





New H4 Series Innovation coming from experience

Being produced with developed hydraulic system design, HİDROMEK's new H4 Series excavators offer an outstanding performance by working faster, more productively and more efficiently. H4 Series excavators produce more work with less fuel; hence, they are more profitable for their users than ever.



Performance..... Durability......8-11 Safety.......12-13 Technology......14-15 Comfort......16-17 HİDROMEK Smartlink - Ease of Service......18-19 Technical Features20-25 The information and images, and equipment presented in this brochure are either standard or optional depending on the configuration. HİDROMEK has the right to modify the specifications and the designs of the model indicated in this brochure without prior notice.



More work within less time

17 % More productive*

Shortening the work cycle time with bigger bucket capacity and speed, H4 Series carry the productivity to the top level with their new technology.

7 % More efficient*

With improvements to the attachment and hydraulic group, H4 Series excavators ensure more work within less time.

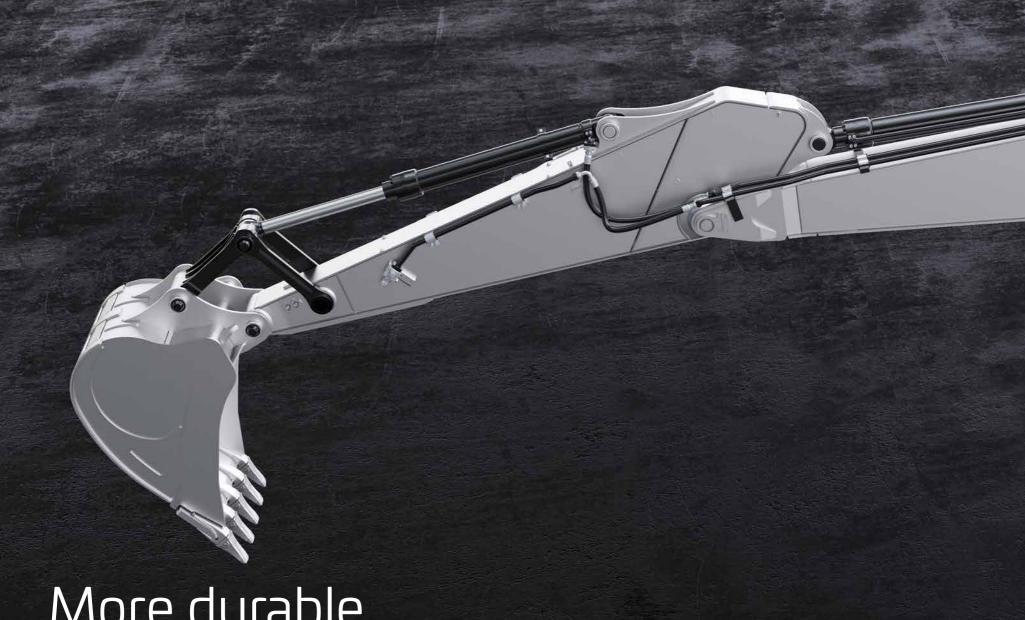
10 % Faster*

With faster hydraulic movements due to developed hydraulic system design, H4 Series excavators ensure more work within less time.



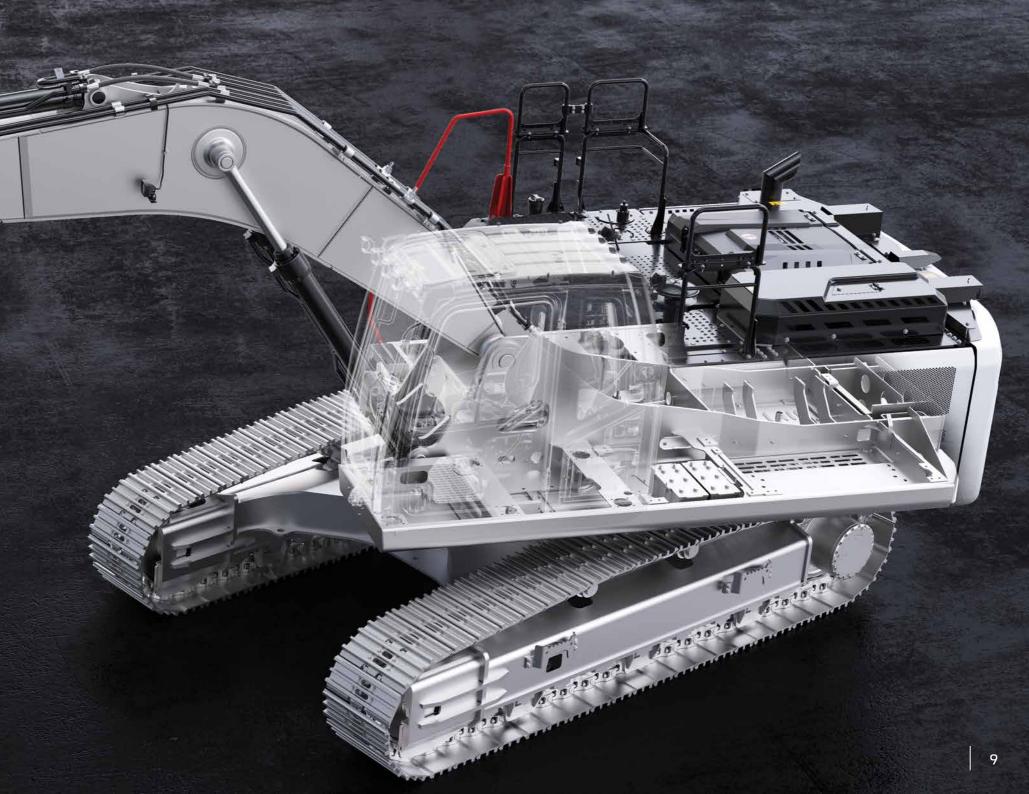
^{*} The data are prepared in comparison with the previous serie in HP mode.





More durable

Produced to have reinforced heavy duty construction considering maximum performance, long life and smooth operation in severe field conditions, HIDROMEK excavators ensure more durability with the improvements made in the new H4 Series.





More durable anti-wearing plates (Hardox 450 HB)



Optimized bucket form



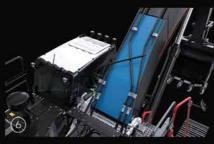
Reinforced arm supporting parts



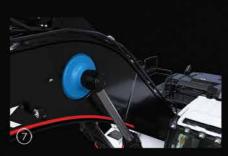
Reinforced casting tip



Heavy duty arm



Reinforced boom structure



Reinforced boom cylinder cast bearing



Reinforced lowerframe and undercarriage components

Reinforced heavy duty construction

With their reinforced heavy duty construction produced at HIDROMEK's modern production facilities and going through sensitive quality-control processes, H4 Series excavators have excellent durability.

Bronze-Graphite Bushings



Bronze-graphite bushings used in boomarm and boom-frame connection points increase the lubrication period, and greatly prevent the wear of the pins because of graphite, having a very high grease absorption and retention capability, embedded in the inner structure of the bushings.



Safeworkingenvironment

ROPS&FOPS cabin

Having the standards of ROPS (Roll Over Protective Structure) & FOPS (Falling Object Protective Structure), H4 Series excavators provide maximum safety and durability.

Wide vision capacity
Designed with giving special importance to occupational safety, H4 Series ensure excellent vision by minimizing the blind spot on the side and rear cameras. Along with the increase in the number of led headlights, the night vision is significantly improved on H4 Series excavators; in addition, there are also red handles and warning labels providing maximum safety for the operator.

Audio warning systems

H4 Series excavators enable safer working environment with their automatic starting horn, swing warning system and travel warning sustem.







Shaped with technology

Electronic system of H4 Series excavators designed to protect the engine and hydraulic components to provide fuel saving and superior performance.

Automatic stop system

In the new series, automatic stop system through configurable idling and stopping times provides fuel saving by stopping the engine after the machine is on idle. Automatic stop system in H4 Series helps to decrease the operational costs to minimum, and contributes to saving the environment.

Safe fuel transfer pump

"Safe fuel transfer pump" added to H4 Series stops the pump automatically when the tank is full and this feature gets activated also when the pump does not transfer fuel for 30 seconds, and ensures that the pump stops automatically.

Power boost technology

In H4 Series, power boost technology gets activated automatically in the conditions when the machine needs extra power, and ensures that the machine has the proper performance for the work.

8" Touch control panel

8 inch touch control panel is positioned ergonomically at a point that the operator can easily reach it. Touch control panel having high quality hardware and a large screen easily enables to control the machine features and access to machine information.

The features of touch control panel:

- It offers multi-language option
- Music system is integrated into 8 "touch control panel.
- •It allows the operator to adjust the flow required for the attachment without leaving the cab and save this information for 20 different attachments.
- •Selection of double or single acting line can also be done over the user panel.
- During travel, rear and side view cameras with improved image quality and activated automatically can be controlled.
- •Information on the average and instant fuel consumption can be obtained.
- Information on status such as atmospheric pressure, turbo boost pressure, fuel pressure and hydraulic pump pressure can be obtained.
- •User can acquire working hour information such as work, attachment and travel.
- Maintenance registries can be obtained, and the user is warned when the maintenance time approaches.
- Failure codes and registries can be obtained.
- · Audio warning systems can be controlled.



The aesthetic design of power

HIDROMEK

The seat ergonomic, heated, air suspended and having 35 degrees adjustable backrest angle is provided in H4 Series, and it enables the operator to work comfortably and without getting tired for long working hours.

H4 Series which has many features* such as proportional control pedals and joysticks, throttle control dial, operator touch screen, interior light, cup holder and heating-cooling box give more importance to user comfort.

* Other features for user comfort on H4 Series machines can be found on page 21.

Office comfort in construction equipment

Automatic air conditioning system

Air vents and air conditioning system which can automatically adjust itself according to the ambient heat located in the redesigned cabin provide the best cooling performance in its class by 30%.

Wide angle view

On the new series machines, the new two-piece windshield wiper system designed for creating more comfortable work environment provides a wide angle view which increases the work efficiency of the user.

Led headlights for night vision Led headlights on new H4 Series machines improve

Led headlights on new H4 Series machines improve the night vision, and enable the operator to work more safely and comfortably.

Dampers

By using 6 silicone dampers on H4 Series excavators, noise, shock and vibration are absorbed and prevented from being transmitted to the cabin under any working condition.



You have the control with HIDROMEK SmartLink

Telematic system HİDROMEK Smartlink allows the user to easily access to machine location and technical information via computer and mobile phone.

Follow the work time and location of your machine through HİDROMEK Smartlink!

Through GPS tracking system, it is possible to track the location and the work time intervals of the machine.

Analyze your fuel consumption through HiDROMEK Smartlink!

It is possible to analyze fuel consumption according to the working conditions of the machine and daily fuel parameters.

Check the works for which your machine has been used through HİDROMEK Smartlink!

Through working mode information, it is possible to see the daily and total working hours of the machine for excavation and leveling and with crusher or with other optional attachments besides the power mode information and the speed ranges.

Follow your machine's maintenance through HİDROMEK Smartlink!

Under the Alerts list, the machine's upcoming maintenance can be checked while the information of the nearest authorized service can be obtained, and it can be contacted.

Contact the nearest authorized service or regional service through HIDROMEK Smartlink!

With the application, it is possible to obtain the information on Regional and Authorized Services of HİDROMEK After Sales Services as well as the directions to them.

Have performance reports for the selected periods of time for your machines through HİDROMEK Smartlink!

For any selected periods of time, it is possible to have a report on daily fuel consumption, average fuel consumption, power and working modes, daily work time intervals and locations.





Easy maintenance and fast service for H4 Series through safe and easy access

H4 Series excavators, designed considering fast access to hydraulic and engine equipment, provide easy maintenance and service. Most of the maintenance can be easily carried out without getting on the machine, which shortens the service time and increases machine work time.

Automatic greasing system ensures that all parts of the machine can be lubricated from one single center.



ENGINE

Brand & Model	ISUZU-GH-6HK1X		
Туре	Water cooled, 4 cycles, 6 cylinders, inline, diesel engine with direct injection, turbocharger and intercooler		
Power	239 HP (178 kW) @1900 rpm / SAE J1995 (Gross)		
Maximum Torque	1014 Nm (a)1400 rpm (Gross)		
Displacement	7790 сс		
Bore x Stroke	115 mm x 125 mm		
Emission Class	R96 (Stage-IIIA)		

HYDRAULIC SYSTEM

MAIN PUMP

Туре	2 axial piston pumps with variable displacement and swashplate
Max. Flow Rate	2 x 259 L/min
Pilot Pump	Gear type, 27 L/min

WORKING PRESSURE

WORKING! KESS	UKE .
Attachment	350 kgf/cm ²
Power Boost	380 kgf/cm²
Travel	350 kgf/cm ²
Swing	285 kgf/cm ²
Pilot	40 kgf/cm ²

HYDRAULIC CYLINDERS

Boom	2 x Ø 135 x Ø 95 x 1.455 mm
Arm	1 x ø 150 x ø 105 x 1.760 mm
Bucket	1 x Ø 135 x Ø 95 x 1.195 mm

Swing motor	Fixed swashplate piston motor integrated with super shock absorber valve
Reduction	2 stage, planetary gear type
Swing Brake	Hydraulic disc type, pilot operated and automatically released
Swing Speed	10,4 rpm

LOWER FRAME "X" type lower frame with pentagon shaped box type side frames Construction Shoe Triple grouser No. of Shoes 2 x 51 pieces No. of Lower Rollers 2 x 9 pieces

2 x 3 pieces Track Tensioner Hydraulic type with spring cushioning

2 x 2 pieces

ELECTRICAL SYSTEM

No. of Upper Rollers

Full Trackguard

Voltage	24V
Battery	2 x 12 V / 150 Ah
Alternator	24 V / 50 A
Starter Motor	24 V / 5 kW

TRAVEL AND RRAKES

IRAVELANDE	DRANES	
Travel		Fully hydrostatic
Travel Motor		Axial piston motor with 2 speed stages and swashplate
Reduction		2 stage, planetary gear type
Travel Speed	High Speed	5,1 km/h
	Low Speed	3,0 km/h
Max. Traction		25.535 kgf
Gradeability		35° (%70)
Parking Brake		Hydraulic disc type, pilot operated and automatically released
Ground Pressure (With 600 mm Shoe)		0,60 kgf/cm ²

FILLING CAPACITIES

Fuel Tank	475 L	Engine Cooling System	55 L
Hydraulic Tank	210 L	Engine Oil	38 L
Hydraulic System	395 L		

OPERATING WEIGHT (kg)

	Mono Boom	LR
HMK 310 LC	31.600	34.500
HMK310 NLC	32.400	-

EQUIPMENT HMK 310 LC

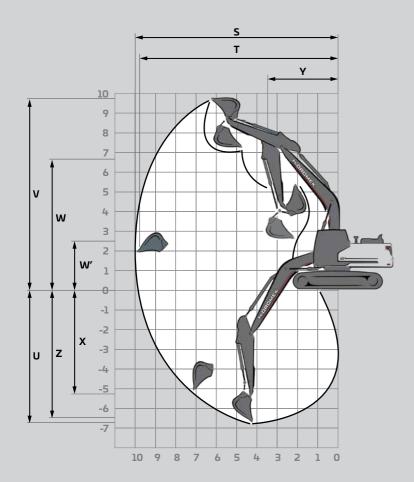
Engine	Standard	Optional
Water cooled diesel engine with turbocharger and intercooler	•	
Engine pre-heat function	•	
Automatic idling	•	
One touch auto-idle system	•	
Automatic stop function	•	
Two-stage air filter	•	
Air filter clogged indicator	•	
Low engine pressure warning system	•	
Overheat warning system	•	
Adjustable power modes	•	
High altitude working function	•	
Electronical engine control	•	
Hydraulic System		
Boom and arm regenaration valve		
Automatic power boost	•	
Smooth boom feature		0
Main hydraulic filter	•	
Backup ports (valve)	•	
Cylinder cushioning and contamination seals	•	
Single-acting hydraulic line, breaker		0
Double- acting hydraulic line, crusher		0
Additional line		0
Quick coupling line		0
Attachment settings through instrument panel		0
OPERATOR'S CAB		
Pressurized and sound isolated cabin	•	
Air-conditioning	•	
Air-suspension seat	•	
Heated seat		0
Operator touch screen	•	
Opera control system	•	
Throttle control dial	•	
Automatic travel speed (low / high)	•	
4 different working modes	•	
Sliding windscreen and removable lower windscreen	•	
Openable left door window	•	
Upper and lower windshield wiper	•	
Joysticks and pedals	•	
Travel pedals and control levers		
Proportional controlled pedals and joysticks	· ·	0
Electric horn		U
Intrerior light		
3		
Cup-holder		
Convenient storage		
Convenient storage (for equipment)		
Heating & Cooling box	•	
Easy-cleaned floor	•	
12V power socket	•	
Computer connection port	•	
Radio / mp3 / usb / Aux	•	
Detachable Movement Levers		0

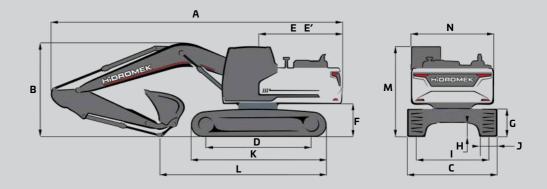
Lower Frame	Standard	Optional
Narrow Lower Chassis (NLC)		0
Track width options 700/800		0
Lubricated and sealed track components	•	
Dozer blade		0
Mooring points for shipment	•	

Safety	
ROPS (Roll Over Protective Structure)	
FOPS (Falling Object Protective Structure)	
Rear view camera •	
Side view camera	0
Right and left rear view mirrors	
Working lamps •	
LED working lamps	0
Rotating beacon	0
Swing and travel alarm	0
Emergency engine stop switch	
Pilot operated and automatically released swing brake	
Boom and arm cylinder safety valve	0
Overload warning system	0
Battery cut-off switch •	
Handrails by the steps and on the upper frame	
Perforated metal non-slip plates	
Safety locking device	
Safety glass •	
Emergency hammer •	
Lockable fuel tank cover	
Upper and lower guards for windshield	0
Operator's cab ceiling guard	0

Miscellaneous		
Telematic system (HİDROMEK Smartlink)		0
GEO System		0
Fuel transfer pump with automatic stop	•	
Water sensor on fuel pre-filter	•	
Bio oil B7	•	
Alternator - Battery	•	
Battery Charge Indicator	•	
Automatic lubrication system		0
Working lamp guards		0
Hydraulic breaker return line filter		0
Double pump combination function		0
Choosing single or double acting attachment on the instrument panel		0
Choosing the control method for the optional attachment		0
Boom cylinder piping guard		0
Bucket cylinder rod guard		0
Warning horn	•	
Counterweights		0

• STANDARD O OPTIONAL





	DIII	MENSIONS			C		N	LC					
			,	Mono Boor	LR	_R Mono Boom							
	ВОС	DM (m)	6,28	*6,28	6,28	10,30	6,28	6,28					
	ARN	Л (m)	2,10	*2,50	3,07	7,80	2,50	3,07					
	A)	Overall Length	10.930	10.880	10.790	14.800	10.880	10.790					
	B)	Overall height (to top of boom)	3.580	3.490	3.320	3.270	3.490	3.320					
	C)	Overall Width		3.200		3.400	2.99	90					
	D)	Distance between tumblers			4.0	30							
(mm)	E)	Distance from center of swing to rear end			3.2	40							
	E´)	Tail swing radius	3.295										
GENERAL DIMENSIONS	F)	Counterweight Clearance		1.200									
99	G)	Track Height			1.0	70							
E S	H)	Ground Clearance			50	5							
	I)	Track Gauge		2.60	00		2.3	90					
冒	J)	Shoe Width		600		800	60	0					
	K)	Track Length			40								
	L)	Length on ground (transport)	7.540	6.780	5.860	4.820	6.780	5.860					
	M)	Overall height of cab			3.12	25							
	N)	Overall width of upperstructure			3.0	00							
	S)	Maximum Digging Reach	10.020	10.370	10.910	18.360	10.370	10.910					
	T)	Maximum Digging Reach on Ground Level	9.790	10.150	10.700	18.240	10.150	10.700					
آ ي	U)	Maximum Digging Depth	6.360	6.760	7.330	14.250	6.760	7.330					
WORKING RANGES (mm)	V)	Maximum Digging Height	9.860	9.990	10.290	14.920	9.990	10.290					
RK	W)	Maximum Dumping Height	6.870	7.020	7.300	12.550	7.020	7.300					
N N	W′)	Minimum Dumping Height	3.970	3.310	2.760	2.500	3.310	2.760					
RA L	X)	Maximum Vertical Digging Depth	4.890	5.140	5.780	12.570	5.140	5.780					
	Y)	Minimum Swing Radius	4.440	4.360	4.280	5.930	4.360	4.280					
	Z)	Maximum Digging Depth (2440 mm level)	6.140	6.560	7.160	14.140	6.560	7.160					

^{*} Standard

FORCE	S							
			L	C		N	ב	
			Mono Boom		LR	Mono	Boom	
	BOOM (m)	6,28	*6,28	6,28	10,30	6,28	6,28	
	ARM (m)	2,10	*2,50	3,07	7,80	2,50	3,07	
	Bucket Digging Force		17.200		5.700	17.2	17.200	
SAE	Bucket Digging Force (Power Boost)		18.700		-	18.7	00	
) SAE	Arm Crowd Force	18.700	15.700	13.000	4.700	15.700	13.000	
	Arm Crowd Force (Power Boost)	20.200	17.000	14.100	-	17.000	14.100	
	Bucket Digging Force		19.600		10.500	19.6	00	
ISO	Bucket Digging Force (Power Boost)		21.300		-	21.2	00	
150	Arm Crowd Force	19.600	16.400	13.600	6.900	16.400	13.600	
	Arm Crowd Force (Power Boost)	21.300	17.800	14.700	-	17.800	14.700	

A- Material density less than 2.000 kg/m³

B- Material density less than 1.800 kg/m³

C- Material density less than 1.500 kg/m³

D- Material density less than 1.200 kg/m³

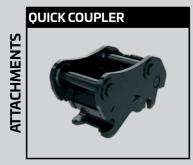




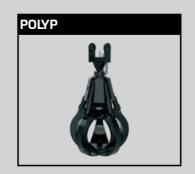
-	
Width	1.490 mm
Capacity (SAE)	*1,60 m³
Weight	1,370 kg
Number of Teeth	5
2,10 m	А
*2,50 m	В
3,07 m	С
	Capacity (SAE) Weight Number of Teeth 2,10 m *2,50 m

OPTIONAL	.BUCKET SI	ELECTION S	SCHEME							
General Purp						Type Bucket				
650 mm	750 mm	1.300 mm	1.500 mm	1.700 mm	750 mm	1.095 mm	1.270 mm	1.410 mm	1.550 mm	1.620 mm
0,55 m³	0,60 m³	1,25 m³	1,50 m³	1,70 m³	0,60 m³	1,10 m³	1,30 m³	1,50 m³	1,70 m³	1,80 m³
730 kg	740 kg	1.060 kg	1.160 kg	1.320 kg	860 kg	1.120 kg	1.220 kg	1.340 kg	1.400 kg	1.450 kg
3	3	5	5	5	3	4	4	5	5	5
А	А	А	А	В	А	А	А	А	В	С
А	А	В	В	С	А	А	А	В	С	С
А	А	С	С	С	А	А	А	С	С	D

^{*} Standard









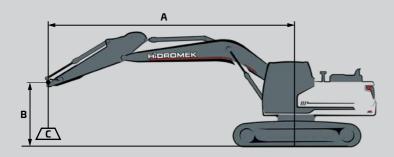


LIFTING	CAPACIT	Y (kg)												НМ	K 310 LC
	Boom:	6,28 m	Arm:	2,5 m	Without bucket		STD, 600 r	nm Crawler		CW: 52	200 kg		: Fron	t #	⊶ : Side
A, m	1,5		3,	.0	4	,5	6,	,0	7,	,5	9	,0	Maximum Reach		ch
B, m	Ţ	(**	1	44	7	#	Ţ	**	Ţ	#	Ţ	(4)	1	(4)	R, m
7,5							*7050	*7050					*7250	6900	6,80
6,0							*7400	*7400	*7150	5850			*7200	5450	7,79
4,5					*10700	*10700	*8450	8000	*7500	5700			*7300	4700	8,39
3,0							*9800	7500	*8150	5450			6950	4350	8,69
1,5							*10950	7100	8450	5250			6800	4250	8,72
O (Ground)					*15950	10400	*11600	6900	8350	5100			7000	4350	8,48
-1,5			*12800	*12800	*15500	10450	11550	6850	8300	5100			7650	4750	7,95
-3,0			*19250	*19250	*14250	10600	*10800	7000					*8750	5650	7,07
-4,5			*15400	*15400	*11500	11050							*8800	8000	5,64

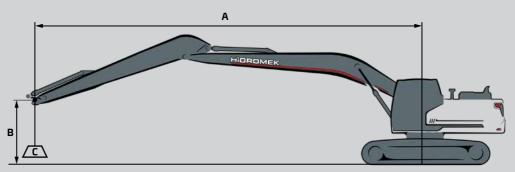
LIFTING	CAPACIT	Y (kg)												НМ	K 310 LC	
	Boom:	6,28 m	Arm:	3.07 m	Withou	t bucket	STD, 600 r	nm Crawler		CW : 52	200 kg		: Fron	t #	🗰 : Side	
A, m	1,	,5	3,0		4,	,5	6,	,0	7,	.5	9,	,0	M	Maximum Reach		
B, m	Ţ	(4)	Ţ	(4)	Ţ	#	Ţ	#	Ţ	**	Ţ	#	Ī	(**	R, m	
7,5													*4750	*4750	7,48	
6,0									*6500	5950			*4500	*4500	8,39	
4,5					*9500	*9500	*7800	*7800	*6950	5750			*4500	4300	8,95	
3,0					*12450	11550	*9200	7650	*7700	5500	6600	4150	*4600	3950	9,23	
1,5					*14800	10750	*10500	7200	*8400	5250	6450	4050	*4900	3850	9,26	
O (Ground)					*15800	10400	*11350	6900	8300	5100	*5950	3950	*5400	3950	9,04	
-1,5	*9000	*9000	*12800	*12800	*15750	10350	11500	6800	8250	5000			*6250	4250	8,54	
-3,0	*14950	*14950	*20250	*20250	*14900	10450	*11150	6850	8300	5100			*7850	4900	7,72	
-4,5			*17700	*17700	*12850	10800	*9450	7100					*8400	6500	6,45	

LIFTING	CAPACIT	Y (kg)												НМК	310 NLC
	Bom:	6,28 m	Arm:	2,5 m	Withou	t bucket	STD, 600 r	nm Crawler		CW : 60	000 kg		: Fron	t #	: Side
A, m	1	,5	3,	,0	4	,5	6,	,0	7,	.5	9	,0	Maximum Reach		ch
B, m	Ţ	(4) -	Ţ	(4)	1	(4)	Ţ	#	Ţ	65 -	Ţ	(4)	Ţ	(4)	R, m
7,5							*7050	*7050					*7250	6800	6,80
6,0							*7400	*7400	*7150	5750			*7200	5350	7,79
4,5					*10700	*10700	*8450	7800	*7500	5600			*7300	4650	8,39
3,0							*9800	7350	*8150	5350			7350	4300	8,69
1,5							*10950	7000	8750	5150			7250	4200	8,72
O (Ground)					*15950	10100	11600	6750	8850	5050			7450	4300	8,48
-1,5			*12850	*12850	*15500	10100	11600	6700	8800	5000			8150	4700	7,95
-3,0			*19250	19250	*14250	10300	*10800	6850					*8750	5550	7,07
-4,5			*15400	*15400	*11500	10700							*8800	7800	5,64

LIFTING	CAPACIT	ΓY (kg)											HMK 31	.0 LC LR			
	Boom:	10,3 m	Arm:	7,8 m	Without bucket		STD, 800 r	mm Crawler		CW: 7	100 kg				: Front == : Side		⊶ : Side
A, m	3,0		6,	6,0		.0	12	2,0	15	,0	18	,0	21	,0	Maximum Reach		
B, m	Ţ	(6)	Ţ	**	Ţ	(4	Ţ	(4)	Ţ	(1)	Ţ	(()	J	(4)	Ţ	(4)	R, m
12.0															*1750	*1750	13,84
9,0									*2250	*2250					*1700	*1700	15,58
6,0							*2750	*2750	*2550	2200					*1700	*1700	16,60
3,0	*4350	*4350	*6150	*6150	*4100	*4100	*3250	3050	*2800	2000					*1850	1550	17,04
O (Ground)	*2850	*2850	*8250	6800	*5050	4050	*3750	2650	*3050	1850					*2050	1450	16,93
-3,0	*4750	*4750	*9150	6050	*5700	3550	*4100	2400	3000	1700					*2450	1500	16,28
-6,0	*7000	*7000	*9100	5950	*5850	3400	4050	2250							3000	1650	15,00
-9,0	*9750	*9750	*8200	6250	*5450	3500	*3850	2350							*3450	2150	12,91
-12,0			*6050	*6050	*4000	3900									*3700	3650	9,48



- A Load Radius
- **B** Load Point Height
- **C** Lifting Capacity



- 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards
- **2.** The load point is the center-line of the bucket pivot mounting pin on the arm
- **3.** Lifting capacity cannot exceed 75% of tipping capacity or 87% of hydraulic capacity.
- 4. (*) indicates load limited by hydraulic capacity.

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