 36" (900 mm)	●
Advanced mechatronics with power mode control system	●	- Sliding control console		OTHER	
Power modes (P+, P, S, E)	●	Fully automatic HVAC with ambient temperature sensor	●	Automatic lubrication	●
Work modes (excavating, lifting, breaker, shear)	●	8" multi-function LCD interactive display monitor	●	Handrails and service platforms	●
Jog dial display control	●	Digital Bluetooth® audio broadcasting MP3 radio with cell phone integration		Skid-resistant steps and service platforms, upper deck	●
Electronic Power Optimizing System (EPOS)	●	- Audio control panel on/off switch	●	Hi MATE – 5-year cellular subscription free, 2-year satellite subscription free	●
Cross-sensing pump control	●	- Control volume		Air compressor	●
		- Channel select			
		Antenna, roof-mounted	●		
		Emergency breakout tool	●		
		Cup holder	●		
		Shoe case	●		
		Coat hanger	●		
		Rain shield	●		
		FOG (Falling Object Guard)	○		
		Front window 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 American measurements rounded off to the nearest pound or inch.