# TRUCK CRANE

## TL-200M

### JAPANESE SPECIFICATIONS

<table>
<thead>
<tr>
<th>CARRIER MODEL</th>
<th>OUTLINE</th>
<th>SPEC. NO.</th>
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<tbody>
<tr>
<td>NISSAN DIESEL KC-KW460MN</td>
<td>Jib which swings from and stores under the boom</td>
<td>TL-200M-5-10101</td>
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<tr>
<td>MITSUBISHI KC-KV207M</td>
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<td>TL-200M-5-20101</td>
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Control No. JA-01
### TL-200M

#### CRANE CAPACITY

<table>
<thead>
<tr>
<th>Boom Length</th>
<th>Capacity</th>
<th>Max. Load</th>
<th>Boom Extension</th>
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<tbody>
<tr>
<td>9.8m</td>
<td>20,000kg</td>
<td>3.5m</td>
<td>7 part-line</td>
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<tr>
<td>13.3m</td>
<td>17,500kg</td>
<td>4.0m</td>
<td>7 part-line</td>
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<td>31.0m</td>
<td>6,000kg</td>
<td>7.5m</td>
<td>4 part-line</td>
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<tr>
<td>8.0m Jib</td>
<td>2,750kg</td>
<td>75</td>
<td>1 part-line</td>
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</table>

**MAX. LIFTING HEIGHT**

| Boom  | 30.9m |
| Jib   | 38.7m |

**MAX. WORKING RADIUS**

| Boom  | 29.4m |
| Jib   | 32.7m |

**BOOM LENGTH**

9.8m – 31.0m

**BOOM EXTENSION**

21.2m

**BOOM EXTENSION SPEED**

21.2m/95s

**JIB LENGTH**

8.0m

**MAIN WINCH SINGLE LINE SPEED**

- High range: 110m/min (4th layer)
- Low range: 59m/min (4th layer)

**MAIN WINCH HOOK SPEED**

- High range: 15.7m/min (7 part-line)
- Low range: 8.4m/min (7 part-line)

**AUXILIARY WINCH SINGLE LINE SPEED**

- High range: 95m/min (2nd layer)
- Low range: 50m/min (2nd layer)

**AUXILIARY WINCH HOOK SPEED**

- High range: 50m/min (1 part-line)
- Low range: 50m/min (1 part-line)

**BOOM ELEVATION ANGLE**

-3° – 80°

**BOOM ELEVATION SPEED**

-3° – 80°/48s

**SWING ANGLE**

360°

**SWING SPEED**

2.4rpm

**WIRE ROPE**

- **Main Winch**
  - 16mm x 170m (Diameter x Length)
  - Spin-resistant wire rope
- **Auxiliary Winch**
  - 16mm x 85m (Diameter x Length)
  - Spin-resistant wire rope

**BOOM**

- 4-section hydraulically telescoping boom of box construction (stage 2: sequential; stages 3,4: synchronized)
- 2 double-acting hydraulic cylinders
- 1 wire rope type telescoping device

**JIB**

- Single stage which swings from and stores under the boom
- Dual offset (5° – 30°) type

**SINGLE TOP**

- Single sheave. Mounted to main boom head for single line work.

**HOIST**

- Driven by hydraulic motor and via planetary gear reducer.
- With free-fall device.
- Automatic brake (with foot brake for free-fall device)
- 2 single winches
- With flow regulator valve with pressure compensation

**BOOM ELEVATION**

- 1 double-acting hydraulic cylinder
- With flow regulator valve with pressure compensation

**SWING**

- Hydraulic motor driven planetary gear reducer
- Swing bearing
- Swing free/lock changeover type
- Hand brake

**OUTRIGGERS**

- Fully hydraulic H-type (floats mounted integrally)
- Slides and jacks each provided with independent operation device.
- Fully extended width 6.1m
- Middle extended width 4.0m
- Minimum extended width 2.08m

**FRONT JACK**

- Hydraulic type

**MAX. VERTICAL LOAD CAPACITY OF OUTRIGGER**

25.0t

**HYDRAULIC PUMPS**

- 4 variable gear pumps

**HYDRAULIC OIL TANK CAPACITY**

306 liters

**SAFETY DEVICES**

- Automatic moment limiter (AML)
- With working range limiting function
- Working area control device
- Outrigger extension automatic detector
- Over-winding cutout device
- Level gauge
- Hook safety latch
- Winch drum lock
- Swing lock
- Hydraulic safety valve
- Telescopic counterbalance valve
- Elevation counterbalance valve
- Jack pilot check valve
- Front jack over load alarm
- Front jack grounding automatic detector

**EQUIPMENT**

- Boom angle indicator
- Oil cooler
- Crane cab heater
- Radio
- Fan
MANUFACTURER
NISSAN DIESEL MOTOR CO., LTD.

CARRIER MODEL
KC-KW460MN

ENGINE
Model: PG6
Type: 4-cycle, V6-cylinder, direct-injection, water-cooled diesel engine
Piston displacement: 13,337cc
Max. output: 235PS at 2,100rpm
Max. torque: 85kg.m at 1,300rpm

CLUTCH
Dry single-plate coil spring type
With hydraulic air assistance

TRANSMISSION
6-forward and 1-reverse speeds
Constant-mesh gear (1st speed, reverse)
Synchronized-mesh gear (2nd – 6th speeds)

REDUCER
Hypoid gear type

FRONT AXLE
Reverse-elliot type I-beam

REAR AXLE
Full-floating type

SUSPENSION
Front: Semi-elliptic leaf spring type
With shock absorber
Rear: Equalizer beam type

STEERING
Recirculating ball screw type
With linkage power assistance

BRAKE SYSTEM
Service Brake
2-circuit air type 6-wheel internal expanding brake
Parking Brake
Mechanically operated, internal expanding duo-servo shoe type acting on drum at transmission case rear.
Auxiliary Brake
Electro-pneumatic operated exhaust brake

ELECTRIC SYSTEM
24 V DC. 2 batteries of 12V~115F51 (96Ah)

FUEL TANK CAPACITY
200 liters

CAB
Two-man type

TIRES
Front: 11.00-20-16PR
Rear: 10.00-20-14PR

STANDARD EQUIPMENT
Car heater
Car radio

DIMENSIONS
Overall length: 11,800mm
Overall width: 2,490mm
Overall height: 3,300mm
Wheel base: 4,050mm + 1,300mm = 5,350mm
Tread: Front 2,025mm, Rear 1,860mm

WEIGHTS
Gross vehicle weight: Total 23,590kg
Front: 6,550kg, Rear: 17,040kg

PERFORMANCE
Max. traveling speed: 70km/h
Gradeability (\(\tan \beta\)): 0.34
Min. turning radius: 8.5m
**CARRIER SPECIFICATIONS**

**MANUFACTURER**
MITSUBISHI MOTOR CORPORATION

**CARRIER MODEL**
KC-KV207M

**ENGINE**
Model: 6D24  
Type: 4-cycle, V6-cylinder, direct-injection, water-cooled diesel engine  
Piston displacement: 11,945cc  
Max. output: 240PS at 2,200rpm  
Max. torque: 85.0kg-m at 1,400rpm

**CLUTCH**
Dry single-plate coil spring type  
With hydraulic air assistance

**TRANSMISSION**
6-forward and 1-reverse speeds  
Constant-mesh gear (1st speed, reverse)  
Synchronized-mesh gear (2nd – 6th speeds)

**REDUCER**
Hypoid gear type

**FRONT AXLE**
Reverse-elliot type I-beam

**REAR AXLE**
Full-floating type

**SUSPENSION**
Front: Semi-elliptic leaf spring type  
With shock absorber  
Rear: Equalizer and torque rods

**STEERING**
Recirculating ball screw type  
Integral power steering

**BRAKE SYSTEM**
Service Brake  
2-circuit air type 6-wheel internal expanding brake  
Parking Brake  
Mechanically operated, internal expanding duo-servo shoe type acting on drum at transmission case rear  
Auxiliary Brake  
Electro-pneumatic operated exhaust brake

**ELECTRIC SYSTEM**
24 V DC. 2 batteries of 12V – 115F51 (96Ah)

**FUEL TANK CAPACITY**
200 liters

**CAB**
Two-man type

**TIRES**
Front: 11.00-20-16PR  
Rear: 10.00-20-14PR

**STANDARD EQUIPMENT**
Car heater  
Car radio

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**GENERAL DATA**

**DIMENSIONS**
Overall length: 11,800mm  
Overall width: 2,490mm  
Overall height: 3,300mm  
Wheel base: 4,050mm + 1,300mm = 5,350mm  
Tread:  
Front: 2,040mm  
Rear: 1,845mm

**WEIGHTS**
Gross vehicle weight: 23,590kg  
Total:  
Front: 6,555kg  
Rear: 17,035kg

**PERFORMANCE**
Max. traveling speed: 70km/h  
Gradeability (\(\tan \theta\)): 0.38  
Min. turning radius: 9.5m
### TOTAL RATED LOADS

Unit: ton

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<th>B</th>
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<th>13.3m</th>
<th>16.9m</th>
<th>20.4m</th>
<th>23.9m</th>
<th>27.5m</th>
<th>31.0m</th>
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<th>31.0m Boom + 8.0m Jib</th>
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<table>
<thead>
<tr>
<th>A= Boom length</th>
<th>B= Working radius</th>
<th>C= Jib length</th>
<th>D= Jib offset</th>
<th>E= Boom angle</th>
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(for the unladen condition)
<table>
<thead>
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<th>A</th>
<th>9.8m</th>
<th>13.3m</th>
<th>16.9m</th>
<th>20.4m</th>
<th>23.9m</th>
<th>27.5m</th>
<th>31.0m</th>
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Over the sides : Outriggers minimum extended (2.08m)

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>9.8m</th>
<th>13.3m</th>
<th>16.9m</th>
<th>20.4m</th>
<th>23.9m</th>
<th>27.5m</th>
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<tr>
<td>3.0m</td>
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<td>4.65</td>
<td>4.85</td>
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<tr>
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<td>2.55</td>
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<td>3.00</td>
<td>3.05</td>
<td>3.15</td>
<td></td>
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<tr>
<td>7.0m</td>
<td>2.20</td>
<td>2.00</td>
<td>1.80</td>
<td>2.10</td>
<td>2.25</td>
<td>2.30</td>
<td>2.40</td>
<td></td>
</tr>
<tr>
<td>8.0m</td>
<td>1.50</td>
<td>1.35</td>
<td>1.20</td>
<td>1.55</td>
<td>1.75</td>
<td>1.80</td>
<td>1.90</td>
<td></td>
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<tr>
<td>9.0m</td>
<td>0.85</td>
<td>0.70</td>
<td>1.05</td>
<td>1.25</td>
<td>1.30</td>
<td>1.45</td>
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</tr>
</tbody>
</table>

Over the front : Outriggers minimum extended (2.08m)

<table>
<thead>
<tr>
<th>C</th>
<th>31.0m Boom + 8.0m Jib</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>5 □ □</td>
</tr>
<tr>
<td>E ( □ )</td>
<td>B (m)</td>
</tr>
<tr>
<td>80</td>
<td>7.8</td>
</tr>
<tr>
<td>78</td>
<td>9.0</td>
</tr>
<tr>
<td>77</td>
<td>9.7</td>
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<td>75</td>
<td>11.0</td>
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<td>70</td>
<td>14.0</td>
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<tr>
<td>65</td>
<td>16.9</td>
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</tbody>
</table>

Unit:ton

A= Boom length
B= Working radius
C= Jib length
D= Jib offset
E= Boom angle
□ = Boom angle range
(for the unladen condition)
NOTES:
1. The total rated loads shown are for the case where the outriggers are set horizontally on firm level ground. The values above the bold lines are based on the crane strength while those below are based on the crane stability.
2. The weights of the slings and hooks (main hook: 230kg, auxiliary hook: 60kg) are included in the total rated loads shown.
3. Since the working radii are based on the actual values including the deflection of the boom, operations should be performed in accordance with the working radii.
4. Jib operations should be performed in accordance with the boom angle, irrespective of the boom length. The working radii are reference values for the case where the jib is mounted to a 31.0m boom.
5. Mark $\varnothing$ in the chart of total rated loads shows the boom elevation angle with no load.
6. The chart below shows the standard number of part lines for each boom length. The load per line should not exceed 2.9t for the main winch and 3.0 for the auxiliary winch.

<table>
<thead>
<tr>
<th>A</th>
<th>9.8m</th>
<th>13.3m</th>
<th>16.9m</th>
<th>20.4m</th>
<th>23.9m</th>
<th>27.5m</th>
<th>31.0m</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>1</td>
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</tbody>
</table>

A= Boom length  H= No. of part-lines  J= Jib/Single top

7. As a rule, free-fall operations should be performed only for lowering the hook alone. If a hoisted load must be lowered by free-fall operation, the load must be kept below 1/5 of the total rated load (the load per line must be 0.6t or less) and sudden braking operations must be avoided.
8. The total rated load for the single top shall be the value obtained by subtracting the weight of the hook mounted to the boom from the total rated load of the boom and must not exceed 3.0t.
NOTES:
1. The deflection of the boom is not incorporated in the figure above.
2. The above chart is for the case where the outriggers are fully extended and where the front jacks are used (over 360°).
DIMENSIONS