HX1000AL CRAWLER EXCAVATOR



Gross Power 469 kW (629 hp) at 2000 rpm **Bucket Capacity** $5.4 \sim 6.8 \, \text{m}^3$

Operating Weight 97900 kg



HX1000A L SPECIFICATIONS

SPECIFICATIONS	HX1000A L
ENGINE	
Maker / Model	Perkins
Model	2806)
Number of cylinders	6
Rated Power (SAE J1995)	629 hp (469 kW) at 2000 rpm
Max Torque (SAE J1995)	2951 Nm (301.1 kgf.m) @ 1300 rpm
Piston displacement	18.1 L
Bore and stroke	145 mm x 183 mm
Starter	9.0 kW (24 V, 12 hp)
Battery	2 x 12 V, 200 AH
Alternator	24 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	
Boom/arm/bucket (normal mode)	367 kg/cm²
Travel	375 kg/cm²
Swing	300 kg/cm²
Pilot	204 kg/cm²
UNDERCARRIAGE	
Upper rollers (each track)	3
Lower rollers (each track)	9
Number of shoes (links per side)	51

(OTE Where applicable, dimensions are in accordance with Society of Automotive Engineers SAE) and SOS standards. Specifications and designare subject to change without notice. All dimensions are given for HYLVIAM excavators equipped with standard track and the standard tracks and the standard standard standard standard standard stacks and the standard HYLVIAM equipment is manufactured with a Quality Management System that is in compliance with SOSPHOTAMS.

SPECIFICATIONS	HX10	00A L			
SWING MECHANISM					
Swing speed	0 - 6.	3 rpm			
Swing torque	39330	kgfm			
DRIVE SYSTEM					
Travel speed (low – high)	2.6-4.	3 km/h			
Traction force max. (drawbar pull)	7870	0 kgf			
Max. grade (limited by engine)	35° (70%)			
ENVIRONMENT					
Sound level (2000/14/EC)	109 c	IB (A)			
Cabin sound level (ISO 6396)	71 dB (A)				
REFILL CAPACITIES					
Fuel tank	1138 L				
DEF tank	4.	7L			
Cooling system (radiator capacity)	105	i.1L			
Engine oil (with filler)	6!	iL			
Swing drive	2x	8L			
Final drive (each side)	20)L			
Hydraulic system	88	1L			
Hydraulic tank	53	3L			
HYDRAULIC CYLINDERS					
Boom (2) bore x rod diameter x stroke	215 mm x 150 i	nm x 1905 mm			
Arm (1) bore x rod diameter x stroke	240 mm x 170 i	nm 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

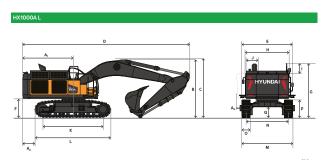
The air conditioning system contains fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.90 kg of refrigerant representing a CO equivalent of 1387 metric tonnes.

*ME: Mass Excavation a

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 niston life.

HX1000A L **DIMENSIONS**



Boom length	Boom length				
Arm length		3750	2900		
Bucket type (SAE)		5.4 m ³	6.8 m ³		
Track type	Track type				
Tail swing radius					
Tail swing overhan	Tail swing overhang (rear)				
Tail swing	without step	2465			
overhang (side)	with step	29	2319		
Shipping height (b	oom)	5450	5090		
Shipping height (h	ose)	5550	5150		
Shipping length	Shipping length				
Shipping width (w	Shipping width (with step)				
Counterweight cle	arance*	15	60		

G	Cabin height			3615		
н	Upper structure width	without catwalks		3410		
п		with catwalks		4450		
1	Cabin height above hous					
J	Cabin width		1010			
K	Tumbler distance	Tumbler distance				
L	Overall track length			6341		
	Undercarriage width	retracted		3690		
м	(without step)**	extended		4450		
м	Undercarriage width	retracted	3982			
	(with step)**	extended		4742		
N	Track gauge (extended)			3550		
0	Track shoe width		650	750	900	
Р	Track height			1452		
Q	Ground clearance*			860		

*Without grouser **With 900 mm track shoe width

HYUNDAI CONSTRUCTION EQUIPMENT HX1000A L

HX1000A L

WORKING RANGE

Во	om Length	8400	7250
An	m Length	3750	2900
Bu	cket type (SAE, PCSA)	5.4 m ³	6.8 m ³
Tra	ck type	Retra	ctable
Α	Max. Digging Reach	14275	12430
В	Max. Digging Reach on Ground	14000	12110
С	Max. Digging Depth	8795	7260
D	Max. Loading Height	9440	8100
Ε	Min. Loading Height	4210	3910
F	Max. Digging Height	13840	12425
G	Max. bucket pin height	11862	10515
Н	Max. vertical wall depth	4470	2695
1	Max. radius vertical	12265	10995
J	Max. depth to 8' line	8665	7110
K	Min. radius to 8' line	5290	4410
L	Min. digging reach	3365	1970
М	Min. swing radius	6295	5345
_	Bucket angle (deg)	143.8°	145.3°

MACHINE WE	IGHT AND GR	OUND PRESSU	IRE						
Boom (mm)	Arm (mm)	Bucket (m³ SAE)		Operating weight (kg)	Ground pressure (kg/cm²)			
boom (mm)	Arm (mm)	DUCKEL (III SAE)	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	98500	100000	1.37	1.19	1.01	

HX1000A L

BUCKET SELECTION GUIDE & DIGGING FORCE

ı	Capaci	ty (m³)	Bucket width (mm)	Michael (La)	Tooth (EA)	7250 mm boom	8400 mm boom	
ı	CECE	SAE	Bucket width (mm) Weight (kg)		IOOUII (EA)	2900 mm arm	3750 mm arm	
ı	4.9	5.4	1940	5214	5	•	A	
ı	6.1	6.8	2320	5723	5		x	

DIGGING FORCE				
Boom	Length	mm	8400	7250
Arm	Length	mm	3750	2900
	SAE	kN	392.3	439.5
Bucket	ZAE	kg	40000	44800
Digging Force	ISO	kN	421.3	472.9
	150	kg	42960	48200
		kN	355.2	395.2
Arm Crowd	SAE	kg	36220	40300
Force	ISO	kN	360.2	400.1
	Ud	kg	36730	40800

HYUNDAI CONSTRUCTION EQUIPMENT

HX1000A L LIFTING CAPACITY

Rating over-front Rating over-side or 360 degrees

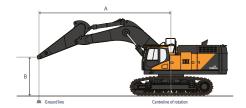
HX1000A

Boom: 7250 mm, Arm: 2900 mm, Counterweight: 12700 kg, 650 mm Double Grouser, Bucket: None, Unit: kg

					Lift-poi	nt radius			At max. Reach			
Lift-	point	4.5 m 6.0 m) m	75 m 9.0 m			Сар	Reach			
	gni. n	ı.	₽	Ф	₩	d d	₩	g.	₩	r.	₩	m
10.5 m	kg									*19980	* 19980	6.40
9.0 m	kg					* 21160	* 21160			*17950	* 17950	7.90
7.5 m	kg					* 21360	* 21360			* 17120	* 17120	8.91
6.0 m	kg			* 26690	* 26690	* 22770	* 22770	* 20630	20130	*16940	*16940	9.57
4.5 m	kg			* 30620	*30620	* 24730	* 24730	* 21480	19550	* 17250	16610	9.96
3.0 m	kg			*34060	*34060	* 26630	24750	* 22420	18930	*18060	15890	10.10
1.5 m	kg			* 35830	33020	* 27900	23880	* 23050	18420	*19470	1580	10.02
0.0 m	kg			* 35760	32460	* 28140	23390	* 22940	18120	* 20800	16380	9.70
-1.5 m	kg	* 43150	* 43150	* 34020	32430	* 27040	23280	* 21420	18170	* 20890	17860	9.13
-3.0 m	kg	* 37870	* 37870	* 30360	* 30360	* 23910	23620			* 20570	* 20570	8.23
-4.5 m	kg	* 29380	* 29380	* 23410	* 23410					* 19020	*19020	6.89

A Distance from center of rotatio

NOTE: Lifting capacities are in compliance with SAE 1097 and ISO 1056.If Machine in lifting mode with power boost turned on. Load point is the end of the arm. Rated loads shown do not exceed 7% 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 7% sig operator. Caution: please be aware of the local regulations and instructions for little inconsections.



HX1000A L LIFTING CAPACITY

Rating over-front Rating over-side or 360 degrees

1000A

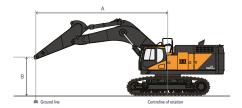
Boom: 8400 mm, Arm: 3750mm, Counterweight: 12700 kg, 900mm Double Grouser, Bucket: None, Unit: kg

						Liftpoir	nt radius					At max. Reach		
Liftp hei	oint	4.5	m	6.0) m	7.5	im	9.0 m 10.5		5 m	Capacity		Reach	
nei		r de	₩	f)	₩	g.	₩)	₽	₩	₽.	₽	ф	₽	m
10.5 m	kg							*15250	* 15250			*14630	*14630	9.06
9.0 m	kg							*17950	* 17950			*13900	*13900	10.17
7.5 m	kg					* 20710	* 20710	*18470	* 18470	* 17010	15970	*13630	* 13630	10.96
6.0 m	kg					* 22520	* 22520	* 19410	* 19410	*17350	15620	*13670	13270	11.50
4.5 m	kg					* 24490	* 24490	* 20480	19280	* 17860	15130	*14000	12380	11.83
3.0 m	kg					* 26090	24010	* 21410	18440	*18300	14630	*14640	11910	11.95
1.5 m	kg					* 26880	22990	* 21920	17750	* 18470	1420	*15630	1180	11.88
0.0 m	kg					* 26680	22380	* 21800	17290	*18160	1390	*15670	12060	11.62
-1.5 m	kg			* 31290	31040	* 25460	22150	* 20880	17080	*17090	1380	*15370	12770	11.14
-3.0 m	kg	* 33040	* 33040	* 28040	* 28040	* 23160	22240	* 18910	17150			* 14810	14120	10.43
-4.5 m	kg	* 27130	* 27130	* 23420	* 23420	* 19410	* 19410	* 15180	* 15180			* 13700	*13700	9.41
-6.0 m	kg			*16640	*16640	* 13050	*13050					* 11340	* 11340	7.98

A Distance from center of rotation

B Height

NOTE: Lifting capacities are in compliance with SAE 1097 and ISO 1955! Machine in lifting mode with power boost turned on. Load point is the end of the arm. Rated loads shown do not exceed 15% of minimum tipping loads or 81% of hydraulic capacities. Rated loads marked with an atteriek (*) 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 ig operator. Caution: please be aware of the local regulations and instructions for lifting operations.



HYUNDAI CONSTRUCTION EQUIPMENT HX1000A L

HX1000A L STANDARD/OPTIONAL EQUIPMENT

ENGINE	STD/OP1
Perkins 2806I	•
Perkins 28061	•
Stage V 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 & 2 filter elements	
cyclonic pre-liner &2 liner elements	
HYDRAULIC SYSTEM	STD/OP1
Pilot-operated control valves	
Pattern control change valve	<u> </u>
Removable counterweight system	.
Variable-speed hydraulic cooling fan	-
Axial piston swing motors	- 0
Auxiliary hydraulics, one- & two-way piping with pedal	
Auxiliary hydraulics, rotate piping	
Quick coupler piping	
Adjustable auxiliary flow & pressure, 10 presets	
intelligent floating boom	•
Breaker return filter	
Boom & arm lock valves	•
Boom & arm flow regeneration	•
Straight travel	
CONTROLS	STD/OP
roportional control for auxiliary hydraulics,	
Roll switch on both joysticks	
imp home mode control switch	•
Auto idle control system, one-touch deceleration	•
	•
Button on joystick Engine speed control dial	•
Engine speed control dial Advanced mechatronics with power mode control system	•
ingine speed control dial Advanced mechatronics with power mode control system Power modes (P+, P, S, E)	-
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Engine speed control dial Advanced mechatronics with power mode control system Power modes (P+, P, S, E)	STD/OP1

CAB	STD/OPT
Steel, all-weather & sound-suppressed	
Vandalism quard hooks	
Viscous mount with spring reinforcement	•
Front window with wiper	
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	
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 protection (top)	
FOG protection (top and front)	
UNDERCARRIAGE	STD/OPT
Track quards & chains with adjusters	
Full track quard	
Track rollers, upper	3
Track rollers, lower	9
Shoes, double grouser – 650 mm	•
Shoes, double grouser – 750 mm	
Shoes, double grouser – 900 mm	0
COUNTERWEIGHT	STD/OPT
Fixed counterweight 12.7 ton	
Removeable counterweight 11.3 ton	-
	1
OTHER	STD/OPT
Automatic lubrication	
	•
Handrails & service platforms	
Skid-resistant steps & service platforms, upper deck	•
	:

HYUNDAI CONSTRUCTION EQUIPMENT





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