



## ENGINE

<b>Model</b>	: Mitsubishi 6D34-TLUD2
<b>Type</b>	: Water cooled diesel engine, 4 cycles, 6 in-line cylinders, direct injection, turbocharger and intercooler
<b>Power</b>	: 153 HP (114 kW) at 2000 rpm SAE J1995
<b>Maximum Torque</b>	: 590 Nm at 1500 rpm
<b>Displacement</b>	: 5,860 cc
<b>Bore and Stroke</b>	: 104 mm x 115 mm

## SUB-FRAME

<b>Construction</b>	: Lower structure "X" type, side frame pentagon box type
<b>Shoe</b>	: Triple grouser
<b>No. of Shoes</b>	: 2 x 49 units
<b>No. of Lower Rollers</b>	: 2 x 9 units
<b>No. of Upper Lowers</b>	: 2 x 2 units
<b>Track Tensioning</b>	: Hydraulic type with spring cushioning.

## CAB

- Improved operator's all round visibility
- Increase 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 adjustment seat
- Ergonomically redesigned cabin through relocated switch board, and re-styled travel pedals and levers
- Opera Control System

## SWING SYSTEM

<b>Motor</b>	: Axial piston motor with integrated super shock absorbing valve, with fixed displacement and inclined plate
<b>Reduction</b>	: 2 stage planetary gear type v
<b>Swing Brakes</b>	: Hydraulic, disk type with warning
<b>Swing Spded</b>	: 11 rpm

## TRAVEL AND BRAKES

<b>Travel</b>	: Fully hydrostatic
<b>Travel Motor</b>	: Axial piston type motor with 2 speed stages and inclined plate
<b>Reduction</b>	: Planetary gear system with 3 stages

## Travel Speed

<b>High Speed</b>	: 6 km/h
<b>Low Spded</b>	: 3.8 km/h
<b>Max. Drawbar Pull</b>	: 18,500 kgf
<b>Gradeability</b>	: 35° (70%)
<b>Parking Brake</b>	: Hydraulic, disk type with automatic warning

## HYDRAULIC SYSTEM

<b>Main Pump</b>		
<b>Type</b>	: 2 axial piston type pumps with double variable displacement and inclined plate	
<b>Max. Flow</b>	: 2 x 234 L/m	
<b>Pilot Pump</b>	: Gear type, 19L/m (10 cc/rev)	
<b>Working Pressures</b>		
<b>Cylinders</b>	: 330 kgf/cm <sup>2</sup>	Swing : 240 kgf/cm <sup>2</sup>
<b>Power Boost</b>	: 360 kgf/cm <sup>2</sup>	Pilot : 40 kgf/cm <sup>2</sup>
<b>Travel</b>	: 360 kgf/cm <sup>2</sup>	
<b>Cylinders</b>		
<b>Boom</b>	: 2 x 125 x 85 x 1,325 mm	
<b>Arm</b>	: 1 x 140 x 100 x 1,640 mm	
<b>Bucket</b>	: 1 x 125 x 85 x 1,060 mm	

## Opera Control System

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|---|--|
| <ul style="list-style-type: none"> <li>• Easy-to-use control panel and menus</li> <li>• Improved fuel economy and productivity</li> <li>• Maximum efficient by selection power and work modes</li> <li>• Overheat prevention and protection system without interrupting the work</li> <li>• Automatical powerboost switch-on and switch-off</li> <li>• Automatical electric power-off</li> <li>• Maintenance information and warning system</li> <li>• Error mode registry and warning system</li> <li>• Hidromek Smartlink (Optional)</li> </ul> | <ul style="list-style-type: none"> <li>• Automatic preheating</li> <li>• Auto-idle and automatic deceleration system</li> <li>• Automatic powershift to improve performance</li> <li>• Selection of multi-language on control panel</li> <li>• Real time monitoring of operational parameters such as pressure, temperature, engine load</li> <li>• Anti-theft system with personal code</li> <li>• Possibility to register 26 different operating hours</li> <li>• Rear-view, arm-view camera (Optional)</li> </ul> |
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## FILLING CAPACITIES

<b>Fuel Tank</b>	: 354 L	<b>Engine Oil</b>	: 20.5 L
<b>Hydraulic Tank</b>	: 160 L	<b>Swing Reduction Gear</b>	: 5 L
<b>Hydraulic System</b>	: 290 L	<b>Travel Reduction</b>	: 2 x 5,4 L
<b>Engine Cooling Sys:</b>	: 29.3 L		

## ELECTRICAL SYSTEM

<b>Voltage</b>	: 24 V
<b>Battery</b>	: 2 x 12V x 100 Ah
<b>Alternator</b>	: 24 V / 50 A
<b>Starting Motor</b>	: 24 V / 5.0 kW

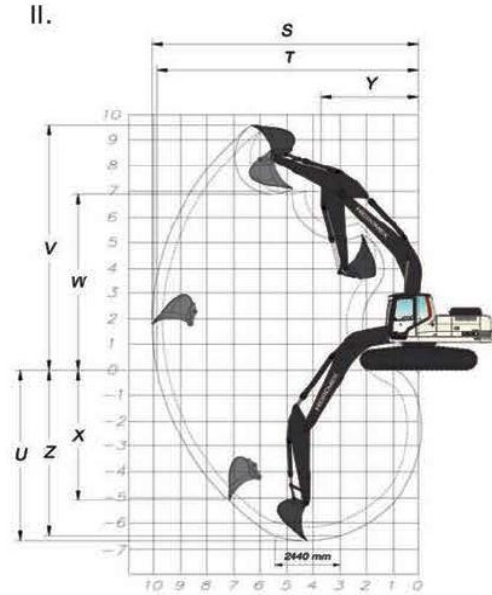
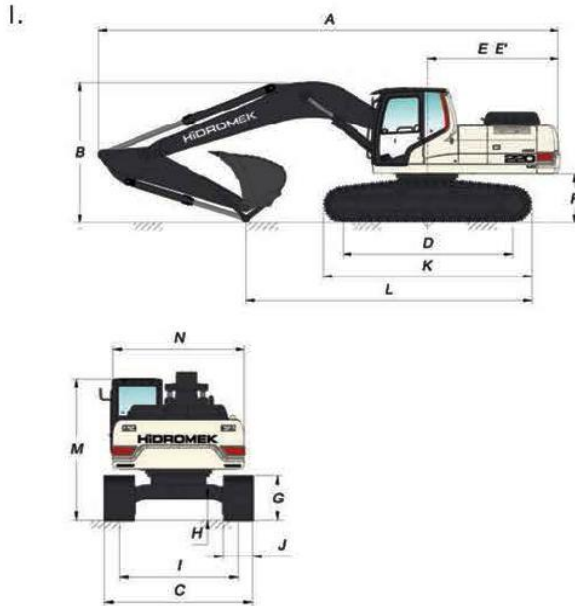
## LUBRICATION

Centralized lubrication system is provided for lubricating all difficult to reach parts on the components, such as boom and arm.

## OPERATING WEIGHT

<b>Standard machine operating weight (220LC)</b>	: 22,300 kg
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# HMK 220LC



## I. GENERAL DIMENSIONS

Boom Dimension	5,800 mm	
Arm Dimension	2,400 mm	*2,920 mm
A . Overall Length	9,800 mm	9,790 mm
B . Boom (Shipping) Height	3,150 mm	3,090 mm
C . Lower Frame Width (LC)	*2990 / 3090 / 3190 mm	
C . Lower Frame width (NLC)	2,540 mm	
D . Track Base Length	3,640 mm	
E . Counterweight Distance	2,780 mm	
E . Counterweight Turning Radius	2,800 mm	
F . Upper Chassis to Ground Clearance	1,060 mm	
G . Crawler Height	935 mm	
H . Ground Clearance	465 mm	
I . Track Gauge (NLC/LC)	2,040 / 2,390 mm	
J . Shoe Width (LC)	*600 / 700 / 800 mm	
J . Shoe Width (NLC)	500 mm	
K . Lower Chassis Length (from shoe)	4,460 mm	
L . Shipping Length	5,420 mm	
M . Cab Height	2,985 mm	
N . Upper Frame Width (NLC/LC)	2,500 / 2,660 mm	

\*Standard

## 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

## II. WORKING DIMENSIONS

Boom Dimension	5,800 mm	
Arm Dimension	2,400 mm	*2,920 mm
S . Maximum Reach Distance	9,670 mm	10,050 mm
T . Maximum Reach at Ground Level	9,490 mm	9,880 mm
U . Maximum Digging Depth	6,150 mm	6,670 mm
V . Maximum Digging Height	9,630 mm	9,570 mm
W . Maximum Unloading Height	6,890 mm	6,900 mm
X . Maximum Vertical Wall Digging Depth	5,030 mm	5,100 mm
Y . Maximum Swing Radius	3,790 mm	3,710 mm
Z . Maximum Digging Depth (2440 mm level)	5,950 mm	6,490 mm

## III. BREAKOUT FORCES

	Arm length	*2.92 m	2.40 m
SAE	Bucket digging force (power boost)	13,900 mm (15,200) kgf	13,900 (15,200) kgf
	Arm breakout force (power boost)	11,200 (12,300) kgf	12,800 (14,000) kgf
ISO	Bucket digging force (power boost)	15,300 (16,700) kgf	15,300 (16,700) kgf
	Arm breakout force (power boost)	11,400 (12,500) kgf	13,100 (14,300) kgf

Standard Bucket Capacity:	1.00 m <sup>3</sup>
Bucket Width:	1200 mm
Weight:	750 kg
No. of Teeth:	5



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