

HIDROMEK

HMK
140 LC
GEN





HEAVY DUTY TYPE

HMK 140 LC 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 crawler 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 LC 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 LC 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.

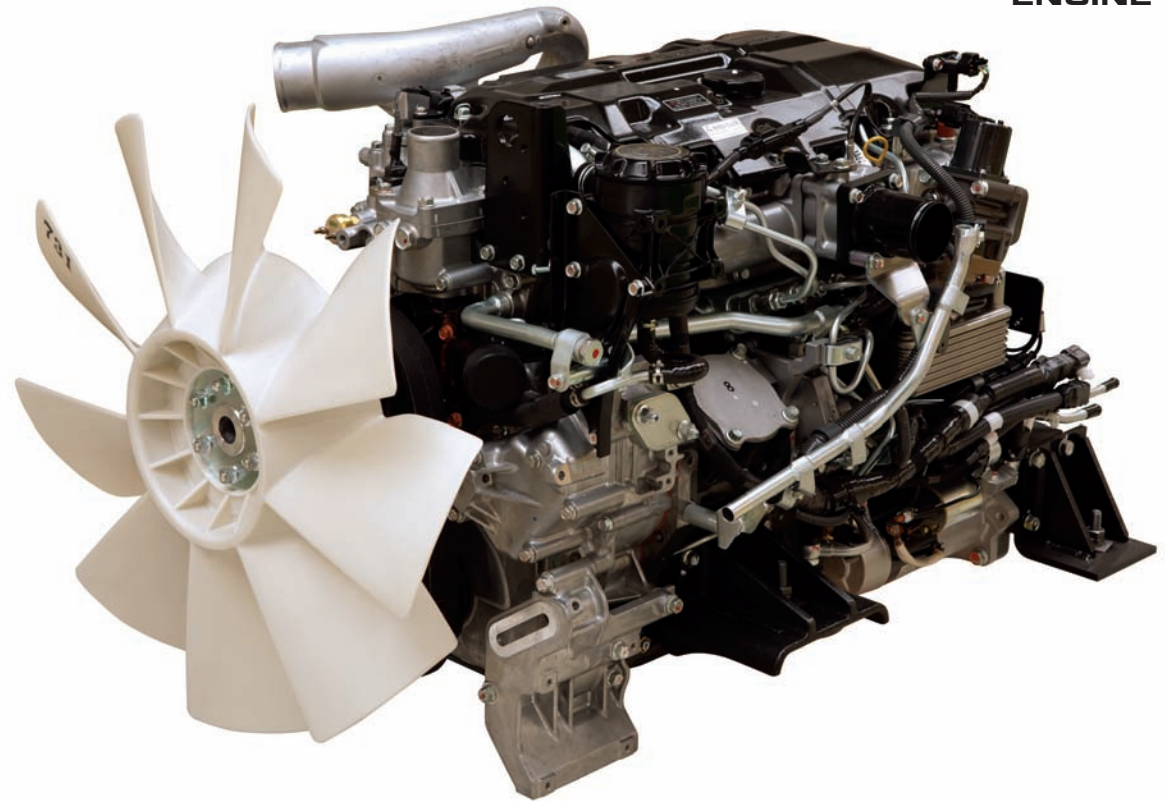
CAB

HMK 140 LC 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 LC 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 LC 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 LC 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”



X' box type sub-frame

'X' shape box type sub-frame has perfect resistance against bending forces and vibration stress since it homogeneously distributes the stress exposed on it.

Resistance

The lower rollers are connected on the pentagon linkages on the sub-frame which enhance the strength and lifetime of the frame. Latest technology production techniques under firm quality control make “zero” error production possible.

The standard long track maximizes the balance of the machine by providing an enduring platform for the machine to work on. Two roller housings in each track keep track chains in straight direction and therefore prevent wearing of lower rollers.

The upper rollers, lower rollers and front idlers are suitable to work on all kinds of terrain and they have been sealed with life-time seals. This maintenance-free structure has been a solution for heavy duty work.

Track pins and bushings are greased and sealed, thus reducing chain noise and extending track life.

Triple grouser track links with triple grouser are able to self-clean through their holes.

Dozer blade is optionally available with the HMK 140LC for improved stability and lifting ability.

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)	This 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

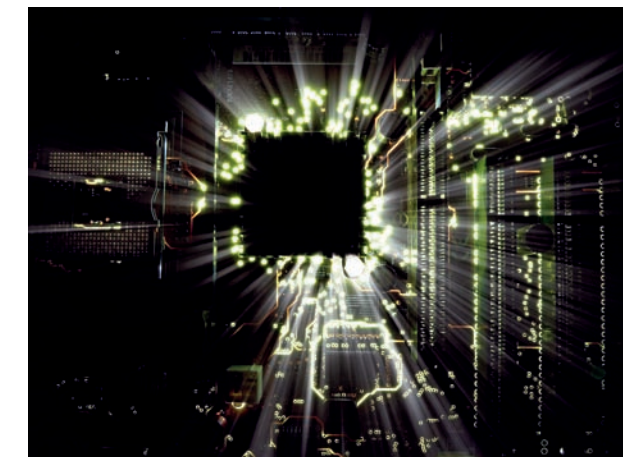
B- Working Mode Selection

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 temperature, 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 temperature, 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 occurred malfunctions in the machine in its memory.

Fuel filter Congestion Warning:

Notifies water in fuel filter to operator by view.

TECHNICAL SPECIFICATIONS

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 maximum 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 performance 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:

Many parameters such as; battery voltage, engine load, pump pressures, cooling water temperature, and hydraulic oil temperature can be monitored

Maintenance Information:

There is warning system that informs operator about periodic maintenance time automatically. 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.



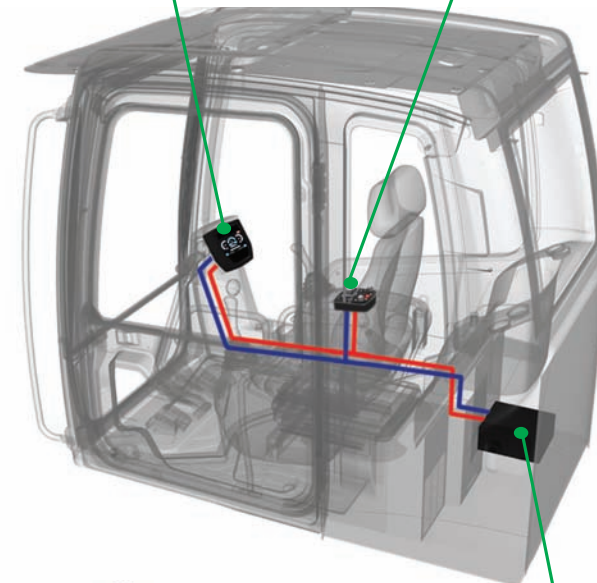
EXCAVATOR



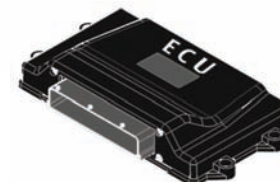
Electronic Visual Display



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-regenerative 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 130 lt/min
Pilot Pump	: Gear type, 20 lt/min

Working Pressures

Cylinders	: 330 kgf/cm ²
Power Boost	: 360 kgf/cm ²
Travel	: 360 kgf/cm ²
Swing	: 260 kgf/cm ²
Pilot	: 40 kgf/cm ²

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

SUB-FRAME

Construction	: Lower structure "X" type, side frame pentagon box type
Shoe	: Triple grouser
No. of Shoes	: 2 x 46 units
No. of Lower Rollers	: 2 x 7 units
No. of Upper Rollers	: 2 x 2 units
Track Tensioning	: Hydraulic type with spring cushioning

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

FILLING CAPACITIES

Fuel Tank	: 270 L	Engine Oil	: 20.5 L
Hydraulic Tank	: 120 L	Swing Reduction Gear:	2.4 L
Hydraulic System	: 216 L	Travel Reducer	: 2x2L
Engine Cooling Sys	: 24 L		

TRAVEL AND BRAKES

Travel	: Fully hydrostatic
Travel Motor	: Axial piston motor with 2 speed stages and inclined plate
Reduction	: Planetary gear system with 3 stages
Travel Speed	
High Speed	: 5.1 km/h
Low Speed	: 3.3 km/h
Max Traction	: 11,700 kgf
Gradeability	: 35° (70%)
Parking Brake	: Hydraulic, disc type with automatic warning
Ground Pressure	: 0.44 kgf/cm ²

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

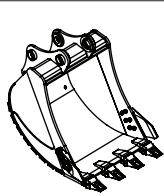
Opera Control System

- | | |
|---|---|
| <ul style="list-style-type: none"> • 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) | <ul style="list-style-type: none"> • Automatic preheating • Auto-Idle and automatic deceleration system • Automatic powershift to improve performance • 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	: 14,450 kg
Operating weight (With dozer blade)	: 15,350 kg

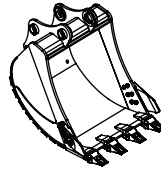
STANDARD BUCKET



		Width	985 mm
		Capacity	0.6 m ³
		Weight	490 kg
ARM	2.0 m	4.6 m Mono Bom	A
	*2.3 m		B
	2.6 m		B
	2.9 m		C

* Standard

OPTIONAL BUCKET SELECTION DIAGRAM



600 mm	780 mm	890 mm	1.115 mm
0.35 m ³	0.45 m ³	0.52 m ³	0.75 m ³
350 kg	420 kg	440 kg	580 kg
A	A	A	B
A	A	A	C
A	A	A	D
A	A	B	D

A- Material density less than 2.000 kg/m³

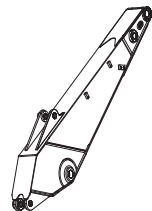
B- Material density less than 1.800 kg/m³

C- Material density less than 1.500 kg/m³

D- Material density less than 1,200 kg/m³

BREAKOUT FORCES

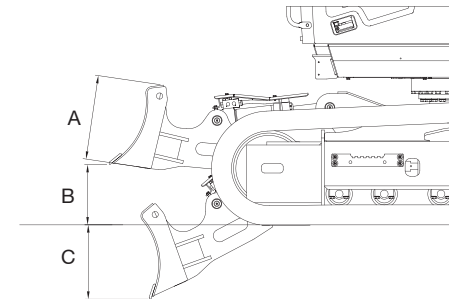
4.6 m Mono Bom



SAE	Arm length	2.0 m	* 2.3 m	2.6 m	2.9 m
	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
ISO	Arm breakout force (power boost)	7.600 (8.300) kgf	7.000 (7.600) kgf	6.400 (7.000) kgf	5.900 (6.400) kgf
	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
ISO	Arm breakout force (power boost)	7.900 (8.600) kgf	7.200 (7.800) kgf	6.600 (7.200) kgf	6.000 (6.600) kgf

* Standard

DOZER BLADE (Optional)



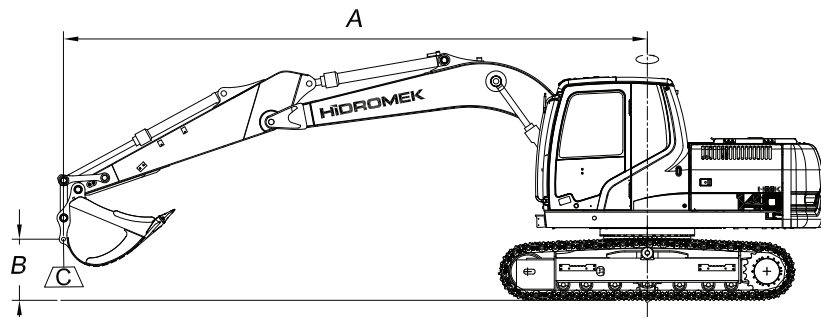
	Unit	Measurement
A. Height	mm	525
Width	mm	2510 / 2610 / 2710
B. Lift height	mm	530
C. Digging depth	mm	550

WARNING

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

LIFTING CAPACITIES

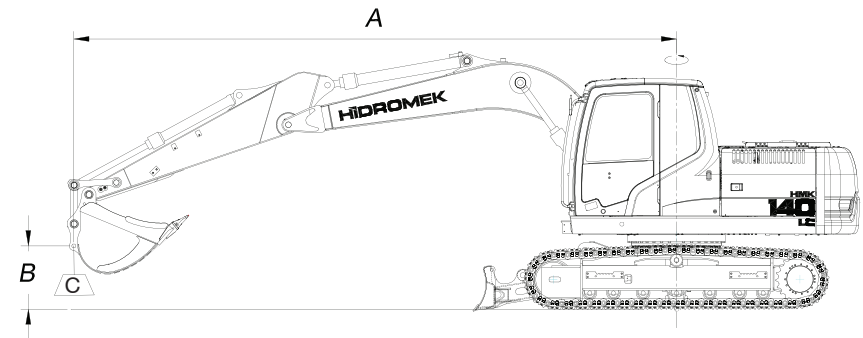
HMK 140 LC Boom: 4.6m, Arm: 2.60m, Bucket: 0.60m³ (SAE),													↑: Frond	↗: Side
A, m	Load Unit	1.5		3.0		4.5		6.0		7.5		Maximum Reach		
B, m		↑	↗	↑	↗	↑	↗	↑	↗	↑	↗	↑	↗	A, m
7.5	kg													
6.0	kg											*1650	*1650	5.99
4.5	kg							*2900	2150			*1600	*1600	6.87
3.0	kg					*3850	3400	3350	2050			*1600	1350	7.36
1.5	kg			*8200	5750	5100	3050	3200	1900	*1750	1250	*1750	1250	7.50
0 (ground)	kg			*7650	5200	4900	2800	3050	1750			*2000	1250	7.34
-1.5	kg	*4500	*4500	*9300	5100	4750	2650	3000	1700			2450	1400	6.84
-3.0	kg	*7400	*7400	*9400	5150	4750	2650					3100	1750	5.91
-4.5	kg			*6950	5450							*4600	3100	4.28



- A Load Radius
- B Load Point Height
- C Lifting Capacity

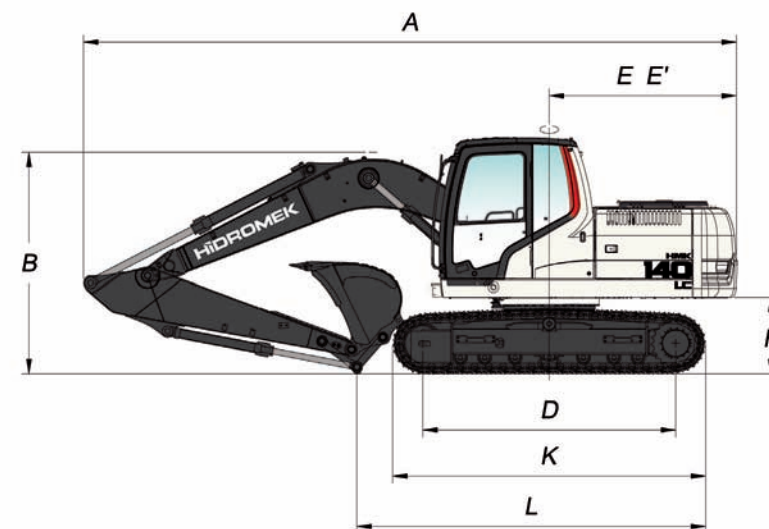
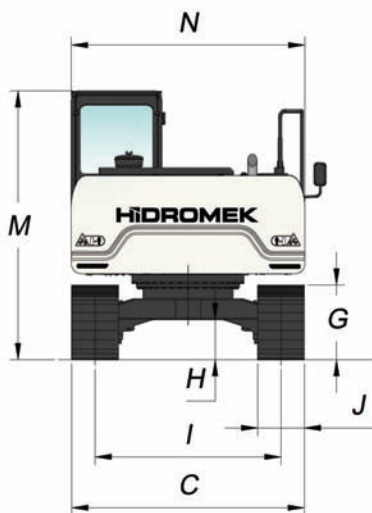
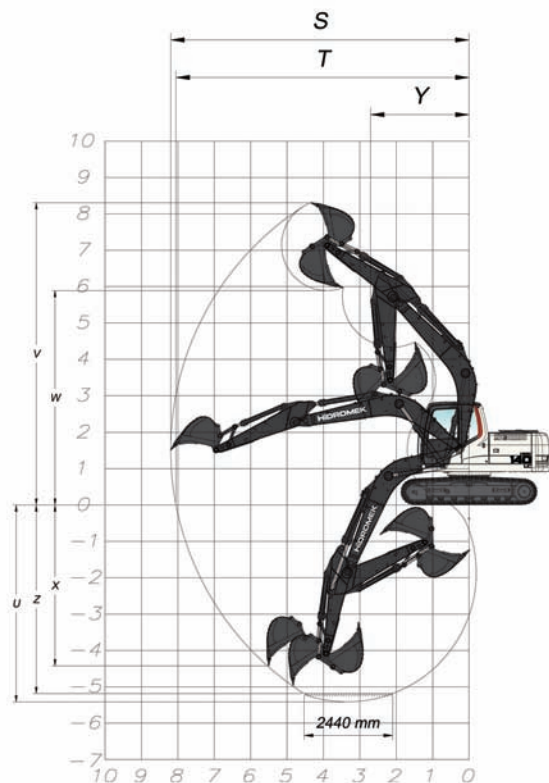
EXCAVATOR

HMK 140 LC Boom: 4.6m, Arm: 2.60m, Bucket: 0.60m³ (SAE), With Dozer Blade													↑: Frond	↗: Side
A, m	Load Unit	1.5		3.0		4.5		6.0		7.5		Maximum Reach		
B, m		↑	↗	↑	↗	↑	↗	↑	↗	↑	↗	↑	↗	A, m
7.5	kg											*2100	*2100	5.34
6.0	kg							*2450	*2450			*1800	*1800	6.69
4.5	kg							*2600	2500			*1750	1600	7.50
3.0	kg			*5150	*5150	*3650	*3650	3050	2350	*2800	1550	*1750	1400	7.94
1.5	kg			*4700	*4700	*4850	3450	3650	2200	*3150	1500	*1850	1300	8.08
0 (ground)	kg			*4150	*4150	*5800	3150	*4200	2050	*3400	1400	*2100	1300	7.92
-1.5	kg			*6200	5900	*6300	3050	*4500	1950			*2500	1400	7.46
-3.0	kg			*9450	6000	6200	3050	*4400	2000			*3400	1750	6.63
-4.5	kg													



Notes

- Lifting capacities are according to SAE J1097 and ISO 10567
- Load point is on the bucket..
- Lifting capacity cannot exceed 75% of tip over capacity or 87% of total hydraulic capacity.
- Values marked with (*) are limited by hydraulic capacity.



GENERAL DIMENSIONS

Boom Dimension	4.600 mm			
Arm Dimension	2.000 mm	*2.300 mm	2.600 mm	2.900 mm
A - Overall Length	7.880 mm	7.890 mm	7.880 mm	7.850 mm
B - Boom (Shipping) Height	2.710 mm	2.820 mm	2.980 mm	3.100 mm
C - Lower Frame Width	*2.490 / 2.590 / 2.690 mm			
D - Track Base Length	3.035 mm			
E - Counterweight Distance	2.250 mm			
E' - Counterweight Turning Radius	2.340 mm			
F - Upper Chassis to Ground Clearance	940 mm			
G - Crawler Height	800 mm			
H - Ground Clearance	430 mm			
I - Track Gauge	1.990 mm			
J - Shoe Width	*500 / 600 / 700 mm			
K - Lower Chassis Length (from shoe)	3.775 mm			
L - Shipping Length	4.470 mm			
M - Cab Height	2.880 mm			
N - Upper Frame Width	2.500 mm			

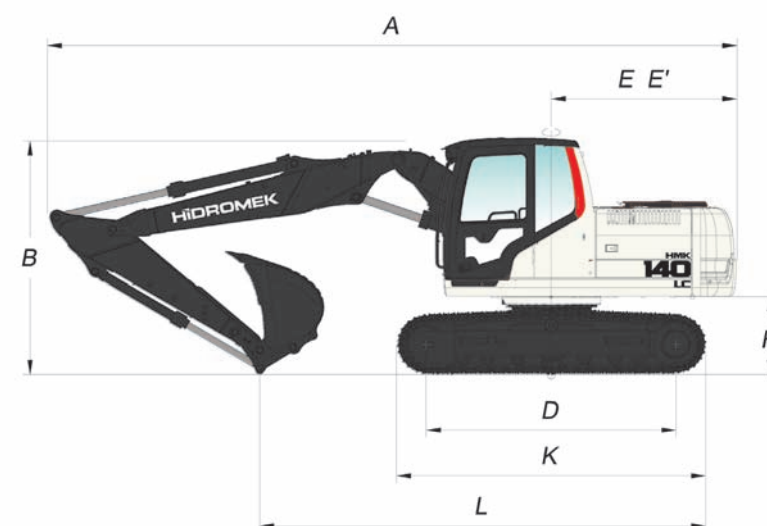
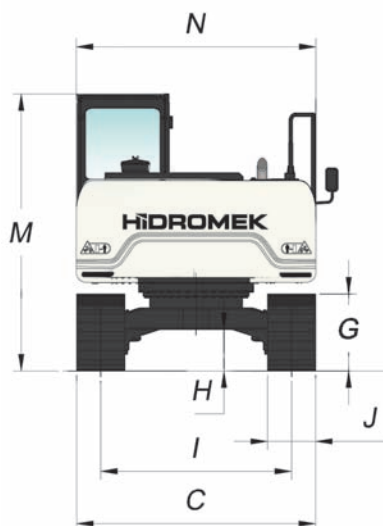
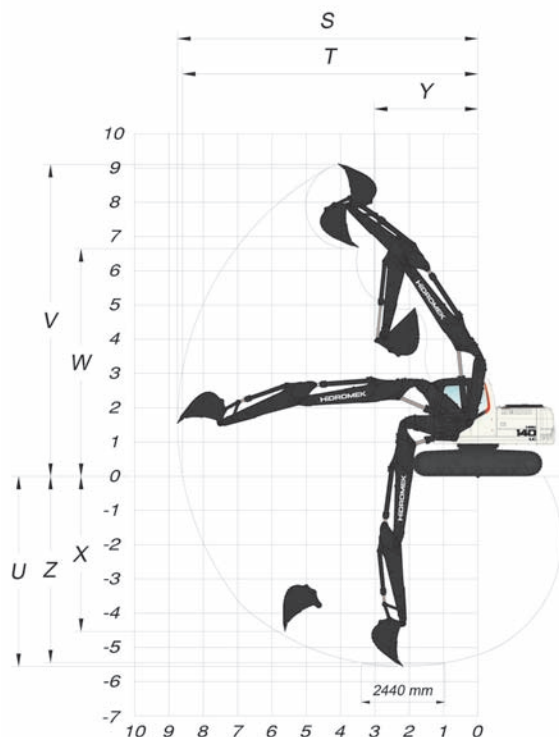
* Standard

WORKING DIMENSIONS

Boom Dimension	4.600 mm			
Arm Dimension	2.000 mm	*2.300 mm	2.600 mm	2.900 mm
S - Maximum Reach Distance	7.910 mm	8.190 mm	8.490 mm	8.780 mm
T - Maximum Reach at Ground Level	7.750 mm	8.040 mm	8.350 mm	8.640 mm
U - Maximum Digging Depth	5.090 mm	5.390 mm	5.690 mm	5.990 mm
V - Maximum Digging Height	8.120 mm	8.320 mm	8.560 mm	8.740 mm
W - Maximum Unloading Height	5.720 mm	5.900 mm	6.130 mm	5.060 mm
X - Maximum Vertical Wall Digging Depth	4.230 mm	4.390 mm	4.720 mm	4.900 mm
Y - Minimum Swing Radius	2.740 mm	2.730 mm	2.770 mm	2.800 mm
Z - Maximum Digging Depth (2440 mm level)	4.840 mm	5.160 mm	5.480 mm	5.800 mm

* Standard

DIMENSIONS



EXCAVATOR

GENERAL DIMENSIONS

Boom Dimension	5.090 mm			
Arm Dimension	2.000 mm	*2.300 mm	2.600 mm	2.900 mm
A - Overall Length	8.380 mm	8.360 mm	8.330 mm	8.290 mm
B - Boom (Shipping) Height	2.730 mm	2.820 mm	2.930 mm	3.070 mm
C - Lower Frame Width	*2.490 / 2.590 / 2.690 mm			
D - Track Base Length	3.035 mm			
E - Counterweight Distance	2.250 mm			
E' - Counterweight Turning Radius	2.340 mm			
F - Upper Chassis to Ground Clearance	940 mm			
G - Crawler Height	800 mm			
H - Ground Clearance	430 mm			
I - Track Gauge	1.990 mm			
J - Shoe Width	*500 / 600 / 700 mm			
K - Lower Chassis Length (from shoe)	3.775 mm			
L - Shipping Length	4.470 mm			
M - Cab Height	2.880 mm			
N - Upper Frame Width	2.500 mm			

* Standard

WORKING DIMENSIONS

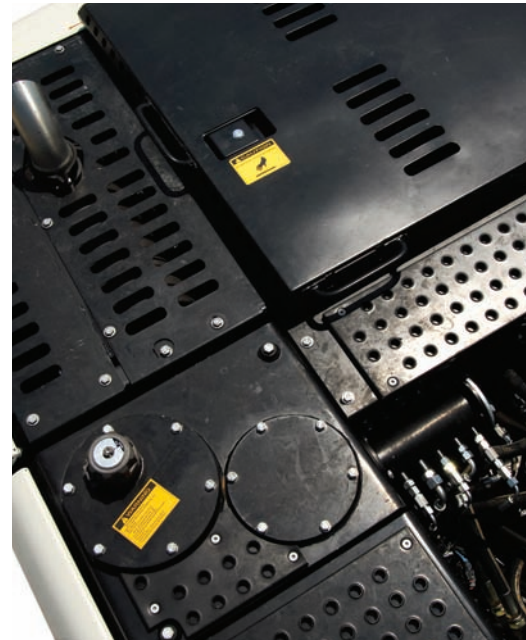
Boom Dimension	5.090 mm			
Arm Dimension	2.000 mm	*2.300 mm	2.600 mm	2.900 mm
S - Maximum Reach Distance	8.460 mm	8.150 mm	9.050 mm	9.340 mm
T - Maximum Reach at Ground Level	8.310 mm	8.610 mm	8.920 mm	9.210 mm
U - Maximum Digging Depth	5.260 mm	5.560 mm	5.860 mm	6.160 mm
V - Maximum Digging Height	8.880 mm	9.110 mm	9.370 mm	9.580 mm
W - Maximum Unloading Height	6.430 mm	6.640 mm	6.900 mm	7.110 mm
X - Maximum Vertical Wall Digging Depth	4.200 mm	4.540 mm	4.890 mm	5.170 mm
Y - Minimum Swing Radius	2.960 mm	3.040 mm	3.130 mm	3.130 mm
Z - Maximum Digging Depth (2440 mm level)	5.150 mm	5.450 mm	5.760 mm	6.060 mm

* Standard

HMK 140 LC
EXCAVATOR



DETAILS





✓ **Special Equipment List**

2.0 m, 2.6 m, 2.9 m arm
600,700 mm track
Various size buckets
Automatic lubrication system
Hydraulic breaker line
Rotator line
Boom safety valve
Arm safety valve
Overload warning system
Beacon lamp
Hydraulic breaker
Hydraulic Quick Coupler
Ripper
Additional working lamp at the front
Additional working lamp at the rear
Windscreen protective netting
Headlights
Hidromek Smart Link
Rear view camera
Rotational moving hydraulic shear installation
Different sizes of dozer blades

✓ **Standard Equipment List**

Radio/MP3
Air conditioner
Cab heating system
Cab conforming to FOPS tests
Computer connection port
Oil and dust seal ring in chain pins
Long life lubricating in rollers and direction wheel
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



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FACTORY - HEADQUARTERS

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Warning

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