

# HX800AL SPECIFICATIONS

**Net Power**  
528.6 hp  
(389 kW)  
at 2,100 rpm

**Operating Weight**  
Standard arm:  
181,000 lb  
(82,100 kg)

**Arm Crowd Force (ISO)**  
Standard arm:  
63,000 lbf  
(28,600 kgf)

**Bucket Digging Force (ISO)**  
Standard arm:  
67,800 lbf  
(33,900 kgf)

## ENGINE

Make	Perkins
Model	2506J
Emissions certification	Tier 4 Final
Number of cylinders	6
Rated power, gross (SAE J1995)	hp (kW) 539.1 (402) @ 2,100 rpm
Rated power, net (SAE J1349)	hp (kW) 528.6 (389) @ 2,100 rpm
Max. torque, gross (SAE J1995)	lbf·ft (Nm) 1,821 (2,468) @ 1,400 rpm
Displacement	in <sup>3</sup> (ℓ) 928 (15.2)
Bore and stroke	in (mm) 5.4 × 6.7 (137 × 171)
Starter	hp (kW) 12.1 (9.0), 24 V
Battery	2 × 12 V, 200 Ah
Alternator	24 V, 115 A
Air cleaner	Double elements and precleaner

## HYDRAULICS

Main pumps	gpm (ℓ/min)	2 × 133.1 (504)
Pilot pump (gear pump)	gpm (ℓ/min)	13.31 (50.4)

### WORKING PRESSURE

Max. system pressure	psi (kg/cm <sup>2</sup> )	5,076 (357)
Boom/arm/bucket (normal mode)		5,078 (357)
Boom/arm/bucket (power boost)		5,362 (377)
Travel (normal mode)	psi (kg/cm <sup>2</sup> )	5,078 (357)
Travel (power boost)		5,362 (377)
Swing (normal mode)		5,078 (357)
Swing (power boost)		5,362 (377)

HYDRAULIC CYLINDERS		bore × rod diameter × stroke
Boom <sup>1</sup> (2)		7.5 × 4.9 × 70.7 (190 × 125 × 1,795)
Arm <sup>1,2</sup> (1)	in (mm)	8.5 × 5.9 × 79.9 (215 × 150 × 2,030)
Bucket <sup>1</sup> (STD) (1)		7.5 × 5.1 × 57.7 (190 × 130 × 1,465)

1 Cushion on rod end  
2 Cushion on base end

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	0–7.4
Swing torque	lbf·ft (kgf·m)	228,563 (31,600)

## DRIVE SYSTEM

Travel speed [low – high]	mph (km/h)	1.9–3.0 (3.0–4.9)
Traction force, max. (drawbar pull)	lbf·ft (kgf·m)	141,400 (64,138)
Max. grade (limited by engine lubrication)		35° (70%)

## ENVIRONMENT

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

## REFILL CAPACITIES

Fuel tank		232.5 (880)
DEF tank		12.4 (47)
Cooling system (radiator capacity)		22.8 (86.3)
Engine oil (with filler)	gal (ℓ)	15.8 (60)
Swing drive		2.1 (8)
Final drive (each side)		5.3 (20)
Hydraulic system		208 (790)
Hydraulic tank		114.9 (435)

## UNDERCARRIAGE

Upper rollers (each track)	3
Lower rollers (each track)	8
Number of shoes (links per side)	48

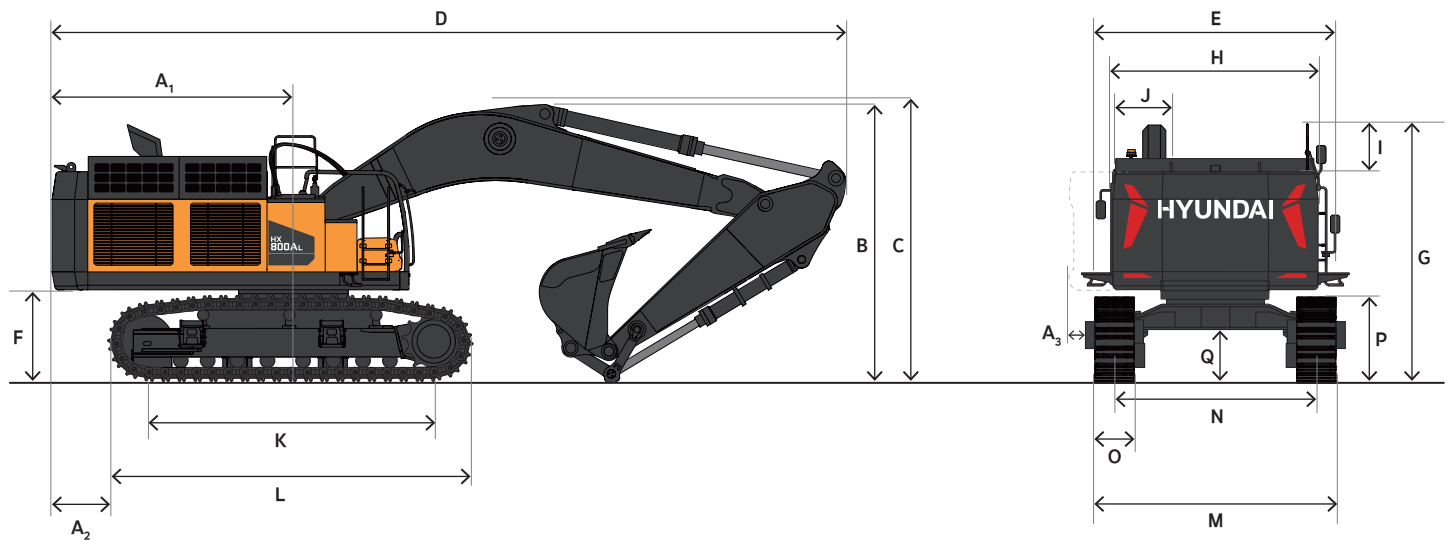
NOTE: Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards.

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 first 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.

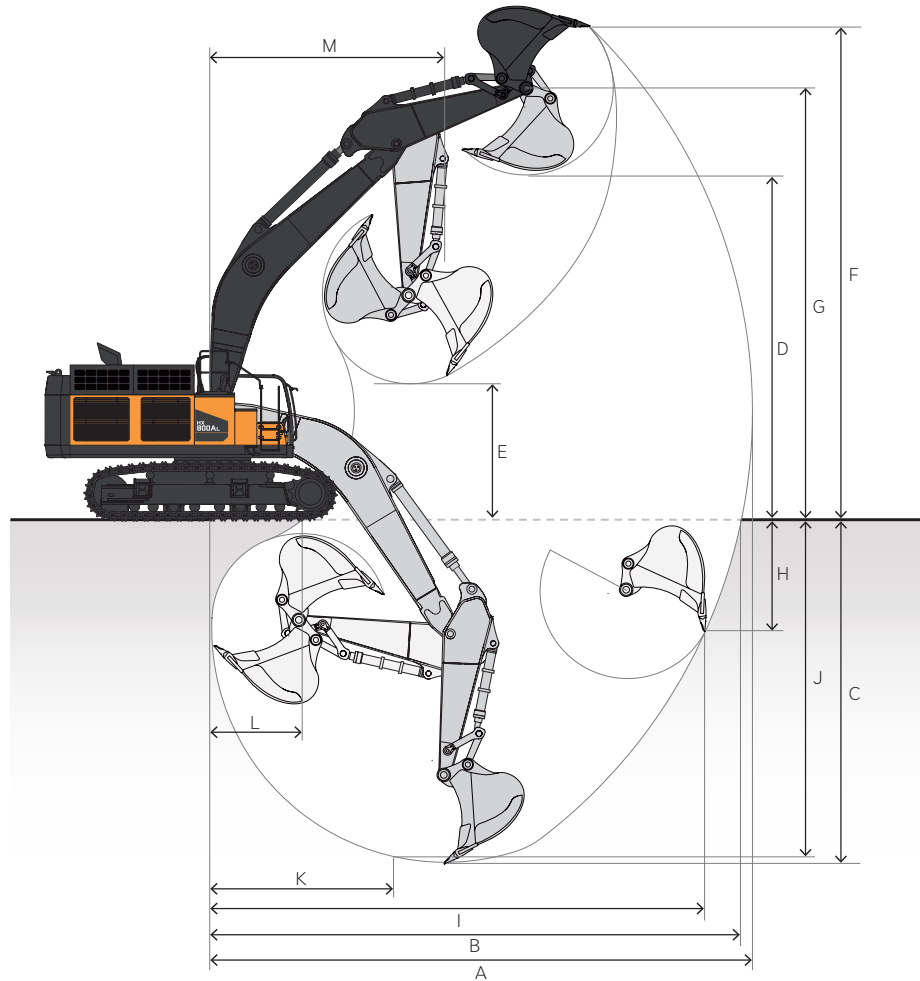


# HX800AL DIMENSIONS



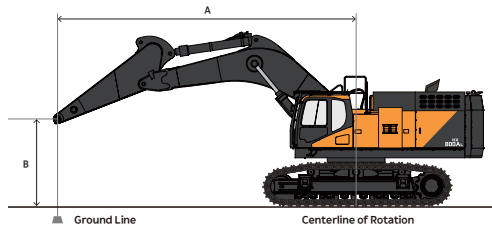
		STANDARD ARM	LONG ARM	HEAVY DUTY ARM
Boom length		25' 3" (7,700)		21' 10" (6,650)
Arm length	ft in (mm)	11' 8" (3,550)	13' 9" (4,200)	9' 6" (2,900)
Bucket type (SAE)	yd <sup>3</sup> (m <sup>3</sup> )	4.5 (3.4)	6.1 (4.6)	6.9 (5.2)
Track type		Fixed		
A <sub>1</sub> Tail swing radius		13' 5" (4,100)		
A <sub>2</sub> Tail swing overhang (rear)		3' 8" (1,120)		
A <sub>3</sub> Tail swing overhang (side)		6' 6" (1,975)		
B Shipping height (boom)		15' 2" (4,615)	16' 5" (5,015)	16' 1" (4,905)
C Shipping height (hose)		15' 11" (4,865)	17' 2" (5,240)	16' 10" (5,125)
D Shipping length		43' 2" (13,165)		40' 5" (12,320)
E Shipping width		12' 6" (3,810)		
F Counterweight clearance		4' 11" (1,490)		
G Cabin height		11' 7" (3,540)		
H Upper structure width	ft in (mm)	11' 2" (3,410)		
I Cabin height above house		1.3" (32)		
J Cabin width		3' 4" (1,010)		
K Tumbler distance		15' 6" (4,730)		
L Overall track length		19' 7" (5,960)		
M Undercarriage width		13' 11" (4,250)		
N Track gauge		11' 0" (3,350)		
O Track shoe width		35.4" (900)		
P Track height		4' 4" (1,310)		
Q Ground clearance		2' 9" (830)		

# HX800AL WORKING RANGE



		STANDARD ARM	LONG ARM	HEAVY DUTY ARM
Boom length	ft in (mm)	25' 3" (7,700)	25' 3" (7,700)	21' 10" (6,650)
Arm length		11' 8" (3,550)	13' 9" (4,200)	9' 6" (2,900)
Bucket type (SAE, PCSA)	yd <sup>3</sup> (m <sup>3</sup> )	4.5 (3.4)	6.1 (4.6)	6.9 (5.2)
Track type			Fixed	
A	Max. digging reach	43' 4" (13,215)	45' 4" (13,820)	38' 0" (11,595)
B	Max. digging reach (ground)	42' 6" (12,945)	44' 6" (13,565)	37' 0" (11,290)
C	Max. digging depth	27' 6" (8,370)	29' 6" (8,995)	23' 4" (7,120)
D	Max. loading height	27' 6" (8,380)	28' 8" (8,730)	23' 0" (7,000)
E	Min. loading height	10' 10" (3,300)	8' 10" (2,685)	10' 0" (3,060)
F	Max. digging height	39' 4" (12,000)	41' 0" (12,485)	34' 4" (10,470)
G	Max. bucket pin height	34' 6" (10,525)	35' 7" (10,850)	30' 5" (9,260)
H	Max. vertical wall depth	8' 11" (2,715)	17' 11" (5,465)	6' 0" (1,840)
I	Max. radius vertical	39' 7" (12,070)	36' 7" (11,155)	35' 1" (10,685)
J	Max. depth to 8' line	27' 0" (8,230)	29' 1" (8,870)	22' 10" (6,965)
K	Min. radius to 8' line	14' 8" (4,480)	14' 9" (4,485)	12' 2" (3,720)
L	Min. digging reach	7' 5" (2,250)	6' 7" (2,010)	5' 7" (1,705)
M	Min. swing radius	18' 10" (5,730)	18' 11" (5,760)	17' 2" (5,240)
Bucket digging force (PCSA)	ISO lbf (kgf)	67,800 (33,900)	63,200 (31,600)	75,400 (37,700)
Arm crowd force		63,000 (28,600)	56,600 (25,700)	72,300 (32,800)
Operating weight	lb (kg)	181,000 (82,100)	181,661 (82,400)	179,897 (81,600)
Ground pressure	psi (kg/cm <sup>2</sup> )	12.6 (0.89)	12.7 (0.89)	12.6 (0.88)

# HX800AL LIFTING CAPACITY



Rating over-front Rating over-side or 360 degree

## STANDARD ARM

Unit: lb (kg)

Boom: 25' 3" (7,700 mm), Arm: 11' 8" (3,550 mm), Counterweight: 23,634 lb (10,720 kg), Shoe Size: 35.4" (900 mm), Bucket: None

B ft (m)	A ft (m)		10' (3.0)		15' (4.5)		20' (6.0)		25' (7.5)		30' (9.0)		35' (10.5)		Max. Reach		A <sub>1</sub> ft in (m)	
35' (10.5)																* 28,420	* 28,420	25' 5"
30' (9.0)											* 26,940	* 26,940				* (12,890)	* (12,890)	(7.73)
25' (7.5)											* (12,220)	* (12,220)				* (11,910)	* (11,910)	(9.03)
20' (6.0)											* 31,000	* 31,000				* 25,300	* 25,300	32' 7"
15' (4.5)											* (14,060)	* (14,060)				* (11,470)	* (11,470)	(9.93)
10' (3.0)											* 36,010	* 36,010				* 32,150	* 32,150	34' 7"
5' (1.5)											* (16,330)	* (16,330)				* (14,580)	* (14,580)	(10.54)
0																* (11,980)	* (11,980)	(10.71)
-5' (-1.5)																* 25,490	24,560	35' 10"
-10' (-3.0)																* (11,560)	(11,140)	(10.91)
-15' (-4.5)																* 26,480	23,620	36' 4"
-20' (-6.0)																* (14,150)	(11,630)	(11.07)
																* 28,150	23,440	36' 2"
																* (12,770)	(10,630)	(11.01)
																* 30,060	24,050	35' 3"
																* (13,630)	(10,910)	(10.75)
																* 30,000	25,610	33' 8"
																* (13,610)	(11,620)	(10.26)
																* 29,480	28,650	31' 2"
																* (13,370)	(13,000)	(9.51)
																* 27,840	* 27,840	27' 8"
																* (12,630)	* (12,630)	(8.42)
																* 23,080	* 23,080	22' 5"
																* (10,470)	* (10,470)	(6.84)

## LONG ARM

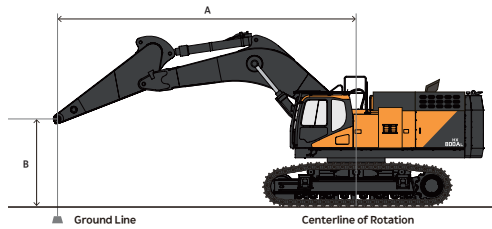
Unit: lb (kg)

Boom: 25' 3" (7,700 mm), Arm: 13' 9" (4,200 mm), Counterweight: 23,634 lb (10,720 kg), Shoe Size: 35.4" (900 mm), Bucket: None

B ft (m)	A ft (m)		10' (3.0)		15' (4.5)		20' (6.0)		25' (7.5)		30' (9.0)		35' (10.5)		Max. Reach		A <sub>1</sub> ft in (m)	
35' (10.5)																* 22,980	* 22,980	28' 3"
30' (9.0)																* (10,430)	* (10,430)	(8.61)
25' (7.5)																* 21,400	* 21,400	32' 1"
20' (6.0)																* (9,710)	* (9,710)	(9.79)
15' (4.5)																* 28,780	* 28,780	34' 10"
10' (3.0)																* (13,050)	* (13,050)	(10.62)
5' (1.5)																* 23,190	* 23,190	34' 10"
0																* (9,370)	* (9,370)	(10.62)
-5' (-1.5)																* 20,660	* 20,660	36' 9"
-10' (-3.0)																* 20,460	* 20,460	36' 9"
-15' (-4.5)																* (12,730)	(11,940)	(11.20)
-20' (-6.0)																* 20,730	* 20,730	37' 11"
																* (9,400)	* (9,400)	(11.55)
																* 51,530	* 51,530	38' 4"
																* (23,370)	* (23,370)	(11.69)
																* 55,890	54,780	38' 2"
																* (25,350)	(24,850)	(11.64)
																* 44,970	39,540	37' 5"
																* (26,110)	(24,090)	(11.39)
																* 36,480	29,300	35' 10"
																* (16,550)	(13,290)	(10.93)
																* 27,710	24,810	33' 7"
																* (12,570)	(11,250)	(10.23)
																* 74,850	* 74,850	30' 3"
																* (33,950)	* (33,950)	(9.30)
																* 44,550	* 44,550	25' 8"
																* (20,210)	* (20,210)	(7.82)



# HX800AL LIFTING CAPACITY



Rating over-front    
 Rating over-side or 360 degree

## HEAVY DUTY ARM

Unit: lb (kg)

Boom: 21' 10" (6,650 mm), Arm: 9' 6" (2,900 mm), Counterweight: 23,634 lb (10,720 kg), Shoe Size: 35.4" (900 mm), Bucket: None

B ft (m)	A ft (m)		10' (3.0)		15' (4.5)		20' (6.0)		25' (7.5)		30' (9.0)		Max. Reach		A, ft in (m)	
30' (9.0)														* 28,460	* 28,460	22' 12" (7.00)
25' (7.5)									* 38,590	* 38,590				* 32,370	* 32,370	26' 3" (8.00)
20' (6.0)									* 39,800	* 39,800				* 31,790	* 31,790	28' 9" (8.75)
15' (4.5)									* 18,050	* 18,050				* 14,420	* 14,420	
10' (3.0)					* 45,170	* 45,170	* 42,390	* 42,390	* 37,640	33,000	* 32,300	31,840		* 32,300	31,840	30' 2" (9.20)
5' (1.5)					* 20,490	* 20,490	* 19,230	* 19,230	* 17,070	(14,970)	* 14,650	(14,440)		* 14,650	(14,440)	
0					* 50,810	* 50,810	* 45,180	42,280	* 38,600	32,270	* 33,830	30,300		* 33,830	30,300	30' 9" (9.38)
-5'					* 23,050	* 23,050	* 20,500	(19,180)	* 17,510	(14,640)	* 15,340	(13,750)		* 15,340	(13,750)	
-10'					* 56,340	* 56,340	* 47,100	40,990	* 39,060	31,620	* 36,630	30,100		* 36,630	30,100	30' 7" (9.32)
-15'					* 25,560	* 25,560	* 20,710	(18,590)	* 17,720	(14,340)	* 16,610	(13,650)		* 16,610	(13,650)	
-20'					* 59,740	55,450	* 47,210	40,210	* 37,770	31,310	* 37,740	31,290		* 37,740	31,290	29' 6" (9.00)
-25'					* 27,210	(25,150)	* 21,410	(18,240)	* 17,130	(14,200)	* 17,120	(14,190)		* 17,120	(14,190)	
-30'					* 73,250	* 73,250	* 56,750	55,230	* 44,490	40,050				* 37,560	34,380	27' 7" (8.41)
-35'					* 33,230	* 33,230	* 25,740	(25,050)	* 20,180	(18,170)				* 17,040	(15,600)	
-40'														* 36,230	* 36,230	24' 6" (7.47)
-45'					* 76,820	* 76,820	* 62,400	* 62,400	* 49,020	* 49,020				* 16,430	* 16,430	
-50'					* 28,300	* 28,300	* 22,240	* 22,240						* 31,260	* 31,260	19' 9" (6.02)
-55'					* 43,840	* 43,840	* 31,570	* 31,570						* 14,180	* 14,180	
-60'					* 19,890	* 19,890	* 14,320	* 14,320								

A Distance from center of rotation

B Height

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.



# HX800AL STANDARD & OPTIONAL EQUIPMENT

● : Standard / ○ : Optional

## ENGINE

Tier 4 Final compliant	●
High-pressure common-rail (HPCR)	●
Turbo variable geometry (VGT)	○
Cooled exhaust gas recirculation (CEGR)	●
Diesel oxidation catalyst (DOC)	●
Diesel particulate filter (DPF)	●
Selective catalyst reduction (SCR)	●
Diesel exhaust fluid (DEF)	●
Fuel filter with water separator	●
Coolant recovery tank	●
Dual element dry-type air filter with evacuator	●
Centrifugal precleaner	●
Electronic engine control (ECU)	●
Auto idle	●
Auto shutdown (time-adjustable)	●
Overheat and low oil pressure engine protection	●
Block heater (110 V)	○
Fuel filler pump	○

## HYDRAULIC

Electronic Power Optimizing System (EPOS)	●
Variable axial piston main pump (tandem)	●
Cross-sensing pump control	●
Pilot-operated control valves	●
Gear pilot pump	●
Smart Power Control (SPC)	●
Variable-speed hydraulic cooling fan	●
Axial piston swing motor	●
Spring-applied hydraulic release brake, swing motor	●
Axial piston travel motor (high/low, auto)	●
Auxiliary hydraulics, one-way piping	●
Auxiliary hydraulics, two-way piping	●
Auxiliary hydraulics, tilt/rotate piping	○
Adjustable auxiliary flow and pressure, 10 Presets	●
Removable counterweight system	○

## ELECTRICAL

System voltage – 24 V	●
Alternator – 24 V, 115 A	●
2 × 12 V batteries, 200 Ah reserve capacity	●
Blade-type fuse panel	●
Main circuit breaker	●
Lights, work (LED): machine (6), boom (2)	●
Lights, work (LED): 6	○
Lights, work (LED): 4	○

## ELECTRICAL

Rotating beacon	○
Hour meter	●
Overload warning alarm	●
Hour meter	●
Engine restart prevention system	●
Side view (right) and rear view camera	●
360° AAVM (All-Around View Monitoring)	○
Laptop service port	●
Self-diagnostics system	●

## CABIN

Steel, all-weather and sound-suppressed	●
ROPS (ISO 12117-2:2008)	●
Cab sus mount	●
Front window with wiper/washer	●
Tinted safety glass	●
Skylight top hatch with sun screen	●
Visor, front window and skylight	●
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	
3" (76 mm) seat belt	○
Control stands	
- Height adjustable	●
- Mounted to seat base	
Storage for operator's manuals	●
Mirrors	●
Fully automatic HVAC with ambient temperature sensor	●
8" multi-function LCD interactive display monitor	●
AM/FM stereo with CD player and MP3 port	●
Speakers (2)	●
Antenna, roof-mounted	●
Emergency breakout tool	●
Hot/cold beverage compartment	●
Power socket, 12 V	●
Cup holder	●
Interior light	●
Coat hanger	●
Rain shield	○
FOG (Falling Object Guard)	○
Front window guard	○

## CONTROLS

Joystick controls	●
Pattern control change valve (SAE, ISO)	●
Joystick attachment control, switches/buttons (one-way, two-way, power boost)	●
Foot pedal attachment control	●
Control stands	
- Height adjustable	●
- Sliding (fore/aft)	
- Tilting armrests	
Engine speed control dial	●
Travel pedals with hand levers	●
Straight travel pedal	○
Switches, console-mounted	
- Travel speed selector	●
- Work light	
- Auxiliary mode switch	
Push button start	●
Emergency stop switch	●
Power modes (P+, P, S, E)	●
Work modes (digging, lifting, breaker, shear)	●
Smart Power Control (SPC)	●
Jog dial display control	●
Wiper control panel	●
Audio control panel	●

## UNDERCARRIAGE

Track guards and chains with adjusters	●
Track rollers, upper (3)	●
Track rollers, lower (8)	●
In-shoe motor protection	●
Shoes, triple grouser – 26" (600 mm)	○
Shoes, triple grouser – 30" (700 mm)	○
Shoes, triple grouser – 36" (900 mm)	●

## OTHER

Centralized lubrication	
- Boom	●
- Swing	
Automatic lubrication system	●
Handrails and service platforms	●
Skid-resistant steps and service platforms	●
Manuals	
- Operation and Maintenance	●
- Parts	
- AEM Safety Manual	
Hi MATE—mobile (4G) 5-year subscription	●
Vandalism protection	
- Lockable panels	
- Lockable fluid fill points	●
- Anti-theft protection (password)	
- Vandalism window cover mount	
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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HX800AL EX-SP 9/2024 AS v5