HMK 460 MG
MOTOR GRADER

HiDROMEK

HiDROMEK
Hidromek proudly introduces the Hidromek Motor Grader Models MG460 of which durability and performance are well proven in wide range of markets.

YOUR RELIABLE PARTNER!

Built to handle almost any job—precision finishing, scarifying, bank-cutting, ditch working.

The clean and powerful turbo-charged diesel engine has been adopted for the MG460, ensuring reliable work under the toughest conditions.

Dual independent braking systems mean that the MG460 Motor Graders can be brought to an immediate stop at any time, while the cab is designed with full attention to operators’ needs.
Engine to Meet Tough Needs

Direct-injection, turbo-charged Mitsubishi 6D24-T engine offers superior output and high torque levels. This powerful engine, known for its low fuel consumption, low emission, and reliability, packs a powerful 116 kW (155 HP) to 138kW (185 HP) / 2000 rpm variable horse power output, ensuring that the MG460 always give outstanding performance under any conditions, from light to heavy duty work.

Variable horse power (VHP) provides an overall 11% increase in machine performance. MG460’s engines also feature easy starting, and outstanding durability.

Hydraulics

MG460 hydraulic system adopts a large capacity variable displacement pump with a close center load sensing system. The hydraulic system provides high implement speed with multi-function.

A large capacity return line filter and magnetic suction strainer ensure the hydraulic oil cleanliness is at a Premium.

The hydraulic system incorporates lock valves on the blade lift, blade tilt wheel lean, rear ripper and scarifier as an option.

Differential Lock / Unlock

The differential lock/unlock features, optional on MG460, improving performance during turning or when operating on rough underfoot conditions. The easy-to-operate lock/unlock switch is located on the front console.

Direct Power Shift (DPS) Transmission

The direct drive planetary gear transmission, which was developed especially for the MG460, is designed to match the high performance 6D24-T diesel engine for optimum efficiency. This transmission eliminates momentum loss by enabling immediate engagement of any of the MG460’s 8 forward or reverse gears without using the clutch.

By this perfect combination with the engine and DPS transmission, MG460 provides maximum travel and working speeds with optimum drawbar pull.
The computer simulations and actual field tests were used to develop the MG460’s high strength main frame. The design eliminates stress points for increased durability and long life.

Equipped as optional with a tip cylinder, the blade has excellent rolling performance, which allows a variety of operations, ranging from levelling sand to mixing, dozing and digging everything or snow and ice removal.

Cutting edges and endbits are available to maintain maximum service life.

The adoption of in-seat bank-cut system makes it possible to control the position of the blade from the cab. This ensures a wider range of applications from fine finishing through bak cutting. The machine can be set to cut 90 degrees left or right.

Frame Structure
(High Strength Main Frame)

The computer simulations and actual field tests were used to develop the MG460’s high strength main frame. The design eliminates stress points for increased durability and long life.

The MG460’s feature strong durable main frame developed using the latest design and materials’ technology and proven using computer simulation tests.

MG460 Offers
Maximum Productivity and Durability

In-Seat Bank-Cut Operations

Blade-Slip Clutch

The MG460 feature an optional blade-slip clutch, an alternative clutch protection system to the conventional shear-pin mechanism.

The MG460’s clutch may slip when an abnormally strong external force is exerted on the blade, to give full protection against destructive overloading.

The main advantages of the blade-slip clutch over the shear-pin type mechanism include the elimination of replacement parts, such as shear pin, and the time and expense needed for maintenance. Please note that the blade rotating torque can be set for optimum performance, contributing to greater working efficiency.
Wide Visibility

MG460 series motor graders optional operator cab has been designed to offer a wide range of visibility to the operator for a better, safer and more comfortable operation.

Adjustable Operator Seat

ROPS and FOPS certificated cab offers a safe and comfortable working environment to the operators. The deluxe suspension seat offers wide ranging adjustments which allows the operator to choose the best sitting position.
Hydraulic Operating Levers

MG460 motor grader is available to fit with “Industry Standard” soft touch, short stroke levers which are direct coupled by control cable to the hydraulic control valves. The system provides precise implement control with minimum stress to the operator.

Transmission Shift Lever

The transmission shift lever allows operator to select the optimal combination of machine speed and drawbar pull from among eight forward and eight reverse speeds, improving operating efficiency in a variety of operations. The transmission lever requires little effort to adjust, ensuring superb operating smoothness.
Designed for easy operation, the locking engine compartment side cover incorporates a one-touch gas damper. In addition to opening easily, the cover is large enough to provide easy access to all engine components and facilitate oil, battery fluid level and other daily checks. Filters also located to be changed easily.

The fuel cap is located to the side of the engine compartment so that it can be refilled easily from the ground level.

The fuse box is positioned to the right of the operator’s seat for easy access.

The service hour meter is located on the left side of the steering console so that it can be checked from the ground level without entering the cab.

Air supply system is a standard equipment for MG460, which can be used as an air source to inflate tires by using an optional tire charge hose.

Quick, straightforward inspections also allow operators to monitor vehicle status closely, so that MG460 maintenance is almost always preventive.
SAFETY FIRST!

The engine can only be started when the transmission lever is in the neutral position.

A warning buzzer sounds to alert the operator if the transmission shift lever is operated while the parking brake remains engaged.

If air pressure is insufficient to power the service brakes, an alarm buzzer sounds until pressure is recharged.

In case of engine overheating, an alarm buzzer sounds to indicate. If this warning is ignored, the engine will eventually shut off itself.

Emergency steering system is an optional feature for MG460.

Fail-Safe Braking System

Two completely independent air-actuated oil-cooled disc brake systems provide on demand positive braking with only a light touch of the pedal which ensure that braking is instantaneous, noiseless and, most important, fail-safe. Duplicate back-up air circuits give operators complete control even in the case of a system malfunction.

ROPS/FOPS Cab

ROPS/FOPS Cab provides low sound and low vibration. Noise levels are below industry standards due to the acoustic design of the cabin. All round work site vision from the operator platform is unrestricted with blade (moldboard) and rear implement (ripper) vision being exceptional due to the large one piece front and rear windscreens. All windows are tinted as standard.

To minimize the amount of noise and vibration that reaches to operator, the cabin and engine compartment are fully separated. Also, the engine compartment uses double-layer soundproofing on the cabin side and the cabin is rubber-mounted.
In-Seat Bank-Cut Operations

The adoption of in-seat bank-cut system makes it possible to control the position of the blade from the cab. This ensures a wider range of applications from fine finishing through bank cutting. The machine can be set to cut 90 degrees left or right.

Front Mounted Attachments

Push plate/counterweight, front blade are available to attach on machine as optional.

Rear Ripper

Rear ripper includes 3 shanks and also 5 shanks are available.
### MG460 TECHNICAL CHARACTERISTICS

#### ENGINE

<table>
<thead>
<tr>
<th>Model</th>
<th>Mitsubishi 6D24-T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>4 cycle, Turbo-charged, Direct-injection, water cooled, diesel engine</td>
</tr>
<tr>
<td>No. of cylinder - bore x stroke</td>
<td>In-line 6 cylinders - 130 mm x 150 mm</td>
</tr>
<tr>
<td>Piston displacement</td>
<td>11,946 cc</td>
</tr>
<tr>
<td>Emission Level</td>
<td>Compatible with USA EPA Tier 1 and European</td>
</tr>
<tr>
<td>Performance (EC regulation 97/68/EC)</td>
<td></td>
</tr>
<tr>
<td>in 1-3 Forward &amp; 1-8 Reverse</td>
<td></td>
</tr>
<tr>
<td>Rated net horsepower</td>
<td>116 kW / 155 HP @ 2000 rpm</td>
</tr>
<tr>
<td>Rated gross horsepower</td>
<td>129 kW / 173 HP @ 2000 rpm</td>
</tr>
<tr>
<td>in 4-8 Forward</td>
<td></td>
</tr>
<tr>
<td>Rated net horsepower</td>
<td>138 kW / 185 HP @ 2000 rpm</td>
</tr>
<tr>
<td>Rated gross horsepower</td>
<td>151 kW / 202 HP @ 2000 rpm</td>
</tr>
<tr>
<td>Max. torque</td>
<td>925 Nm</td>
</tr>
<tr>
<td>Lubrication system</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Forced lubrication by gear pump</td>
</tr>
<tr>
<td>Filter</td>
<td>Full-flow</td>
</tr>
<tr>
<td>Oil Cooler</td>
<td>Water cooled</td>
</tr>
<tr>
<td>Cooling system</td>
<td>Forced circulation by centrifugal water pump, blow type fan</td>
</tr>
<tr>
<td>Air-cleaner</td>
<td>Dry cyclone type with dust evacuator, double elements</td>
</tr>
<tr>
<td>Air-compressor</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Air cooled</td>
</tr>
<tr>
<td>Displacement</td>
<td>284 cm³/rev</td>
</tr>
<tr>
<td>Starting method</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Electric starting motor</td>
</tr>
<tr>
<td>Starting motor</td>
<td>24 volt – 5.5 kW</td>
</tr>
<tr>
<td>Alternator</td>
<td>24 volt – 50 amp</td>
</tr>
<tr>
<td>Battery</td>
<td>24 volt (12 volt x 2) - 150Ah</td>
</tr>
</tbody>
</table>

#### POWER TRAIN

| Transmission | Power-shift (Planetary gear, Hydraulically actuated) with 8 speeds Double reduction by spiral bevel and planetary gear with operator controlled hydraulically lock/unlock differential |
| Final Drive | |
| Brake | |
| Service brake | Air actuated, multi disc, oil cooled on all 4 rear wheels |
| Parking brake | Spring engaged, air disengaged, multi disc, oil cooled on T/M output shaft |

#### PERFORMANCE

<table>
<thead>
<tr>
<th>Travel speeds (with standard 14.00-24 tires)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward</td>
<td></td>
</tr>
<tr>
<td>Gear 1</td>
<td>3.6 km/h</td>
</tr>
<tr>
<td>Gear 2</td>
<td>4.9 km/h</td>
</tr>
<tr>
<td>Gear 3</td>
<td>7.5 km/h</td>
</tr>
<tr>
<td>Gear 4</td>
<td>10.3 km/h</td>
</tr>
<tr>
<td>Gear 5</td>
<td>14.7 km/h</td>
</tr>
<tr>
<td>Gear 6</td>
<td>19.8 km/h</td>
</tr>
<tr>
<td>Gear 7</td>
<td>30.1 km/h</td>
</tr>
<tr>
<td>Gear 8</td>
<td>41.4 km/h</td>
</tr>
<tr>
<td>Reverse</td>
<td></td>
</tr>
<tr>
<td>Gear 1</td>
<td>3.3 km/h</td>
</tr>
<tr>
<td>Gear 2</td>
<td>4.4 km/h</td>
</tr>
<tr>
<td>Gear 3</td>
<td>6.7 km/h</td>
</tr>
<tr>
<td>Gear 4</td>
<td>9.2 km/h</td>
</tr>
<tr>
<td>Gear 5</td>
<td>13.2 km/h</td>
</tr>
<tr>
<td>Gear 6</td>
<td>17.8 km/h</td>
</tr>
<tr>
<td>Gear 7</td>
<td>27.1 km/h</td>
</tr>
<tr>
<td>Gear 8</td>
<td>37.2 km/h</td>
</tr>
<tr>
<td>Max. drawbar pull</td>
<td>83082 N (8472 kg)</td>
</tr>
</tbody>
</table>

#### HYDRAULIC SYSTEM

| Circuit | Closed-center, load sensing system |
| Oil Pump | Variable-displacement piston pump |
| Capacity | 174 l/min |
| System pressure | 172 bar |
| Oil Motor | |
| Type | Trochoid motor |
| Capacity | 76 l/min |
| Output horse power | 19.8 kW |
| Control valve | 8 sections, closed-center control |
| Safety pressure | 206 bar |
### SERVICE CAPACITY

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiator</td>
<td>50 ℓ.</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>275 ℓ.</td>
</tr>
<tr>
<td>Engine crankcase</td>
<td>29 ℓ.</td>
</tr>
<tr>
<td>Transmission</td>
<td>38 ℓ.</td>
</tr>
<tr>
<td>Rear axle case</td>
<td>30 ℓ.</td>
</tr>
<tr>
<td>Hydraulic tank</td>
<td>58 ℓ.</td>
</tr>
<tr>
<td>Tandem drive case (each side)</td>
<td>85 ℓ.</td>
</tr>
<tr>
<td>Circle reverse gear case</td>
<td>3.5 ℓ.</td>
</tr>
</tbody>
</table>

### MOLDBOARD (BLADE)

<table>
<thead>
<tr>
<th>Type</th>
<th>Wear-resistant steel, with box section reinforcement with hydraulic side shift and hydraulic blade tip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length x Height x Thickness</td>
<td>3.710 mm x 610 mm x 19 mm</td>
</tr>
<tr>
<td>Number of cutting edges</td>
<td>2 — 1829 mm x 152 mm x 15.9 mm</td>
</tr>
</tbody>
</table>

### BLADE RANGE

| Max. lift above ground     | 525 mm |
| Max. drop below ground     | 660 mm |
| Max. shoulder reach        |        |
| Left                       | 1970 mm |
| Right                      | 2000 mm |
| Max. bank cutting angle    | 90 Degrees |
| Blade pitch angle          |       |
| Blade tilt                 | 46 Degrees |
| Angle of cut               | 39° to 85° |

### STEERING SYSTEM

<table>
<thead>
<tr>
<th>Type</th>
<th>Full hydraulic front wheel steering with hand metering unit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steering angle</td>
<td>47 Degrees</td>
</tr>
<tr>
<td>Pump</td>
<td>Gear type</td>
</tr>
<tr>
<td>Capacity</td>
<td>51 l/min</td>
</tr>
<tr>
<td>System pressure</td>
<td>172 bar</td>
</tr>
<tr>
<td>Frame articulation angle (both left and right)</td>
<td>29 Degrees</td>
</tr>
<tr>
<td>Minimum turn radius (outside front tires)</td>
<td>6.9 m</td>
</tr>
</tbody>
</table>

### OPERATING WEIGHT (ISO7134)

- **Type:** 17.700 kg
- With 14.00-24-12PR tires (op), rear mounted ripper, front push block T/M belly guard, operator, Air-Con., ROPS/FOBS Cab, 1/2 tank diesel and lighting/mirrors etc. for road registration.

### WHEELS

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire</td>
<td>14.00-24-12PR (G-2)TUBE/TUBELESS</td>
</tr>
<tr>
<td>Rim</td>
<td>8.00TG x 24</td>
</tr>
<tr>
<td>Inflation Pressure</td>
<td>37 psi</td>
</tr>
</tbody>
</table>
### DIMENSIONS (approximate)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MG460</th>
<th>MG460 CAB</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Total Length</td>
<td>mm 8580</td>
<td>8580</td>
</tr>
<tr>
<td>B. Total Width</td>
<td>mm 2440</td>
<td>2440</td>
</tr>
<tr>
<td>C. Total Height</td>
<td>mm -</td>
<td>3480</td>
</tr>
<tr>
<td>C'. Total Height</td>
<td>mm 3090</td>
<td>-</td>
</tr>
<tr>
<td>D. Wheel Base</td>
<td>mm 6250</td>
<td>6250</td>
</tr>
<tr>
<td>E. Blade Base</td>
<td>mm 2790</td>
<td>2790</td>
</tr>
<tr>
<td>F. Rear Axle Center</td>
<td>mm 782.5</td>
<td>782.5</td>
</tr>
<tr>
<td>G. Blade Length</td>
<td>mm 3710</td>
<td>3710</td>
</tr>
<tr>
<td>H. Total Length (Front Counter Weight - Rear Ripper)</td>
<td>mm 9865</td>
<td>9895</td>
</tr>
<tr>
<td>K. Tire Center Lines</td>
<td>mm 2000</td>
<td>2000</td>
</tr>
</tbody>
</table>

**WARNING:** HIDROMEK reserves the right to change the values given in this catalogue and designs indicated without prior notification.
STANDART EQUIPMENTS

ELECTRICAL
- Alternator, 50 Ampere
- Back up alarm buzzer
- Battery, 24 Volt — 150 Ah
- Motor starting, 24 Volt-5.5 Kw
- Electric horn
- 2 Head lights
- Rear combination lamps
- Electrical System, 24 V

POWER TRAIN
- Air cleaner: dry cyclone type with dust evacuator, dual element
- Service brakes: air actuated, multi disc, oil cooled on all four rear wheels
- Parking brakes: spring engaged, air disengaged, multi disc, oil cooled on transmission output shaft
- Engine: Mitsubishi 6D24-TUN water cooled, 4-cycle, in line 6 cylinder, direct injection, diesel engine, with turbo charger
- Engine muffler
- Tandem drive, roller chain drive
- Transmission, power shift with 8 speeds for both forward and reverse
- Priming pump
- Differential lock/unlock
- Variable Horse Power

OPERATOR ENVIRONMENT
- Accelerator
- Adjustable control console
- Indicator lights and buzzer
- High beam indicator
- Turn signal indicator
- Parking brake indicator
- Air filter warning lamp
- Engine overheat warning lamp
- Engine oil filter warning lamp
- Engine oil pressure warning lamp
- Alternator not charging warning lamp
- Air pressure alarm buzzer
- Parking brake alarm buzzer
- Engine overheat alarm buzzer
- Water temperature gauge, Air pressure gauge, Fuel gauge
- Hydraulic controls (blade lift, blade tip, center shift, side shift, circle drive, front wheel lean and articulation)
- Electric hour meter
- Center shift un-lock switch
- Key switch
- Handle throttle accelerator lever
- Power steering, hydraulic
- Adjustable, operator’s suspension seat
- Seat belt

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MG460 OPTIONAL EQUIPMENTS

Cabs / Canopies;
- Canvas Canopy - Steel Canopy - ROPS Canopy - Steel Cab - ROPS Cab - ROPS/FOPS Cab
- Air conditioner
- Blade slip clutch
- Rear under view mirror
- Air dryer
- Heater with defroster
- Reversible side edges and overlay end-bits for moldboard
- Fuel tank, 273 L
- Rear drawer with pin
- Drawbar, 6 shoes with replaceable bronze wear strips
- Moldboard, 3710 mm x 610 mm x 19 mm
- Vandalism protection, fuel tank, engine compartment doors
- Antifreeze, LLC (Long Life Coolant)
- Tool kit

TIRES & RIMS
- Tire: 14.00-24-12 PR
- Rim: 8.00 TG x 24

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TIRES & RIMS
- Tire: 14.00-24-12 PR
- Rim: 8.00 TG x 24
NOT ONLY WITH OUR MACHINES, BUT ALSO WITH THE SERVICES WE PROVIDE, WE ARE DIFFERENT!

Expert Service
Our personnel who are experts in their subjects provide the opportunity of the highest quality and the fastest service with their high-end equipments.

Global Service Network
Hidromek that has global service network offers sale and service even in the various points of the world with hundreds of sale and service points abroad.

High Customer Satisfaction
A customer-oriented approach is adopted in all our operations in order to satisfy our customer at the highest level, add value their works and gain loyalty of them.