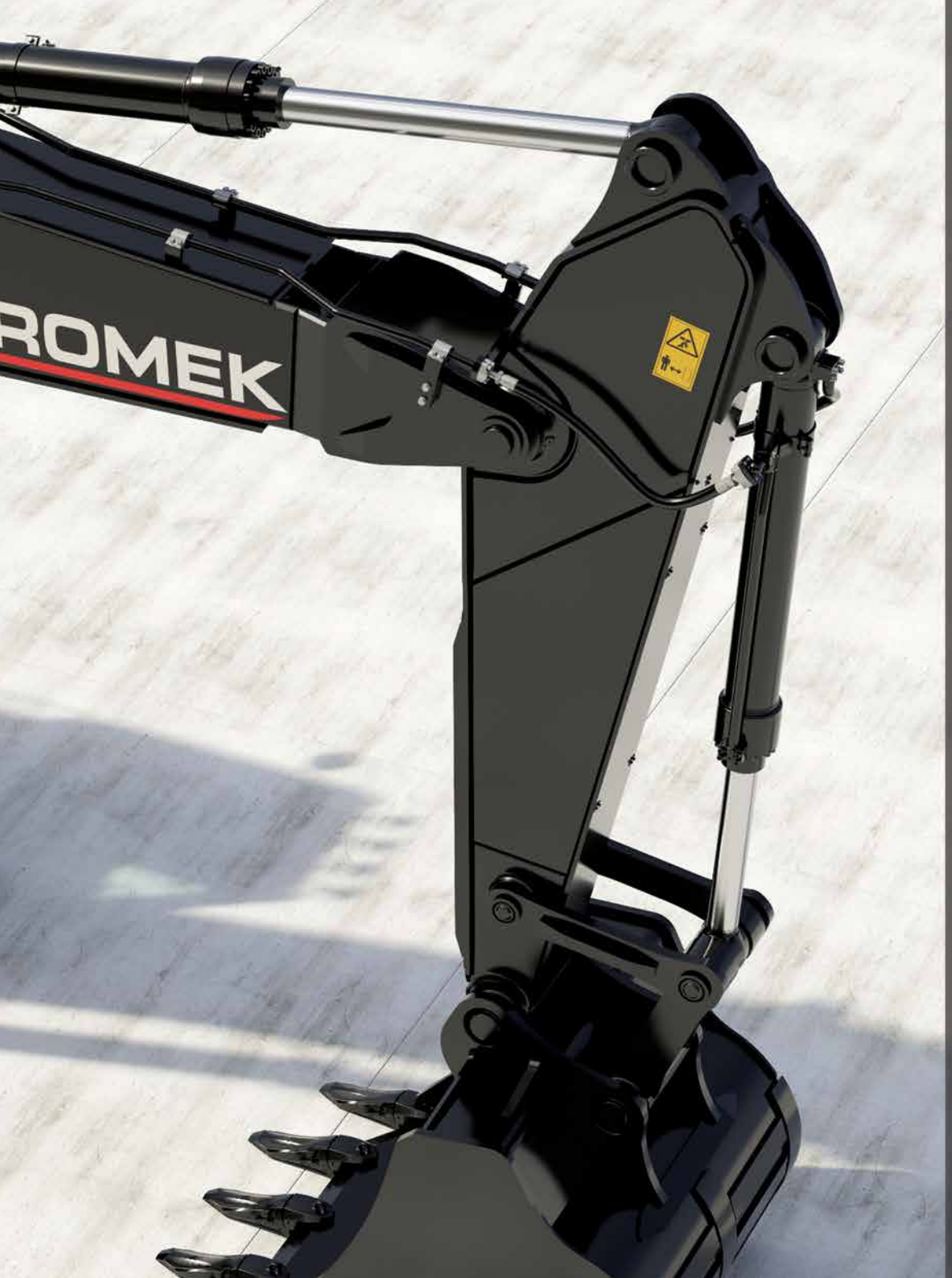
H4 SERIES

HMK 500 LC HD

HIDROMEK

500
HMK 500 LC HD



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.

H4 SERIES

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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.

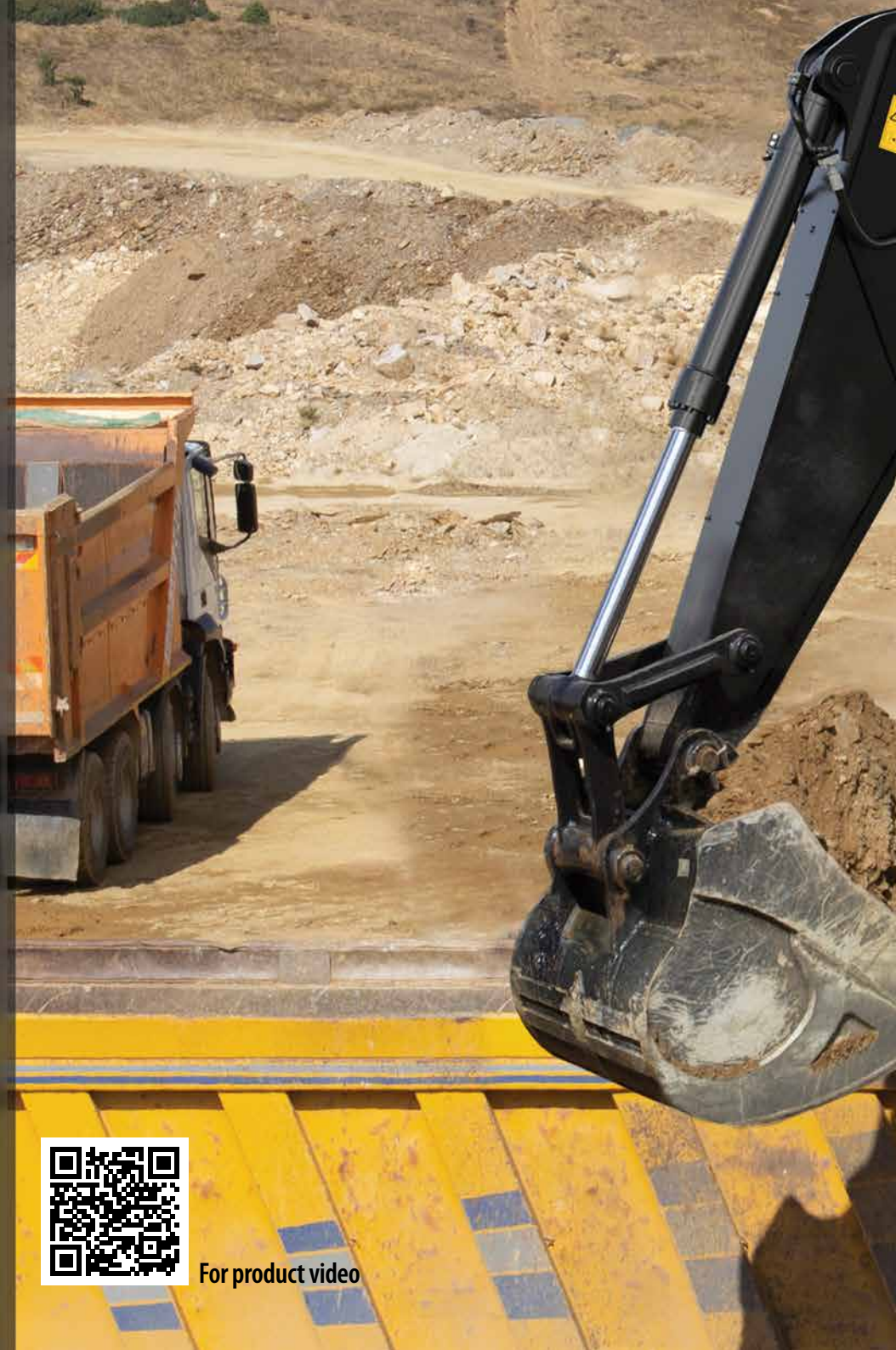
ATTENTION

Powerful. Strong. Balanced.

HMK 500 LC HD crawler excavator provides more durability, maximum performance, operator comfort and easy usage due to the strengthened heavy duty type construction in H4 Series and its developed technology. With its robust and balanced structure, it offers smooth and constant working for its user in severe field conditions.

More Sturdier

Owing to the improvements made in arm and boom structure, undercarriage and attachment groups by using more durable materials in H4 Series, HMK 500 LC HD has a more durable structure and offers high performance and long-life usage providing the strength and durability needed in marble quarries, mines and large construction sites.



For product video

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500
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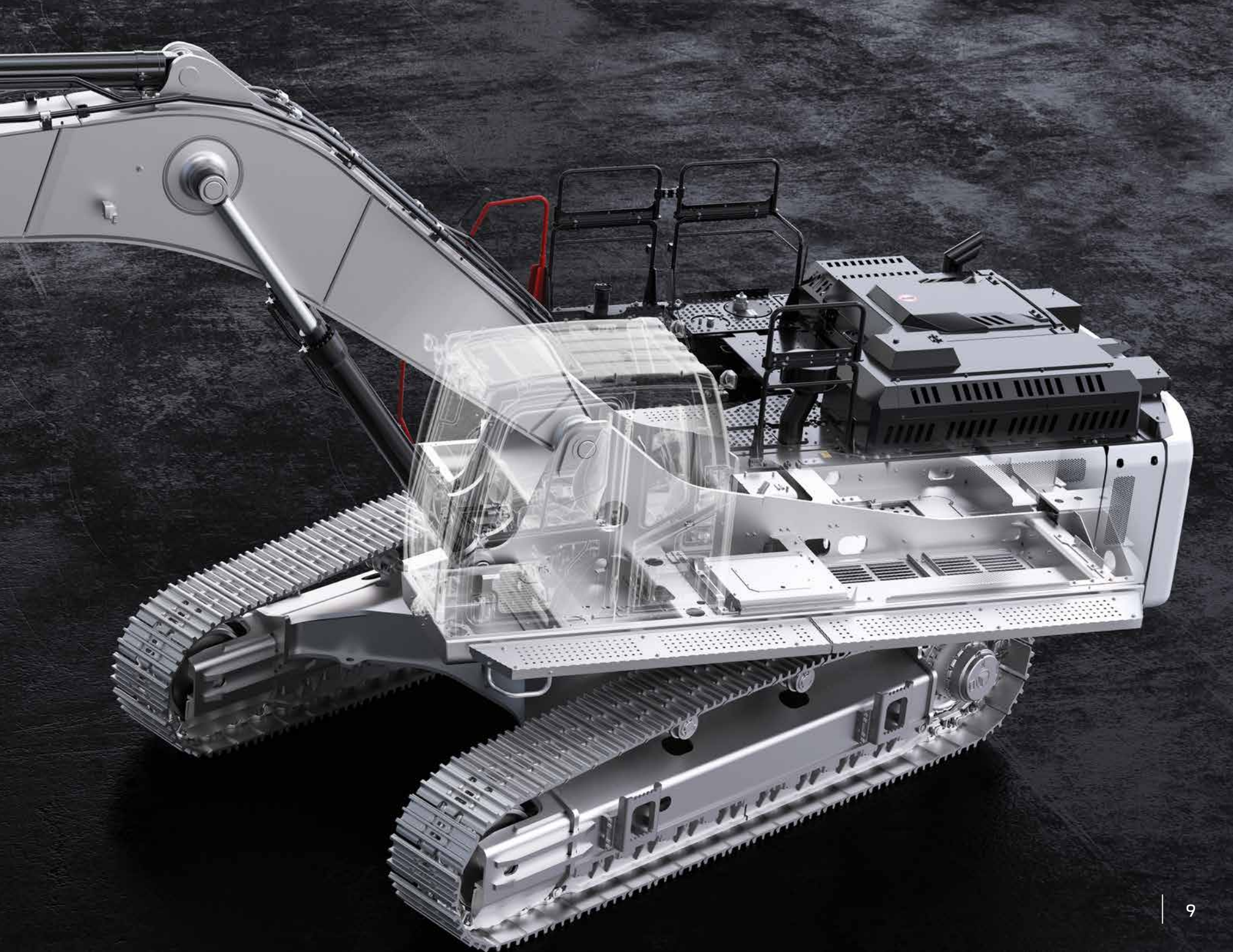
More durable

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



① More durable anti-wearing plates (Hardox 450 HB)

② Optimized bucket form

③ Reinforced arm supporting parts

④ Reinforced casting tip

⑤ Heavy duty arm

⑥ Reinforced boom structure

⑦ Reinforced boom cylinder cast bearing

⑧ Reinforced lowerframe and undercarriage components

Reinforced heavy duty construction

With their reinforced heavy duty construction produced at HİDROMEK'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 boom-arm 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.

7
6
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Safe working environment

FOPS cabin

Having the standard of 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 system.

SAFETY
SHOWER

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.
- 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.

OPERA, the guide of the field

H4 Series excavators are equipped with Opera (HİDROMEK Operator Interface) for the operator to use the machine easily, and feel comfortable and relaxed as he is in an office environment.

Functions to be controlled by means of Opera

- Engine RPM control
- Access to control panel menu
- Functions of lights, windshield wipers and rear view camera
- Music system control
- Auto stop control of the engine to ensure maximum fuel economy during low idle
- On H4 Series machines, the preheating system available to protect the engine and hydraulic systems can be controlled via Opera.

The aesthetic design of power

The seat ergonomic, 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 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 HİDROMEK 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 HİDROMEK 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 HİDROMEK 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.

To download Smartlink application

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-AH-6UZ1X
Type		Water cooled, 4 cycles, 6 cylinders, inline, diesel engine with direct injection, turbocharger and intercooler
Power	Gross	362 HP (270 kW) @1900 rpm / SAE J1995
	Net	348 HP (260 kW) @1900 rpm / SAE J1349
Maximum Torque	Gross	1435 Nm @1500 rpm
	Net	1400 Nm @1500 rpm
Displacement		9839 cc
Bore x Stroke		ø 120 mm x 145 mm
Emission Class		Stage IIIA / Tier 3 (EU/EPA)

HYDRAULIC SYSTEM

MAIN PUMP

Type	2 axial piston pumps with variable displacement and swashplate
Max. Flow Rate	2 x 376 L/min
Pilot Pump	Gear type, 29 L/min

WORKING PRESSURE

Attachment	330 kgf/cm²
Power Boost	355 kgf/cm²
Travel	330 kgf/cm²
Swing	300 kgf/cm²
Pilot	40 kgf/cm²

HYDRAULIC CYLINDERS

Boom	2 x ø 170 x ø 115 x 1.650 mm
Arm	1 x ø 190 x ø 130 x 1.870 mm
Bucket	1 x ø 170 x ø 120 x 1.335 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	7,7 rpm

LOWER FRAME

Construction	"X" type lower frame with pentagon shaped box type side frames
Shoe	Triple grouser
No. of Shoes	2 x 50 pieces
No. of Lower Rollers	2 x 9 pieces
No. of Upper Rollers	2 x 2 pieces
Full Trackguard	Complete
Track Tensioner	Hydraulic type with spring cushioning

ELECTRICAL SYSTEM

Voltage	24 V
Battery	2 x 12 V / 165 Ah
Alternator	24 V / 50 A
Starter Motor	24 V / 5,5 kW

TRAVEL AND BRAKES

Travel		Fully hydrostatic
Travel Motor		Axial piston motor with 2 speed stages and swashplate
Reduction		2 stage, planetary gear type
Travel Speed	High Speed	4,60 km/h
	Low Speed	2,80 km/h
Max. Traction		35.980 kgf
Gradeability		35° (%70)
Parking Brake		Hydraulic disc type, pilot operated and automatically released
Ground Pressure (With 600 mm Shoe)		0,90 kgf/cm²

FILLING CAPACITIES

Fuel Tank	610 L	Engine Cooling System	65 L
Hydraulic Tank	375 L	Engine Oil	40,5 L
Hydraulic System	615 L		

OPERATING WEIGHT (kg)

HMK 500 LC HD	51.400

EQUIPMENT — HMK 500 LC HD

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		O
Main hydraulic filter	●	
Backup ports (valve)	●	
Cylinder cushioning and contamination seals	●	
Single-acting hydraulic line, breaker		O
Double- acting hydraulic line, crusher		O
Additional line		O
Quick coupling line		O
Attachment settings through instrument panel		O

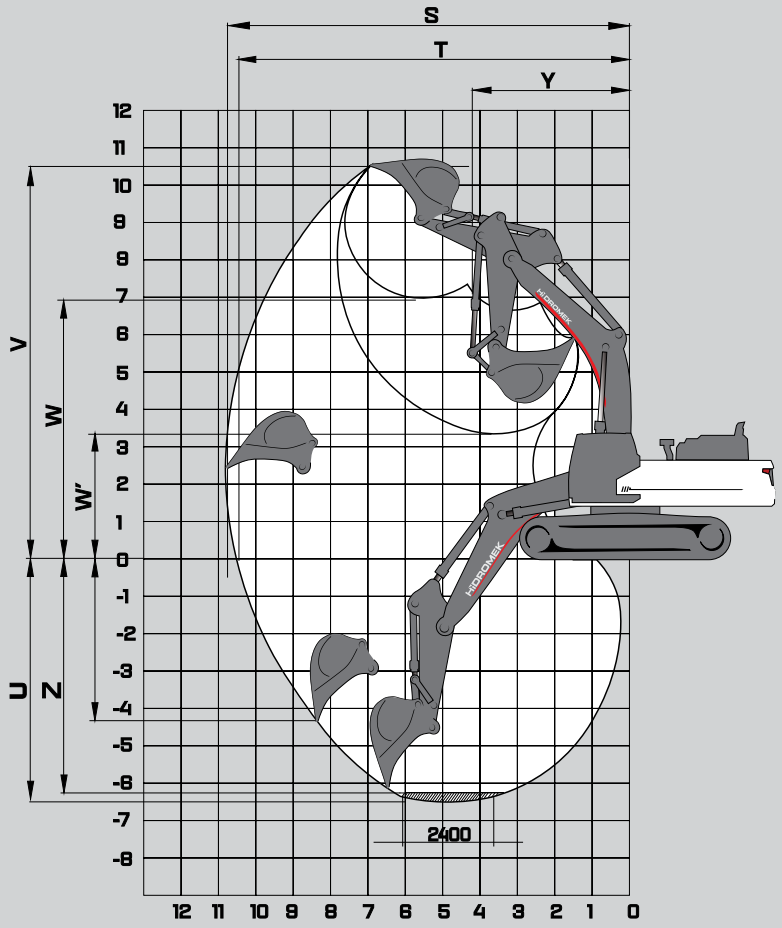
OPERATOR'S CAB		
Pressurized and sound isolated cabin	●	
Air-conditioning	●	
Air-suspension seat	●	
Heated seat		O
Operator touch screen	●	
Opera control system	●	
Throttle control dial	●	
Automatic travel speed (low / high)	●	
3 different working modes	●	
Sliding windscreen and removable lower windscreen	●	
Openable left door window	●	
Upper and lower windshield wiper	●	
Joysticks and pedals	●	
Travel pedals and control levers	●	
Electric horn	●	
Intrerior light	●	
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		O

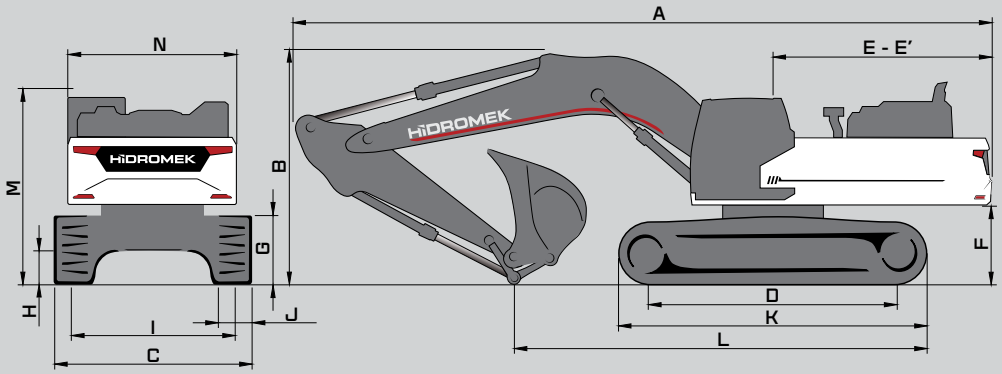
Lower Frame	Standard	Optional
Track width options 600 HD / 750		O
Lubricated and sealed track components	●	
Dozer blade		O
Mooring points for shipment	●	

Safety		
FOPS (Falling Object Protective Structure)	●	
Rear view camera	●	
Side view camera		O
Right and left rear view mirrors	●	
Working lamps	●	
LED working lamps		O
Rotating beacon		O
Swing and travel alarm		O
Emergency engine stop switch	●	
Pilot operated and automatically released swing brake	●	
Boom and arm cylinder safety valve		O
Overload warning system		O
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		O
Operator's cab ceiling guard		O
Fuel Safety System		O

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

● **STANDARD** O **OPTIONAL**





DIMENSIONS

			LC HD			
	BOOM (m)		6,30		6,90	
	ARM (m)		*2,60	2,90	2,90	3,30
GENERAL DIMENSIONS (mm)	A)	Overall Length	11.840	11.850	12.450	12.440
	B)	Overall height (to top of boom)	3.860	3.990	3.950	4.160
	C)	Overall Width	3.500			
	D)	Distance between tumblers	4.400			
	E)	Distance from center of swing to rear end	3.985			
	E´)	Tail swing radius	4.005			
	F)	Counterweight Clearance	1.385			
	G)	Track Height	1.230			
	H)	Ground Clearance	600			
	I)	Track Gauge	2.900			
	J)	Shoe Width	600			
	K)	Track Length	5.470			
	L)	Length on ground (transport)	6.910	6.740	7.500	7.310
	M)	Overall height of cab	3.360			
	N)	Overall width of upperstructure	2.990			
WORKING RANGES (mm)	S)	Maximum Digging Reach	10.770	11.040	11.680	12.040
	T)	Maximum Digging Reach on Ground Level	10.490	10.770	11.430	11.800
	U)	Maximum Digging Depth	6.480	6.780	7.180	7.580
	V)	Maximum Digging Height	10.520	10.630	11.340	11.530
	W)	Maximum Dumping Height	6.940	7.060	7.710	7.880
	W')	Minimum Dumping Height	3.340	3.040	3.590	3.190
	X)	Maximum Vertical Digging Depth	4.470	4.740	5.280	5.740
	Y)	Minimum Swing Radius	4.300	4.360	4.640	4.730
	Z)	Maximum Digging Depth (2440 mm level)	6.300	6.610	7.020	7.430

* Standard

FORCES

		LC HD			
	BOOM (m)	6,30		6,90	
	ARM (m)	*2,60	2,90	2,90	3,30
SAE	Bucket Digging Force	21.700			
	Bucket Digging Force (Power Boost)	23.700			
	Arm Crowd Force	23.600	22.100	22.100	20.500
	Arm Crowd Force (Power Boost)	25.700	24.200	24.200	22.400
ISO	Bucket Digging Force	25.300			
	Bucket Digging Force (Power Boost)	27.600			
	Arm Crowd Force	25.000	23.400	23.400	21.600
	Arm Crowd Force (Power Boost)	27.300	25.600	25.600	23.600

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

* Standard

HEAVY DUTY

STANDARD BUCKET

Heavy Duty Type Bucket

	Width	1.980 mm	
	Capacity (SAE)	*3,2 m³	
	Weight	3.080 kg	
	Number of Teeth	5	
		6.3 BOOM	6.9 BOOM
ARM	*2,60 m	B	D
	2,90 m	C	D

* Standard

OPTIONAL BUCKET SELECTION SCHEME

General Purpose Bucket

Heavy Duty Type Bucket

	Width	1.900 mm		1.800 mm		1.800 mm		1.800 mm		1.950 mm		1.900 mm			
	Capacity (SAE)	3,0 m³		2,70 m³		2,70 m³		2,70 m³		3,0 m³		3,0 m³			
	Weight	2.810 kg		2.700 kg		2.720 kg		2.780 kg		2.850 kg		2.950 kg			
	Number of Teeth	5		5		4		5		4		5			
		6.3 BOOM	6.9 BOOM	6.3 BOOM	6.9 BOOM	6.3 BOOM	6.9 BOOM	6.3 BOOM	6.9 BOOM	6.3 BOOM	6.9 BOOM	6.3 BOOM	6.9 BOOM	6.3 BOOM	6.9 BOOM
ARM	*2,60 m	A	B	A	B	A	B	A	B	B	C	B	C		
	2,90 m	B	C	A	C	A	C	A	C	B	D	B	D		

* Standard

ATTACHMENTS

QUICK COUPLER

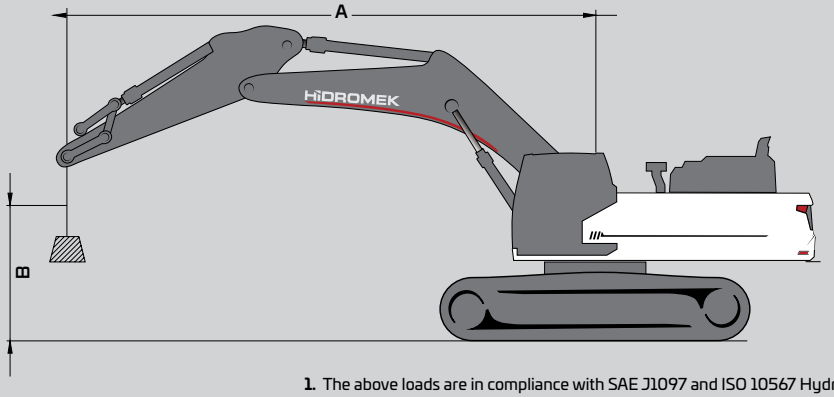
RIPPER

LIFTING CAPACITY (kg)															HMK 500 LC HD
	Boom: 6,3 m		**Arm:** 2,6 m		Without bucket		STD, 600 mm		**CW:** 8300 kg				: Front	: Side	
A, m	**1,5**		**3,0**		**4,5**		**6,0**		**7,5**		**9,0**		**Maximum Reach**		
B, m															**R, m**
9,0													*13850	*13850	5,54
7,5							*13150	*13150					*13050	12750	7,00
6,0							*14100	*14100	*12950	11200			*12850	10250	7,90
4,5					*20800	*20800	*15950	15250	*13700	11050			*12950	9000	8,44
3,0							*18050	14400	*14700	10450			12900	8400	8,69
1,5							*19550	13750	*15500	10100			12750	8250	8,66
0 (Ground)					*27100	20650	*20050	13450	*15550	9900			13300	8550	8,36
-1,5			*25350	*25350	*25450	20750	*19350	13400	*15050	9900			*14300	9500	7,76
-3,0			*28650	*28650	*22200	21150	*17000	13700					*14500	11650	6,77

LIFTING CAPACITY (kg)															HMK 500 LC HD
	Boom: 6,3 m		**Arm:** 2,9 m		Without bucket		STD, 600 mm		**CW:** 8300 kg				: Front	: Side	
A, m	**1,5**		**3,0**		**4,5**		**6,0**		**7,5**		**9,0**		**Maximum Reach**		
B, m															**R, m**
9,0													*12950	*12950	5,96
7,5													*12350	11850	7,33
6,0							*13500	*13500	*12450	11250			*12250	9700	8,20
4,5					*19750	*19750	*15350	15350	*13250	10900			*12350	8550	8,72
3,0					*24350	22100	*17550	14500	*14350	10450			12350	8000	8,95
1,5					*26950	20950	*19250	13800	*15250	10100			12150	7850	8,93
0 (Ground)					*27250	20550	*19950	13400	*15500	9850			12600	8100	8,64
-1,5			*24250	*24250	*25950	20600	*19550	13000	*15200	9800			*13850	8900	8,06
-3,0			*30650	*30650	*23050	20950	*17600	13500					*14150	10750	7,11
-4,5					*17450	*17450							*13700	*13700	5,61

LIFTING CAPACITY (kg)															HMK 500 LC HD
	Boom: 6,9 m		**Arm:** 2,9 m		Without bucket		STD, 600 mm		**CW:** 8300 kg				: Front	: Side	
A, m	**1,5**		**3,0**		**4,5**		**6,0**		**7,5**		**9,0**		**Maximum Reach**		
B, m															**R, m**
9,0													*11750	*11750	6,90
7,5									*11350	*11350			*11300	9900	8,11
6,0							*13350	*13350	*11850	11100			*11200	8300	8,90
4,5							*15350	14850	*12800	10600	*11450	7950	*11250	7450	9,38
3,0							*17450	13850	*13900	10100	11950	7700	10800	7000	9,60
1,5							*18950	13150	*14800	9700	11700	7500	10700	6850	9,58
0 (Ground)							*19450	12850	15050	9400	11550	7350	11050	7050	9,31
-1,5					*24700	19900	*18950	12750	*14950	9350			12000	7600	8,77
-3,0			*28100	*28100	*22200	20200	*17350	12950	*13500	9500			*12450	8900	7,91
-4,5					*17850	*17850	*13850	13450					*12100	11800	6,60

LIFTING CAPACITY (kg)															HMK 500 LC HD
	Boom: 6,9 m		**Arm:** 3,3 m		Without bucket		STD, 600 mm		**CW:** 8300 kg				: Front	: Side	
A, m	**1,5**		**3,0**		**4,5**		**6,0**		**7,5**		**9,0**		**Maximum Reach**		
B, m															**R, m**
9,0													*10900	*10900	7,40
7,5									*10650	*10650			*10600	9150	8,53
6,0							*12550	*12550	*11250	11150	*10600	8200	*10550	7750	9,29
4,5					*19350	*19350	*14600	*14600	*12250	10650	*11000	8000	*10650	6950	9,75
3,0							*16800	14000	*13450	10100	*11600	7700	10200	6550	9,96
1,5							*18500	13200	*14450	9650	11650	7450	10050	6450	9,94
0 (Ground)					*21850	19600	*19250	12750	15000	9350	11450	7250	10350	6550	9,68
-1,5			*16400	*16400	*25300	19650	*19050	12650	14850	9250	11450	7250	11150	7050	9,17
-3,0			*27550	*27550	*23050	19950	*17800	12750	*13900	9300			*11950	8100	8,35
-4,5			*24900	*24900	*19300	*19300	*14950	13150					*11900	10400	7,12



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.

HİDROMEK®

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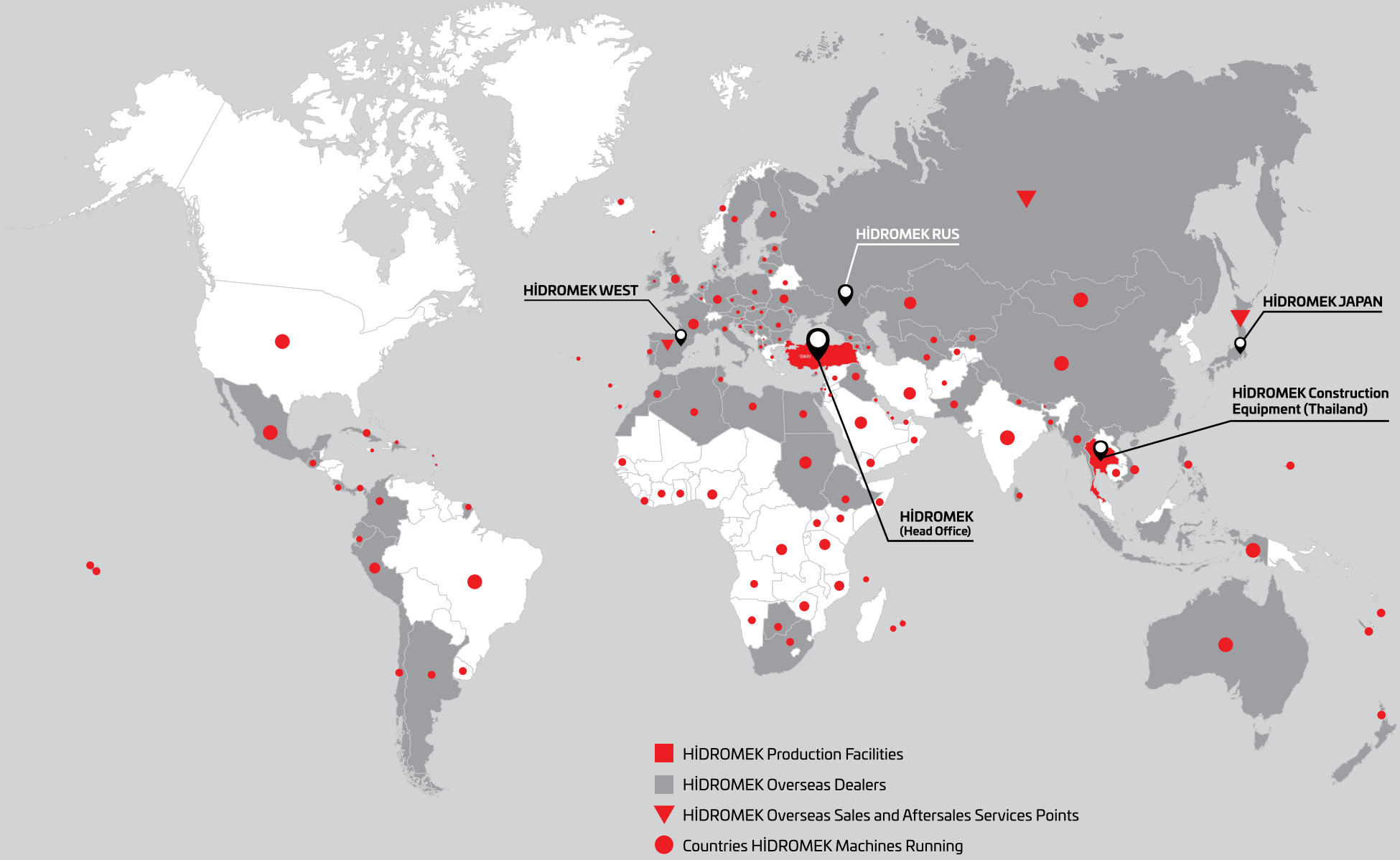
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