HYDRAULIC EXCAVATOR

HMK 140W

HİDROMEK®

ENGINE

Model	:MITSUBISHI 4M50-TL
Type	: Water-cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine.
Power	:124 HP /2000 rpm SAE J1349
Max. Torque	:484 Nm/ 1600 rpm
Displacement	:4900 cc
Bore and Stroke	:114 mm x 120 mm

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

LOWER STRUCTURE (CHASSIS)

Chasis	: Box shaped, reinforced lower chassis, front dozer blade and rear outriggers (stabilizers) as standard figures.
Axles	: The pivot pin mounted front axle allows two options : 8° in each direction for best matching conditions, or could be locked at any desired position for perfect stability.
Tires	: 9.00 - 20 (14 pr)

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

SWING SYSTEM

Swing Motor	: Axial piston type integrated with shock absorber valves.
Reduction	: 2 stage planetary gear box.
Swing Brakes	: Hydraulic multi disc type.
Swing Speed	: 13 rpm

TRAVEL AND BRAKES

Travel	: Fully hydrostatic.
Travel Motors	: Axial piston type.
Reduction	: 2 stage planetry gear.
Travel Speed	
High Speed	: 27 km/h
Low Speed	: 7 km/h
Max. Drawbar Pull	: 7,400 kgf
Gradeability	: 27° (%51)
Service Brake	: Independent front/rear style (double circuit) hydraulic power brake system. Pressure engaged/spring released type. Located "on hub" for ideal stability and safety.

HYDRAULIC SYSTEM

Main Pump	
Type	: Double variable displacement axial piston pumps.
Max. Flow	: 2 x 160 lt/min
Pilot Pump	: Gear, 20 lt/min
Relief Valves	
Attachment (Boom, Arm, Bucket)	: 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	
Main Boom	: 2 x 110 x 75 x 1,080 mm
Stick Cylinder	: 1 x 115 x 80 x 1,225 mm
Bucket Cylinder	: 1 x 100 x 70 x 910 mm

(AECS) Advanced Electronic 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
- GPRS satellite tracking system (Optional)
- Automatic preheating
- Auto-Idle and automatic deceleration system
- Cruise control travel speed
- 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)

STEERING SYSTEM

The "orbitrol" type steering system controls a steering cylinder located on the front axle. Minimum turning radus is 6,080 mm.

CAPACITY

Fuel Tank	:	270 lt	Transmission	:	2.5 lt
Hydraulic Tank	:	120 lt	Engine Oil	:	20.5 lt
Hydraulic System	:	216 lt	Radiator	:	24 lt
Swing Reduction	:	2.2 lt	Front/Rear axles	:	8 lt/8lt

ELECTRICAL SYSTEM

Voltage	: 24 V
Battery	: 2 x 12 V x 100 AH
Alternator	: 24 V / 50 A
Starting Motor	: 5 KW

LUBRICATION

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

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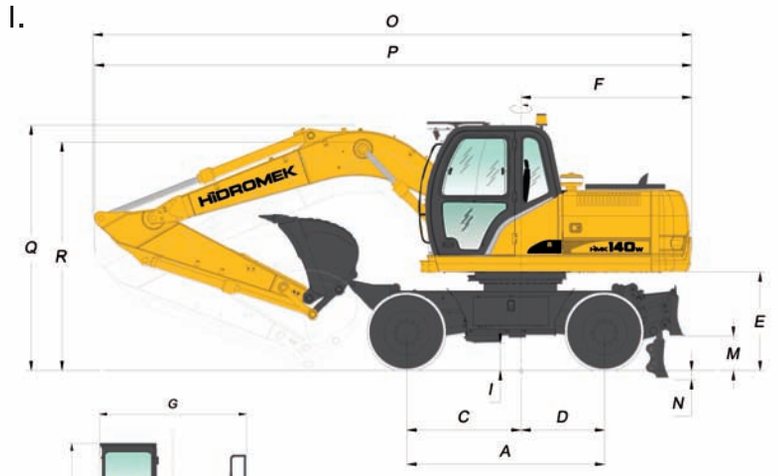
I.



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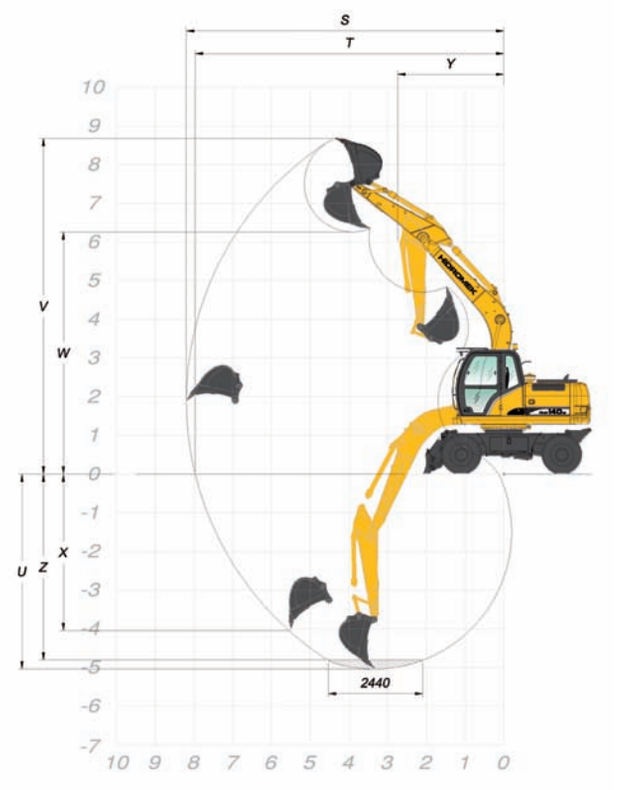

I. GENERAL DIMENSIONS

A . Axle distance	2,600 mm
B . Tread	1,944 mm
C . Turning axis - Front axle distance	1,500 mm
D . Turning axis - Rear axle distance	1,100 mm
E . Upperstructure ground clearance	1,295 mm
F . Tail swing radius	2,250 mm
G . Upperstructure width	2,500 mm
H . Overall height (to top of cab)	3.250 mm
I . Min. ground clearence	360 mm
J . Width at tires	2,494 mm
K . Dozer Blade Width	2,500 mm
M . Dozer blade clearance	450 mm
N . Depth of blade down	120 mm
O . Overall length/Travel	7,870 mm
P . Overall length/Transport	7,850 mm
Q . Boom height / Travel	3,210 mm
R . Boom height / Transport	2,990 mm

II. WORKING DIMENSIONS

S . Max. digging reach	8,200 mm
T . Max. digging reach at ground level	7,970 mm
U . Max. digging depth	5,040 mm
V . Max. digging height	8,680 mm
W . Max. dumping height	6,260 mm
X . Max. vertical digging depth	4,050 mm
Y . Min. swing radius	2,750 mm
Z . Max. digging depth (2440mm level)	4,810 mm

BOOM:4.60 m, ARM: 2.30 m

DIGGING PERFORMANCE

Standard Bucket Capacity	0.6m^3 (SAE)
Bucket Digging Force (Power Boost) ISO	10,000 (10,900) kgf
Arm Crowd Force (Power Boost) ISO	7,000 (7,600) kgf

Working Weight Kg.	Dozer Blade	Dozer Blade and Rear Outrigger	Front and Rear Outrigger
4.6m. monoboom	14.350 kg.	15.350 kg.	15.500 kg.

*Machine Weight with 4.6m. Monoboom, 2.3m. Arm, 0.6m^3 Sae Bucket, 2300 kg. Counterweight may change ∓ 100kg.

HIDROMEK®

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Notice:
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