

HX1000AL

CRAWLER EXCAVATOR



Gross Power
469 kW (629 hp) at 2000 rpm

Bucket Capacity
5.4 ~ 6.8 m³

Operating Weight
97900 kg

HYUNDAI
CONSTRUCTION EQUIPMENT

HX1000A L SPECIFICATIONS

SPECIFICATIONS	HX1000A L
ENGINE	
Maker / Model	Perkins
Model	2809d
Number of cylinders	6
Rated Power (SAE J1995)	629 hp (469 kW) at 2000 rpm
Max Torque (SAE J1995)	2951 Nm (3011 kgf.m) @ 1300 rpm
Piston displacement	181 L
Bore and stroke	145 mm x 183 mm
Starter	90 kW (24 V, 12 hp)
Battery	2 x 12 V, 200 AH
Alternator	34 V, 115 A
Air cleaner	Double element air cleaner with 2 stage filtration
HYDRAULIC SYSTEM	
Main pumps	3 x 523 L/min
Pilot pump	60 L/min
WORKING PRESSURE	
Booms/arms/bucket (normal mode)	367 kg/cm ²
Travel	375 kg/cm ²
Swing	300 kg/cm ²
Pilot	204 kg/cm ²
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 loader. 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.

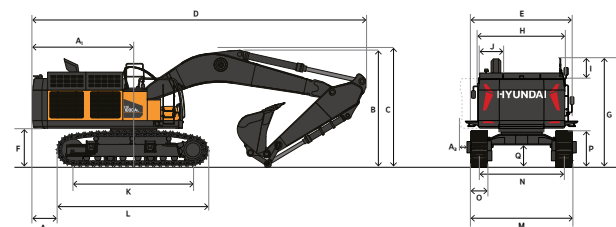
SPECIFICATIONS	HX1000A L
SWING MECHANISM	
Swing speed	0 - 6.3 rpm
Swing torque	39330 kgf.m
DRIVE SYSTEM	
Travel speed (low - high)	2.6 - 4.3 km/h
Traction force max. (drawbar pull)	78700 kgf
Max. grade (limited by engine)	35° (70%)
ENVIRONMENT	
Sound level (2000/14/61)	109 dB (A)
Cabin sound level (ISO 6396)	71 dB (A)
REFILL CAPACITIES	
Fuel tank	1188 L
DEF tank	47 L
Cooling system (radiator capacity)	1065 L
Engine oil (with filter)	65 L
Swing drive	2 x 8 L
Final drive (each side)	20 L
Hydraulic system	881 L
Hydraulic tank	533 L
HYDRAULIC CYLINDERS	
Boom (2) bore x rod diameter x stroke	215 mm x 150 mm x 1905 mm
Arm (1) bore x rod diameter x stroke	240 mm x 170 mm x 2020 mm
	STD ME*
Bucket (1) bore x rod diameter x stroke	210 mm x 145 mm x 1530 mm 225 mm x 160 mm x 1530 mm
AIR CONDITIONING	
The air conditioning system contains fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.90 kg of refrigerant representing a CO ₂ equivalent of 1.287 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.

HX1000A L DIMENSIONS

HX1000A L



Unit : mm

Boom length	8400	7250
Arm length	3750	2900
Bucket type (SAE)	5.4 m ³	6.8 m ³
Track type		
Retractable		
A ¹ Tail swing radius	4620	
A ² Tail swing overhang (rear)	1395	
A ² Tail swing overhang (side)	without step	2465
	with step	2399
B Shipping height (boom)	5450	5090
C Shipping height (hose)	5550	5150
D Shipping length	14550	13800
E Shipping width (with step)	3982	
F Counterweight clearance*	1560	

G Cabin height	3675	
H Upper structure width	without catwalks	3410
	with catwalks	4450
I Cabin height above house	-	
J Cabin width	1070	
K Tumbler distance	5100	
L Overall track length	6340	
M Undercarriage width (without step)**	retracted	3690
	extended	4450
Undercarriage width (with step)**	retracted	3962
	extended	4742
N Track gauge (extended)	3550	
O Track shoe width	650	750 900
P Track height	1452	
Q Ground clearance*	860	

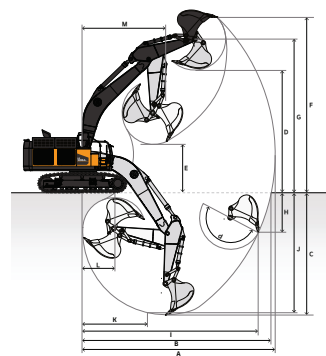
*Without grouser

**With 900 mm track shoe width

HX1000A L

WORKING RANGE

HX1000A L



Unit : mm

Boom Length		8400	7250
Arm Length		3750	2900
Bucket type (SAE, PCSA)		5.4 m ²	6.8 m ²
Track type		Retractable	
A	Max. Digging Reach	14275	12430
B	Max. Digging Reach on Ground	14000	12110
C	Max. Digging Depth	8795	7260
D	Max. Loading Height	9440	8100
E	Min. Loading Height	4210	3910
F	Max. Digging Height	13840	12425
G	Max. bucket pin height	11862	10515
H	Max. vertical wall depth	4470	2695
I	Max. radius vertical	12265	10995
J	Max. depth to 8' line	8645	7110
K	Min. radius to 8' line	5290	4410
L	Min. digging reach	2345	1970
M	Min. swing radius	6295	5345
Bucket angle (deg)		143.8°	145.3°

MACHINE WEIGHT AND GROUND PRESSURE

Boom (mm)	Arm (mm)	Bucket (m ² 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
8400	3750	5.4	98200	98800	100200	1.38	1.20	1.01
7250	2900	6.8	97900	91600	100000	1.37	1.19	1.01

* incl 12.7 ton standard counterweight

HX1000A L

BUCKET SELECTION GUIDE

& DIGGING FORCE

BUCKETS

HD Hyundai buckets
Our heavy-duty buckets are the perfect fit for the HX1000A 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)	7250 mm boom	8400 mm boom
CECE	SAE				2900 mm arm	3750 mm arm
4.9	5.4	1940	5214	5	●	▲
6.1	6.8	2320	5723	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	8400	7250
Arm	Length	mm	3750	2900
Bucket Digging Force	SAE	kN	392.3	4395
		kg	40000	44800
	ISO	kN	421.3	4729
		kg	42960	48200
Arm Crowd Force	SAE	kN	392.3	395.2
		kg	34220	40300
	ISO	kN	360.2	4001
		kg	36730	40800

HX1000A L

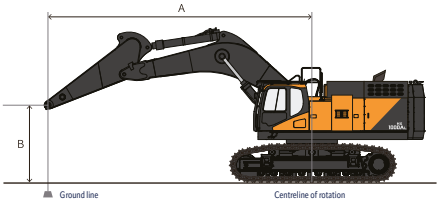
LIFTING CAPACITY

Rating over-front Rating over-side or 360 degrees

HX1000A													
Boom: 7250 mm, Arm: 2900 mm, Counterweight: 12700 kg, 650 mm Double Grouser, Bucket: None, Unit: kg													
Lift-point height m	Lift-point radius								At max. Reach				
	4.5 m		6.0 m		7.5 m		9.0 m		Capacity		Reach		
													m
10.5 m	kg								*19980	*19980	6.40		
9.0 m	kg								*17950	*17950	7.90		
7.5 m	kg								*17100	*17100	8.91		
6.0 m	kg												
4.5 m	kg												
3.0 m	kg												
1.5 m	kg												
0.0 m	kg												
-1.5 m	kg												
-3.0 m	kg												
-4.5 m	kg												

A Distance from center of rotation
B Height

NOTE: Lifting capacities are in compliance with SAE 1097 and ISO 10562. 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 75 kg operator. Caution: please be aware of the local regulations and instructions for lifting operations.



HX1000A L

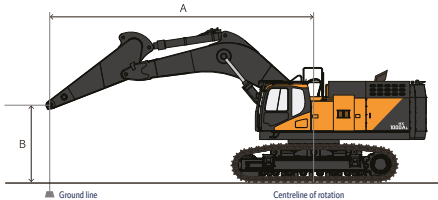
LIFTING CAPACITY

Rating over-front Rating over-side or 360 degrees

HX1000A													
Boom: 8400 mm, Arm: 3750mm, Counterweight: 12700 kg, 900mm Double Grouses, Bucket: None, Unit: kg													
Lift-point height m	Lift-point radius								At max. Reach				
	4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Capacity		
													m
10.5 m	kg												
9.0 m	kg												
7.5 m	kg												
6.0 m	kg												
4.5 m	kg												
3.0 m	kg												
1.5 m	kg												
0.0 m	kg												
-1.5 m	kg												
-3.0 m	kg												
-4.5 m	kg												
-6.0 m	kg												

A Distance from center of rotation
B Height

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HX1000A L STANDARD/OPTIONAL EQUIPMENT

MEMO

ENGINE	STD/OPT	CAB	STD/OPT
Perkins 2806i	•	Steel, all-weather & sound-suppressed	•
Perkins 2806i	•	Hemidome guard hooks	□
Stage V compliant	•	Viscous mount with spring reinforcement	•
Turbo, waste gate (WGT)	•	Front window with wiper	•
Air-to-air intercooler	•	Trimmed safety glass	•
Selective catalyst reduction (SCR)	•	Sunlight top hatch with sun screen	•
Diesel oxidation catalyst (DOC)	•	Pull-up type top front window	•
Diesel particulate filter (DPF)	•	Removable lower front window with storage behind seat	•
Three-stage air cleaner	•	Adjustable sliding side door window	•
Cyclonic pre-filter & 2 filter elements	•	Draft, front window	•
HYDRAULIC SYSTEM	STD/OPT	Seat	
Pilot-operated control valves	•	Height adjustable panels	•
Pattern control 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 pump system	□	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
Lump home mode control switch	•	Track guards & chains 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	9
Advanced mechantronics 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, breaker, shear)	•	Shoes, double grouser - 900 mm	□
Joystick display control	•	COUNTERWEIGHT	STD/OPT
Electronic Power Optimizing System (EPOS)	•	Fixed counterweight 12.7 ton	•
Cross-sensing pump control	•	Removable counterweight 11.3 ton	□
ELECTRICAL	STD/OPT	OTHER	STD/OPT
System voltage - 24 V	•	Automatic lubrication	□
2 x 12 V batteries, 200 AH reserve capacity	•	Handrails & service platforms	•
Main circuit breaker	•	Slid-resistant steps & service platforms, upper deck	•
Power sockets - 12 V & 24 V	•	HYUNDAI Fleet Management 5-year subscription	•
Electrical remote box with spare fuses & spare relays	•	Air compressor	□
LED lights, machine (Z), boom (Z)	•		
Light, work (LED) &	•		
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-diagnosis 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



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Specifications and design are subject to change without notice.
Pictures of HD 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 HD Hyundai dealer.
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