

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)	dB(A)	109
Cabin sound level (ISO 6396)		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

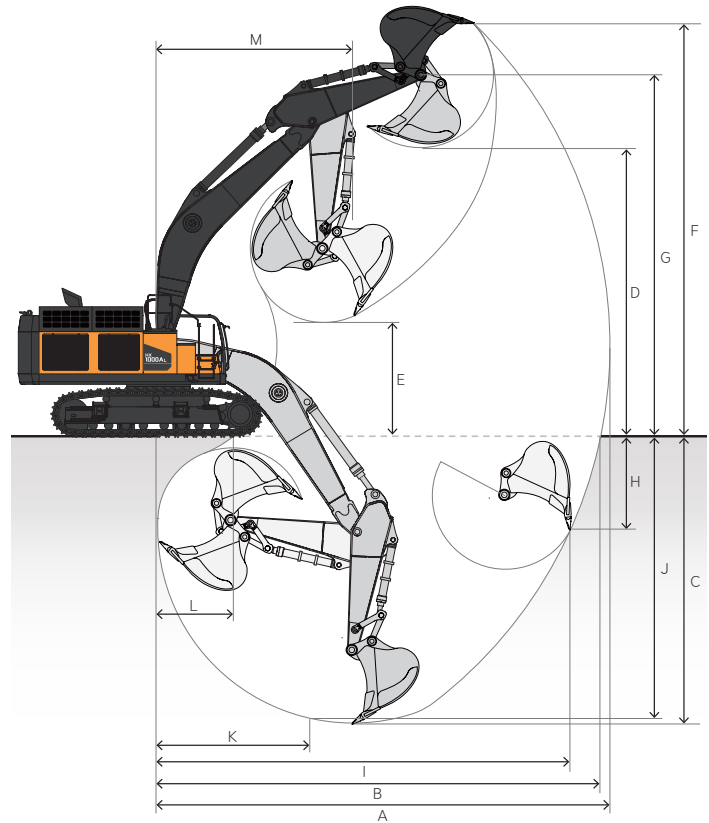
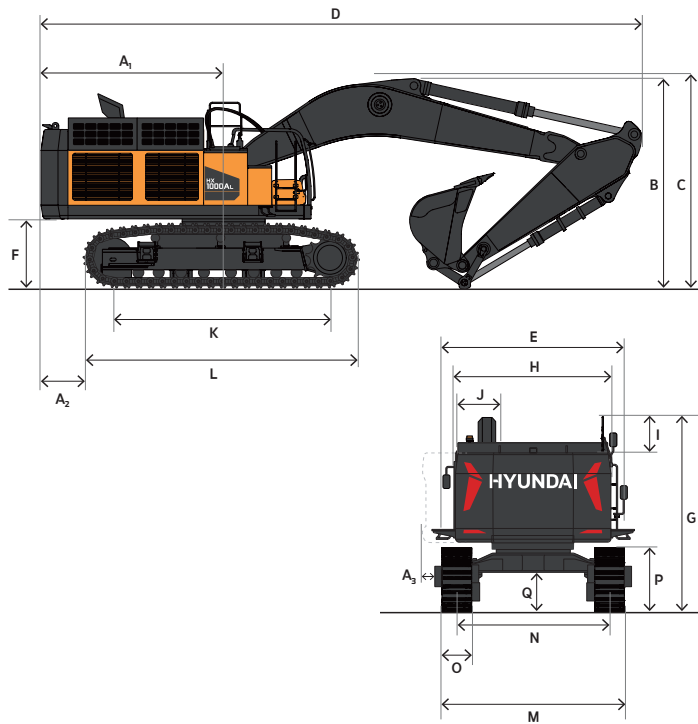
NOTE: Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards.

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.



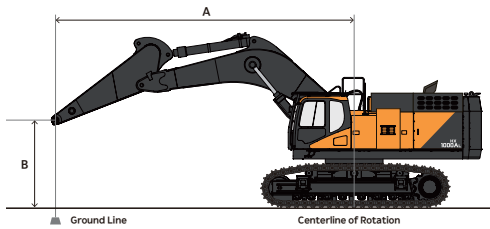
HX1000AL DIMENSIONS AND WORKING RANGE



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 (without step)	12' 1" (3,690)	
	extended (without step)	14' 7" (4,450)	
	retracted (with step)	13' 1" (3,982)	
	extended (with step)	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)	A 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)											* 39,360	* 39,360	25.93' (7.90)
25' (7.5)											* 37,570	* 37,570	29.23' (8.91)
20' (6.0)											* 37,210	* 37,210	31.39' (9.57)
15' (4.5)											* 37,940	* 37,940	32.67' (9.96)
10' (3.0)											* 39,750	36,120	33.15' (10.10)
5' (1.5)											* 42,890	35,950	32.88' (10.02)
0											* 45,810	37,280	31.84' (9.70)
-5' (-1.5)	* 95,130	* 95,130	* 75,010	73,820	* 59,610	53,010	* 47,190	41,350	* 46,020	40,640	* 20,870	(18,430)	29.94' (9.13)
-10' (-3.0)	* 83,510	* 83,510	* 66,940	* 66,940	* 52,700	* 52,700			* 45,320	* 45,320	* 20,560	* 20,560	27.00' (8.23)
-15' (-4.5)	* 64,800	* 64,800	* 51,600	* 51,600					* 41,910	* 41,910			22.61' (6.89)

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)	A 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)													* 32,320	* 32,320	29.70' (9.05)
30' (9.0)													* 30,690	* 30,690	33.36' (10.17)
25' (7.5)													* 30,070	* 30,070	35.98' (10.97)
20' (6.0)													* 30,160	28,030	37.75' (11.50)
15' (4.5)													* 30,880	26,120	38.80' (11.83)
10' (3.0)													* 32,270	25,090	39.21' (11.95)
5' (1.5)													* 34,450	24,840	38.98' (11.88)
0													* 35,460	25,380	38.11' (11.62)
-5' (-1.5)													* 35,800	26,880	36.55' (11.14)
-10' (-3.0)	* 83,060	* 83,060	* 67,280	66,050	* 54,530	46,870	* 44,530	36,110					* 35,850	29,760	34.19' (10.42)
-15' (-4.5)	* 72,150	* 72,150	* 59,330	* 59,330	* 48,350	47,780	* 38,320	37,040					* 35,180	35,030	30.88' (9.41)
-20' (-6.0)													* 32,550	* 32,550	26.19' (7.98)

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

Perkins 2806J	●
Tier 4 Final compliant	●
Turbo, waste gate (WGT)	●
Air-to-air intercooler	●
Selective catalyst reduction (SCR)	●
Diesel oxidation catalyst (DOC)	●
Diesel particulate filter (DPF)	●
Three-stage air cleaner (cyclonic pre-filter and 2 filter elements)	●

HYDRAULIC

Pilot-operated control valves	●
Pattern control change valve	●
Removable counterweight system	●
Variable-speed hydraulic cooling fan	●
Axial piston swing motors	●
Auxiliary hydraulics, one- and two-way piping with pedal	●
Auxiliary hydraulics, rotate piping	●
Quick coupler piping	●
Adjustable auxiliary flow and pressure, 10 presets	●
Intelligent floating boom	●
Breaker return filter	●
Boom and arm lock valves	●
Boom and arm flow regeneration	●
Straight travel	●

CONTROLS

Proportional control for auxiliary hydraulics, roll switch on both joysticks	●
Limp home mode control switch	●
Auto idle control system, one-touch deceleration button on joystick	●
Engine speed control dial	●
Advanced mechatronics with power mode control system	●
Power modes (P+, P, S, E)	●
Work modes (excavating, lifting, breaker, shear)	●
Jog dial display control	●
Electronic Power Optimizing System (EPOS)	●
Cross-sensing pump control	●

CABIN

Steel, all-weather and sound-suppressed	●
Vandalism guard hooks	●
Viscous mount with spring reinforcement	●
Front window with wiper/washer	●
Tinted safety glass	●
Skylight top hatch with sun screen	●
Pull-up type top front window	●
Removable lower front window with storage behind seat	●
Adjustable sliding side door window	●
Defrost, front window	●
Seat	
- Heated	
- Air suspension	
- 2" (51 mm) seat belt	●
- Adjustable height and recline	
- Adjustable fore/aft	
- Adjustable armrests	
- Adjustable lumbar	
Leatherette seat	
- Heating and cooling	
- Air suspension	
- 3" (76 mm) seat belt	
- Adjustable height and recline	
- Adjustable fore/aft	○
- Adjustable armrests	
- Adjustable lumbar	
- Adjustable headrest	
- Adjustable bottom cushion	
- Height adjustable panels	
- Sliding control console	
Fully automatic HVAC with ambient temperature sensor	●
8" multi-function LCD interactive display monitor	●
Digital Bluetooth® audio broadcasting MP3 radio with cell phone integration	
- Audio control panel on/off switch	●
- Control volume	
- Channel select	
Antenna, roof-mounted	●
Emergency breakout tool	●
Cup holder	●
Shoe case	●
Coat hanger	●
Rain shield	●
FOG (Falling Object Guard)	○
Front window guard	●

ELECTRICAL

System voltage – 24 V	●
Alternator – 24 V, 115 A	●
2 × 12 V batteries, 200 Ah reserve capacity	●
Main circuit breaker	●
Power sockets – 12 V and 24 V	●
Electrical remote box with spare fuses and spare relays	●
LED lights: machine (2), boom (2)	●
Lights, work (LED): 8	●
Rotating beacon	●
Overload warning alarm	●
Hour meter	●
Engine restart prevention system	●
Side view and rearview camera with LED lamps (3)	●
AAVM (All-Around View Monitoring)	●
Laptop service port	●
Self-diagnostics system	●
Smart key (remote ignition key)	●
Emergency stop switch	●
Swing alarm	●
Travel alarm	●
Lower window wiper	●

UNDERCARRIAGE

Track guards and chains with adjusters	●
Track rollers, upper (3)	●
Track rollers, lower (9)	●
Shoes, double grouser – 26" (600 mm)	○
Shoes, double grouser – 30" (750 mm)	○
Shoes, double grouser – 36" (900 mm)	●

OTHER

Automatic lubrication	●
Handrails and service platforms	●
Skid-resistant steps and service platforms, upper deck	●
Hi MATE – 5-year cellular subscription free, 2-year satellite subscription free	●
Air compressor	●

* 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.



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