## MINI EXCAVATOR

### TC16

#### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating weight</td>
<td>3,800 lbs (1,725 kg)</td>
</tr>
<tr>
<td>Engine power</td>
<td>18 HP (13.1 kW)</td>
</tr>
<tr>
<td>Bucket capacity</td>
<td>0.74-3.2 ft³ (21-91 l)</td>
</tr>
<tr>
<td>Dig depth</td>
<td>7' 3&quot; (2.2 m)</td>
</tr>
<tr>
<td>Reach</td>
<td>12' 10&quot; (3.9 m)</td>
</tr>
</tbody>
</table>

#### Features

- Short-tail machine
- Extra-wide blade for dozer applications
- Top-mounted boom cylinders for perfect protection of cylinders and larger range of application
- Comfort cab with perfect all-round visibility
- Knickmatik® allows for working closely alongside walls
- Wide range of proven working tools
### OPERATING DATA, STANDARD EQUIPMENT

- **Transport weight (incl. bucket)**: 3,635 lbs (1,650 kg)
- **Transport weight (incl. bucket)**: 3,800 lbs (1,725 kg)
- **Total length (travel position)**: 8’ 2” (2,500 mm)
- **Total length (travel position)**: 12’ 9” / 12’ 2” (3,800 / 3,720 mm)
- **Width (crawlers retracted)**: 3’ 3” (990 mm)
- **Uppercarriage tailswing**: 3’ 8” (1,130 mm)
- **Uppercarriage frontswing**: 4’ 1” (1,240 mm)
- **Working envelope 180° / 360°**: 7’ 9”/ 8’ 2” (2,370 / 2,500 mm)
- **Ground Clearance**: 6.7” (170 mm)
- **Bucket digging force (ISO 6015)**: 3,237 lbf (14,400 N)
- **Stick digging force (ISO 6015)**: 2,091 lbf / 9,300 N
- **Ground pressure (rubber crawlers)**: 3.6 psi (0.25 daN/cm²)
- **Ground pressure (steel crawlers)**: 3.7 psi (0.26 daN/cm²)

### ENGINE
- **Manufacturer, model**: Mitsubishi, L3E
- **Type**: 3-cylinder diesel engine, EPA/Tier 4 Final (2008)
- **Combustion**: 4-stroke, swirl chamber injection
- **Displacement**: 58 in³ (952 cm³)
- **Net power rating at 2,200 rpm (SAE J 1349)**: 18 hp (13.1 kW)
- **Max. torque**: 40.6 lbf ft (55 Nm) @ 2,100 rpm
- **Cooling system**: Water

### TRANSMISSION
- **Travel speed, forward and reverse**: 1.5 mph (0-2.4)
- **Gradeability**: max. 60 %
- **Drawbar pull**: 2,610 lbf (1,160 daN)

### UNDERCARRIAGE
- **Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler track tensioning. Mechanically retractable/extendable undercarriage provided as standard.**
- **Range of adjustment, outside edge of crawler chains**: 3’ 3-1/4” - 5’ 9” (990-1,340 mm)
- **Width rubber crawlers / steel crawlers**: 9” (230 mm)
- **Total length (sprocket - idler)**: 44.1” (1,110 mm)
- **Total length (undercarriage)**: 58.7” (1,490 mm)

### DOZER BLADE
- **Independent of drive train, sensitive control via separate hand lever.**
- **Width x height**: 4’ 5” x 9” (1,340 x 235) mm
- **Dozer cut below ground**: 6.3” (160 mm)
- **Dozer lift above ground**: 8” (200 mm)
- **Slope angle**: 25°

### STEERING
- **Independent, individual control of crawler chains, also counterwise. Sensitive control via hand levers combined with foot pedals. Pedal console serving as foot rest.**

### SWING SYSTEM
- **Hydrostatic drive, also acts as wear-resistant brake. Additional spring-loaded multi-disc brake. Internally toothed ring gear.**
- **Swing speed**: 0-10 rpm
## Abbreviations
- UE = Undercarriage extended
- UR = Undercarriage retracted
- S = Supported by blade
- T = Traveling

## Working Equipment
- Rubber crawlers
- Quick-attach system but without bucket

In case of mounted-on work attachments, the deadweights of the work attachments must be deducted from the permissible payloads.

The above loads (all values in lbs x 1,000 resp. metric tons) are in compliance with SAE J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. All values were determined with lifting capacities.

### Monobloc Boom with Dipperstick 1100 mm

### Work Equipment:
- Dipperstick 4' 3" (1,300 mm)
- Max. height loading position

### Lifting Capacities

<table>
<thead>
<tr>
<th>Bucket hinge height</th>
<th>Dipperstick 3' 7&quot; (1,100 mm)</th>
<th>Load radius from center of ring gear</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4' 11&quot; (1.5 m)</td>
<td>6' 7&quot; (2.0 m)</td>
</tr>
<tr>
<td></td>
<td>UE</td>
<td>UR</td>
</tr>
<tr>
<td>6' 7&quot; (2.0 m)</td>
<td>S</td>
<td>T</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3' 3&quot; (1.0 m)</td>
<td>S 1.96 (0.89)</td>
<td>T 1.2 (0.54)</td>
</tr>
<tr>
<td>0 m</td>
<td>1.54 (0.70)</td>
<td>1.08 (0.48)</td>
</tr>
<tr>
<td></td>
<td>1.1 (0.50)</td>
<td>0.60 (0.27)</td>
</tr>
<tr>
<td>-2' 6&quot; (-0.75 m)</td>
<td>S 1.41 (0.64)</td>
<td>T 1.1 (0.50)</td>
</tr>
<tr>
<td></td>
<td>1.41 (0.64)</td>
<td>1.1 (0.50)</td>
</tr>
</tbody>
</table>

The above loads (all values in lbs x 1,000 resp. metric tons) are in compliance with SAE J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. All values were determined with lifting capacities.

**Working equipment:** Rubber crawlers.

**Abbreviations:** UE = Undercarriage extended, UR = Undercarriage retracted, S = Supported by blade, T = Traveling

### Dimensions

**Work equipment:**
- Monobloc boom with dipperstick 1100 mm

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The above loads (all values in lbs x 1,000 resp. metric tons) are in compliance with SAE J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. All values were determined with quick-attach system but without bucket. In case of mounted-on work attachments, the deadweights of the work attachments must be deducted from the permissible payloads.

Working equipment: Rubber crawlers.

Abbreviations: UE = Undercarriage extended, UR = Undercarriage retracted, S = Supported by blade, T = Traveling

### Monobloc boom with dipperstick 1100 mm

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[Diagram of Monobloc boom with dipperstick 1100 mm]
**WORK ATTACHMENTS**

### BUCKETS

<table>
<thead>
<tr>
<th>Bucket Type</th>
<th>Dimensions</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>OAS</td>
<td>10&quot; (250 mm wide)</td>
<td>0.85 cf (24 l)</td>
</tr>
<tr>
<td>Directly mounted</td>
<td>9&quot; (220 mm wide)</td>
<td>0.74 cf (21 l)</td>
</tr>
<tr>
<td>OAS</td>
<td>12&quot; (300 mm wide)</td>
<td>1.06 cf (30 l)</td>
</tr>
<tr>
<td>Directly mounted</td>
<td>12&quot; (300 mm wide)</td>
<td>1.03 cf (29 l)</td>
</tr>
<tr>
<td>OAS</td>
<td>16&quot; (400 mm wide)</td>
<td>1.55 cf (44 l)</td>
</tr>
<tr>
<td>Directly mounted</td>
<td>16&quot; (400 mm wide)</td>
<td>1.41 cf (40 l)</td>
</tr>
<tr>
<td>OAS</td>
<td>20&quot; (500 mm wide)</td>
<td>1.94 cf (55 l)</td>
</tr>
<tr>
<td>Directly mounted</td>
<td>24&quot; (600 mm wide)</td>
<td>2.15 cf (61 l)</td>
</tr>
<tr>
<td>Monobloc boom, dipperstick extended 51&quot; (1,300 mm)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### GRABS

- Clamshell grab GL 1250, grab swing brake
- Set of shells 10" (250 mm) wide, capacity 1.77 cf (45 l)
- Ejector

### OTHER WORK ATTACHMENTS

- Hydraulic hammer
- Cutting unit
- Auger
- Quick-change adapter for hydraulic hammer
- Belt-on load hook for bucket rod
- Further work attachments available on request

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**OPTIONAL EQUIPMENT**

### BOOM OPTIONS

- Monobloc boom, with extended dipperstick 51" (1,300 mm)

### CRAWLER CHAIN OPTIONS

- Steel crawler chain, 9" (230 mm) wide

### HYDRAULIC SYSTEM

- Terex ‘Fingertip’ control (electro proportional) for additional control circuit for work attachments on right joystick, actuation via rollers
- Terex ‘Fingertip’ control (electro proportional) incl. second additional control circuit on left joystick, actuation via rollers
- Hose-rupture / load-retaining valve for boom with load warning device
- Hose-rupture / load-retaining valve for dipperstick
- Biodegradable hydraulic oil / ester-based HLP 68 (Panolin)
- Float position - front dozer blade

### DRIVER’S STAND

- Fabric-covered operator’s seat MSG 20 (standard version), lap belt, adjustable driver’s weight

### CAB

- Rain guard
- FOPS - skylight guard
- Cab-mounted working floodlight, front right
- Cab-mounted working floodlight, rear right
- Boom-mounted working floodlight
- Radio set installation kit (speakers)
- Anti-theft device, coded key (immobilizer)
- Electronic immobilizer, keypad operation
- Yellow beacon
- Motion alarm incl. horn (to be deactivated on demand)

### OTHER OPTIONAL EQUIPMENT

- Mechanical quick-attach system (QAS)
- High-speed 0-4.5 kph
- Quick-attach system, mechanical (genuine Lehnhoff system), type MS01
- Canopy with working floodlight (weight reduction: 176 lbs (80 kg))
- Crane lifting beam
- Electrical refueling pump
- Track shoes with “Felasta” tiles
- Special coating / adhesive films
- Additional boom-mounted working floodlight
- Front dozer blade - extra-long version
- Rear vandal guard
- Further optional equipment available on request

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