

HX800AL

CRAWLER EXCAVATOR



Gross Power
402kW (539 hp) at 2100 rpm

Bucket Capacity
4.64 - 5.24 m³

Operating Weight
79100 - 83200 kg

HYUNDAI
CONSTRUCTION EQUIPMENT

HX800A L SPECIFICATIONS

SPECIFICATIONS	HX800A L
ENGINE	
Maker / Model	Perkins
Model	2506J
Number of cylinders	6
Rated Power (SAE J1995)	402 kW (539 hp) @ 2100 rpm
Max Torque (SAE J1995)	2468 Nm @ 1400 rpm
Piston displacement	15.2 L
Bore and stroke	137 mm x 171 mm
Starter	80 kW (24 V, 12.3 hp)
Battery	2 x 12 V, 200 AH
Alternator	24 V, 15 amp
Air cleaner	Double elements & pre-cleaner
HYDRAULIC SYSTEM	
Main pumps	2 x 504 L/min
Pilot pump	504 L/min
WORKING PRESSURE	
Booms/arms/bucket (normal mode)	357 kg/cm ²
Travel	357 kg/cm ²
Swing	357 kg/cm ²
Pilot	214 kgf/cm ²
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 boom as listed. Pictures of HYUNDAI excavators may show other than standard equipment. HYUNDAI equipment is manufactured with a Quality Management System that is in compliance with ISO 9001:2008.

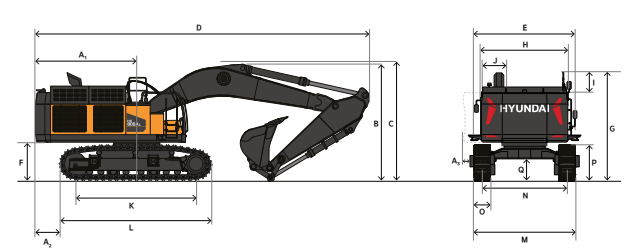
SPECIFICATIONS	HX800A L
SWING MECHANISM	
Swing speed	0 - 74 rpm
Swing torque	3600 kgf·m
DRIVE SYSTEM	
Travel speed (low - high)	3.0 - 4.9 km/h
Traction force max. (drawbar pull)	70700 kgf
Max. grade (limited by engine)	35° (70%)
ENVIRONMENT	
Sound level (2000/14/61)	109 dB (A)
Cabin sound level (ISO 6396)	71 dB (A)
REFILL CAPACITIES	
Fuel tank	880 L
DEF tank	47 L
Cooling system (radiator capacity)	86.3 L
Engine oil (with filter)	60 L
Swing drive	2x8 L
Final drive (each side)	20 L
Hydraulic system	790 L
Hydraulic tank	435 L
HYDRAULIC CYLINDERS	
Boom (2) bore x rod diameter x stroke	190 mm x 125 mm x 1795 mm
Arm (1) bore x rod diameter x stroke	215 mm x 150 mm x 2030/1879 mm (STD/OPT)
Bucket (1) bore x rod diameter x stroke	190 mm x 150/140 mm (STD/OPT) x 1465 mm
AIR CONDITIONING	

The air conditioning system contains fluorinated greenhouse gas refrigerant R32 (Global Warming Potential = 1430). The system contains 0.90 kg of refrigerant representing a CO₂ equivalent of 1.28 metric tonnes.

*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.

HX800A L DIMENSIONS

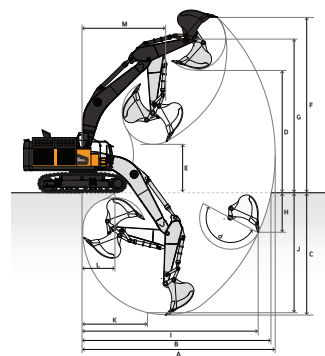
HX800A L				
			Unit: mm	
				
Boom length	7700	6650	G Handrail guard rail height	4100
Arm length	3550	2900	H Upper structure width	3410
Bucket type (SAE)	4.64 m ³	4.64 m ³ 5.24 m ³	I Rail height above cabin	540
Track type	Extendable		J Cabin width	1010
A ¹ Tail swing radius	4100		K Tumbler distance	4730
A ² Tail swing overhang (rear)	1120		L Overall track length	5960
A ³ Tail swing overhang (side)	1975		M Undercarriage width (extended)	4000
B Shipping height (boom)	4815	4420 4905	N Track gauge (extended)	2550
C Shipping height (boom)	4865	4670 5125	O Track shoe width	650
D Shipping length	13165	13370 12320	P Track height	1310
E Shipping width (with step)	3810		Q Ground clearance*	830
F Counterweight clearance*	1490			

*Without grouser

HX800A L

WORKING RANGE

HX800A L



Unit : mm

Boom Length	7700	7700	6650
Arm Length	3550	2900	2900
Bucket type (SAE, PCSA)	4.64 m ³	4.64 m ³	5.24 m ³
A Max. Digging reach	13275	12670	11595
B Max. Digging reach on ground	12945	12390	11290
C Max. Digging depth	8370	7725	7120
D Max. Loading height	8380	8245	7000
E Min. Loading height	3300	3975	3060
F Max. Digging height	12000	11910	10470
G Max. Bucket pin height	10525	10390	9260
H Max. Vertical wall depth	2715	2655	1840
I Max. Radius vertical	12070	11590	10485
J Max. Depth to B' line	8230	7565	6965
K Min. Radius to B' line	4480	4495	3720
L Min. Digging reach	2250	2990	1705
M Min. Swing radius	5730	5775	5340
Bucket angle (deg)	178°	178°	154°

MACHINE WEIGHT AND GROUND PRESSURE

Boom (mm)	Arm (mm)	Bucket (m ³ SAE)	Operating weight (kg)			Ground pressure (kg/cm ²)		
			650 mm shoes	750 mm shoes	900 mm shoes	650 mm shoes	750 mm shoes	900 mm shoes
7700	3750	5.24	80400	81600	83200	1.19	1.04	0.88
7700	2900	4.64	79500	80500	82700	1.21	1.06	0.89
6650	2900	5.24	79100	80700	81700	1.19	1.04	0.88

* incl 10.7 ton standard counterweight

HX800A L

BUCKET SELECTION GUIDE & DIGGING FORCE

BUCKETS

Hyundai buckets

Our heavy-duty buckets are the perfect fit for the HX800A L and are purpose designed for mass excavation in tough applications such as mining and quarrying.

Key features & benefits:

- Made using high-strength steel.
- High abrasion resistance.
- High grade lip plate for greater durability.
- Shaped for easy filling and high productivity.

Capacity (m ³)		Bucket width (mm)	Weight (kg)	Tooth (EA)	6450mm boom		7700 mm boom	
CECE	SAE				2400 mm arm	2900 mm arm	2900 mm arm	3550 mm arm
438	4.64	1950	4785	5	●	○	▲	▲
470	5.24	1940	4964	5	○	■	▲	×

- Applicable for materials with density of 2100 kg/m³ or less
- Applicable for materials with density of 1800 kg/m³ or less
- Applicable for materials with density of 1500 kg/m³ or less
- ▲ Applicable for materials with density of 1200 kg/m³ or less
- × Not Recommended

DIGGING FORCE

Boom	Length	mm	7700	7700	6650
Arm	Length	mm	3550	4200	2900
Bucket	SAE	m ³	5.24	4.64	5.24
Bucket Digging Force	SAE	kN	332	312	332
		kg	33900	31800	33900
	ISO	kN	368	340	358
		kg	36500	34800	36500
Arm Crowd Force	SAE	kN	283.4	252.0	338.5
		kg	28800	25700	33500
	ISO	kN	285.4	254.9	338.4
		kg	29100	26000	34300

HX800A L

LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degrees

HX800A L

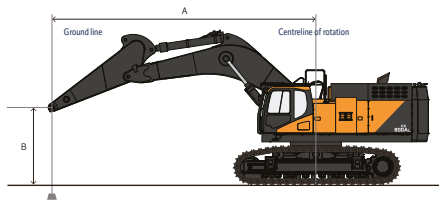
Boom: 6650 mm, Arm: 2900 mm, Counterweight: 10720 kg, Shoe Size: 650 mm, Bucket: None, Unit: kg

Lift-point height m		Lift-point radius										At max. Reach		
		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Capacity	Reach	
												m		
9.0 m	kg											*12.91	*12.91	7.00
7.5 m	kg											*14.68	*14.68	8.00
6.0 m	kg											*14.42	*14.42	8.75
4.5 m	kg											*14.65	*14.44	9.20
3.0 m	kg											*15.34	13.75	9.38
1.5 m	kg											*16.61	13.65	9.32
0.0 m	kg											*17.02	14.19	9.00
-1.5 m	kg											*17.04	15.60	8.41
-3.0 m	kg	*34.85	*34.85	*28.30	*28.30	*22.24	*22.24					*16.43	*16.43	7.47
-4.5 m	kg			*19.89	*19.89	*14.32	*14.32					*14.18	*14.18	6.02

Boom: 7700 mm, Arm: 2900 mm, Counterweight: 10720 kg, Shoe Size: 650 mm, Bucket: None, Unit: kg

Lift-point height m		Lift-point radius										At max. Reach				
		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Capacity	Reach	
														m		
9.0 m	kg													*34.72	*34.72	22.40
7.5 m	kg													*35.58	*35.58	30.58
6.0 m	kg													*32.90	31.64	30.58
4.5 m	kg													*32.20	27.90	32.71
3.0 m	kg													*31.87	25.76	34.00
1.5 m	kg													*31.70	24.55	34.35
0.0 m	kg													*31.57	25.31	33.44
-1.5 m	kg													*31.15	27.25	31.73
-3.0 m	kg													*29.98	*29.98	29.11
-4.5 m	kg													*26.92	*26.92	25.24

1. Load point is the end of the arm.
2. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
3. Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
4. The least stable position is over the side.
5. Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.
6. Lift capacities are in compliance with ISO 10567.



HX800A L

LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degrees

HX800A L

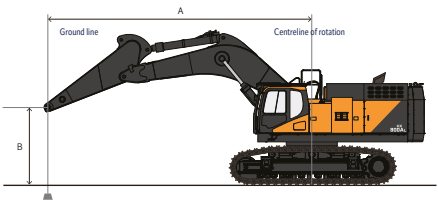
Boom: 7700 mm, Arm: 3550 mm, Counterweight: 10720 kg, Shoe Size: 650 mm, Bucket: None, Unit: kg

Lift-point height m		Lift-point radius										At max. Reach				
		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Capacity	Reach	
																
10.5 m	kg													*12.37	*12.37	7.79
9.0 m	kg													*11.90	*11.90	9.03
7.5 m	kg													*11.46	*11.46	9.93
6.0 m	kg													*14.06	*14.06	10.54
4.5 m	kg													*16.33	*16.33	11.07
3.0 m	kg													*15.37	14.80	10.91
1.5 m	kg													*16.79	13.87	11.01
0.0 m	kg													*16.95	13.58	10.75
-1.5 m	kg													*16.46	13.47	10.26
-3.0 m	kg													*16.71	12.41	9.51
-4.5 m	kg													*15.54	*15.54	8.42
-6.0 m	kg													*13.18	*13.18	6.84

Boom: 7700 mm, Arm: 4200 mm, Counterweight: 10756 kg, Shoe Size: 900 mm, Bucket: None, Unit: kg

Lift-point height m		Lift-point radius										At max. Reach				
		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Capacity	Reach	
																
10.5 m	kg													*10.42	*10.42	8.61
9.0 m	kg													*9.70	*9.70	9.79
7.5 m	kg													*9.37	*9.37	10.62
6.0 m	kg													*13.04	*13.04	11.20
4.5 m	kg													*15.20	*15.20	11.55
3.0 m	kg													*15.67	*15.67	11.69
1.5 m	kg													*15.20	*15.20	11.20
0.0 m	kg													*15.67	*15.67	11.20
-1.5 m	kg													*15.20	*15.20	10.62
-3.0 m	kg													*15.67	*15.67	10.62
-4.5 m	kg													*15.20	*15.20	10.62
-6.0 m	kg													*15.67	*15.67	10.62

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HX800A L STANDARD/OPTIONAL EQUIPMENT

MEMO

ENGINE	STD/OPT	CAB	STD/OPT
Perkins Z500	•	Steel, all-weather & sound-suppressed	•
Stage V compliant	•	Vandalism guard hooks	□
Turbo, waste gate (WGT)	•	Viscous mount with spring reinforcement	•
Air-to-air intercooler	•	Front window with wiper	•
Selective catalyst reduction (SCR)	•	Tinted safety glass	•
Diesel oxidation catalyst (DOC)	•	Sleight top hatch with sun screen	•
Diesel particulate filter (DPF)	•	Pull-up type top front window	•
Three-stage air cleaner	•	Removable lower front window with storage behind seat	•
Cyclonic pre-filter & 3 filter elements	•	Adjustable sliding side door window	•
		Defrost, front window	•
HYDRAULIC SYSTEM	STD/OPT	Seat	
Pilot-operated control valves	•	Height adjustable panels	•
Pattern change valve	□	Sliding control console	•
Removable counterweight system	•	Fully automatic HVAC with ambient temperature sensor	•
Variable-speed hydraulic cooling fan	•	8" multi-function LCD interactive display monitor	•
Axial piston swing motor	•	Digital Bluetooth® audio broadcasting MP3 radio with cell phone integration	•
Auxiliary hydraulics, one- & two-way piping with pedal	□	Audio control panel on/off switch	•
Auxiliary hydraulics, rotate piping	□	Control volume	•
Quick coupler piping	□	Channel select	•
Adjustable auxiliary flow & pressure, 10 presets	•	Antenna, roof-mounted	•
Intelligent floating boom	•	Emergency breakout tool	•
Breaker return filter	□	Cup holder	•
Boom & arm lock valves	•	Shoe case	•
Boom & arm flow regeneration	•	Coat hanger	•
Straight travel	□	Rain shield	•
CONTROLS	STD/OPT	FOG protection (top)	□
Proportional control for auxiliary hydraulics	□	FOG protection (top and front)	□
Roll switch on both joysticks	□	UNDERCARRIAGE	STD/OPT
Lamp home mode control switch	•	Track guards & chocks with adjusters	•
Auto idle control system, one-touch deceleration	•	Full track guard	□
Button on joystick	•	Track rollers, upper	3
Engine speed control dial	•	Track rollers, lower	8
Advanced mechanonics with power mode control system	•	Shoes, double grouser - 650 mm	•
Power modes (P+, P, S, E)	•	Shoes, double grouser - 750 mm	□
Work modes (excavating, lifting, breakers, shear)	•	Shoes, double grouser - 900 mm	□
Joystick display control	•	OTHER	STD/OPT
Electronic Power Optimizing System (EPOS)	•	Automatic lubrication	•
Cross-sensing pump control	•	Handrails & service platforms	•
ELECTRICAL	STD/OPT	Skid-resistant steps & service platforms, upper deck	•
System voltage - 24 V	•	HYUNDAI Fleet Management 5-year subscription	•
1 x 12 V batteries, 200 Ah reserve capacity	•	Air compressor	□
Main circuit breaker	•		
Power sockets - 12 V & 24 V	•		
Electrical remote box with spare fuses & spare relays	•		
LED lights, machine (2), boom (2)	•		
Light, work (LED), 8	•		
Rotating beacon (LED)	□		
Overload warning alarm	•		
Hour meter	•		
Engine restart prevention system	•		
Side view & rearview camera with LED lamps (3)	•		
360° all-around view camera	□		
Laptop service port	•		
Self-diagnostics system	•		
Smart key (remote ignition key)	•		
Emergency stop switch	•		
Swing alarm	•		
Travel alarm	•		
Lower window wiper	•		

• Standard
□ Optional
- Not available

* 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.

HYUNDAI



HD Hyundai Construction Equipment Europe nv, Hyundailaan 4,
3980 Tessenderlo-Ham, Belgium . Tel: +32 (0) 14 56 22 00

Specifications and design are subject to change without notice.
Pictures of Hyundai Construction Equipment Europe products may
show other than standard equipment.



Scan to find out more
about this product.

READY TO CHANGE YOUR WORLD?

Contact your Hyundai dealer.
hyundai-ce.eu/en/dealer-locator