Material Handler 230MH

- 22.4 - 23 t
- 116 kW (158 hp)
- 10.3 - 12.7 m
**TECHNICAL SPECIFICATIONS**

**DRIVER’S CAB**
- Meets latest safety standards
- Extra large entry zone
- Spacious leg room
- Excellent circumferential visibility
- Compartment for radio installation with mute function

**FILL CAPACITIES**
- Fuel tank: 360 Liter
- Engine oil: 20 Liter
- Cooling system: 42 Liter
- Hydraulic tank: 216 Liter

**HYDRAULIC SYSTEM**
- Swing motor: Axial piston motor with priority valve
- Swing control: Automatic multidisc brake

**TRACTION DRIVE AND BRAKES**
- Variable displacement motor
- Double-acting brake valve
- Driving direction pre-selection via switch in joystick

**UNDERCARRIAGE**
- 40 t special excavator axles
- Steering axle with automatic oscillating axle blocking
- 8 tyres: 10.00 - 20

**ENGINE**
- Power according to ISO 9249: 119kW (160 hp)
- Number of cylinders: 6
- Engine oil: 20 Liter
- Fuel-efficient flow-on-demand control

**HYDRAULIC SYSTEM**
- Primary and secondary protection against overload
- Dual-circuit hydraulic system
- Pipe-break protection valves for lifting cylinders
- Automatic multidisc brake
- Swing brake: Planetary transmission
- Max. load-limit control

**SWING ASSEMBLY**
- Swing motor: Axial piston motor with priority valve
- Swing control: Automatic multidisc brake

**OPERATING EQUIPMENT**
- Engine monitoring
- Engine monitoring
- Automatic idle
- Auxiliary heating

**ADDITIONAL EQUIPMENT**
- Refueling pump
- Engine speed adjustment via potentiometer
- Cooling system: 42 Liter
- Auxiliary heating
- Cold start assistance

**ATTACHMENTS**
- Trencher grab
- Load hook
- Log grab
Working ranges Loading boom 6.20 m (C21.5i) and stick 4.80 m (D21.15i)

Lifting capacities Loading boom 6.20 m (C21.5i) and stick 4.80 m (D21.15i), Max. reach 11.64 m

<table>
<thead>
<tr>
<th>HEIGHT</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>9.0 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT</td>
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<tr>
<td>LATERAL</td>
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</tbody>
</table>

The specified max. loading capacities in tonnes include a stability of 33% or are calculated at 87% of the hydraulic lifting power, as per ISO10567.

These values are applicable at the tip of the arm (without Bucket tipping cylinder, system of redirect levers) with optimum positioning of the corresponding arm system and with the pressure switched on. Weights of attached load carrying accessories (grab, magnet, load hook, etc.) are not included with the load carrying values. * Value limited due to hydraulics.

Attachments

- Load hook
- Log grab
- Clamshell grab
- Orange peel grab
- Load lifting magnet
The specified max. loading capacities in tonnes include a stability of 33% or are calculated at 87% of the hydraulic lifting power, as per ISO10567. These values are applicable at the tip of the arm (without Bucket tipping cylinder, system of redirect levers) with optimum positioning of the corresponding arm system and with the pressure switched on.

Weights of attached load carrying accessories (grab, magnet, load hook, etc.) are not included with the load carrying values. * Value limited due to hydraulics.
### Working Ranges

**Loading boom 6.80 m (C21.6i) and stick 5.30 m (D21.16i)**

- **Lifting capacities Loading boom 6.80 m (C21.6i) and stick 5.30 m (D21.16i)**

<table>
<thead>
<tr>
<th>HEIGHT</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>9.0 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT</td>
<td>1.0 m</td>
<td>2.3 m</td>
<td>2.0 m</td>
<td>3.0 m</td>
<td>4.0 m</td>
</tr>
<tr>
<td>LATERAL</td>
<td>1.1 m</td>
<td>2.7 m</td>
<td>2.2 m</td>
<td>3.2 m</td>
<td>4.2 m</td>
</tr>
</tbody>
</table>

*Weights of attached load carrying accessories (grab, magnet, load hook, etc.) are not included with the load carrying values.*  
*Values limited due to hydraulics.*

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### Attachments

- **Load hook**
- **Log grab**
- **Clamshell grab**
- **Orange peel grab**
- **Load lifting magnet**
The specified max. loading capacities in tonnes include a stability of 33% or are calculated at 87% of the hydraulic lifting power, as per ISO10567.

These values are applicable at the tip of the arm (without Bucket tipping cylinder, system of redirect levers) with optimum positioning of the corresponding arm system and with the pressure switched on.

Weights of attached load carrying accessories (grab, magnet, load hook, etc.) are not included with the load carrying values. * Value limited due to hydraulics.

The working ranges and lifting capacities are for Adjustable Boom, Base arm 1.95 m (C21.41) and boom 4.23 m (C21.46) + stick 2.65 m (D21.33) Max. reach 10.33 m.
# Dimensions

## 230MH

<table>
<thead>
<tr>
<th>Standard-Cab</th>
<th>Lift-Cab</th>
<th>Vario-Cab</th>
<th>Cab elevation 1.20 m</th>
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<tbody>
<tr>
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</table>

### (A) TRANSPORT HEIGHT

<table>
<thead>
<tr>
<th>Loading boom 6.20 m with stick 4.80 m</th>
<th>Loading boom 6.20 m with stick 4.80 m</th>
<th>Loading boom 6.20 m with stick 4.80 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.21 m</td>
<td>3.21 m</td>
<td>3.21 m</td>
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<tr>
<td>3.21 m</td>
<td>3.21 m</td>
<td>3.21 m</td>
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</tbody>
</table>

### (B) TRANSPORT LENGTH

<table>
<thead>
<tr>
<th>Loading boom 6.20 m with stick 5.30 m</th>
<th>Loading boom 6.20 m with stick 5.30 m</th>
<th>Loading boom 6.20 m with stick 5.30 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.36 m</td>
<td>9.36 m</td>
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<tr>
<td>9.36 m</td>
<td>9.36 m</td>
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</tbody>
</table>

Further variations of cabs on request

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