HYDRAULIC EXCAVATOR

# HMK 300LC


HİDROMEK®

## ENGINE

| | |
|---|---|
| Model | : Mitsubishi 6D16-TLU2J |
| Type | : Water-cooled, 4 cycle, 6 cylinders, line type direct injection, turbocharger, intercooler, diesel engine. |
| Power | : 216 HP/ 2150 rpm SAE 1995 |
| Max. Torque | : 854 Nm /1600 rpm |
| Displacement | : 7.540 cc |
| Bore and Stroke | : 118 mm x 115 mm |

## UNDERCARRIGE

X Type Lower Frame Construction Pentagon Box Type Chassis.

| | |
|---|---|
| Shoe | : Triple grouser |
| No. Of Shoes | : 2 x 51 |
| No. Of Lower Rollers | : 2 x 9 |
| No. Of Upper Rollers | : 2 x 2 |
| Track Tensioning | : Hydraulic Spring Tensioning. |

## CAB

- High capacity air conditioner.
- Reduced vibration and noise transfer with 6 silicon oil&rubber cab mountings.
- Ergonomically designed operator's multi-adjustable seat.

## SWING SYSTEM

| | |
|---|---|
| Engine | : Axial piston type integrated with shock absorber valves. |
| Reduction | : 2 stage planetary gear box. |
| Swing Brakes | : Hydraulic multi disc type. |
| Swing Speed | : 11.4 rpm. |

## TRAVEL AND BRAKES

| | |
|---|---|
| Travel | : Fully hydrostatic. |
| Travel Motors | : Axial piston type. |
| Reduction | : 3 stage planetary gear. |
| **Travel Speed** | |
| High Speed | : 4.9 km/h |
| Low Speed | : 3.2 km/h |
| Max. Drawbar Pull | : 25.850 kgf |
| Gradeability | : 35° (%70) |
| Parking Brake | : Hydraulic multi disc type. |

## HYDRAULIC SYSTEM

**Main Pump**

| | |
|---|---|
| Type | : Double variable displacement axial piston pumps. |
| Max. Flow | : 2 x 260 lt /min |
| Pilot Pump | : Gear 27 lt /min |

**Relief Valves**

| | |
|---|---|
| Attachment (Boom, Arm, Bucket) | : 330 kgf / $cm^2$ |
| Power Boost | : 360 kgf / $cm^2$ |
| Travel | : 360 kgf / $cm^2$ |
| Swing | : 285 kgf / $cm^2$ |
| Pilot | : 40 kgf / $cm^2$ |

**Hydraulic Engines**

Travel : 2 speed axial piston type motors with braking valves.

Swing : Axial piston type motor.

**Cylinders**

| | |
|---|---|
| Main Boom | : 2 x 140 x 100 x 1.445 mm |
| Stick Cylinder | : 1 x 160 x 110 x 1.760 mm |
| Bucket Cylinder | : 1 x 140 x 100 x 1.195 mm |

**(AECS) Advanced Electronic Control System**

Computer Aided Advanced Electronic Control System with multi-language computer menu, designed to maintain maximum performance and efficiency at various and hard operating conditions. Saves fuel by regulating engine and pump according to the operating conditions.

## CAPACITY

| | | | | | |
|---|---|---|---|---|---|
| Fuel Tank | : | 483 lt | Engine Oil | : | 28 lt |
| Hydraulic Tank | : | 205 lt | Swing Reduction | : | 6 lt |
| Hydraulic System | : | 370 lt | Travel Reduction | : | 2x9.5 lt |
| Radiator | : | 35 lt | | | |

## ELECTRICAL SYSTEM

| | |
|---|---|
| Voltage | : 24 V |
| Battery | : 2 x 12 V x 150 AH |
| Alternator | : 24 V / 50 A |
| Starting Motor | : 5 KW |

## LUBRICATION

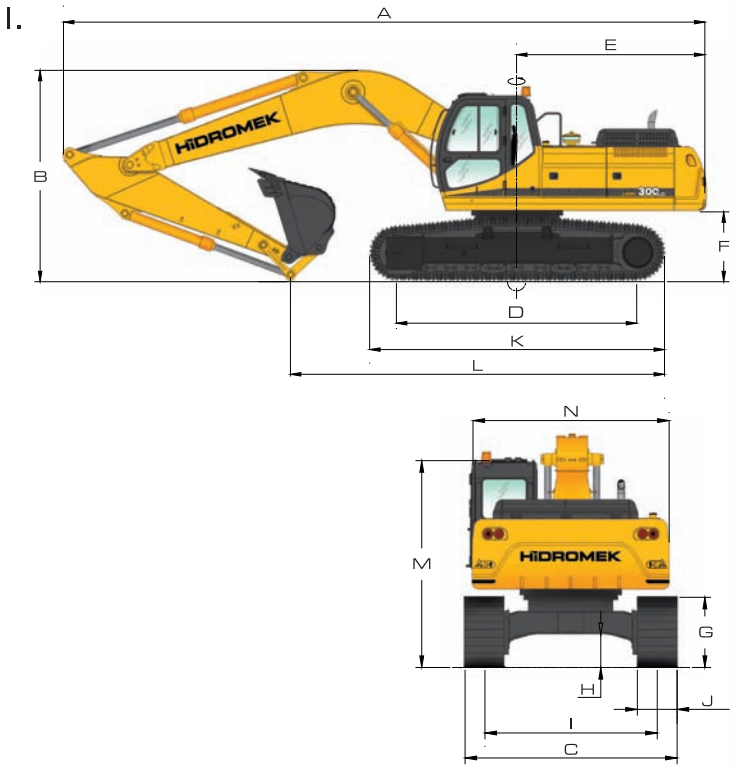
Centralized lubrication system is provided for lubricating all difficult-to-reach parts on the components, such as boom and arm.

## OPERATING WEIGHT

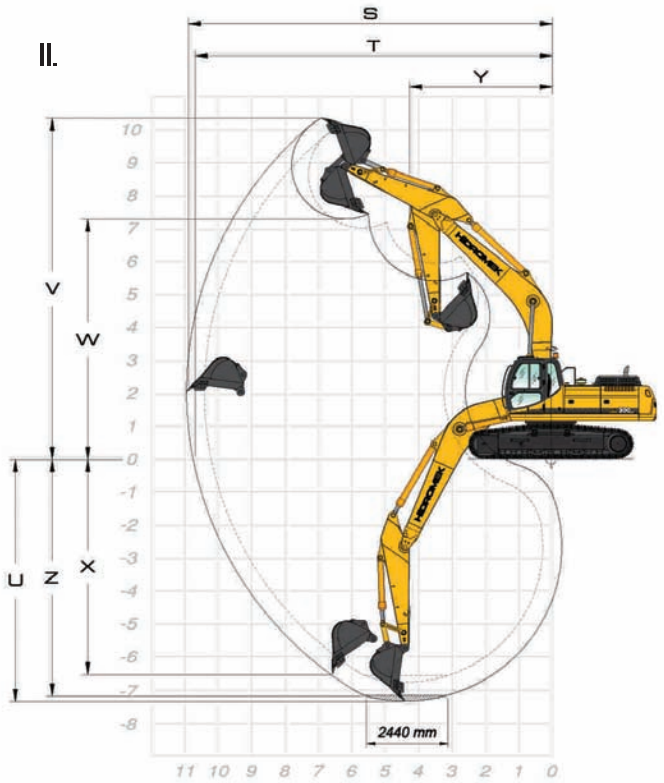
30.500 kg

# HMK 300LC

I.




II.




## I. GENERAL DIMENSIONS

| | |
|---|---|
| A . Overall Length | 10,780 mm |
| B . Overall Height (Of Top Of Bottom) | 3,540 mm |
| C . Overall Width (Of Lower Structure) | 3,200 mm |
| D . Idler Distance | 4,030 mm |
| E . Turning Radius | 3,220 mm |
| F . Upperstructure Ground Clearence | 1,170 mm |
| G . Crawler Height | 1,060 mm |
| H . Minimum Ground Clearence | 495 mm |
| I . Track Gauge | 2,600 mm |
| J . Shoe Width | 600 mm |
| K . Overall Length Of Crawler | 4,940 mm |
| L . Length Over Ground | 6,270 mm |
| M . Overall Height (To Top Of Cab) | 3,120 mm |
| N . Upperstructure Width | 2,960 mm |

## II. WORKING DIMENSIONS

| | |
|---|---|
| S . Maximum Digging Reach | 10,370 mm |
| T . Maximum Digging Reach At Ground Level | 10,160 mm |
| U . Maximum Digging Depth | 6,780 mm |
| V . Maximum Digging Height | 10,080 mm |
| W . Maximum Dumping Clearence | 7,030 mm |
| X . Maximum Vertical Digging Depth | 5,930 mm |
| Y . Minimum Swing Radius | 4,300 mm |
| Z . Digging Depth For 2500 mm Flat Bottom | 6,580 mm |

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## DIGGER PERFORMANCE

| | |
|---|---|
| Standard Bucket Capacity | 1.49 $m^3$ (SAE) |
| Bucket Digging Force (Power Boost) | 19,990 (21,800) kgf |
| Arm Crowding Force (Power Boost) | 17,980 (19,620) kgf |

BOOM : 6.28 m, ARM : 2.50 m, HEAPED BUCKET CAPACITY 1,49 $m^3$



HIDROMEK®

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