HİDROMEK

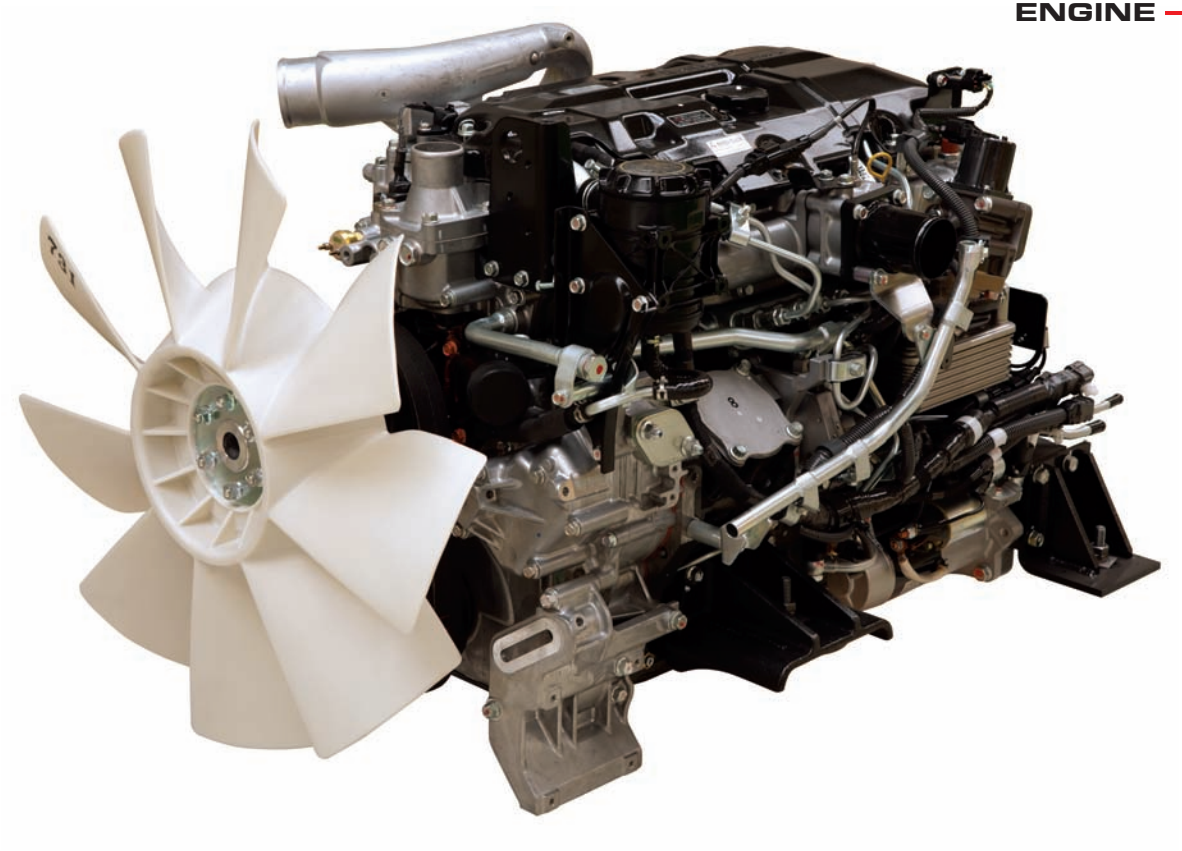
# HMK
## 140W
GEN


## HEAVY DUTY TYPE

HMK 140 W has been designed by HIDROMEK engineers after careful evaluation of working conditions and operator demands and has been released on the market following 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 140 W 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 140 W 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 140 W excavator cabin has been designed to allow the operator to work comfortably even under the hardest conditions.
The cab door is large enough to enable the operator to open it easily plenty of clearance. Opening windscreen is designed to give the operator a perfect angle of vision. It is possible to open the windscreen by sliding it towards the roof and windscreen. 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 140 W 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 enabling operator to adjust the most suitable position for his body structure.
The seat is equipped with seat belt for safety of the operator. 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 an air conditioner is included in the standard equipment.



# “An Extraordinary Engine”

## Diesel Engine

Max Power (SAE J1349) : 124 HP (92.5 kW) 2000 rpm
Max Torque : 484 Nm 1600 rpm

**An extraordinary engine…**

The Mitsubishi engine fitted in the HMK 140 W is specially developed for excavator applications. It is a turbo diesel engine, complies with the Emission Regulations U.S EPA Tier III and EU Stage IIIA, 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 feature 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…**

Hidromek always offers more than what is expected from any construction equipment. Some of the standard features offered along with HMK 140 W 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”


**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 (14 ply)
18 R 19.5 (Optional)
10.0 - 20 (Optional)

**Steering Wheel System**

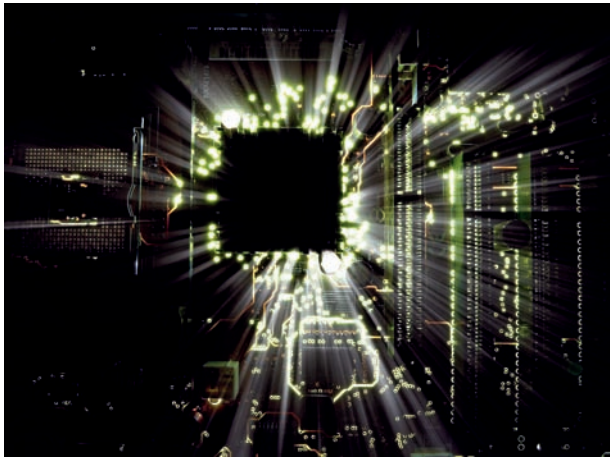
Orbitrol type steering wheel system controls the front wheels through cylinders. Front axle oscillation angle is (±) 8° and minimum turning radius is 6,080 mm.

**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.

# 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 mode and 3 work modes, introduces operator most suitable working conditions in accordance with requirements of work with high performance and economic working options 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 ) | P mode is for general digging and loading works. |
| HP (High Power Mode) | This mode is for heavy and high speed required works. It is suitable for when productivity is considered |

**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 most important parameters of machine and promptly warn operator in case of any abnormality. Such warning can be in three ways:

- Audible warning
- Warning lights
- Indicators

**Overheating Prevention Function:**
If engine water temperature and hydraulic oil temperature exceeds certain temprature , electronic control system provides continuous work by decreasing pump flow rate and engine rpm .

**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 Water Warning:**
Notifies water inside the 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 980 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 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.

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

Since the very first phase of its design, the new generation GEN 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 Hidromek, for first time in its class, has been equipped with OPERA (Hidromek Operator Interface).

OPERA, the user interface especially developed for the GEN series Hidromek excavators integrates all the control devices on a aesthetically designed console ergonomically located for easy access and deal, a TFT color screen with high resolution, and the Electronic Control Unit.

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

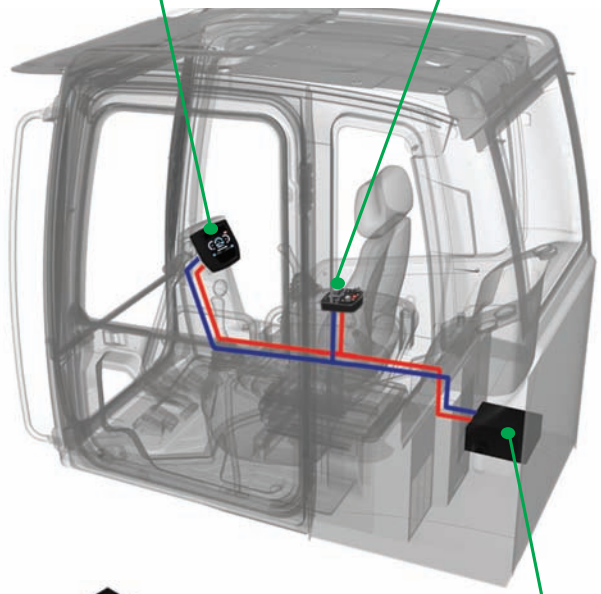
- Engine RPM control
- Navigating and scrolling the menus
- Choose the most appropriate mode of working
- Control the lights and wipers
- Manage radio/MP3
- Stop-Start the engine to ensure maximum fuel economy during the waiting times.
- Control of the cameras – rear view and on the arm (optional)
- Observe the conditions information, 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

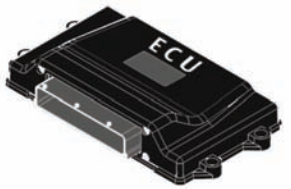
among others.



Electronic Visual Display

Instrument Panel






Electronic Control Unit


**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. Stalling of the engine is prevented by matching the power generated by diesel engine with the power required by the pump under increasing load . 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.

Boom and arm load holding valves are supplied as standard in order to balance the interior leakage between spool and body so the potential leakage problem at the attachments is avoided.

Two-stage main relief valve provides possibility to increase power when required.

Straight travel valve exists within the main control valve. 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 fitted in the pilot line.

The advanced hydraulic system provides easy servicing and decreased 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

| | |
|---|---|
| Brand, Model | : MITSUBISHI 4M50-TL |
| Type | : Water cooled diesel engine, 4 cycles, 4 cylinders, line-type, direct injection, turbocharger and intercooler |
| Emission Class | : Stage III-A ( Tier 3) |
| Power | : 124 HP (92.5kW) at 2000 rpm SAE J1349 |
| Maximum Torque | : 484 Nm at 1600 rpm |
| Displacement | : 4,900 cc |
| Bore x Stroke | : 114 mm x 120 mm |

This new engine complies with the Emission Regulations U.S EPA Tier III and EU Stage III-A

## HYDRAULIC SYSTEM

**Main Pump**

| | |
|---|---|
| Type | : 2 axial piston type pumps with double variable displacement and inclined plate |
| Max. Flow Rate | : 2 x 160 lt/min |
| Pilot Pump | : Gear type, 20 lt/min |

**Working Pressures**

| | |
|---|---|
| Cylinders | : 330 kgf/cm² |
| Power Boost | : 360 kgf/cm² |
| Travel | : 360 kgf/cm² |
| Swing | : 260 kgf/cm² |
| Pilot | : 40 kgf/cm² |

**Cylinders**

| | |
|---|---|
| Boom | : 2 x 110 x 75 x 1,080 mm |
| Arm | : 1 x 115 x 80 x 1,225 mm |
| Bucket | : 1 x 100 x 70 x 910 mm |

## LUBRICATION

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

WARNING

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

## 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 Brake | : 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 room
- 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 x 100 Ah |
| Alternator | : 24 V / 50 A |
| Starting Motor | : 24 V / 5.0 kW |

## FILLING CAPACITIES

| | | | |
|---|---|---|---|
| Fuel Tank | : 270 L | Engine Oil | : 20.5 lt |
| Hydraulic Tank | : 120 L | Swing Reduction Gear | : 2.4 lt |
| Hydraulic System | : 216 L | Transmission | : 3 lt |
| Engine Cooling Sys | : 24 L | Front/Rear Axle | : 8/8lt |

## TRAVEL AND BRAKES

| | |
|---|---|
| Travel | : Fully hydrostatic |
| Travel Motor | : Piston motor with variable displacement. |
| Reduction | : Planetary gear system with 2 stages |
| Travel Speed | |
| High | : 27 km/h |
| Low | : 7 km/h |
| Max Traction | : 7,400 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. |

**Opera Control System**

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

## WEIGHT

Standard machine operating weight (with dozer blade and outriggers)

| | |
|---|---|
| Monoboom | : 15,400 kg |
| Double piece boom | : 15,800 kg |

## STANDARD BUCKET

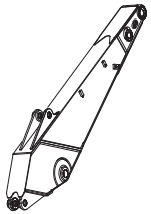
| | | | |
|---|---|---|---|
| | | **Width** | 985 mm |
| | | **Capacity** | 0.6 m³ |
| | | **Weight** | 490 kg |
| | | | |
| **ARM** | 2.0 m | 4.6 m Mono Boom | A |
| | *2.3 m | | B |
| | 2.6 m | | C |
| | 2.9 m | | C |
| | 2.0 m | 5.09 m 2 Piece Boom | B |
| | *2.3 m | | C |
| | 2.6 m | | C |

## OPTIONAL BUCKET SELECTION DIAGRAM

| 600 mm | 780 mm | 890 mm | 1115 mm |
|---|---|---|---|
| 0.35 m³ | 0.45 m³ | 0.52 m³ | 0.75 m³ |
| 350 kg | 420 kg | 440 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 1.200 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) | 8.800 (9.600) kgf | 8.800 (9.600) kgf | 8.800 (9.600) kgf | 8.800 (9.600) 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 |

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

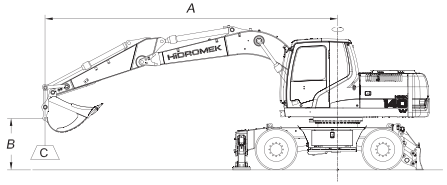
HMK 140W Boom: 4.6m, Arm: 2.30m, Bucket: 0.60m³ — ⇧: Front ⇨: Side

| A, m | Load Unit | 1.5 | | 3.0 | | 4.5 | | 6.0 | | 7.5 | | Maximum Reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B, m | | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | A, m |
| 7.5 | kg | | | | | | | | | | | | | |
| 6.0 | kg | | | | | | | | | | | *1950 | *1950 | 5.81 |
| 4.5 | kg | | | | | *3450 | *3450 | *3250 | *3250 | | | *1900 | *1900 | 6.65 |
| 3.0 | kg | | | *6450 | *6450 | *4450 | *4450 | *3750 | *3750 | | | *2000 | *2000 | 7.07 |
| 1.5 | kg | | | *8600 | *8600 | *5650 | 5650 | *4250 | 3900 | | | *2200 | *2200 | 7.15 |
| 0 (ground) | kg | *2900 | *2900 | *7850 | *7850 | *6400 | 6100 | *4650 | 3800 | | | *2650 | *2650 | 6.90 |
| -1.5 | kg | *5800 | *5800 | *10050 | *10050 | *6500 | 6000 | *4600 | 3800 | | | *3600 | *3550 | 6.27 |
| -3.0 | kg | *9350 | *9350 | *8600 | *8600 | *5650 | 5650 | | | | | *4700 | *4700 | 5.14 |

## FRONT OUTRIGGER / REAR DOZER BLADE

HMK 140W Boom: 4.6m, Arm : 2.30m, Bucket: 0.60m³ (SAE), — ⇧: Front ⇨: Side

| A, m | Load Unit | 1.5 | | 3.0 | | 4.5 | | 6.0 | | 7.5 | | Maximum Reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B, m | | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | A, m |
| 7.5 | kg | | | | | | | | | | | | | |
| 6.0 | kg | | | | | | | | | | | *1950 | *1950 | 5.81 |
| 4.5 | kg | | | | | *3450 | *3450 | *3250 | *3250 | | | *1900 | *1900 | 6.66 |
| 3.0 | kg | | | *6450 | *6450 | *4450 | *4450 | *3750 | *3300 | | | *2000 | *2000 | 7.07 |
| 1.5 | kg | | | *8600 | *8600 | *5650 | *4950 | *4250 | 3150 | | | *2200 | *2200 | 7.15 |
| 0 (ground) | kg | *2900 | *2900 | *7850 | *7850 | *6400 | 4750 | *4650 | 3000 | | | *2650 | 2450 | 6.90 |
| -1.5 | kg | *5800 | *5800 | *10050 | *9650 | *6500 | 4700 | *4600 | 3000 | | | *3600 | 2800 | 6.28 |
| -3.0 | kg | *9350 | *9350 | *8600 | *8600 | *5650 | *4750 | | | | | *4700 | *3900 | 5.14 |




A Load Radius
B Load Point Height
C Lifting Capacity

## FRONT / REAR OUTRIGGERS

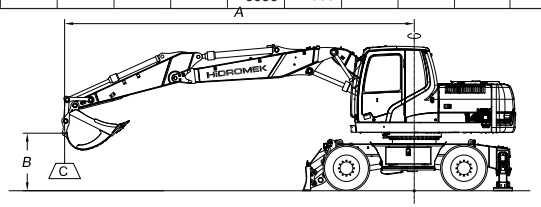
HMK 140W Bom: 5.09m, Arm: 2.30m, Bucket: 0.60m³ (SAE), — ⇧: Front ⇨: Side

| A, m | Load Unit | 1.5 | | 3.0 | | 4.5 | | 6.0 | | 7.5 | | Maximum Reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B, m | | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | A, m |
| 7.5 | kg | | | | | | | | | | | *2400 | *2400 | 5.21 |
| 6.0 | kg | | | | | | | *2700 | *2700 | | | *2100 | *2100 | 6.51 |
| 4.5 | kg | | | | | *3100 | *3100 | *2900 | *2900 | | | *2050 | *2050 | 7.26 |
| 3.0 | kg | | | *6700 | *6700 | *4250 | *4250 | *3400 | 3400 | *2550 | 2550 | *2150 | *2150 | 7.65 |
| 1.5 | kg | | | | | *5400 | 5400 | *3950 | 3900 | *3150 | 2700 | *2350 | 2350 | 7.72 |
| 0 (ground) | kg | | | *4500 | *4500 | *6150 | 5950 | *4400 | 3750 | | | *2700 | 2650 | 7.49 |
| -1.5 | kg | | | *7400 | *7400 | *6350 | 5900 | *4550 | 3700 | | | *3400 | 3000 | 6.92 |
| -3.0 | kg | | | | | *5950 | 5950 | | | | | *4200 | 3850 | 5.92 |

## FRONT OUTRIGGER / REAR DOZER BLADE

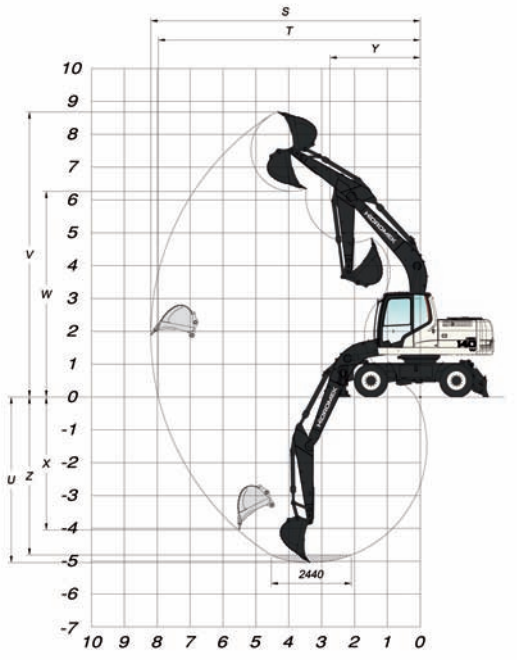
HMK 140W Bom: 5.09m, Arm: 2.30m, Bucket: 0.60m³ (SAE), — ⇧: Front ⇨: Side

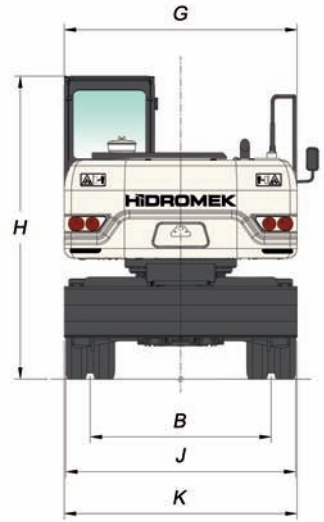
| A, m | Load Unit | 1.5 | | 3.0 | | 4.5 | | 6.0 | | 7.5 | | Maximum Reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B, m | | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | ⇧ | ⇨ | A, m |
| 7.5 | kg | | | | | | | | | | | *2400 | *2400 | 5.21 |
| 6.0 | kg | | | | | | | *2700 | *2700 | | | *2100 | *2100 | 6.51 |
| 4.5 | kg | | | | | *3100 | *3100 | *2900 | *2900 | | | *2050 | *2050 | 7.26 |
| 3.0 | kg | | | *6700 | *6700 | *4250 | *4250 | *3400 | *3350 | *2700 | 2300 | *2150 | *2150 | 7.65 |
| 1.5 | kg | | | | | *5400 | 5050 | *3950 | 3200 | *3300 | 2200 | *2350 | *2100 | 7.72 |
| 0 (ground) | kg | | | *4600 | *4600 | *6150 | 4800 | *4400 | 3050 | | | *2700 | *2200 | 7.49 |
| -1.5 | kg | | | *7550 | *7550 | *6350 | 4750 | *4550 | 3050 | | | *3400 | *2450 | 6.92 |
| -3.0 | kg | | | | | *5950 | 4800 | | | | | *4200 | 3150 | 5.92 |

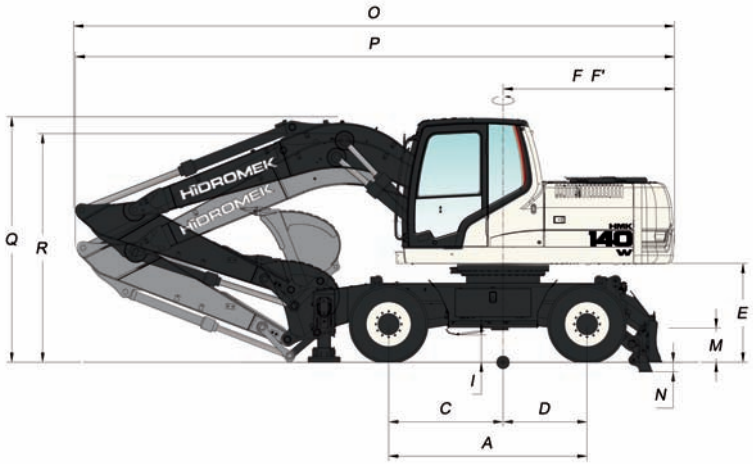



### Notes

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




## GENERAL DIMENSIONS

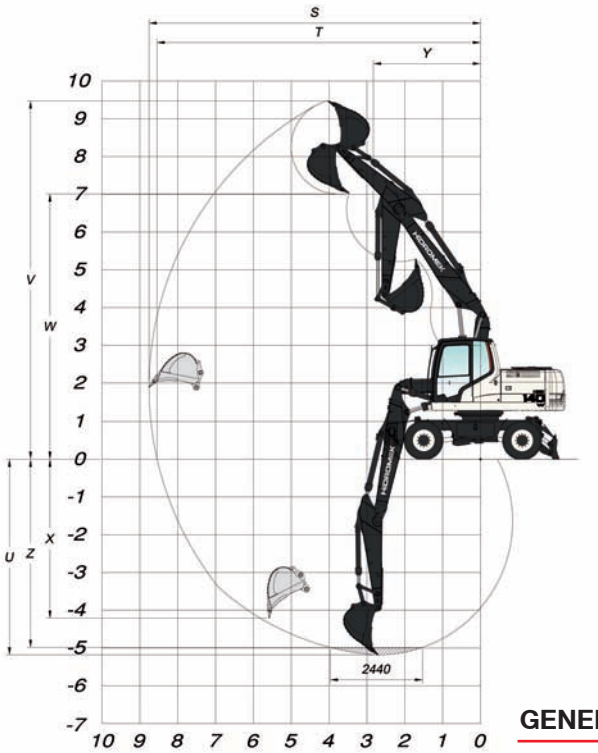
| Boom Dimension | 4.600 mm | | | |
|---|---|---|---|---|
| Arm Dimension | 2.000 mm | *2.300 mm | 2.600 mm | 2.900 mm |
| A - Axle Distance | 2.600 mm | | | |
| B - Thread | 1.944 mm | | | |
| C - Rotation Axis – Front Axle Distance | 1.500 mm | | | |
| D - Rotation Axis – Rear Axle Distance | 1.100 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 | 360 mm | | | |
| J - Width at Tires (9.0-20/18R19.5/10.0-20) | *2.494/2.491/2.555 mm | | | |
| K - Outrigger Width (Overall) | 2.500 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 |

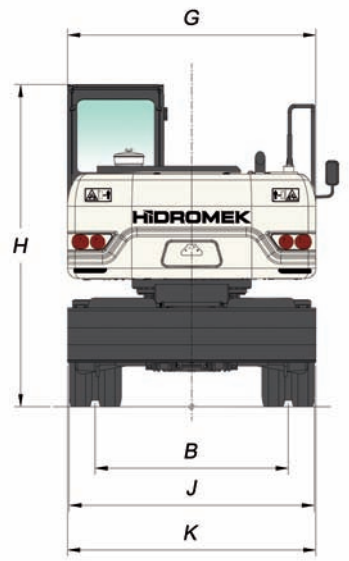
* Standard

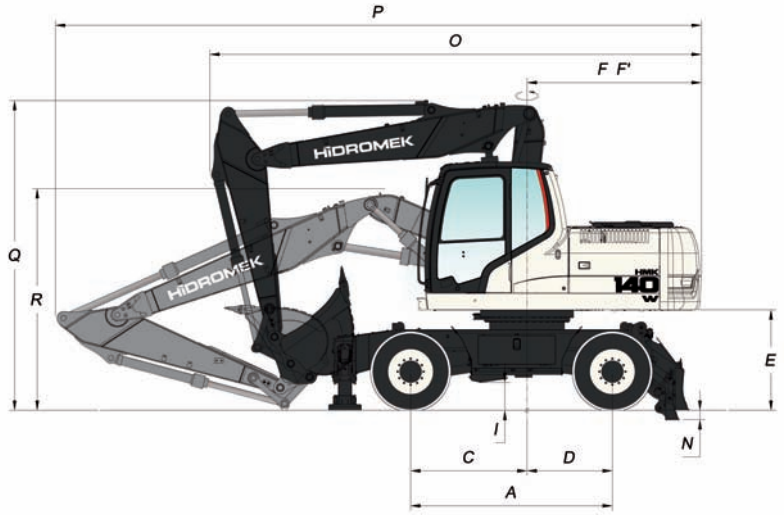
## WORKING DIMENSIONS

| 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 | 4.720 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




## GENERAL DIMENSIONS

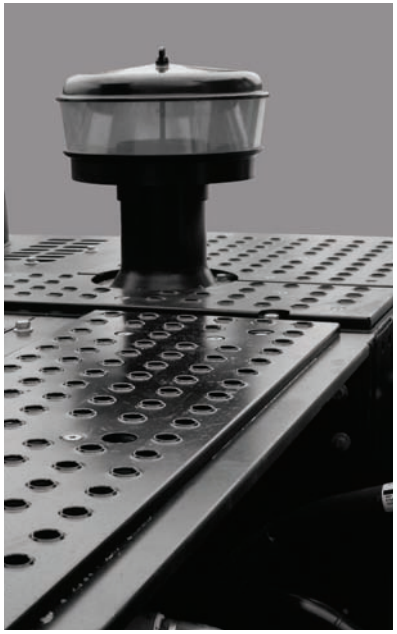
| Boom Dimension | | 5.090 mm | |
|---|---|---|---|
| Arm Dimension | 2.000 mm | *2.300 mm | 2.600 mm |
| A - Axle Distance | | 2.600 mm | |
| B - Thread | | 1.944 mm | |
| C - Rotation Axis – Front Axle Distance | | 1.500 mm | |
| D - Rotation Axis – Rear Axle Distance | | 1.100 mm | |
| E - Upper Chassis 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 | | 360 mm | |
| J - Width at Tires (9.0-20/18R19.5/10.0-20) | | *2.494/2.491/2.555 mm | |
| K - Outrigger Width (Overall) | | 2.500 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 | 3.900 mm |
| R - Boom Height / Transport | 2.920 mm | 2.980 mm | 3.100 mm |

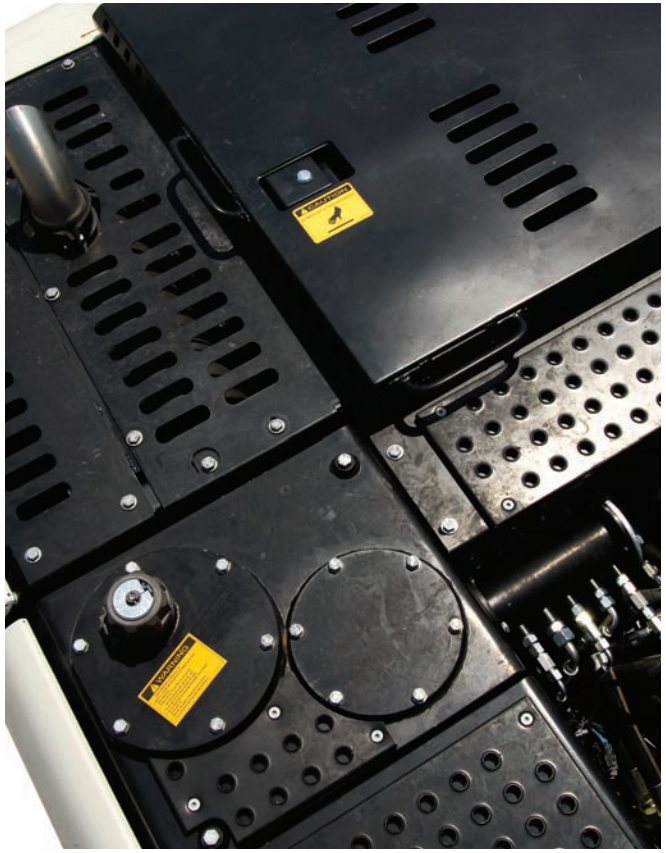
* Standard

## 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 | 5.110 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 | 2.960 mm | 3.040 mm | 3.130 mm |
| Z - Maximum Digging Depth (2440 mm level) | 4.800 mm | 5.100 mm | 5.410 mm |

* Standard






AM/FM
RADIO/USB MUSIC PLAYER
SEL
PUSH PWR
VOL
MUTE
FM3 95.30
MODE
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
Hydraulic breaker line
Rotator line
Boom safety valve
Arm safety valve
Overload warning system
Hydraulic breaker
Hydraulic quick coupler
Ripper
Rotator
Additional working lamp, above cap, rear
Windscreen protective netting
Headlights
Hidromek Smart Link
Rear Wiev Camera
Rotational moving hydraulic shear installation
18 R 19.5 XF Tyres
10-00-20 16 Ply Tyres

## Standard Equipment List

Radio/MP3
Air conditioner
Cab heating system
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
Working Lamp, above cab, front
Beacon Lamp


HİDROMEK

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(EN) February 2013

Your Local Distributor:

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