BRIDGE INSPECTION VEHICLE

BT-200

Maximum deck bottom depth: 5.4 m
Maximum deck bottom height: 7.0 m
Maximum working radius: 5.1 m
Maximum deck loading capacity: 200 kg

2-section boom length: 3.06 m - 5.11 m
5-section post boom length: 3.325 m - 9.825 m
3-section deck boom length: 3.5 m - 8.21 m
MODEL : BT-200

SPECIFICATIONS

**DECK**
- **Outside dimensions:** 3.0 m x 0.85 m x 0.9 m (Length x width x depth)
- **Capacity:** 200 kg
- **Automatic leveling system:** By a double-acting hydraulic cylinder.
- **Maximum deck bottom depth:** 5.4 m
- **Maximum deck bottom height:** 7.0 m
- **Maximum working radius:** 5.1 m

**BOOM**
- **Boom length:** 3.06 m – 5.11 m
- **Slewing system:** Hydraulic motor driven through worm reduction gear.
- **Slewing angle:** 115° (Left 105°, Right 10°)
- **Elevation system:** By a double-acting hydraulic cylinder, fitted with a holding valve.
- **Elevation angle:** -15° – 60°

**POST**
- **Boom length:** 3.325 m – 9.825 m

**DECK BOOM**
- **Boom length:** 3.5 m – 8.21 m
- **Slewing system:** Hydraulic motor driven.
- **Slewing angle:** 90°

**HYDRAULIC SYSTEM**
- **Pumps:** Gear pump
- **Control valves:** Multiple hydraulic-control valves actuated by switch with integral relief valves.
- **Hydraulic oil tank capacity:** Approx. 95 L
- **Filter:** Return line filter

**OUTRIGGERS**
- **Four hydraulically operated outriggers equipped with solid rubber tires. Each outrigger controlled simultaneously or independently from rear side of carrier.**
- **Maximum extension width:** Front 2.74 m, Rear 2.81 m

**WORKING RANGE**

<table>
<thead>
<tr>
<th>Working radius (m)</th>
<th>Working height (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.8</td>
<td>1.25</td>
</tr>
<tr>
<td>1.1</td>
<td>2.0</td>
</tr>
<tr>
<td>1.4</td>
<td>2.8</td>
</tr>
<tr>
<td>1.6</td>
<td>3.5</td>
</tr>
<tr>
<td>1.8</td>
<td>4.0</td>
</tr>
<tr>
<td>2.0</td>
<td>4.5</td>
</tr>
<tr>
<td>2.2</td>
<td>5.0</td>
</tr>
<tr>
<td>2.4</td>
<td>5.5</td>
</tr>
<tr>
<td>2.6</td>
<td>6.0</td>
</tr>
<tr>
<td>2.8</td>
<td>6.5</td>
</tr>
<tr>
<td>3.0</td>
<td>7.0</td>
</tr>
</tbody>
</table>

**BOOM ROTATION AREA**

(The slanting line indicates working area)

**DIMENSION**

<table>
<thead>
<tr>
<th>Front: 1,655</th>
<th>Rear: 1,590</th>
<th>2,180</th>
<th>1,845</th>
<th>2,900</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,855</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5,720</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
1. Working ranges shown are for a case where the bridge inspection device is set on firm, level ground, and do not include boom deflection.
2. "MAXIMUM", "MIDDLE2" and "MIDDLE1" indicates the corresponding outrigger extension widths.

**OPTIONAL EQUIPMENT**
- Work light (on deck)
- Jack roller choke (float)
- Marker lamps
- Hour meter
- Oil filters
- Tools

**SAFETY DEVICES**
- AMC (automatic motion control : working range limiter)
- Automatic speed reduction and slow stop function.
- Automatic speed control system.
- Boom lower surface profile function (not to hit)
- Voice alarm
- Foot switch (on deck, on rotating frame)
- Guard for operation levers
- Emergency pump
- Emergency stop system
- Jack interlock
- Outrigger indicator
- Vehicle tipping warning
- Hydraulic safety valves
- Hydraulic cylinder lock valves

**ACCESSORIES**
- Monitor lamps for limit of automatic motion controller (AMC), stow position, emergency stop.
- Monitor lamps for limit of automatic motion controller (AMC), AWL 80%, AWL 100%, AMC error, stow position, emergency stop.
- Monitor lamps for outrigger extension width, vehicle tipping warning.
- Levers for extension-retraction and outrigger selection.
- Switches for inter-phone.
- Monitor lamps for jack deploy, working prohibition.

**CONTROLS AND MONITORS**
- Levers for boom telescoping, boom elevation/rotation, post telescoping.
- Switches for deck boom telescoping, deck boom rotation, emergency stop-release, automatic stow, acceleration change-over, emergency pump start, engine start, inter-phone volume control, inter-phone, emergency switch (operate a deck boom telescoping and slewing).
- Monitor lamps for limit of automatic motion controller (AMC), stow position, emergency stop.
- Switches for boom telescoping, boom elevation, boom rotation, post telescoping, deck boom telescoping, deck boom rotation, emergency stop-release, automatic stow, acceleration change-over, emergency pump start, engine start, level adjustment, emergency switch (operate entire functions).
- Monitor lamps for limit of automatic motion controller (AMC), AWL 80%, AWL 100%, AMC error, stow position, emergency stop.
- Display for boom length, boom elevation angle, boom rotation angle, deck boom length, deck boom rotation angle, outrigger extension width.
- Levers for extension-retraction and outrigger selection.
- Monitor lamps for outrigger extension width, vehicle tipping warning.
- Levers for extension-retraction and outrigger selection.
- Levers for deck boom telescoping, deck boom rotation, emergency stop-release, automatic stow, acceleration change-over, emergency pump start, engine start, level adjustment, emergency switch (operate entire functions).
- Monitor lamps for limit of automatic motion controller (AMC), stow position, emergency stop.

**OPTIONAL EQUIPMENT**
- Work light (on deck)
- Jack roller choke (float)
- Marker lamps
- Hour meter
- Oil filters
- Tools

*Some specifications are subject to change*