HERE'S BIG OUTPUT FROM JUMBO LIFTCRANE

KATO
NK-75
FULLY-HYDRAULIC TRUCK CRANE

RATED CAPACITY.......................... 75,000kg
MAX. BOOM LENGTH (INCL. JIB)............. 58m
(MAIN BOOM + JIB BOOM)
43m + 15m
MAX. LIFT HEIGHT.......................... 59m

Time-proven exclusive features of the broad KATO line of materials handling equipments and construction machines have been combined in this all-new, world's biggest KATO Hydraulic Truck Crane Model NK-75. It is designed to give you unsurpassed performance...performance that will give you higher production and lower maintenance costs for a far greater profit on any type of extra-heavy lifts.
FEATURES THAT MAKE THE KATO NK-75 A BETTER INVESTMENT FOR EVER OWNER

EXTRA-HEAVY LIFTS AT ALL RADII GREATER STABILITY!

UPPER MACHINERY

- DIESEL ENGINES
  200 and 330 net horsepower diesel engines for crane and carrier give smooth power flow with less fuel consumption.

- POWER-LOAD LOWERING DEVICE
  Power load lowering device provides high and low speeds to permit smooth, safe lowering of load for precise pay-out control.

- BOOM AND JIB Extension
  Boom made in four sections and jib extension are all-welded, low-stress steel frames of full box construction. They are hydraulically extended and retracted by means of three control levers ... independently of other functions.

- OUTRIGGERS
  Four outriggers, two on each side of carrier chassis, provide added stability for swinging capacity loads on rough ground.

- FOLDING JIB EXTENSION
  Jib extension is folded underneath the boom for moves between jobs. It can readily be set to working position by means of a pin.

- OPERATOR'S CAB
  Cut-back front of the cab permits the operator to see every inch of the boom every minute. All windows use shatter-proof safety glass. All controls are conveniently grouped within easy reach of the operator. Contour seat is comfortably padded for maximum body support all day long.

- BOOM OVERHOIST ALARM DEVICE
  Boom overhoist alarm device prevents the unit from tipping, as is often possible when the boom is overhoisted.
### MAX. ALLOWABLE LOADS

<table>
<thead>
<tr>
<th>Working radius (m)</th>
<th>13-meter boom</th>
<th>20-meter boom</th>
<th>27-meter boom</th>
<th>33-meter boom</th>
<th>43-meter boom</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Over side and over rear</td>
<td>Over side and over rear</td>
<td>Over side and over rear</td>
<td>Over side and over rear</td>
<td>Over side and over rear</td>
</tr>
<tr>
<td>3.5</td>
<td>75.0</td>
<td>42.0</td>
<td>30.0</td>
<td>20.0</td>
<td>11.0</td>
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<tr>
<td>4.0</td>
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<td>42.0</td>
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<td>4.5</td>
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<td>11.0</td>
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<td>32.4</td>
<td>27.3</td>
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<td>11.0</td>
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<tr>
<td>6.0</td>
<td>38.0</td>
<td>29.7</td>
<td>25.3</td>
<td>19.0</td>
<td>11.0</td>
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<tr>
<td>6.5</td>
<td>34.8</td>
<td>27.4</td>
<td>23.5</td>
<td>19.0</td>
<td>11.0</td>
</tr>
<tr>
<td>7.0</td>
<td>32.0</td>
<td>25.3</td>
<td>22.0</td>
<td>17.7</td>
<td>11.0</td>
</tr>
<tr>
<td>8.0</td>
<td>27.0</td>
<td>22.0</td>
<td>19.2</td>
<td>16.0</td>
<td>11.0</td>
</tr>
<tr>
<td>9.0</td>
<td>23.4</td>
<td>19.0</td>
<td>16.8</td>
<td>14.4</td>
<td>11.0</td>
</tr>
<tr>
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<td>20.0</td>
<td>16.8</td>
<td>15.0</td>
<td>13.0</td>
<td>11.0</td>
</tr>
<tr>
<td>10.5</td>
<td>18.2</td>
<td>15.7</td>
<td>14.0</td>
<td>12.2</td>
<td>10.5</td>
</tr>
<tr>
<td>11.0</td>
<td>16.0</td>
<td>14.6</td>
<td>13.2</td>
<td>11.7</td>
<td>10.0</td>
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<td>12.9</td>
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<td>9.3</td>
</tr>
<tr>
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<td>10.0</td>
<td>10.0</td>
<td>9.3</td>
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<td>7.0</td>
</tr>
<tr>
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<td>7.5</td>
<td>7.2</td>
<td>6.7</td>
<td>6.6</td>
<td>5.9</td>
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<tr>
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<td>5.5</td>
</tr>
<tr>
<td>18.0</td>
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<td>5.3</td>
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<td>5.5</td>
</tr>
<tr>
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<td>4.8</td>
<td>4.8</td>
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<tr>
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<td>3.0</td>
<td>2.9</td>
<td>2.9</td>
<td>3.7</td>
<td>3.7</td>
</tr>
<tr>
<td>23.0</td>
<td>2.6</td>
<td>2.4</td>
<td>2.4</td>
<td>3.3</td>
<td>3.3</td>
</tr>
<tr>
<td>24.0</td>
<td>2.0</td>
<td>1.9</td>
<td>1.9</td>
<td>2.9</td>
<td>2.9</td>
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<tr>
<td>26.0</td>
<td>1.3</td>
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<td>2.2</td>
<td>2.2</td>
<td>2.2</td>
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<tr>
<td>27.0</td>
<td>0.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>28.0</td>
<td>0.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>30.0</td>
<td>0.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
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<tr>
<td>31.0</td>
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<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### MAX. ALLOWABLE LOADS FOR JIB EXTENSION

<table>
<thead>
<tr>
<th>Main boom angle (deg.)</th>
<th>With outriggers Over side and over rear</th>
<th>With outriggers Over side and over rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.2 meter jib</td>
<td>8.2</td>
<td>6.0</td>
</tr>
<tr>
<td>offset angle: 5°</td>
<td>8.0</td>
<td>6.0</td>
</tr>
<tr>
<td>15-meter jib</td>
<td>7.8</td>
<td>4.9</td>
</tr>
<tr>
<td>offset angle: 5°</td>
<td>7.6</td>
<td>4.3</td>
</tr>
<tr>
<td></td>
<td>7.4</td>
<td>3.7</td>
</tr>
<tr>
<td></td>
<td>7.2</td>
<td>3.2</td>
</tr>
<tr>
<td></td>
<td>7.0</td>
<td>2.8</td>
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<tr>
<td></td>
<td>6.7</td>
<td>2.2</td>
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<tr>
<td></td>
<td>6.4</td>
<td>1.6</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>5.6</td>
<td>0.7</td>
</tr>
</tbody>
</table>

### NOTES

1. Max. allowable loads shown above are the guaranteed values with the machine on firm level ground and include the weight of hook. They are based on the use of outriggers fully extended, without using the jib extension. The working radii are the actual values including the deflection of the boom and, hence, it is dangerous to exceed these radii.

2. Weights of Hooks

<table>
<thead>
<tr>
<th>Hook</th>
<th>75-ton hook</th>
<th>45-ton hook</th>
<th>25-ton hook</th>
<th>13-ton hook</th>
<th>6-ton hook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>700</td>
<td>400</td>
<td>300</td>
<td>230</td>
<td>150</td>
</tr>
</tbody>
</table>

3. When extending or retracting, or raising or lowering the boom, or when swinging the machine, be sure to use the outriggers.

4. When using the main boom, do not exceed 31 meter radius.

5. When using the 2nd and 3rd booms, manipulate the levers in such a manner as to extend or retract them equally. Do not work with any one of these booms extended and the other retracted.

6. When using the 4th boom, extend the boom up to 43 meters.

7. When using the main hook with the jib extension set at position, deduct 2,500 kg from the max. allowable loads shown above. When the jib extension is folded in position, deduct the weights shown below from the max. allowable loads:

<table>
<thead>
<tr>
<th>Boom</th>
<th>13-meter boom</th>
<th>20-meter boom</th>
<th>27-meter boom</th>
<th>33-meter boom</th>
<th>43-meter boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>500</td>
<td>400</td>
<td>300</td>
<td>200</td>
<td>100</td>
</tr>
</tbody>
</table>

8. Do not lower the boom below 40° when it is fully extended, or below 55° when the jib extension is used.

9. The number of parts of rope recommended for the respective boom lengths are as follows:

<table>
<thead>
<tr>
<th>Boom length (m)</th>
<th>13</th>
<th>13~20</th>
<th>20~27</th>
<th>27~33</th>
<th>43</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of parts of rope</td>
<td>12</td>
<td>7</td>
<td>5</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

10. Determination of the minimum number of parts of rope must be based on the fact that 6,250 kg load is applied to each rope during operation.

11. Any claim due to a failure to work within the max. allowable loads will not be accepted.
CRANE RANGE

The values shown below do not include deflection of boom.

HEIGHT ABOVE GROUND (m)

RADIUS FROM CENTER OF ROTATION (m)

- 43m boom
- 43m boom + 15m jib
- 43m boom + 10.2m jib
- 33m boom
- 27m boom
- 20m boom
- 13m boom

10°, 20°, 30°, 40°, 50°, 56°, 60°
# Crane Specifications

**Model:** KATO NK-75

## Performance

**Capacities**
- 75t x 3.5m: 13m boom
- 11t x 10.0m: 43m boom
- With outriggers, over side and over rear

**Boom lengths**
- 13m (standard boom)
- 43m (maximum boom)

**Jib length**
- 10.2~15m (adjustable in two steps)

**Hoist rope speeds**
- Main and auxiliary drums
- High speed: 50m/min.
- Low speed: 25m/min.
- (w/power load lowering device)

**Heights above ground**
- 43.8m
- 50m (w/16m jib)

**Swing speed**
- 1.5 rpm

**Travel speed**
- 57 km/h

**Propell system**
- 8 x 4

**Minimum turning radius**
- 12m

**Gradeability**
- 0.271 (sin θ)

## Dimensions

- **Overall length:** 15,210mm
- **Overall width:** 3,400mm
- **Overall height:** 3,880mm

## Hydraulic system

- **No. of oil pumps:** 4
- **No. of hoist motors:** 1
- **No. of swing motors:** 1
- **Control valve:** Multiple-spool type, automatic-manual
- **Cylinder x no.:** Double-acting x 13
- **Hydraulic tank capacity:** 1,300 liters

## Prime movers

**Crane**
- **Model:** Mitsubishi 8DC20C
- **Type:** Water-cooled, 4-stroke cycle, V, 8-cylinder diesel
- **Maximum output:** 200 HP/2,000 rpm
- **Continuous rated output:** 170 HP/2,000 rpm

**Carrier**
- **Model:** Mitsubishi 8DC2-T
- **Type:** Water-cooled, 4-stroke cycle, V, 8-cylinder diesel
- **Maximum output:** 330 HP/2,300 rpm

## Safety devices

- Overhoist alarm device, drum tacho meter, drum lock device, boom angle indicator, outrigger locking device, oil pressure safety valve.

*These specifications are subject to change without notice.*
main products

- FULLY-HYDRAULIC TRUCK CRANE
  - NK-36 (36 t)
  - NK-20 (20 t)
  - NK-15 (15 t)
- TRUCK CRANE
  - NK-5 (4.9 t)
  - 35HB (36 t)
- STREET SWEEPER & HI-VAC
- EARTH DRILL 50TH
- FULLY-HYDRAULIC SHOVEL-EXCAVATOR
  - HD-750 (0.75 m³)
KATO WORKS CO., LTD.

HEAD OFFICE: No. 9-37, 1 chome, Higashi Ohi, Shinagawa-ku, Tokyo, Japan Tel: 471-8111
FOREIGN DEPARTMENT: The 17th Mori Bldg., Shiba Nishikubo Sakuragawa-cho 2, Minato-ku, Tokyo, Japan Tel: 591-5111
CABLE ADDRESS: CRANEKATO TOKYO
TELEX: 0 222-4519 (CRANEKATO TOK)