



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) : 18 R 19.5 XF (Optional) : 10.00 - 20 16 TT PR (Optional)

CAB

- Improved operator's all round visibility
- Increased cabin internal space
- Use of six viscount cabin mountings that dampen the vibrations
- High capacity A/C
- Opera Control System
- 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 planetary gear.
Travel Speed	
High Speed	: 27 km/h
Low Speed	: 7 km/h
Max. Drawbar Pull	: 7,400 kgf
Gradeability	: 27° (P&S1)
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 940 mm 1 x 150 x 90 x 680 mm
Stick Cylinder	: 1 x 115 x 80 x 1,225 mm
Bucket Cylinder	: 1 x 100 x 70 x 910 mm

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
- 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 radius is 6,080mm.

CAPACITY

Fuel Tank	: 270 lt	Transmission	: 3 lt
Hydraulic Tank	: 120 lt	Engine Oil	: 20.5 lt
Hydraulic System	: 216 lt	Radiator	: 24 lt
Swing Reduction	: 2.4 lt	Front/Rear axles	: 8 lt/8lt

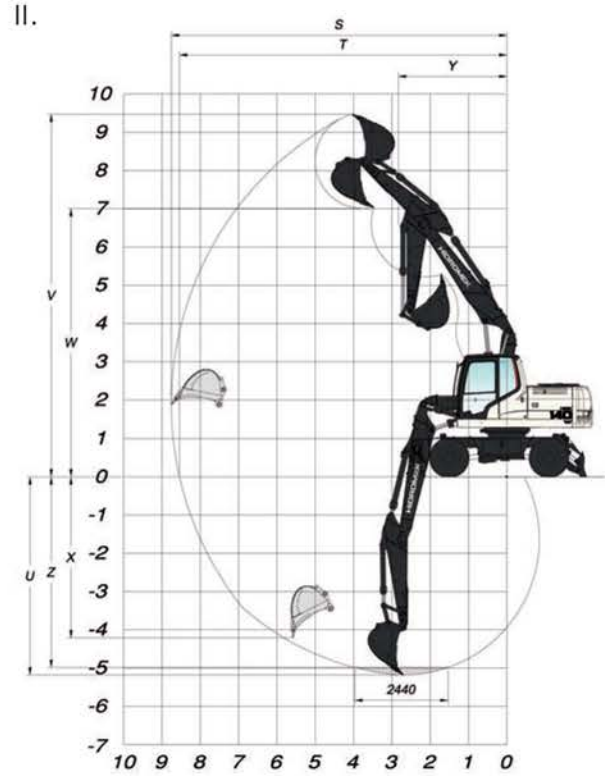
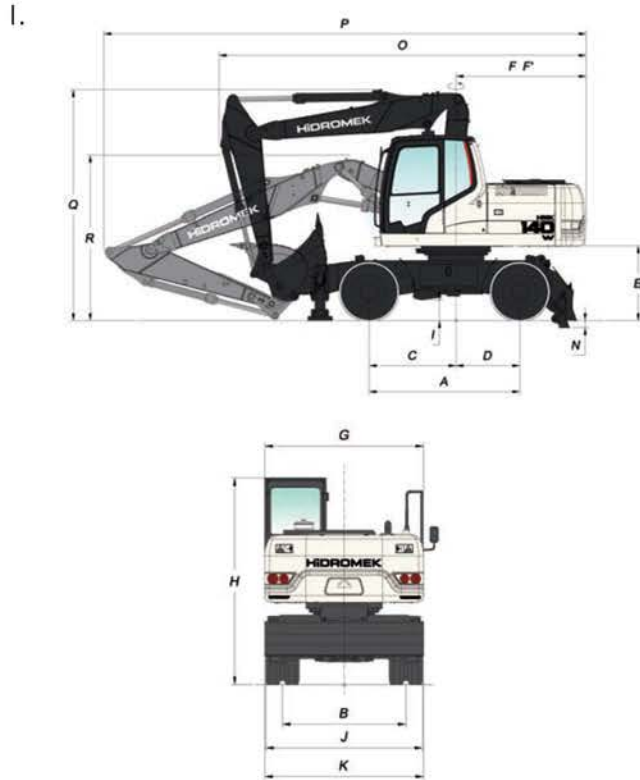
ELECTRICAL SYSTEM

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.

HMK 140W



I. GENERAL DIMENSIONS

Boom Dimension		5.090 mm	
Arm Dimension			
A - Axle Distance	2.000 mm	*2.300 mm	*2.600 mm
B - Thread		2.600 mm	
C - Rotation Axis – Front Axle Distance		1.944 mm	
D - Rotation Axis – Rear Axle Distance		1.500 mm	
E - Upper Chassis to Ground Clearance		1.100 mm	
F - Counterweight Distance		1.295 mm	
F' - Counterweight Turning Radius		2.246 mm	
G - Upper Frame Width		2.260 mm	
H - Cab Height		2.500 mm	
I - Outrigger Ground Clearance		3.250 mm	
J - Width at Tires (9.0-20/18R19.5/10.0-20)		360 mm	
K - Outrigger Width (Overall)		*2.494 / 2.491 / 2.555 mm	
L - Outrigger Digging Depth		2.500 mm	
M - Dozer Blade Ground Clearance		1.25 mm	
N - Dozer Blade Digging Depth		450 mm	
O - Overall Length / Travel	6.330 mm	6.330 mm	7.540 mm
P - Overall Length/ Transport	8.320 mm	8.320 mm	8.320 mm
Q - Boom Height / Travel	3.990mm	3.990 mm	3.900 mm
R - Boom Height / Transport	2.860 mm	2.860 mm	3.860 mm

II. WORKING DIMENSIONS

S - Maximum Digging Reach	8.470 mm	8.760 mm	9.040 mm
T - Maximum Digging Reach at Ground Level	8.250 mm	8.540 mm	8.840 mm
U - Maximum Digging Depth	4.920 mm	5.210 mm	5.510 mm
V - Maximum Digging Height	9.280 mm	9.470 mm	9.680 mm
W - Maximum Dumping Clearance	6.800 mm	7.000 mm	7.210 mm
X - Maximum Vertical Didding Depth	3.990 mm	4.210 mm	4.520 mm
Y - Minimum Swing Radius	2.910 mm	2.820 mm	2.840 mm
Z - Maximum Digging Depth (2440 mm level)	4.800 mm	5.110 mm	5.410 mm

III. DIGGING PERFORMANCE

Standard Bucket Capacity	0.60 m 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
5.09m, 2 Piece boom	14.700 kg	15.800 kg	15.800 kg



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