HYDRAULIC CRANE
TS-100L
10-ton capacity
16.0m boom + 8.15m jib

CRANE SPECIFICATIONS

CAPACITY ........................................ 10,000kg at 3.3m
BOOM ........................................... Box type, fully hydraulically powered, two sections
Retracted length ......................... 9.0m
Extended length ......................... 16.0m
Extension speed ......................... 7.0m/45sec
Extension speed ......................... 0° to 75° in 40 seconds by double-acting, hydraulic cylinder
Elevation ...................................... 8.15m
Boom point ................................... 3 sheaves
Jib point ....................................... Single sheave
Jib length ..................................... Single sheave

HOIST—MAIN WINCH

Single line pull ......................... 1,670kg
Single line speed ......................... 84m/min (at the 4th layer)
Wire rope: Dia. x length ............... 12.5mm x 131m
Hook block .................................. 3 sheaves
Hook speed .................................. 6-part line: 14m/min (at the 4th layer)

HOIST—AUXILIARY WINCH

Hydraulic motor driven; power up, down and free fall; spur gear speed reduction; foot brake

Single line pull ......................... 750kg
Single line speed ......................... 160m/min (at the 2nd layer)
Wire rope: Dia. x length ............... 9.0mm x 105m
Hook block ......................... Single sheave
Hook speed ......................... 2-part line: 80m/min (at the 2nd layer)

HYDRAULIC SYSTEM:

Hydraulic pump: Dual-tandem gear pump
Hydraulic motors: Axial plunger types for winch and swing

SAFETY DEVICES:

• Load meter • Load indicator • Overwinding alarm device
• Tipping warning device • Hook safety latch • Over-front indicator device • Hydraulic safety valves for check and holding

Note: All crane function speeds are based on no load conditions.
“BOOMS THAT ZOOM”

TADANO TS-100L HYDRAULIC CRANE

WORKING RANGES

TOTAL RATED LOADS

<table>
<thead>
<tr>
<th>Working radius</th>
<th>9.0m</th>
<th>12.5m</th>
<th>16.0m</th>
<th>Elevation angle</th>
<th>+8.15m jib</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0m</td>
<td>10,000</td>
<td>8,500</td>
<td>7,000</td>
<td>75°</td>
<td>1,500</td>
</tr>
<tr>
<td>3.3m</td>
<td>10,000</td>
<td>8,500</td>
<td>7,000</td>
<td>70°</td>
<td>1,500</td>
</tr>
<tr>
<td>3.5m</td>
<td>9,800</td>
<td>8,500</td>
<td>7,000</td>
<td>65°</td>
<td>1,300</td>
</tr>
<tr>
<td>4.2m</td>
<td>8,500</td>
<td>7,400</td>
<td>6,000</td>
<td>60°</td>
<td>1,200</td>
</tr>
<tr>
<td>4.5m</td>
<td>7,700</td>
<td>6,900</td>
<td>6,000</td>
<td>55°</td>
<td>1,100</td>
</tr>
<tr>
<td>5.0m</td>
<td>6,900</td>
<td>5,800</td>
<td>5,000</td>
<td>50°</td>
<td>1,000</td>
</tr>
<tr>
<td>6.0m</td>
<td>5,300</td>
<td>4,800</td>
<td>5,000</td>
<td>45°</td>
<td>850</td>
</tr>
<tr>
<td>7.0m</td>
<td>4,300</td>
<td>4,400</td>
<td>4,300</td>
<td>40°</td>
<td>750</td>
</tr>
<tr>
<td>8.0m</td>
<td>3,500</td>
<td>3,600</td>
<td>3,600</td>
<td>30°</td>
<td>550</td>
</tr>
<tr>
<td>8.5m</td>
<td>3,100</td>
<td>3,300</td>
<td>3,300</td>
<td>20°</td>
<td>450</td>
</tr>
<tr>
<td>10.0m</td>
<td>2,400</td>
<td>2,400</td>
<td>2,400</td>
<td>10°</td>
<td>400</td>
</tr>
<tr>
<td>12.0m</td>
<td>1,700</td>
<td>1,800</td>
<td>1,800</td>
<td>0°</td>
<td>400</td>
</tr>
<tr>
<td>14.0m</td>
<td>1,300</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.5m</td>
<td>1,100</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

NOTES
1. Total rated loads shown in the table above are based on the condition that the crane is set on firm, horizontal ground. Those above the bold lines are based on crane strength; those below, on crane stability.
2. Each rating includes the weight of hooks (120kg for main hook and 60kg for auxiliary hook) and slings.
3. The total rated loads below the bold lines do not exceed 75% of tipping.
4. For free-fall operation, loads should be no more than 1/3 of the total rated loads.

DIMENSIONS

<table>
<thead>
<tr>
<th>Chassis Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G (Front)</th>
<th>H (Rear)</th>
<th>I</th>
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<tbody>
<tr>
<td>NISSAN DIESELTK20LCL</td>
<td>10,695</td>
<td>2,480</td>
<td>3,285</td>
<td>5,100</td>
<td>3,775</td>
<td>1,820</td>
<td>1,940</td>
<td>1,860</td>
<td>Max. 16,000</td>
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<tr>
<td>MITSUBISHI T331L</td>
<td>10,695</td>
<td>2,480</td>
<td>3,320</td>
<td>4,900</td>
<td>3,915</td>
<td>1,880</td>
<td>2,000</td>
<td>1,825</td>
<td>Min. 9,000</td>
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<td>HINO KB222</td>
<td>10,695</td>
<td>2,480</td>
<td>3,400</td>
<td>4,900</td>
<td>3,935</td>
<td>1,880</td>
<td>1,900</td>
<td>1,840</td>
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<tr>
<td>ISUZU TD72L</td>
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<td>2,480</td>
<td>3,310</td>
<td>4,950</td>
<td>3,885</td>
<td>1,880</td>
<td>1,980</td>
<td>1,820</td>
<td></td>
</tr>
</tbody>
</table>

All dimensions are approximate.

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