H4 SERIES

HMK 140 W

HiDROMEK

HIDROM
140
HMK 140 W

New H4 Series

Innovation coming from experience

Being produced with a developed hydraulic system design, **HMK 140 W** wheel excavator which belongs to **HİDROMEK's new H4 Series** offers an outstanding performance by working fast, productively and efficiently.

Providing versatility with different attachments, **HMK 140 W** enables you to work smoothly with joy in urban areas or terrain and in many different fields thanks to its durable and balanced structure, easy usage, operator comfort and safety.

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.

HIDROMEK
140
HMK 140 W

HMK 140 W

Versatile!

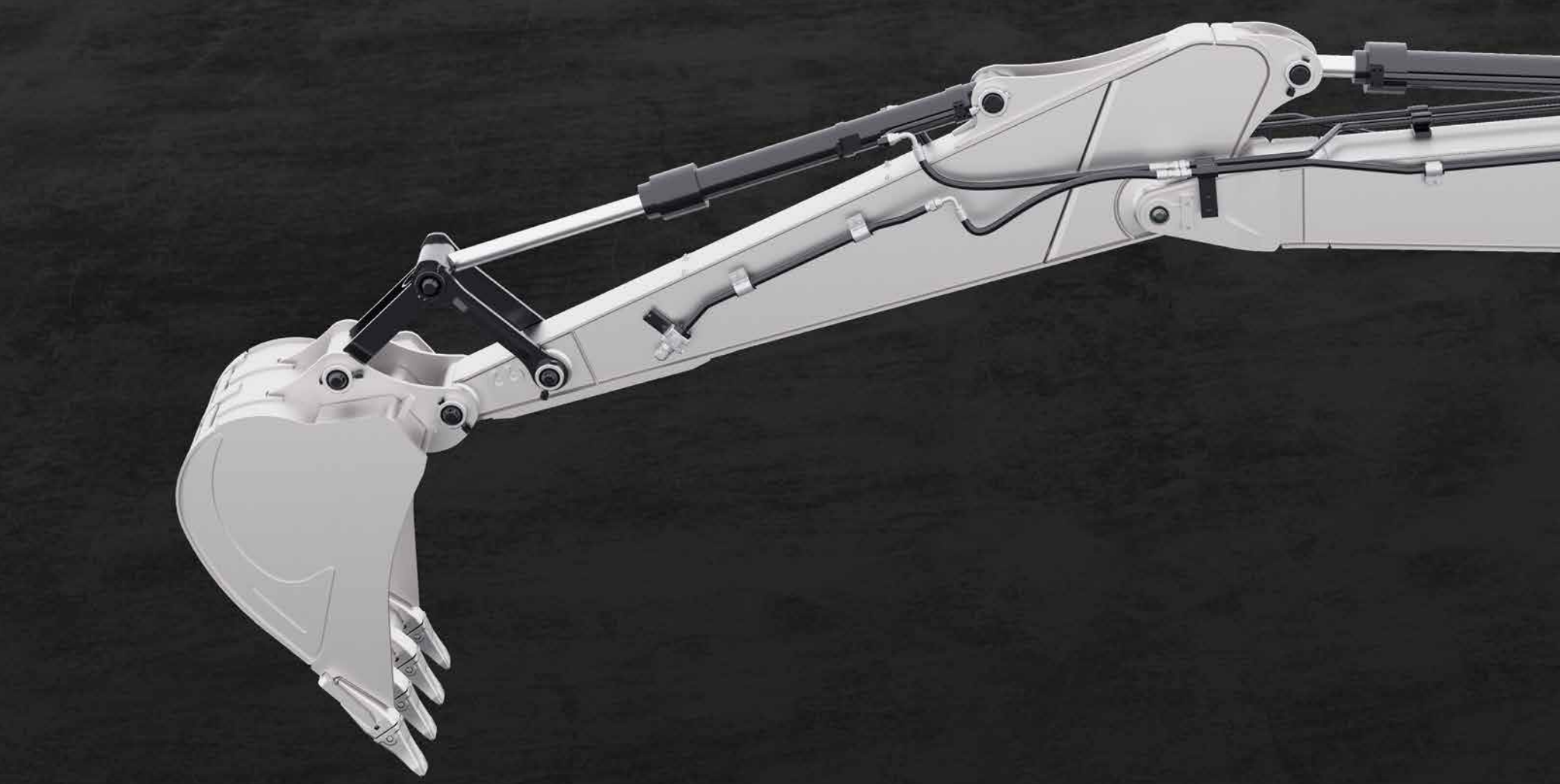
Offering versatile usage in various fields with different attachments, HMK 140 W wheel excavator makes the work easier by providing a maximum performance, easy usage and operator comfort thanks to its high technology and durable structure.

Dynamic!

With its hydraulic movements accelerated with the developed hydraulic system design in H4 Series, HMK 140 W ensures different operations in many fields to be completed with lower cost and in a shorter time thanks to its cycle time, operation weight and dimensions.

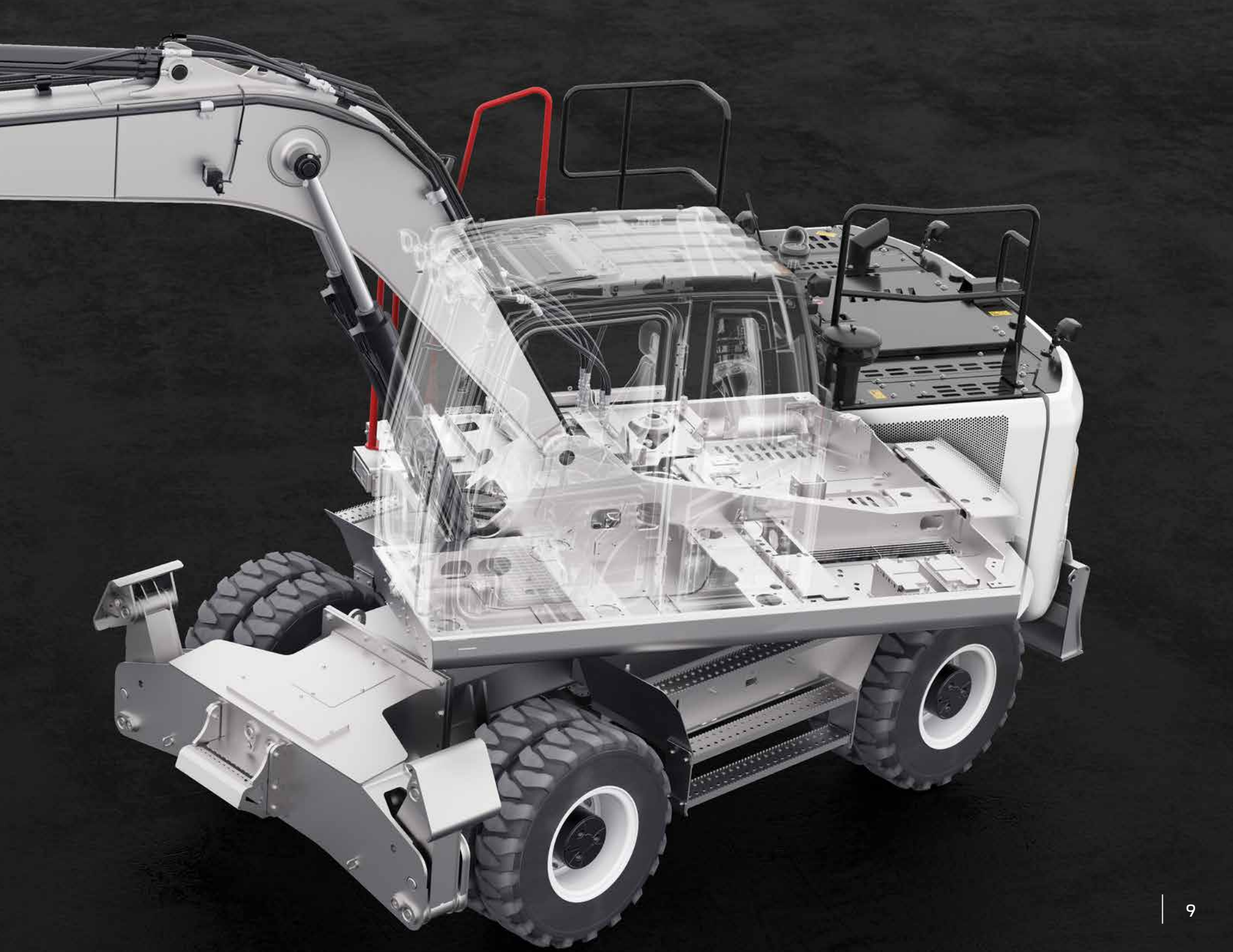
Ergonomic!

HMK 140 W wheel excavator offers maximum comfort with its superior technology and equipment, and provides healthy and ergonomic working opportunity to its operator with its advantages of having 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.

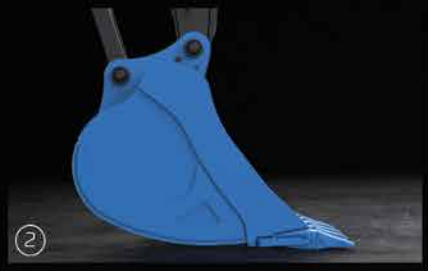


Reinforced heavy duty construction

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)

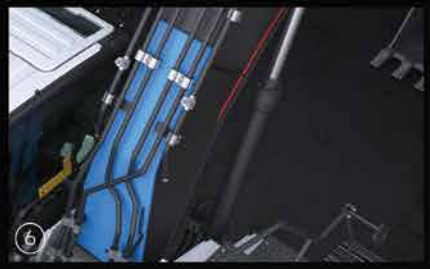


② Optimized bucket form

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

HİDROMEK
HMK 140 W
7
6
3
2

Safe working environment

ROPS&FOPS cabin

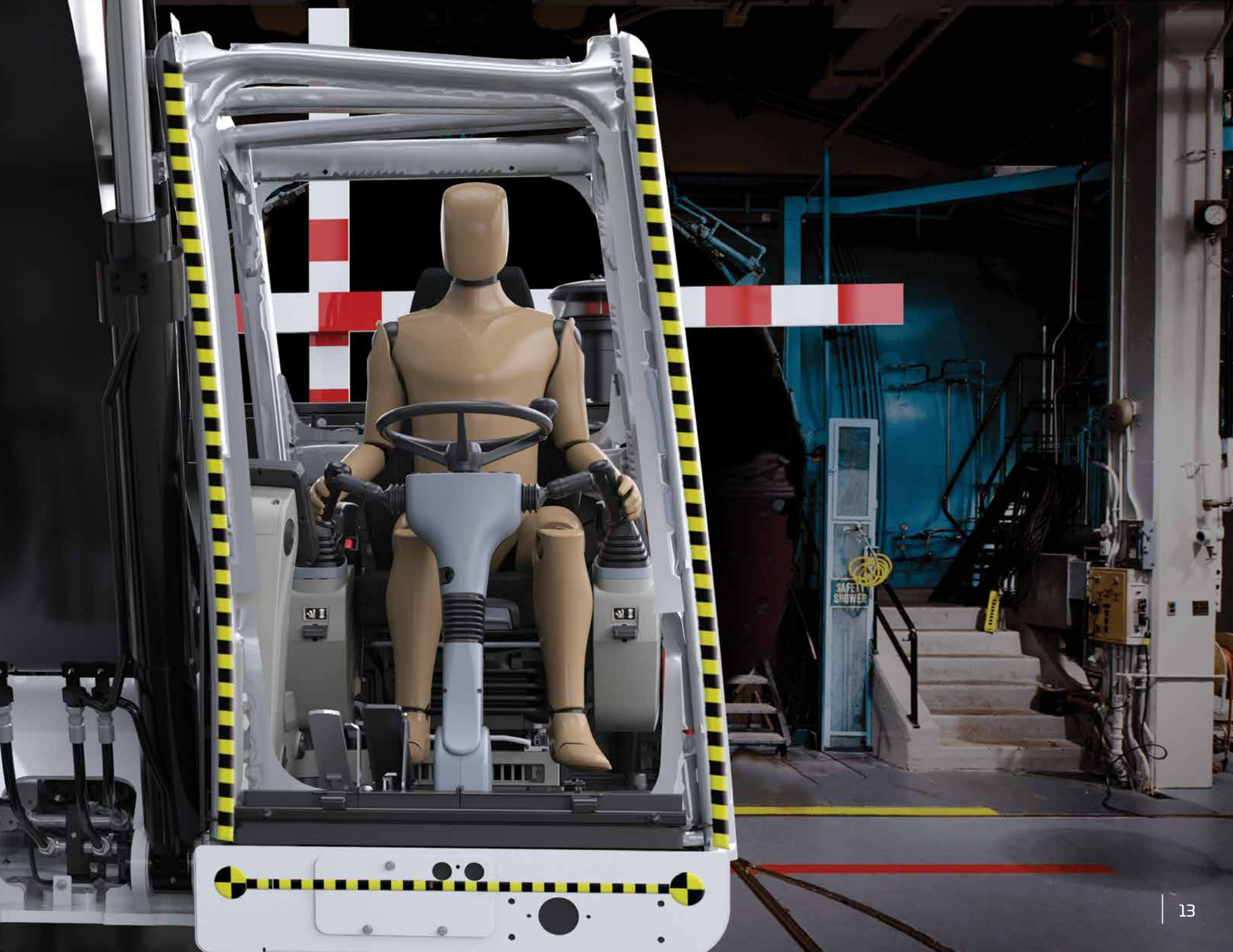
Having the standards of ROPS (Roll Over Protective Structure) & FOPS (Falling Object Protective Structure), H4 Series excavators provide maximum safety and durability.

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.


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.
- 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 (HİDROMEK Operator Interface) for the operator to use the machine easily, and feel comfortable and relaxed as he is in an office environment.

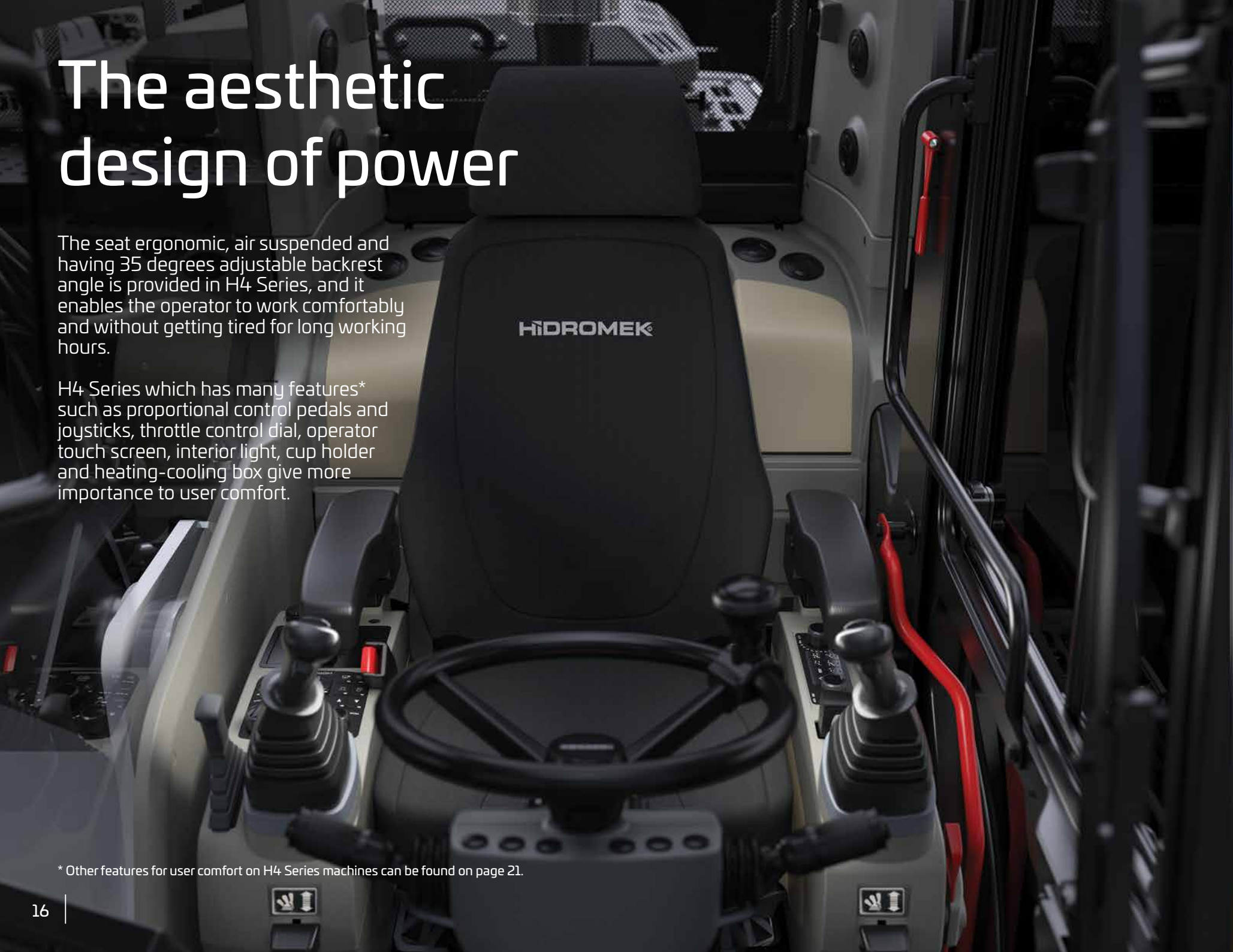
Functions to be controlled by means of Opera

- 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 AI-4JJ1X
Type		Water cooled, 4 cycles, 4 cylinders, inline, diesel engine with direct injection, turbocharger and intercooler
Power	Gross	123 HP (92 kW) @2200 rpm / SAE J1995
	Net	113 HP (84,7 kW) @2200 rpm / SAE J1349
Maximum Torque	Gross	420 Nm @1800 rpm
	Net	393 Nm @1800 rpm
Displacement		2999 cc
Bore x Stroke		ø 95,4 x 104,9 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 160 L/min
Pilot Pump	Gear type 22 L/min

WORKING PRESSURE

Attachment	330 kgf/cm²
Power Boost	360 kgf/cm²
Travel	360 kgf/cm²
Swing	260 kgf/cm²
Pilot	40 kgf/cm²

HYDRAULIC CYLINDERS

Boom	2x ø110 x ø75 x 1080 mm
Arm	1x ø115 x ø80 x 1225 mm
Bucket	1x ø100 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	12,5 rpm

LOWER STRUCTURE (CHASSIS)

Chasis	Box shaped, reinforced lower chassis
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	10,00-20 & 7,5-20

ELECTRICAL SYSTEM

Voltage	24 V
Battery	2 x 12 V / 100 Ah
Alternator	24 V / 50 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	34 km/h
	Low Speed	9,5 km/h
Max. Traction		7417 kgf
Gradeability		27° (%51)
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	280 L	Engine Cooling System	20 L
Hydraulic Tank	120 L	Engine Oil	17 L
Hydraulic System	235 L		

OPERATING WEIGHT (kg)

	Mono Boom	Two Pieces Boom
HMK 140 W	16.200	16.600

EQUIPMENT — HMK 140 W

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	●	

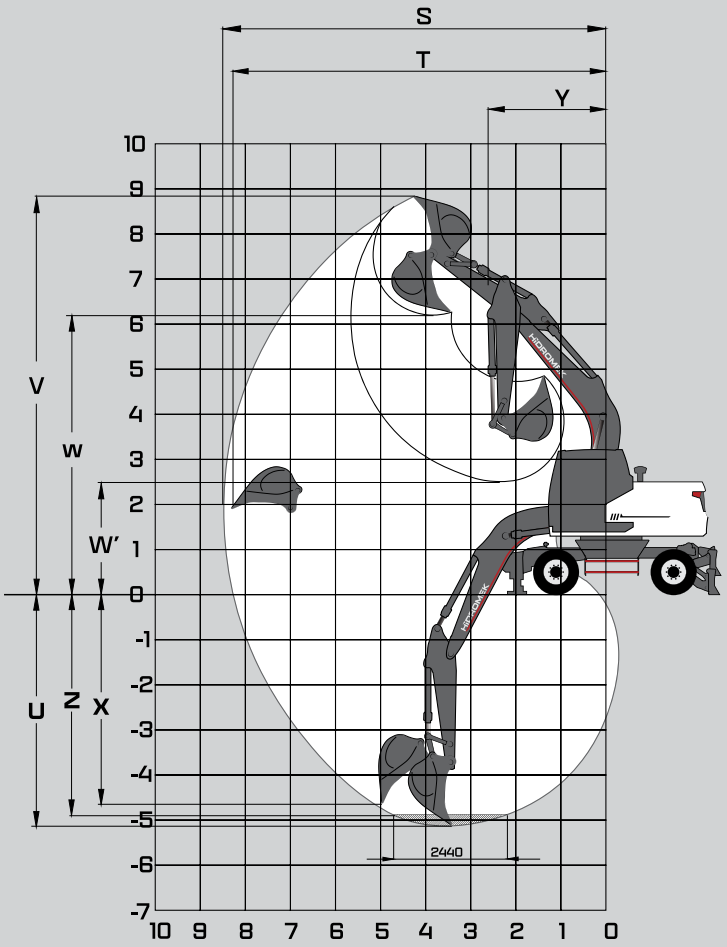
Hydraulic System		
Boom and arm regenaration valve	●	
Automatic power boost	●	
Main hydraulic filter	●	
Backup ports (valve)	●	
Cylinder cushioning and contamination seals	●	
Single-acting hydraulic line, breaker		O
Double- acting hydraulic line, crusher		O
Additional line		O
Quick coupling line		O
Attachment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

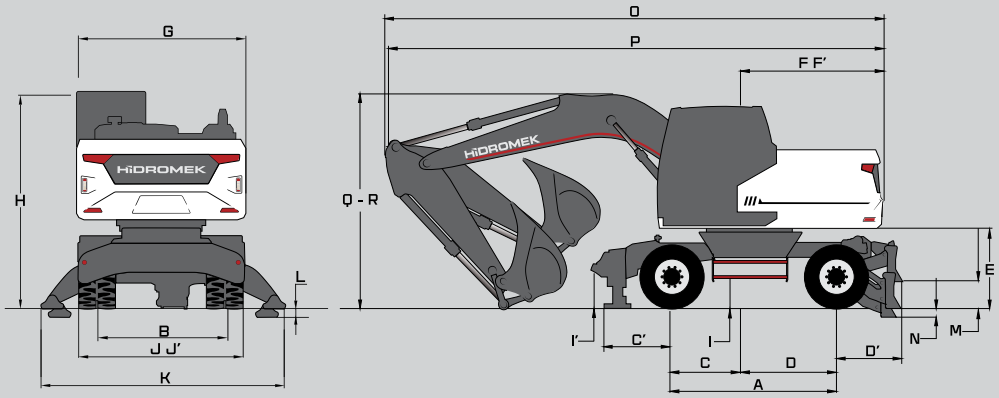
OPERATOR'S CAB		
Pressurized and sound isolated cabin	●	
Air-conditioning	●	
Air-suspension seat	●	
Heated seat		O
Operator touch screen	●	
Opera control system	●	
Throttle control dial	●	
Automatic travel speed (low / high)	●	
4 different working modes	●	
Sliding windscreen and removable lower windscreen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

Safety		
ROPS (Roll Over Protective Structure)	●	
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

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

			Mono Boom			Two Pieces Boom	
		BOOM (m)	4,60			5,09	
		ARM (m)	*2,30	2,00	2,60	2,30	2,60
GENERAL DIMENSIONS (mm)	A)	Axle Distance	2.600				
	B)	Track Gauge	1.945				
	C)	Swing-centre to Front Axle	1.500				
	C´)	Front overhang	1.055				
	D)	Swing-centre to Rear Axle	1.100				
	D´)	Rear overhang	1.075				
	E)	Counterweight clearance	1.280				
	F)	Distance from center of swing to rear end	2.250				
	F´)	Tail Swing Radius	2.310				
	G)	Overall Width of upperstructure	2.500				
	H)	Overall height of cab	3.185				
	I)	Minimum Ground Clearance, Outrigger	355				
	I´)	Minimum Ground Clearance	335				
	J)	Overall Width tires	2.500				
	J´)	Overall width of Outrigger retract	2.500				
	K)	Overall Width Outrigger extend	3.650				
	L)	Max. Outrigger lower	116				
	M)	Dozer Blade Ground Clearance	450				
	N)	Max. Dozer Blade Lower	119				
	O)	Overall Length / Travel	7.580	7.850	7.770	6.325	7.425
	P)	Overall Length/ Transport	7.780	7.890	7.660	8.315	8.265
	Q)	Boom Height / Travel	3.445	3.200	3.955	3.975	3.835
	R)	Boom Height / Transport	3.400	3.130	3.750	2.835	2.985
WORKING RANGES (mm)	S)	Maximum Digging Reach	8.220	7.940	8.520	8.790	9.100
	T)	Maximum Digging Reach at Ground Level	7.990	7.700	8.310	8.580	8.900
	U)	Maximum Digging Depth	5.020	4.720	5.320	5.260	5.560
	V)	Maximum Digging Height	8.780	8.600	9.020	9.500	9.770
	W)	Maximum Dumping Height	6.260	6.080	6.490	6.940	7.200
	W')	Minimum Dumping Height	2.600	2.860	2.270	3.080	2.790
	X)	Maximum Vertical Digging Depth	4.540	4.250	4.840	4.560	4.900
	Y)	Minimum Swing Radius	2.620	2.580	2.670	3.030	3.120
	Z)	Maximum Digging Depth (2440 mm level)	4.800	4.470	5.120	5.150	5.460

* Standard

FORCES

		Mono Boom			Two Pieces Boom	
	BOOM (m)	4,60			5,09	
	ARM (m)	*2,30	2,00	2,60	2,30	2,60
SAE	Bucket Digging Force	8.500				
	Bucket Digging Force (Power Boost)	9.300				
	Arm Crowd Force	6.900	7.500	6.300	6.900	6.300
	Arm Crowd Force (Power Boost)	7.500	8.200	6.900	7.500	6.900
ISO	Bucket Digging Force	9.900				
	Bucket Digging Force (Power Boost)	10.800				
	Arm Crowd Force	7.100	7.800	6.500	7.100	6.500
	Arm Crowd Force (Power Boost)	7.800	8.600	7.100	7.800	7.100

* Standard

STANDARD BUCKET

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

OPTIONAL BUCKET SELECTION SCHEME

General Purpose Bucket

600 mm	810 mm	890 mm	1130 mm
0,30 m^3	0,45 m^3	0,50 m^3	0,70 m^3
350 kg	450 kg	490 kg	560 kg
3	3	4	5
A	A	A	A
A	A	A	A

A- Material density less than 2.000 kg/m^3
B- Material density less than 1.800 kg/m^3
C- Material density less than 1.500 kg/m^3
D- Material density less than 1.200 kg/m^3

* Standard

ATTACHMENTS

QUICK COUPLER

CLEANING BUCKET

LOADING LOGS

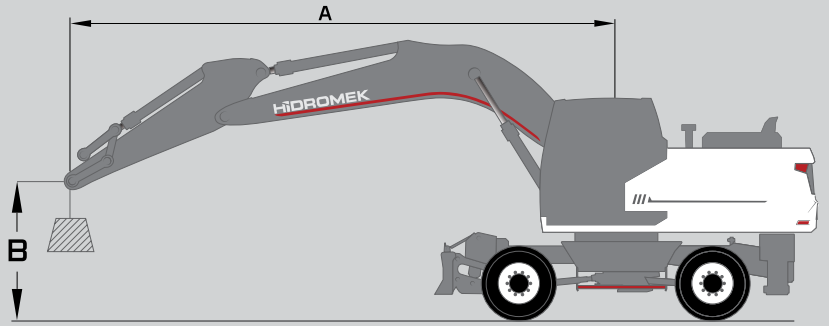
LIFTING CAPACITY (kg)													HMK 140 W
	Boom: 4,6 m		**Arm:** 2,0 m		Without bucket		Front Outrigger/ Rear Outrigger		**D.A:** 2300 kg		: Front	: Side	
A, m	**1,5**		**3,0**		**4,5**		**6,0**		**7,5**		**Maximum Reach**		
B, m													**R, m**
6,0					*4600	*4600					*4000	*4000	5.15
4,5					*5000	*5000	*4350	3850			*3750	3750	6.09
3,0					*6100	5850	*5050	3750			*3800	*3250	6.55
1,5					*7200	5550	*5450	3650			*4100	3150	6.63
0 (Ground)			*7450	*7450	*7700	5400	*5650	3600			*4750	3300	6.36
-1,5	*7600	*7600	*10850	*10850	*7350	5400					*5500	3900	5.68
-3,0			*8400	*8400							*5550	*5550	4.38

LIFTING CAPACITY (kg)													HMK 140 W
	Boom: 4,6 m		**Arm:** 2,3 m		Without bucket		Front Outrigger/ Rear Outrigger		**D.A:** 2300 kg		: Front	: Side	
A, m	**1,5**		**3,0**		**4,5**		**6,0**		**7,5**		**Maximum Reach**		
B, m													**R, m**
7,5											*4100	*4100	3.88
6,0					*4200	*4200					*3400	*3400	5.52
4,5					*4700	*4700	*4450	3900			*3200	*3200	6.40
3,0			*8700	*8700	*5850	*5850	*4850	3750			*3250	3100	6.83
1,5					*7000	5600	*5350	3650			*3500	2950	6.91
0 (Ground)			*7700	*7700	*7650	5400	*5650	3550			*4000	3100	6.65
-1,5	*6900	*6900	*11200	10800	*7500	5400	*5150	3550			*5100	3550	6.00
-3,0			*9100	*9100	*6050	5500					*5400	5000	4.81

LIFTING CAPACITY (kg)													HMK 140 W
	Boom: 4,6 m		**Arm:** 2,6 m		Without bucket		Front Outrigger/ Rear Outrigger		**D.A:** 2300 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	4.41
6,0											*2900	*2900	5.89
4,5					*4350	*4350	*4200	3900			*2750	*2750	6.72
3,0			*7900	*7900	*5500	*5500	*4650	3800			*2750	*2750	7.14
1,5			*7000	*7000	*6750	5600	*5200	3650			*2900	2800	7.22
0 (Ground)			*7650	*7650	*7550	5400	*5550	3550			*3300	2900	6.97
-1,5	*6150	*6150	*11450	10700	*7550	5350	*5450	3550			*4050	3250	6.35
-3,0	*11050	*11050	*9700	*9700	*6500	5450					*5200	4350	5.24

LIFTING CAPACITY (kg)													HMK 140 W 2P BOOM
	Boom: 5,09 m		**Arm:** 2,3 m		Without bucket		Front Outrigger/ Rear Outrigger		**D.A:** 2300 kg		: Front	: Side	
A, m	**1,5**		**3,0**		**4,5**		**6,0**		**7,5**		**Maximum Reach**		
B, m													**R, m**
7,5					*3750	*3750					*4000	*4000	4.85
6,0					*3550	*3550	*3800	*3800			*3400	*3400	6.23
4,5					*4250	*4250	*3900	3850			*3250	3000	7.01
3,0					*5500	*5500	*4400	3750			*3250	2700	7.41
1,5					*6700	5450	*5000	3600			*3400	2600	7.49
0 (Ground)					*7400	5300	*5400	3500			*3750	2700	7.25
-1,5			*8450	*8450	*7450	5250	*5450	3500			*4450	3050	6.66
-3,0					*6700	5350							

LIFTING CAPACITY (kg)													HMK 140 W 2P BOOM
	Boom: 5,09 m		**Arm:** 2,6 m		Without bucket		Front Outrigger/ Rear Outrigger		**D.A:** 2300 kg		: Front	: Side	
A, m	**1,5**		**3,0**		**4,5**		**6,0**		**7,5**		**Maximum Reach**		
B, m													**R, m**
7,5											*3350	*3350	5.32
6,0							*3450	*3450			*2900	*2900	6.59
4,5					*3950	*3950	*3650	*3650			*2750	*2750	7.34
3,0					*5200	*5200	*4200	3750	*3850	2650	*2750	2500	7.72
1,5					*6500	5450	*4850	3600	*4100	2600	*2850	2450	7.79
0 (Ground)					*7250	5250	*5300	3450	*3700	2550	*3100	2500	7.56
-1,5			*7750	*7750	*7450	5250	*5450	3450			*3650	2800	7.00
-3,0					*6900	5300							



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®

HEAD OFFICE
Address : Ahi Evran OSB Mahallesi,
Osmanlı Caddesi, No:1, 06935
Sincan-ANKARA/TÜRKİYE
Phone : +90 312 267 12 60
Fax : +90 312 267 12 39
E-mail: export@hidromek.com.tr

AFTER SALES SERVICE
Address : İstanbul Yolu 17. Km,
Şehit Osman Avcı Mahallesi,
No: 479, Etimesgut-ANKARA/TÜRKİYE
Phone : +90 312 280 87 40
Fax : +90 312 280 87 48

HİDROMEK® WEST

HIDROMEK MAQUINARIA DE CONSTRUCCION ESPAÑA S.L.
Address : Avenida Del Progres 7 08840 –
Viladecans Barcelona/ SPAIN
Phone : +34 93 638 84 65
E-mail : info@hidromek.es

HİDROMEK® JAPAN

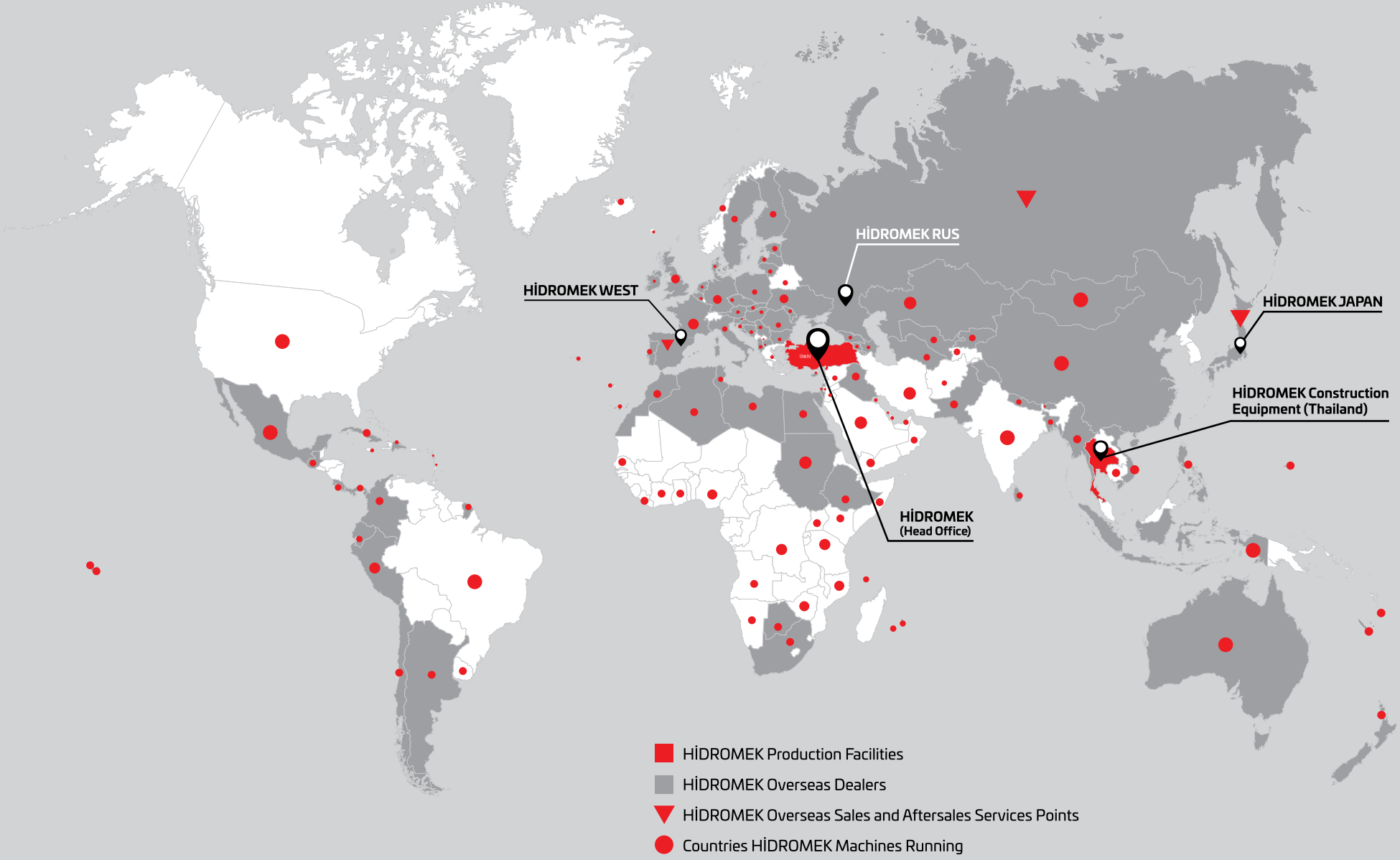
Address : 5-10, Hashimoto 6-chome,
Midori-Ku, Sagamihara,
Kanagawa, 252-0143 JAPAN
Phone : +81 42 703 0261
Fax : +81 42 703 0262
E-mail : Kiyoko.Shinoda@hidromek.com

HİDROMEK® RUS

Address : 72, Zhivopisnaya str., Building A,
village Oktyabrskiy,
Krasnodar, 350032, RUSSIA
Phone : +7 861 290 3007
E-mail : hidromekrus@hidromek.ru

HİDROMEK® HCE

HİDROMEK Construction Equipment (Thailand) Ltd.
Address : Amata City Chonburi Industrial Estate Phase 7,
No. 700/669 Moo 1, T.Phanthong,
A.Phanthong, Chonburi 20160, TAYLAND
Phone : +66 38 447 349
Fax : +66 38 447 355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