## JCB Vibromax – Compaction Equipment
### Tandem Vibratory Roller
#### VMT390 / VMT400

**Max. Drum Width:**
- 1300mm (51.2in) / 1400mm (55.1in)

**Max. Operating Weight:**
- 3900kg (8598lb) / 3980kg (8774lb)

### Static Dimensions

- **A** Wheelbase: 2300 (79.9) mm
- **B** Overall width: 1390 (54.7) / 1490 (58.7) mm
- **D** Drum diameter: 800 (31.5) mm
- **H1** Total travel clearance: 1895 (74.6) mm
- **H2** Height to top of ROPS: 2330 (91.7) mm
- **K1** Ground clearance: 305 (12) mm
- **K2** Curb clearance: 600 (23.6) mm
- **L** Total travel length: 2830 (111.4) mm
- **S** Drum thickness: 17 (0.7) mm
- **W** Drum width: 1300 (51.2) / 1400 (55.1) mm

### Operating Data

<table>
<thead>
<tr>
<th></th>
<th>VMT390</th>
<th>VMT400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating weight (CECE)</td>
<td>kg</td>
<td>3900 (8598)</td>
</tr>
<tr>
<td>Working width cm (in)</td>
<td>130 (51.2)</td>
<td>140 (55.1)</td>
</tr>
<tr>
<td>Linear load kg/cm (lb/in)</td>
<td>15 (64)</td>
<td>14.2 (58)</td>
</tr>
<tr>
<td>Exciter frequency Hz (vpm)</td>
<td>55 (3300)</td>
<td>55 (3300)</td>
</tr>
<tr>
<td>Nominal amplitude mm (in)</td>
<td>0.5 (0.02)</td>
<td>0.5 (0.02)</td>
</tr>
<tr>
<td>Centrifugal force per drum kN (lbf)</td>
<td>48 (10791)</td>
<td>51 (11465)</td>
</tr>
<tr>
<td>Centrifugal force / drum width N/cm (lbf/in)</td>
<td>369 (233)</td>
<td>364 (208)</td>
</tr>
<tr>
<td>Travel speed (forward/reverse) 1st gear max. km/h (mph)</td>
<td>4.6 (2.8)</td>
<td>4.6 (2.8)</td>
</tr>
<tr>
<td>Travel speed (forward/reverse) 2nd gear max. km/h (mph)</td>
<td>0.1 (0.06)</td>
<td>0.1 (0.06)</td>
</tr>
<tr>
<td>Drum offset left / right (option) mm (in)</td>
<td>127 (5)</td>
<td>127 (5)</td>
</tr>
<tr>
<td>Compaction depth up to cm (in)</td>
<td>50 (19.7)</td>
<td>50 (19.7)</td>
</tr>
<tr>
<td>Steering lock angle degrees</td>
<td>±36</td>
<td>±36</td>
</tr>
<tr>
<td>Vertical oscillation degrees</td>
<td>±8</td>
<td>±8</td>
</tr>
<tr>
<td>Inner turning radius m (ft)</td>
<td>2.43 (8.0)</td>
<td>2.38 (7.8)</td>
</tr>
<tr>
<td>Gradeability up to degrees (%)</td>
<td>40 (22)</td>
<td>40 (22)</td>
</tr>
</tbody>
</table>
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**OPTIONAL DUAL FREQUENCY**

<table>
<thead>
<tr>
<th>Vibration stage</th>
<th>VMT390</th>
<th>VMT400</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Exciter frequency</td>
<td>Hz (rpm)</td>
<td>50 (3000)</td>
</tr>
<tr>
<td>Nominal amplitude</td>
<td>mm (in)</td>
<td>0.36 (0.022)</td>
</tr>
<tr>
<td>Centrifugal force per drum</td>
<td>kN (bf)</td>
<td>53 (1195)</td>
</tr>
<tr>
<td>Centrifugal force / drum width</td>
<td>N/cm (bf/in)</td>
<td>408 (233)</td>
</tr>
</tbody>
</table>

**ENGINE**

Four-cylinder, water-cooled, four-stroke diesel engine.

- **Make:** Kubota
- **Model:** V 2203
- **Piston displacement:** cm³ (in³) 2197 (134)
- **Performance – DIN 6271:** kW (hp) 34.3 (46.6)
- **Operating speed:** min⁻¹ (rpm) 2800 (2800)
- **Starting device:** Electric motor
- **Air cleaner:** Dry cartridge plus safety cartridge
- **Fuel filter:** Cartridge
- **Fuel consumption:** l/h (US gal) 8.5 (2.25)

**PROPULSION**

Hydrostatic with variable displacement pump and fixed displacement motors with direct drive to both drums = double drum drive.

**EXCITER DRIVE**

Electrically controlled hydrostatic direct drive on both drums for double vibration and single vibration (front).

**EXCITER**

Single-shaft circular exciter.

**STEERING SYSTEM**

Servo-assisted centre articulation with oscillation facility.

- **SERVICE CAPACITIES**
  - **Fuel:** litres (US gal) 76 (20.1)
  - **Engine oil (engine):** litres (US qt) 9.5 (2.5)
  - **Engine oil (each exciter):** litres (US qt) 0.8 (0.21)
  - **Hydraulic oil:** litres (US gal) 50 (13.2)
  - **Sprinkler water, rear:** litres (US gal) 300 (79.3)

**ELECTRICAL SYSTEM**

- **Voltage:** V 12
- **Battery capacity:** Ah 88
- **Alternator:** V (A) 14 (max. 45)

**INDICATORS AND SWITCHES**

Fuel, battery charging current, starter lock, vibration, sprinkler system, parking brake, hour meter, engine oil pressure, air and hydraulic oil filter condition.

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**BRAKING SYSTEM**

- **Service brake:** Hydrostatic propulsion system.
- **Parking brake:** Hydrostatically released multi-disc brake on both drums.
- **Safety brake:** Hydro-electric deadman brake in operator’s seat (CE-version).