

H4 SERIES

HMK150WR



HIDROMEK





New H4 Series

Innovation coming from experience

Being produced with a developed hydraulic system design, **HMK150WR** wheel excavator, belonging to **HIDROMEK's new H4 Series**, offers an outstanding performance by working fast, productively and efficiently.

Ensuring comfortable operating in narrow fields thanks to its short swing radius, **HMK 150 W R** provides an enjoyable and smooth working opportunity in urban or off-road areas with its durable and balanced structure, easy usage, operator comfort and safe working environment.

H4

SERIES



Performance.....	6-7
Durability.....	8-11
Safety.....	12-13
Technology.....	14-15
Comfort.....	16-17
HIDROMEK Smartlink - Ease of Service.....	18-19
Technical Features	20-25

The information and images, and equipment presented in this brochure are either standard or optional depending on the configuration. HIDROMEK has the right to modify the specifications and the designs of the model indicated in this brochure without prior notice.







HMK 150 WR

Versatile!

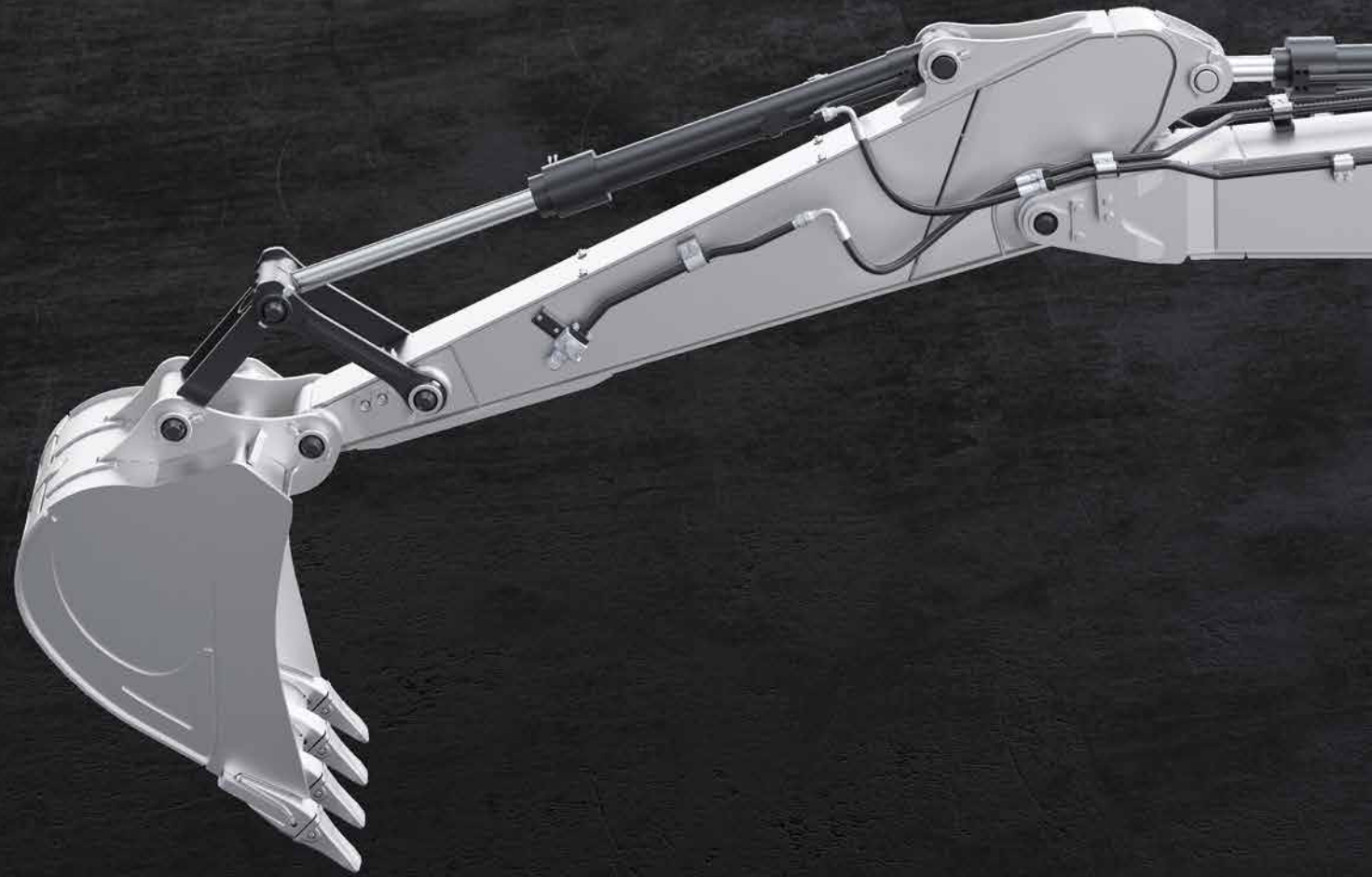
Providing comfortable working opportunity in many fields thanks to its shorter tail structure compared to standard designed machines and the advantage of the usage with different attachments, HMK 150 W R wheel excavator makes work easier by providing maximum performance, easy usage and operator comfort through its high technology and durable structure.

Operational

With its fast hydraulic movements thanks to the developed hydraulic system design of H4 Series, HMK 150 W R ensures operations in different fields to be completed in a short time with low cost thanks to its work cycle times, short swing radius and working dimensions.

Innovative

HMK 150 W R wheel excavator which has a superior technology and equipment, offers an ergonomic working environment by providing maximum comfort to its users through its advantages of easy and safe usage.



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.



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 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.

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

Bronze-Graphite Bushings



Safe working environment

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

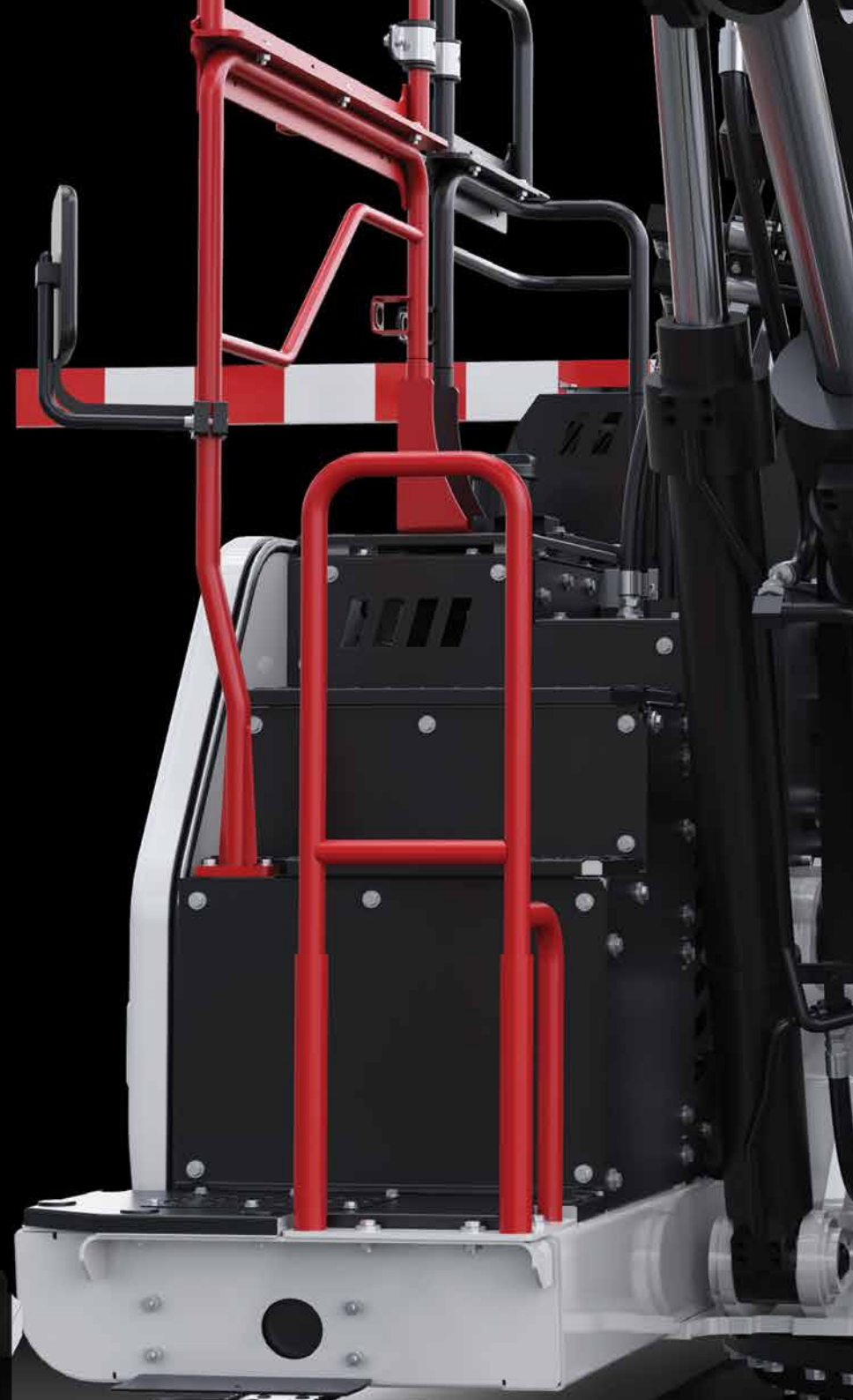
Designed with giving special importance to occupational safety, H4 Series ensure excellent vision by minimizing the blind spot on the side and rear cameras. Along with the increase in the number of led headlights, the night vision is significantly improved on H4 Series excavators; in addition, there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

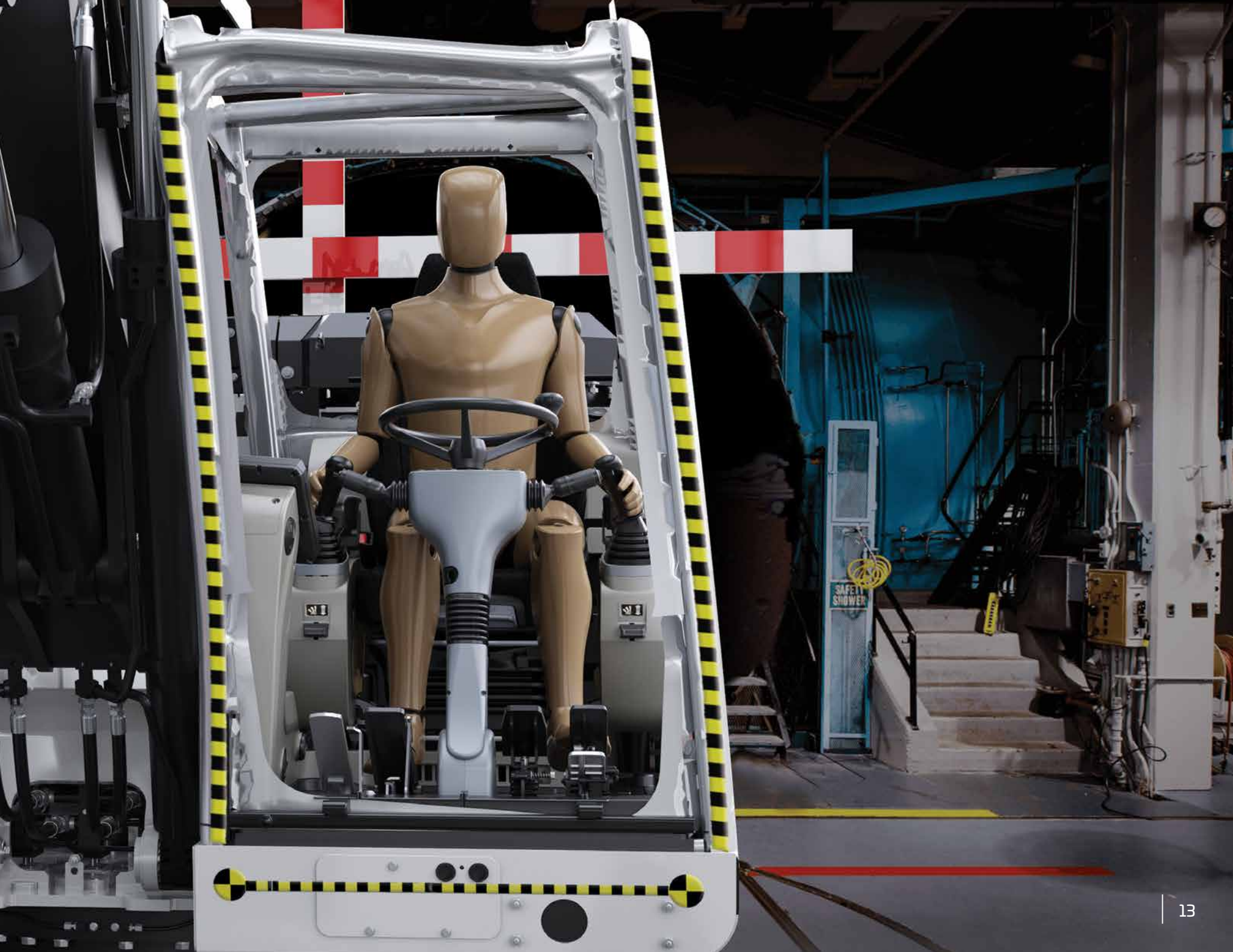
Audio warning systems

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

Flame holder system

Where sparks are dangerous, regeneration inhibit feature is activated from the cabin, so flame from the exhaust is prevented temporarily.





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.





OPERA, the guide of the field

H4 Series excavators are equipped with Opera (HIDROMEK 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

Airvents 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		DEUTZ TCD 4.1		
Type		Water cooled, 4 cycles, 4 cylinders, inline, diesel engine with direct injection, turbocharger and intercooler		
Power	Gross	141 HP (105 kW) @2000 rpm / SAE J1995		
Maximum Torque	Gross	550 Nm @1600 rpm		
Displacement		4038 cc		
Bore x Stroke		Ø 101 x 126 mm		
Emission Class		Stage V / Tier 4 Final (EU/EPA)		
HYDRAULIC SYSTEM				
MAIN PUMP				
Type	2 axial piston pumps with variable displacement and swashplate			
Max. Flow Rate	2 x 157 L/min			
Pilot Pump	Gear type 20 L/min			
WORKING PRESSURE				
Attachment	330 kgf/cm²			
Power Boost	360 kgf/cm²			
Travel	370 kgf/cm²			
Swing	260 kgf/cm²			
Pilot	40 kgf/cm²			
HYDRAULIC CYLINDERS				
Boom 1	2x ø105 x ø75 x 930 mm			
Boom 2	1x ø140 x ø85 x 680 mm			
Arm	1x ø115 x ø80 x 1120 mm			
Bucket	1x ø95 x ø70 x 910 mm			
SWING SYSTEM				
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	13 rpm			
LOWER STRUCTURE (CHASSIS)				
Chasis		Box shaped, reinforced lower chassis, front dozer blade and rear outriggers (stabilizers) as standard figures.		
Axles		The pivot pin mounted front axle allows two options: 8° in esch direction for best matching conditions, or could be locked at any desired position for perfect stability.		
Tires		19,5 - R18 (Single tire) 10.00 - R20 (Double tire)		
ELECTRICAL SYSTEM				
Voltage		24 V		
Battery		2 x 12 V / 100 Ah		
Alternator		28 V / 100 A		
Starter Motor		24 V / 4 kW		
TRAVEL AND BRAKES				
Travel		Fully hydrostatic		
Travel Motor		Piston motor with variable displacement.		
Reduction		Planetary gear system with 2 stages		
Travel Speed	High Speed	33 km/h		
	Low Speed	8,5 km/h		
Max. Traction		10.150 kgf		
Gradeability		28° (%53)		
Parking Brake		Hydraulic, disc type with automatic warning		
Service Brake		Fully hydraulically operating disc type brakes with spring return, independent for front and rear axles.		
FILLING CAPACITIES				
Fuel Tank		245 L	Engine Cooling System	29,8 L
Hydraulic Tank		120 L	Engine Oil	16,2 L
Hydraulic System		210 L	Urea	20 L
OPERATING WEIGHT (kg)				
		Mono Boom	Two Pieces Boom	
HMK 150 W R		16.300	16.750	

EQUIPMENT

HMK 150 W R

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	●	

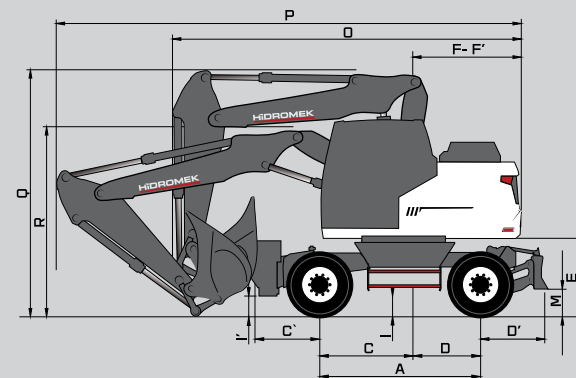
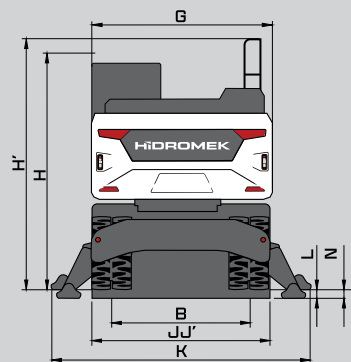
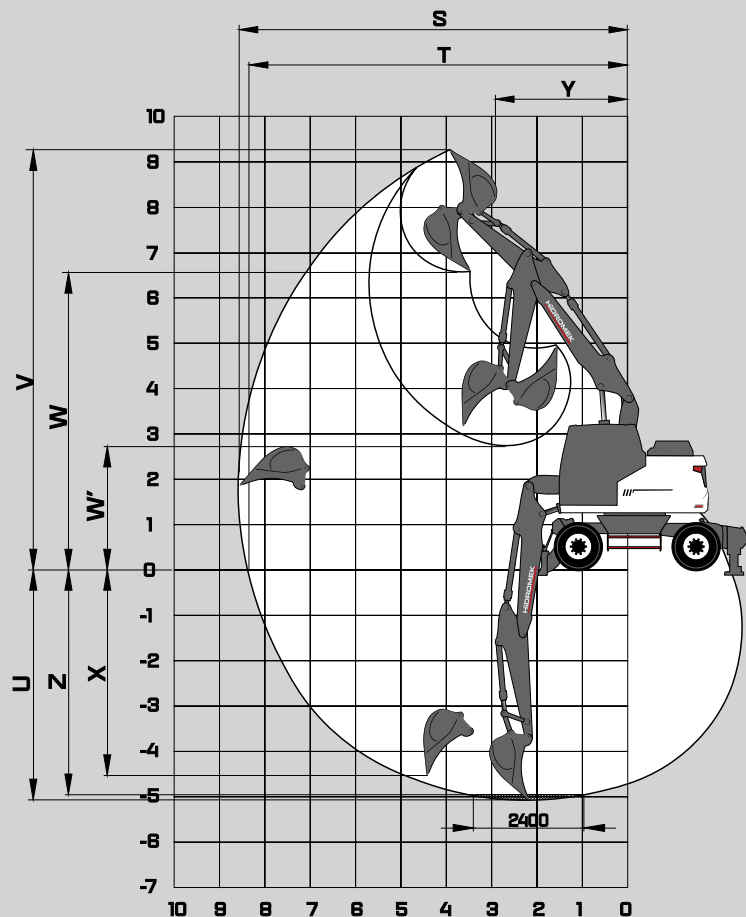
Hydraulic System	Standard	Optional
Boom and arm regeneration valve	●	
Automatic power boost	●	
Main hydraulic filter	●	
Backup ports (valve)	●	
Cylinder cushioning and contamination seals	●	
Single-acting hydraulic line, breaker		0
Double- acting hydraulic line, crusher		0
Additional line		0
Quick coupling line		0
Attachment settings through instrument panel		0

OPERATOR'S CAB	Standard	Optional
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	●	
Intrior 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	●	

Safety	Standard	Optional
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	Standard	Optional
Telematic system (HiDROMEK 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 0 OPTIONAL



DIMENSIONS

		Mono Boom		Two Pieces Boom	
BOOM (m)		4,60		*4.80	
ARM (m)		2,30	2,60	*2,30	2,60
GENERAL DIMENSIONS (mm)	A) Axle Distance	2.600			
	B) Track Gauge	1944			
	C) Swing-centre to Front Axle	1.500			
	C') Front overhang	1.055			
	D) Swing-centre to Rear Axle	1.100			
	D') Rear overhang	1.073			
	E) Counterweight clearance	1.270			
	F) Distance from center of swing to rear end	1.765			
	F') Tail Swing Radius	1.850			
	G) Overall Width of upperstructure	2.500			
	H) Overall height of cab	3.185			
	I) Minimum Ground Clearance, Outrigger	355			
	I') Minimum Ground Clearance	333			
	J) Overall Width tires	2.500			
	J') Overall width of Outrigger retract	2.550			
	K) Overall Width Outrigger extend	3.634			
	L) Max. Outrigger lower	122			
	M) Dozer Blade Ground Clearance	447			
	N) Max. Dozer Blade Lower	124			
WORKING RANGES (mm)	O) Overall Length / Travel	7360	7280	5.660	6.830
	P) Overall Length/ Transport	7290	7280	7.550	7.500
	Q) Boom Height / Travel	3.470	3.730	4.000	3.860
	R) Boom Height / Transport	3.400	3.570	3.080	3.230
	S) Maximum Digging Reach	8.220	8.520	8.500	8.800
	T) Maximum Digging Reach at Ground Level	8.000	8.310	8.290	8.600
	U) Maximum Digging Depth	5.040	5.340	5.000	5.300
	V) Maximum Digging Height	8.760	9.000	9.200	9.460
	W) Maximum Dumping Height	6.240	6.470	6.640	6.890
	W') Minimum Dumping Height	2.540	2.250	2.790	2.500
	X) Maximum Vertical Digging Depth	4.560	4.860	4.340	4.670
	Y) Minimum Swing Radius	2.620	2.670	2.910	3.000
	Z) Maximum Digging Depth (2440 mm level)	4.820	5.140	4.890	5.200

* Standard

FORCES

		Mono Boom		Two Pieces Boom
	BOOM (m)	4,60		*4,80
	ARM (m)	2,30	2,60	*2,30
SAE	Bucket Digging Force	8.200		
	Bucket Digging Force (Power Boost)	8.700		
	Arm Crowd Force	6.900	6.300	6.600
	Arm Crowd Force (Power Boost)	7.500	6.900	7.000
ISO	Bucket Digging Force	9.500		
	Bucket Digging Force (Power Boost)	10.000		
	Arm Crowd Force	7.100	6.500	6.900
	Arm Crowd Force (Power Boost)	7.800	7.100	7.300

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

STANDARD BUCKET



	Width	1.000 mm
	Capacity (SAE)	*0,6 m ³
	Weight	525 kg
	Number of Teeth	4
ARM	*2,30 m	A
	2,60 m	A

OPTIONAL BUCKET SELECTION SCHEME

General Purpose Bucket



600 mm	810 mm	890 mm	1000 mm	1145 mm
0,30 m ³	0,45 m ³	0,50 m ³	0,60 m ³	0,70 m ³
360 kg	450 kg	490 kg	525 kg	570 kg
3	3	4	4	5
A	A	A	A	B
A	A	A	A	C

* Standard

QUICK COUPLER



CLEANING BUCKET

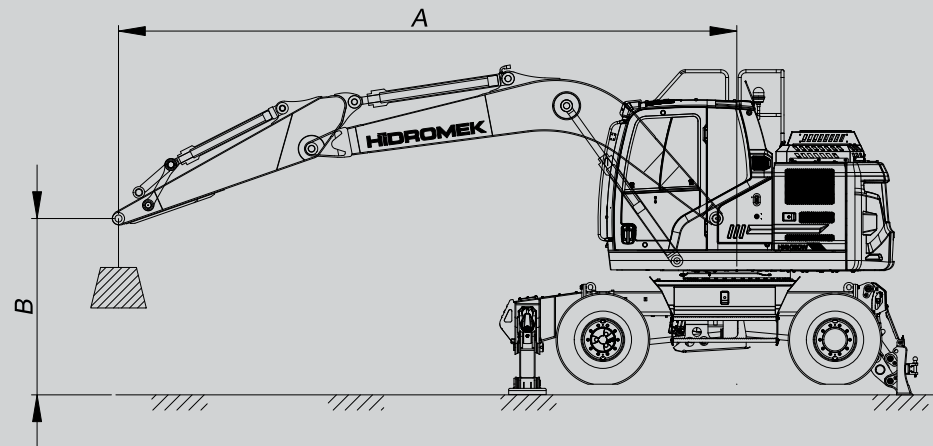


HEAVY DUTY

ATTACHMENTS

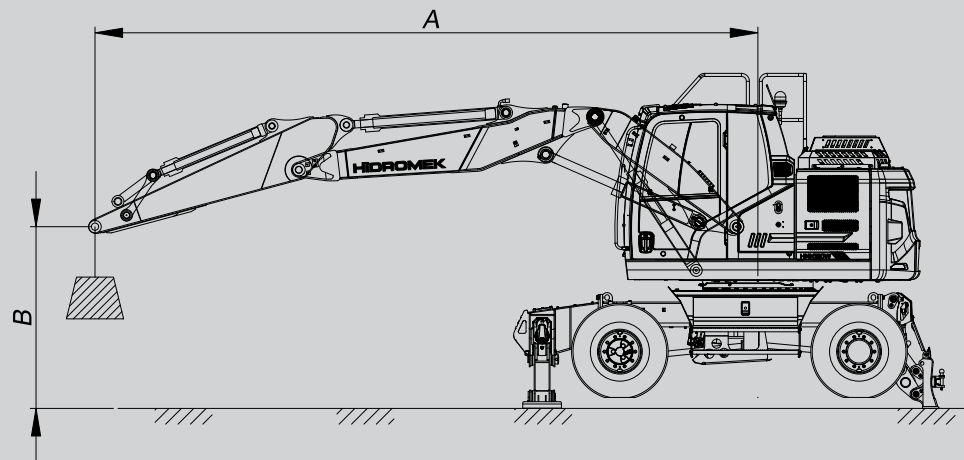
LIFTING CAPACITY (kg)											HMK150 W R		
	Boom: 4,6 m		Arm: 2,3 m		Without Bucket		Front: Outrigger - Rear: Dozer Blade		D.A: 3100 kg		 : Front	 : Side	
A, m	1,5		3,0		4,5		6,0		7,5		Maximum Reach		
B, m													R, m
7,5											*3450	*3450	3.84
6,0					*3900	*3900					*2850	*2850	5.49
4,5					*4350	*4350	*4100	4000			*2700	*2700	6.38
3,0			*8000	*8000	*5350	*5350	*4450	3900			*2700	*2700	6.82
1,5					*6450	5750	*4900	3750			*2900	*2900	6.91
0 (Ground)			*7750	*7750	*7050	5600	*5200	3700			*3350	3200	6.65
-1,5	*6850	*6850	*10350	*10350	*6950	5550	*4400	3700			*4250	3700	6.01
-3,0			*8450	*8450	*5600	*5600					*5000	*5000	4.82

LIFTING CAPACITY (kg)											HMK150 W R		
	Boom: 4,6 m		Arm: 2,6 m		Without Bucket		Front: Outrigger - Rear: Dozer Blade		D.A: 3100 kg		 : Front	 : Side	
A, m	1,5		3,0		4,5		6,0		7,5		Maximum Reach		
B, m													R, m
7,5											*2850	*2850	4.38
6,0											*2400	*2400	5.88
4,5					*4000	*4000	*3850	*3850			*2250	*2250	6.71
3,0			*300	*7300	*5050	*5050	*4250	3900			*2250	*2250	7.13
1,5			*7400	*7400	*6250	5800	*4800	3750			*2400	*2400	7.22
0 (Ground)			*7700	*7700	*6950	5600	*5150	3650			*2750	*2750	6.97
-1,5	*6100	*6100	*10600	*10600	*7000	5500	*5000	3650			*3350	3350	6.36
-3,0	*10500	*10500	*8950	*8950	*6000	5600					*4750	4500	5.25



LIFTING CAPACITY (kg)											HMK 150 W R 2P BOOM		
	Boom: 4,80 m		Arm: 2,3 m		Without Bucket		Front: Outrigger - Rear: Dozer Blade		D.A: 3100 kg		 : Front	 : Side	
A, m	1,5		3,0		4,5		6,0		7,5		Maximum Reach		
B, m													R, m
7,5													
6,0					*3400	*3400							
4,5					*3900	*3900	*3700	*3700					
3,0					*5000	*5000	*4100	3900					
1,5					*6150	5750	*4650	3750					
0 (Ground)			*5500	*5500	*6850	5550	*5050	3650					
-1,5			*10350	*10350	*6900	5550	*5000	3650					
-3,0													

LIFTING CAPACITY (kg)											HMK 150 W R 2P BOOM		
	Boom: 4,80 m		Arm: 2,6 m		Without Bucket		Front: Outrigger - Rear: Dozer Blade		D.A: 3100 kg		 : Front	 : Side	
A, m	1,5		3,0		4,5		6,0		7,5		Maximum Reach		
B, m													R, m
7,5					*3400	*3400					*2900	*2900	4.85
6,0							*3400	*3400			*2400	*2400	6.23
4,5					*3600	*3600	*3450	*3450			*2250	*2250	7.02
3,0					*4700	*4700	*3900	*3900			*2200	*2200	7.42
1,5					*5900	5750	*4500	3750	*2350	*2350	*2300	*2300	7.50
0 (Ground)			*5550	*5550	*6700	5550	*4950	3650			*2250	*2250	7.27
-1,5			*9400	*9400	*6900	5500	*5050	3600			*3000	*3000	6.69
-3,0					*6350	5550							



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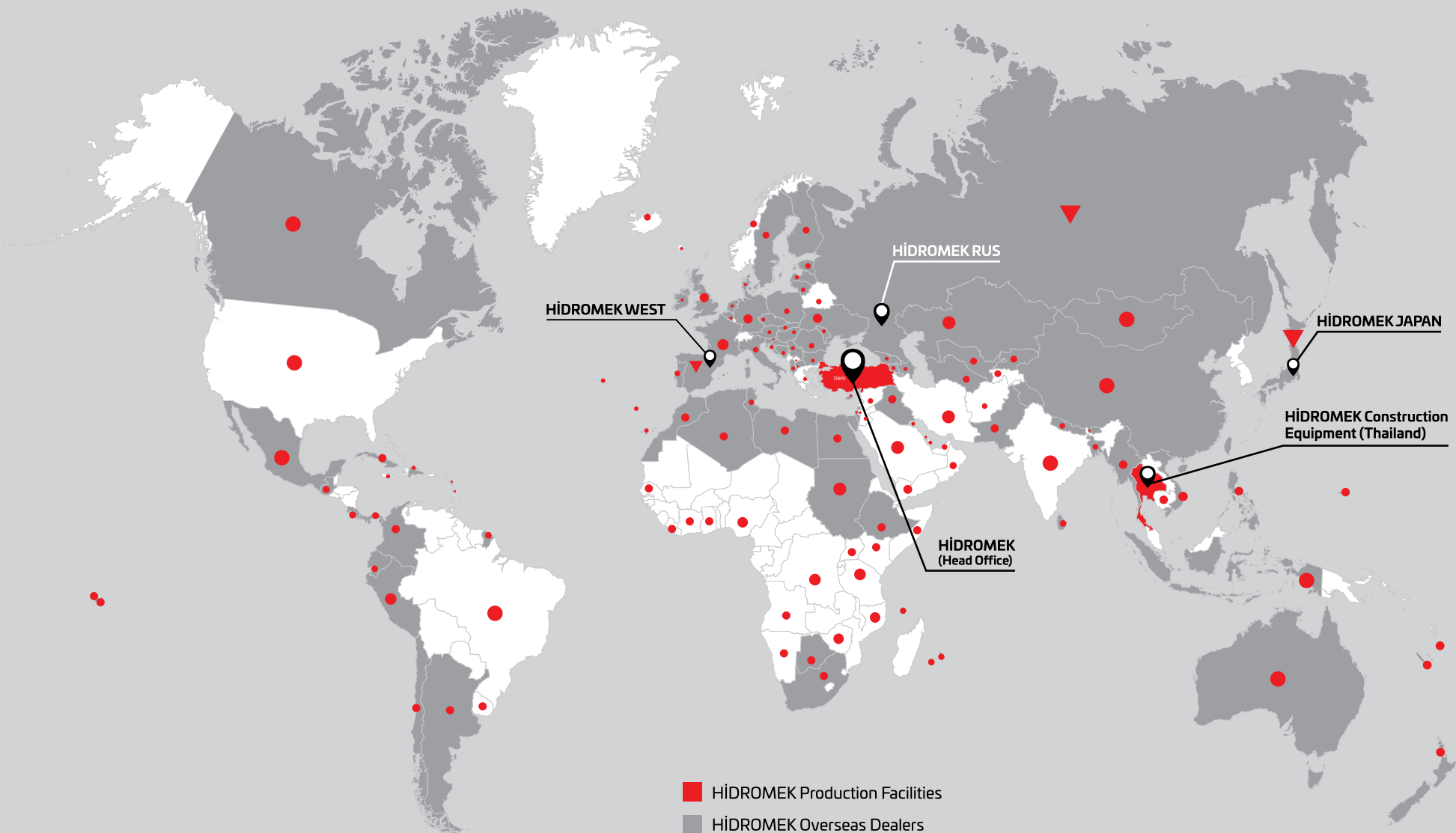
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- HİDROMEK Production Facilities
- HİDROMEK Overseas Dealers
- ▼ HİDROMEK Overseas Sales and Aftersales Services Points
- Countries HİDROMEK Machines Running

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