GEN SERIES HMK 140 W EXCAVATOR

HIDROMEK®

HEAVY DUTY TYPE

HMK 140W has been designed by HİDROMEK engineers after careful evaluation of working conditions and operator demands and has been released on the market afterward as a wheeled excavator that meets all expectations of users. All fabricated parts including boom, arm, bucket, undercarriage, lower and upper frames have been designed and produced as heavy duty type. HMK 140W offers its operator maximum efficiency by providing trouble-free and continuous operating performance even in the toughest of working conditions. When such rigorous care at the design stage of HMK 140W is combined with worldwide approved components and state-of-the-art production technologies, the outcome has been a high performance, durable, comfortable, and well-balanced product with low maintenance and operation costs.

CAB

HMK 140W excavator cabin has been designed to allow the operator to work comfortably even under the hardest conditions.
Cabin entrance is large enough to enable the operator to enter the cab easily with plenty of clearance. Opening windscreen is designed to give the operator a perfect visibility. It is possible to open the windscreen by sliding it towards the roof. Rear window may be removed and kept under the operator seat. Other features enhancing operator's comfort are the ergonomic seat and front console. The standard operator seat of the HMK 140W can be adjusted in 9 different positions and is designed to enable operator to work without fatigue and comfortably with high performance for long hours. Besides, the joystick console and seat can move independently from each other which lets the operator to adjust the most suitable position for him.
The seat is equipped with seat belt as a safety precaution. The cab is supported by 6 silicon viscose mounts that dampen the effects of noise, shock and vibrations regardless of working conditions of the machine and the optional attachment on it. Also a high capacity air conditioning system is located on the cab to create the optimum working environment for the operator.

ENGINE

“An Extraordinary Engine”

An extraordinary engine…

The Isuzu engine fitted in the HMK 140W is specially developed for excavator applications. It is a turbo diesel engine, complies with the U.S and EU Emission Regulations, with 4 cylinders, 4 cycles, water-cooling, turbocharger and intercooler. High performance, long life and reliability of the engine under all working conditions have been proved in many different markets.

Low fuel consumption…

The direct fuel injection and intercooler features not only provide less fuel consumption but also increase the power and torque produced by the engine by providing more efficient combustion.

More than standard…

HİDROMEK always offers more than what is expected from any construction equipment. Some of the standard features offered along with HMK 140W model are:

- Air pre-heating function to start-up engine easily in cold weather conditions
- Diesel fuel/water separator
- No disturbance for the environment and operator due to low exhaust gas emission and sound level.

“Reinforced Heavy Duty Type Construction”

SUB-FRAME & UNDERCARRIAGE

Lower - Chasis

Chassis : Box cross-sectional, reinforced lower-chassis with dozer blade at the rear and support legs at the front are standard.

Axles : Rear axle is fixed to the lower-chassis. Front axle is connected to the lower-chassis with pins for oscillation and is fixed with locking cylinders at working position.

Tires : 9.00 - 20 TT (14 ply)
18 R 19.5 (Optional)
10.0 - 20 (Optional)

Steering Wheel System

Orbitrol type steering wheel system controls the front wheels through cylinders. Front axle oscillation angle is (±) 8° and minimum turning radius is 6,080 mm.

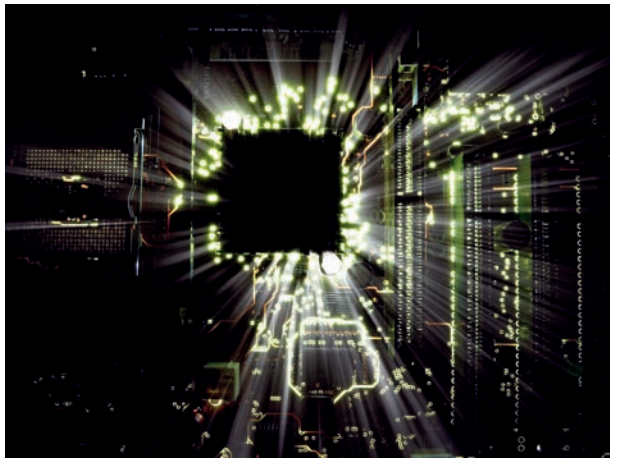
Travel System

Maximum traction, long life and high performance are achieved through latest technology transmission, axles and travel motors produced by world renowned suppliers. There is a safety system in the travel motor to prevent the machine from getting out of control when driving downhill. Moreover, the travel motor is protected from external effects by means of a sheet metal cover.

TECHNICAL SPECIFICATIONS

Opera Control System

- Perfect control
- Fuel economy
- Long component life
- Low noise level and exhaust gas emission
- Operator comfort
- Warning and protection (security) features
- Malfunction / fault indication feature
- Auxiliary functions



Opera Control System ,consists of 4 power modes and 3 working modes, helps operator to choose the most suitable working conditions in accordance with requirements of work through perfect matching with diesel engine and hydraulic pump.

MODE SELECTIONS

A-Power Mode Selection

POWER MODE	
F (Sensitive Mode)	This mode is used for light works requiring sensitive movements
E (Economy Mode)	This mode is for light work in which low fuel consumption is desired.
P (Power Mode)	This mode is for general digging and loading works.
HP (High Power Mode)	This mode is for heavy and high speed required

B- Working Mode Selection

WORKING MODE	
D (Digging Mode)	It is designed for normal digging operations.
B (Breaking Mode)	It is designed for breaking operations.
O (Optional attachment Mode)	It is designed to work with optional attachment.

WARNING AND PROTECTION FEATURES

Continuous Monitoring:
Opera Control System, continuously monitors the most important parameters of machine and warns the operator in case of any abnormality in three ways:

- Audio warning
- Warning lights
- Indicators

Overheating Prevention Function:
If engine water temperature and hydraulic oil temperature exceeds certain limits, electronic control system decreases the pump flow rate and engine rpm to enable the machine work continuosly.

Automatic preheating :
Automatic preheating provides reaching machine to optimum working temperatures by measuring air intake temparature , cooling water temperature and hydraulic oil temperature of diesel engine. Machine control unit removes engine rpm from idling to 1200 rpm when engine cooling water is lower than 30°C or hydraulic oil temperature is lower than 0°C and stay on this rpm until warm up . By this way early wearing of main components beginning engine in the first place is prevented. However if there is emergency and machine is required to be moved quickly , such function can be cancelled by pressing button on display panel.

Automatic Malfunction Indication:
When machine displays any malfunction, code representing such malfunction appears on display panel for warning purpose.

Malfunction Messages Memory:
Opera Control System has feature of keeping occured malfunctions in the machine in its memory.

Fuel filter Congestion Warning:
Notifies pollution of fuel filter to operator by view.

Manuel Mode Selection:
In case of any malfunction in control system of the machine, it is possible to switch to manual mode and continue operation by means of a button located near fuse box. Hydraulic pump flow rate is fixed and also engine rpm can be set between 900 rpm and maxinumum rpm manually.

Component Information and Main Setting Values:
Information regarding serial numbers of the components of the machine can be loaded on the control unit and may be recalled when required. It is also possible to read the required malfunction information on the display panel through the control unit during fault searching.

Program Loading and Modification:
There are computer connection ports on control unit of the machine.By means of such ports, programs of which parameters are either the same or different can be loaded on the machine.

AUXILIARY FEATURES

Automatic Powerboost:
When more power than normal working conditions is needed, electronic control system allows working at high performans through increasing system pressure.

Automatic Powershift:
If more power is needed during digging and travel , required power is obtained by mounting engine rpm and pump flow rate above setup value

Automatic Idling:
While levers are in the middle position, in case of no movements at levers, electronic control system decreases engine rpm to 1200 rpm and then decrease to idling in order to prevent redundant fuel consumption. Automatic Idling function can be activated also at any time determined by operator. When operator touches to lever , engine rpm and pump flow rate of previously selected mode is restored . This function can be canceled by operator if he desires. By this way desired power from engine can be obtained.

Condition Information:
Instant, hourly and total fuel consumption information of machine can be monitored. Also , many parameters such as; battery voltage , engine load, pump pressures , cooling water temperature, and hydraulic oil temprature can be monitored

Maintenance Information:
There is warning system that informs operator about periodic maintenance time automotically. Also parameters related with machine maintenance can be monitored on control panel.

Operation Hours:
Detail working hours of machine , such as working hours, travel hours, attachment hours , breaking hours, are kept on the memory.

Anti-Theft System:
Anti-theft system is set up by defining private code for each operator.

Fuel Consumption:
Fuel consumption can be followed on remote control panel in real time and statistical information can be obtained.

Language Selection:
Selection of multi-language on the remote control panel.

Since the very first phase of its design, the new generation GEN Series Excavators has been developed so that the user could control the machine with an extraordinary ease, in an environment of total comfort, feeling himself like in his own office.

That is why, GEN - the new generation of excavators HİDROMEK, for first time in its class, has been equipped with OPERA (HİDROMEK Operator Interface).

OPERA user interface, especially developed for the GEN series HİDROMEK excavators, which integrates all the control devices on an aesthetically designed and ergonomically located console. The system consists of a high resolution (HD) coloured TFT screen , an Electronic Control Unit and the Opera Control Unit.

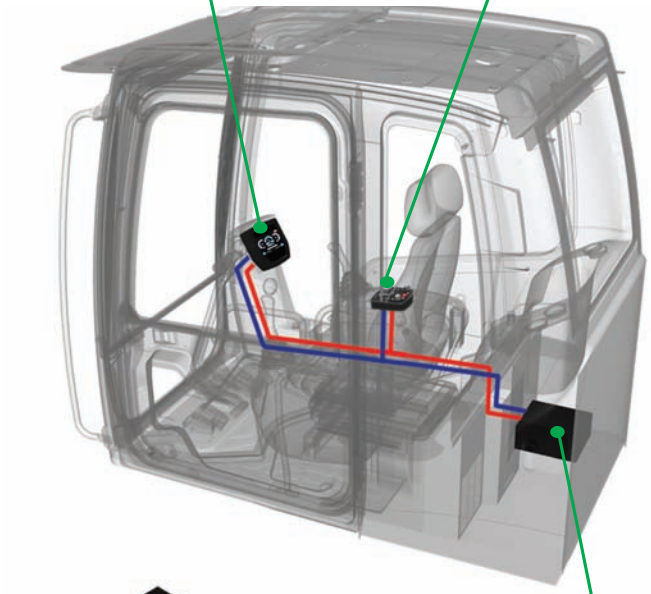
With OPERA it is extraordinary easy to manage functions such as:

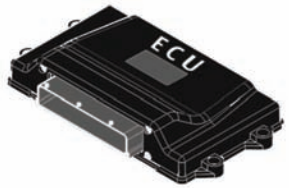
- Engine RPM control
- Navigate in the menus
- Choose the most appropriate working mode
- Control the lights and wipers
- Manage radio/MP3
- Start-Stop the engine to ensure maximum fuel economy.
- Control of the cameras – rear view and on the arm (optional)
- Monitoring the machine conditions, such as hydraulic pressure, engine coolant and hydraulic oil temperature, turbo boost pressure, fuel pressure, atmosphere pressure and others.
- Error Codes
- Times of work - as a time of excavating, work with attachments (breakers etc), travel, etc.
- Time to the next maintenance

among others.

Coloured TFT Display

Instrument Panel





Electronic Control Unit

HYDRAULIC SYSTEM

Features:
- Easy to control
- High efficiency
- Generation of required flow rate when needed (negative control)
- Continuous control of power generation depending on increasing load
- Maximum performance under all sorts of working conditions due to functional power modes
- Priority allowance in attachment movements
- Regeneration of flow rate in main control valve

Main Hydraulic Pump
Machine performance and pump life have been maximized by using two axial pistons and variable displacement hydraulic pumps from Kawasaki, a worldwide leading hydraulic pump manufacturer. It is possible to generate the necessary flow rate when required thanks to the negative control feature. By matching the power generated from diesel engine and the power required by the hydraulic pump under increase load, engine stalls is prevented. The best matching of the engine and pump flow rate is achieved with the power mode modulation depending on working conditions. By this way;
- High efficiency
- High quality
- Long and trouble-free operating life is achieved.

Main Control Valve
The main control valve ensures sensitive and vibration free operation in each combined movement. The operator is able to focus only on his work since the priority at the arm, boom and swing movements are provided automatically by the control valve, thus maximizing efficiency. The re-generative system prevents cavitations during boom, arm and bucket movements and increases both the life of the hydraulic system and speed of the machine.
Holdin valves on the boom and arm are supplied as standard equipments in order to balance the interior leakage between spool and body so the potential leakage problem at the attachments is avoided.
Thanks to the two-staged main relief valve, it is possible to increase the power whenever is required.
Inside the main control valve, there is straight travel valves.
Due to the featured structure of the main valve block, it is possible to join the oil produced by both pumps within the valve group.
There is no need for an external pipe or hose for such operation.

An additional valve section is available for breaker or other optional attachments.

Swing Hydromotor and Gearbox
An axial piston type hydromotor with high torque is used together with a heavy duty type gearbox.
The hydromotor features shock absorbing valves specially designed to provide smooth and vibration free swing movement. The braking of the swing movement is provided by an oil type spring-driven park brake system.

Other features
The hydraulic accumulator which enables lowering of the attachments in case of emergency (i.e. diesel engine or main hydraulic pump failure) is located in the pilot line.
The advanced hydraulic system provides easy maintenence and thus decreases spare part costs.
Hydraulic cylinders are designed with a cushioning system to provide a vibration and shock free operation.
The entire hydraulic system is fitted with high capacity filters so ensure absolute cleanliness.
Different types of breakers may be fitted by selecting desired flow rate and pressure on the control unit.

ENGINE

Emission Class	: Stage III-A (Tier 3), 97/68EC	: Stage III-B (Tier 4 interim)
Brand, Model	: ISUZU AI-4JJ1X	: ISUZU AJ-4JJ1X
Type	: Water cooled diesel engine, 4 cycles, 4 cylinders, line-type, direct injection, turbocharger and intercooler	: Water cooled diesel engine, 4 cycles, 4 cylinders, line-type, direct injection, turbocharger and intercooler
Power	: 113 HP (84.7 kW) at 2200 rpm SAE J1349 (Net)	: 117 HP (87.7 kW) at 2200 rpm SAE J1349 (Net)
	: 123 HP (92 kW) at 2200 rpm SAE J1995 (Gross)	: 127 HP (95 kW) at 2200 rpm SAE J1995 (Gross)
Maximum Torque	: 393 Nm at 1800 rpm (Net)	: 393 Nm at 1800 rpm (Net)
	: 420 Nm at 1800 rpm (Gross)	: 420 Nm at 1800 rpm (Gross)
Displacement	: 2999 cc	: 2999 cc
Bore x Stroke	: 95.4 mm x 104.9 mm	: 95.4 mm x 104.9 mm
This new engine complies with the Emission Regulations U.S EPA Tier III and EU Stage III-A		This new engine complies with the Emission Regulations U.S EPA Tier 4 interim and EU Stage III-B

HYDRAULIC SYSTEM

Main Pump		
Type	: 2 axial piston type pumps with double variable displacement and inclined plate	
Max. Flow Rate	: 2 x 155 lt/min	
Pilot Pump	: Gear type, 20 lt/min	
Working Pressures	Monoboom	Double piece boom
Cylinders	: 330 kgf/cm^2	330 kgf/cm^2
Power Boost	: 360 kgf/cm^2	360 kgf/cm^2
Travel	: 360 kgf/cm^2	360 kgf/cm^2
Swing	: 260 kgf/cm^2	260 kgf/cm^2
Pilot	: 40 kgf/cm^2	40 kgf/cm^2
Boom 2 Cylinders	: -	280 kgf/cm^2
Cylinders (Mono boom)		
Boom	: 2 x ø 110 x ø 75 x 1.080 mm	
Arm	: 1 x ø 115 x ø 80 x 1.225 mm	
Bucket	: 1 x ø 100 x ø 70 x 910 mm	
Cylinders (Double piece boom)		
Boom	: 2 x ø 110 x ø 75 x 930 mm	
Arm	: 1 x ø 115 x ø 80 x 1.225 mm	
Bucket	: 1 x ø 100 x ø 70 x 910 mm	
Additional boom cylinder	: 1 x ø 150 x ø 90 x 680 mm	

SWING SYSTEM

Motor	: Axial piston motor with integrated super shock absorbing valve, with fixed displacement and inclined plate
Reduction	: 2 stage planetary gear type v
Swing Brakei	: Hydraulic, disc type with warning
Swing Speed	: 13 rpm

CAB

- Improved operator's all round visibility
- Increased cabin internal space
- Use of six viscomount cabin mountings that dampen the vibrations
- High capacity A/C
- Cooled storage box
- Glass holder, book and object storage pockets
- Pool type floor mat
- Improved operator's comfort through versatile adjustable seat
- Ergonomically redesigned cabin through relocated switch board, and re-styled travel pedals and levers

ELECTRICAL SYSTEM

Voltage	: 24 V
Battery	: 2 x 12 V / 100 Ah
Alternator	: 24 V / 50 A
Starting Motor	: 24 V / 4,0 kw

FILLING CAPACITIES

Fuel Tank	: 270 L	Engine Oil	: 16 L
Hydraulic Tank	: 120 L	Swing Reduction Gear	: 2.4 L
Hydraulic System	: 235 L	Transmission	: 2.5 L
Engine Cooling Sys	: 21 L	Front/Rear Axle	:14.5/17.4 L

LUBRICATION

A central lubrication system is available in order to lubricate difficult-to-reach points such as boom and arm.

TRAVEL AND BRAKES

Travel	: Fully hydrostatic
Travel Motor	: Piston motor with variable displacement.
Reduction	: Planetary gear system with 2 stages
Travel Speed	
High	: 32 km/h
Low	: 8 km/h
Max Traction	: 7.715 kgf
Gradeability	: 29˚ (56 %)
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.

OPERA CONTROL SYSTEM

• Easy-to-use control panel and menu	• Maintenance information and warning system
• Improved fuel economy and productivity	• Overheat prevention and protection system without interrupting the work
• Maximum efficiency by selection of power and work modes	• Real time monitoring of operational parameters such as pressure, temperature, engine load
• Automatic electric cut-off	• Selection of multi-language on control panel.
• Automatic powerboost switch-on and switch-off	• Automatic powershift to improve performance
• Auto-Idle and automatic deceleration system	• Error mode registry and warning system
• HİDROMEK Smartlink (Optional)	• Anti-theft system with personal code
• Automatic preheater	• Possibility to register 26 different operating hours
	• Rear-view, arm-view camera (Optional)

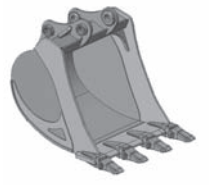
WEIGHT

Standard machine operating weight
(with dozer blade and outriggers)

Monoboom	: 15.900 kg
Double piece boom	: 16.250 kg

ACCESSORIES

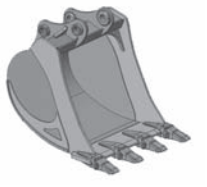
STANDARD BUCKET



		Width	985 mm
		Capacity	0.6 m³
		Weight	490 kg
ARM	4.6 m Mono Boom	2.0 m	A
		*2.3 m	B
		2.6 m	C
		2.9 m	C
	5.09 m 2 Piece Boom	2.0 m	B
		*2.3 m	C
		2.6 m	C

* Standard

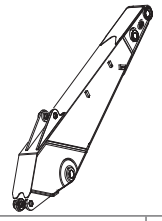
OPTIONAL BUCKET SELECTION DIAGRAM



600 mm	780 mm	890 mm	1.140 mm
0.35 m³	0.45 m³	0.52 m³	0.75 m³
350 kg	420 kg	460 kg	580 kg
A	A	A	C
A	A	A	C
A	A	A	D
A	A	B	D
A	A	A	D
A	A	B	D
A	B	C	-

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

BREAKOUT FORCES



	Arm length	*2.3 m	2.0 m	2.6 m	2.9 m
	Bucket Capacity	0.6 m³	0.6 m³	0.52 m³	0.52 m³
SAE	Bucket digging force (power boost)	8.900 (9.700) kgf	8.800 (9.600) kgf	8.900 (9.700) kgf	8.900 (9.700) kgf
	Arm breakout force (power boost)	7.000 (7.600) kgf	7.600 (8.300) kgf	6.400 (7.000) kgf	5.900 (6.400) kgf
ISO	Bucket digging force (power boost)	10.000 (10.900) kgf	10.000 (10.900) kgf	10.000 (10.900) kgf	10.000 (10.900) kgf
	Arm breakout force (power boost)	7.200 (7.800) kgf	7.900 (8.600) kgf	6.600 (7.200) kgf	6.000 (6.600) kgf

* Standard

WARNING

- Optional attachment and accessory standards offered with machines may differ according to countries.
- Please consult your authorized dealer to provide attachments and accessories.

FRONT / REAR OUTRIGGERS

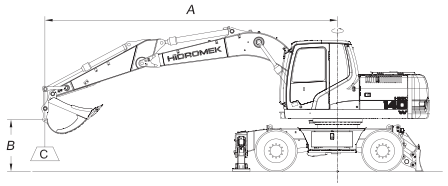
HMK 140W Boom: 4.6 m, Arm: 2.30 m, Bucket: 0.60m³ — Front / Side

A, m	Load Unit	1.5		3.0		4.5		6.0		7.5		Maximum Reach		
B, m		⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	R,m
7.5	kg													
6.0	kg											*2150	*2150	5.85
4.5	kg					*3800	*3800	*3600	*3600			*2100	*2100	6.68
3.0	kg			*7100	*7100	*4950	*4950	*4150	*4150			*2200	*2200	7.10
1.5	kg			*9400	*9400	*6250	*6250	*4750	4100			*2450	*2450	7.18
0 (ground)	kg	*3150	*3150	*8550	*8550	*7100	6350	*5200	3950			*2900	*2900	6.93
- 1.5	kg	*6300	*6300	*11150	*11150	*7250	6250	*5150	3950			*3900	3650	6.31
- 3.0	kg	*10150	*10150	*9600	*9600	*6350	*6350					*5200	*5050	5.19

FRONT OUTRIGGER / REAR DOZER BLADE

HMK 140W Boom: 4.6 m, Arm : 2.30 m, Bucket: 0.60 m³ — Front / Side

A, m	Load Unit	1.5		3.0		4.5		6.0		7.5		Maximum Reach		
B, m		⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	R,m
7.5	kg													
6.0	kg											*2150	*2150	5.85
4.5	kg					*3800	*3800	*3600	*3550			*2100	*2100	6.68
3.0	kg			*7100	*7100	*4950	*4950	*4150	3450			*2200	*2200	7.10
1.5	kg			*9400	*9400	*6250	5200	*4750	3300			*2450	*2450	7.18
0 (ground)	kg	*3150	*3150	*8550	*8550	*7100	4950	*5200	3150			*2900	2550	6.93
- 1.5	kg	*6300	*6300	*11150	10050	*7250	4900	*5150	3150			*3900	2900	6.31
- 3.0	kg	*10150	*10150	*9600	*9600	*6350	4950					*5200	400	5.19



A Load Radius
B Load Point Height
C Lifting Capacity

WARNING
HİDROMEK has the right to modify the specifications and design of the model indicated on this brochure without prior notice.

FRONT / REAR OUTRIGGERS

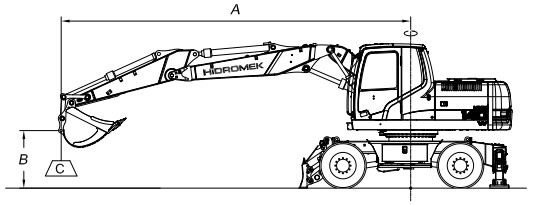
HMK 140W (2 Piece Boom) Boom: 5.09 m, Arm: 2.30 m, Bucket: 0.52 m³ — Front / Side

A, m	Load Unit	1.5		3.0		4.5		6.0		7.5		Maximum Reach		
B, m		⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	R,m
7.5	kg											*2550	*2550	5.29
6.0	kg							*3000	*3000			*2250	*2250	6.57
4.5	kg					*3500	*3500	*3250	*3250			*2200	*2200	7.32
3.0	kg			*7450	*7450	*4700	*4700	*3800	*3800	*3050	2900	*2250	*2250	7.70
1.5	kg					*6000	*6000	*4450	4050	*3700	2850	*2450	*2450	7.77
0 (ground)	kg			*5000	*5000	*6850	6250	*4950	3950	*3100	2800	*2800	2750	7.54
- 1.5	kg			*8150	*8150	*7100	6150	*5150	3900			*3500	*3100	6.98
- 3.0	kg					*6650	*6250					*4650	*4000	5.99

FRONT OUTRIGGER / REAR DOZER BLADE

HMK 140W (2 Piece Boom) Boom: 5.09 m, Arm: 2.30 m, Bucket: 0.52 m³ — Front / Side

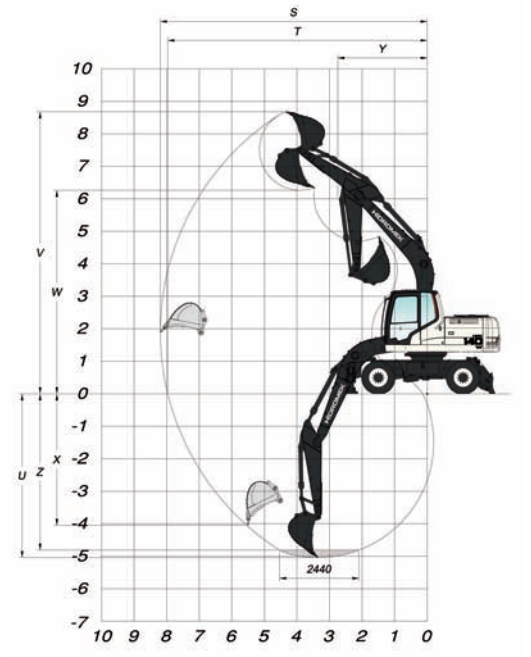
A, m	Load Unit	1.5		3.0		4.5		6.0		7.5		Maximum Reach		
B, m		⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	⇧	⇨	R,m
7.5	kg											*2550	*2550	5.29
6.0	kg							*3000	*3000			*2250	*2250	6.57
4.5	kg					*3500	*3500	*3250	*3250			*2200	*2200	7.32
3.0	kg			*7450	*750	*4700	*4700	*3800	3400	*3050	2350	*2250	2200	7.70
1.5	kg					*6000	5100	*4450	3250	*3700	2250	*2450	2150	7.77
0 (ground)	kg			*5000	*5000	*6850	4850	*4950	3100	*3100	2200	*2800	2200	7.54
- 1.5	kg			*8150	*8150	*7100	4800	*5150	3050			*3500	2450	6.98
- 3.0	kg					*6650	4850					*4650	3150	5.99

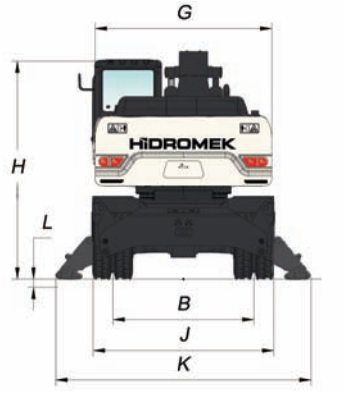


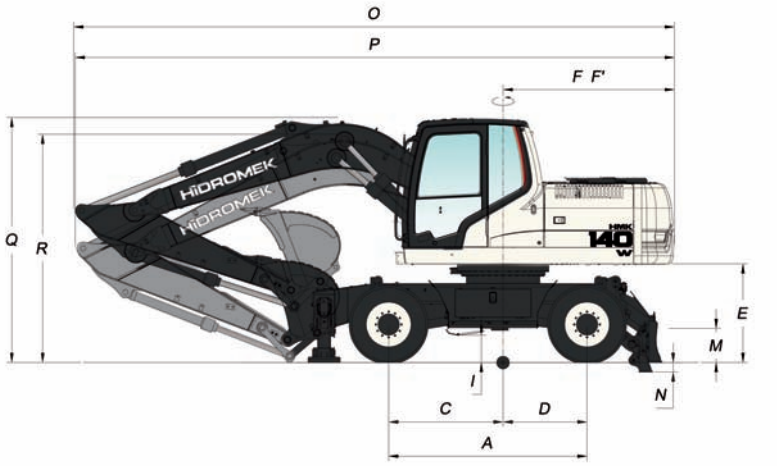
Notes

1. Lifting capacities are according to SAE J1097 and ISO 10567.
2. Load point is on the bucket.
3. Lifting capacity cannot exceed 75% of tip over capacity or 87% of total hydraulic capacity.
4. Values marked with (*) are limited by hydraulic capacity.
5. Not included polyp attachment

DIMENSIONS







GENERAL DIMENSIONS

Boom Dimension			4.600 mm	
Arm Dimension	2.000 mm	*2.300 mm	2.600 mm	2.900 mm
A - Axle Distance		2.600 mm		
B - Thread		1.944 mm		
C - Rotation Axis – Front Axle Distance		1.500 mm		
D - Rotation Axis – Rear Axle Distance		1.100 mm		
E - Upper Chassis to Ground Clearance		1.295 mm		
F - Counterweight Distance		2.250 mm		
F´ - Countweight Turning Radius		2.340 mm		
G - Upper Frame Width		2.500 mm		
H - Cab Height		3.280 mm		
I - Outrigger Ground Clearance		330 mm		
J - Width at Tires (9.0-20/18R19.5/10.0-20)		*2.494 / 2.491 / 2.555 mm		
K - Outrigger Width (Overall)		3.620 mm		
L - Outrigger Digging Depth		125 mm		
M - Dozer Blade Ground Clearance		450 mm		
N - Dozer Blade Digging Depth		120 mm		
O - Overall Length / Travel	7.880 mm	7.860 mm	7.760 mm	7.630 mm
P - Overall Length/ Transport	8.070 mm	8.120 mm	8.170 mm	8.100 mm
Q - Boom Height / Travel	3.110 mm	3.420 mm	3.720 mm	3.920 mm
R - Boom Height / Transport	2.800 mm	2.900 mm	3.200 mm	3.500 mm

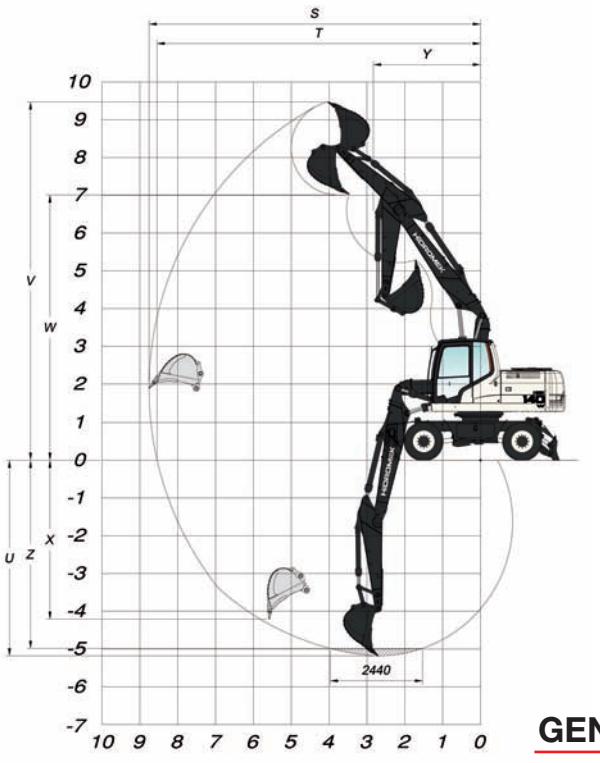
* Standard

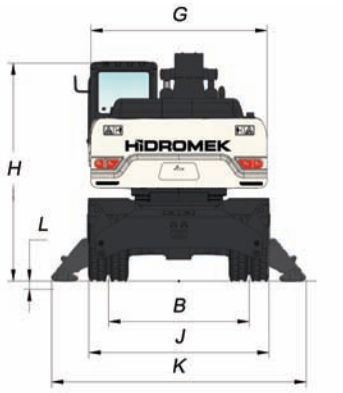
WORKING DIMENSIONS

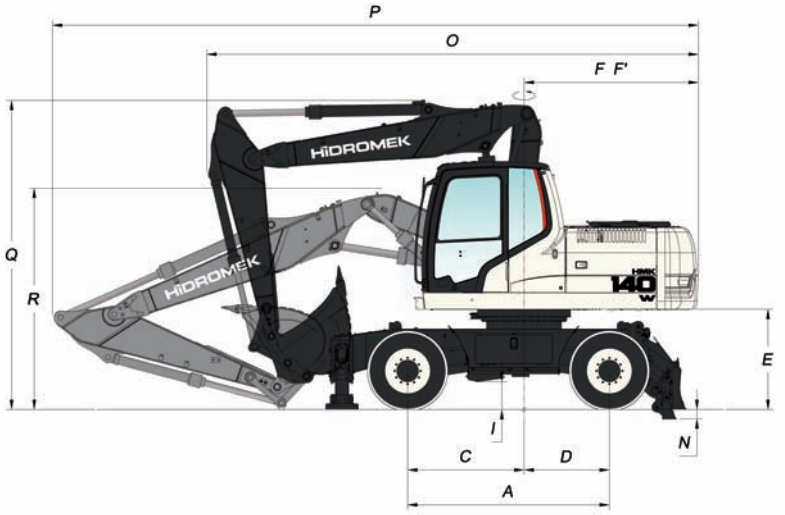
Boom Dimension			4.600 mm	
Arm Dimension	2.000 mm	*2.300 mm	2.600 mm	2.900 mm
S - Maximum Digging Reach	7.910 mm	8.190 mm	8.490 mm	8.780 mm
T - Maximum Digging Reach at Ground Level	7.670 mm	7.960 mm	8.270 mm	8.570 mm
U - Maximum Digging Depth	4.740 mm	5.040 mm	5.340 mm	5.640 mm
V - Maximum Digging Height	8.470 mm	8.660 mm	8.910 mm	9.090 mm
W - Maximum Dumping Clearance	6.060 mm	6.250 mm	6.480 mm	6.660 mm
X - Maximum Vertical Didding Depth	3.640 mm	4.020 mm	4.440 mm	4.710 mm
Y - Minimum Swing Radius	2.740 mm	2.730 mm	2.770 mm	2.800 mm
Z - Maximum Digging Depth (2440 mm level)	4.490 mm	4.810 mm	5.140 mm	5.450 mm

* Standard

140W 2 PIECE BOOM







GENERAL DIMENSIONS

Boom Dimension		5.090 mm	
Arm Dimension	2.000 mm	*2.300 mm	2.600 mm
A Axle Distance		2.600 mm	
B Thread		1.944 mm	
C Rotation Axis – Front Axle Distance		1.500 mm	
D Rotation Axis – Rear Axle Distance		1.100 mm	
E Upper Chassis to Ground Clearance		1.295 mm	
F Counterweight Distance		2.250 mm	
F´ Countweight Turning Radius		2.340 mm	
G Upper Frame Width		2.500 mm	
H Cab Height		3.280 mm	
I Outrigger Ground Clearance		330 mm	
J Width at Tires (9.0-20/18R19.5/10.0-20)		*2.494 / 2.491 / 2.555 mm	
K Outrigger Width (Overall)		3.620 mm	
L Outrigger Digging Depth		125 mm	
M Dozer Blade Ground Clearance		450 mm	
N Dozer Blade Digging Depth		120 mm	
O Overall Length / Travel	6.400 mm	6.340 mm	6.320 mm
P Overall Length/ Transport	8.350 mm	8.370 mm	8.370 mm
Q Boom Height / Travel	3.990 mm	3.990 mm	3.990 mm
R Boom Height / Transport	2.920 mm	2.980 mm	3.100 mm

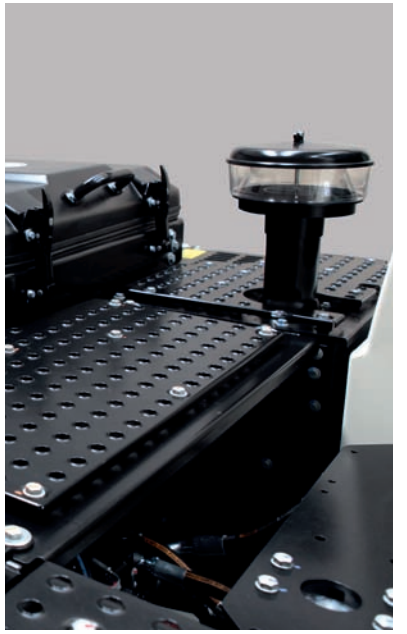
* Standard

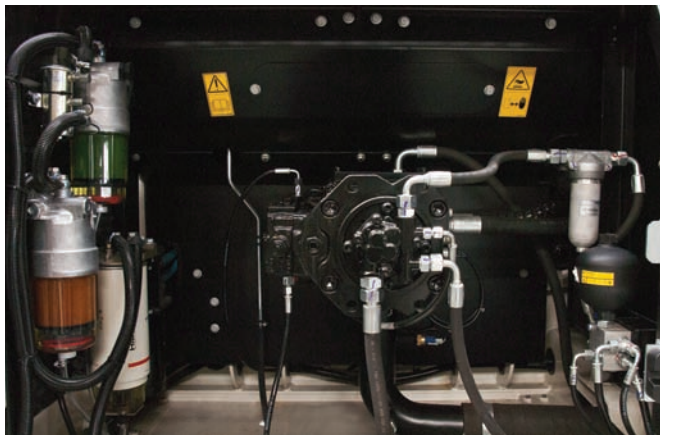
WORKING DIMENSIONS

Boom Dimension		5.090 mm	
Arm Dimension	2.000 mm	*2.300 mm	2.600 mm
S - Maximum Digging Reach	8.460 mm	8.750 mm	9.050 mm
T - Maximum Digging Reach at Ground Level	8.240 mm	8.540 mm	8.850 mm
U - Maximum Digging Depth	4.910 mm	5.210 mm	5.510 mm
V - Maximum Digging Height	9.230 mm	9.450 mm	9.720 mm
W - Maximum Dumping Clearance	6.770 mm	6.990 mm	7.240 mm
X - Maximum Vertical Didding Depth	3.860 mm	4.190 mm	4.540 mm
Y - Minimum Swing Radius	2.950 mm	3.030 mm	3.120 mm
Z - Maximum Digging Depth (2440 mm level)	4.800 mm	5.110 mm	5.410 mm

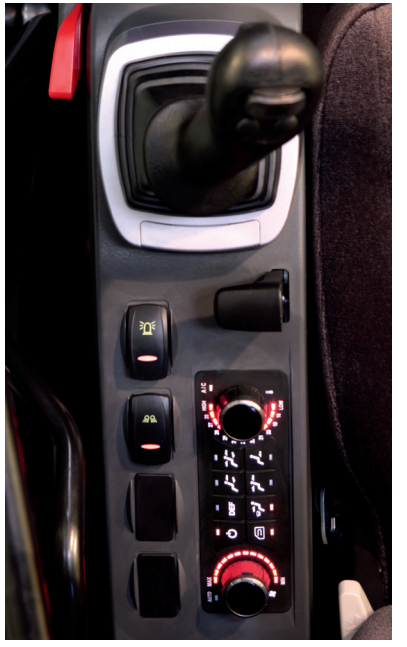
* Standard

DETAILS






AM/FM
RADIO/USB MUSIC PLAYER
SEL
PUSH PWR
VOL
MUTE
MODE
FM3 95.30
BSM
1 DISP
2 SCN
3 RPT
4 RDM
5 D−
6 D+



Special Equipment List

- 2.0 m, 2.6 m , 2.9 m arm
- Various size buckets
- Automatic lubrication system
- Rotator line
- Boom safety valve
- Arm safety valve
- Overload warning system
- Hydraulic breaker
- Hydraulic quick coupler
- Ripper
- Rotator
- Windscreen protective netting
- Headlights
- HİDROMEK Smart Link
- Rotational moving hydraulic shear installation
- 18 R 19.5 XF Tyres
- 10-00-20 16 Ply Tyres
- Air suspension seat with heated

Standard Equipment List

- Radio/MP3
- Air conditioner
- Cab heating system
- ROPS/FOPS approved cabin
- Computer connection port
- Fuel transfer pump
- Front air filter
- Double air filter
- Automatic idling
- Engine pre-heating facility
- Overheating, low engine pressure, air filter clogging indicators
- Battery charge warning system
- Front working Lamp, above cab beacon Lamp
- Hydraulic breaker line
- Rear view Camera
- Tool box
- Working ligth on counterweigth
- Additional working lamp at the front
- Additional working lamp at the rear
- Air suspension seat

ENG - MARCH 2018 / 020318

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