TRUCK CRANE

TG-800M

JAPANESE SPECIFICATIONS

<table>
<thead>
<tr>
<th>CARRIER MODEL</th>
<th>OUTLINE</th>
<th>SPEC. NO.</th>
</tr>
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<tbody>
<tr>
<td>NISSAN DIESEL K-KG51V</td>
<td>5-section Boom, 2-stage Jib</td>
<td>TG-800M-1-10101</td>
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</tbody>
</table>

Control No. JA-03
TG-800M

CRANE SPECIFICATIONS

MAXIMUM TOTAL RATED LOAD
Boom 12.0m  80,000kg
    18.0m  45,000kg
    24.0m  36,000kg
    30.0m  27,000kg
    36.0m  22,000kg
    40.0m  18,000kg
    44.0m  12,000kg
    Jib  9.5m  5,000kg
    Jib  15.0m  3,000kg
    Single top 0.74m  5,000kg
    (13 part-line)
    ( 7 part-line)
    ( 6 part-line)
    ( 6 part-line)
    ( 4 part-line)
    ( 4 part-line)
    ( 4 part-line)
    ( 1 part-line)
    ( 1 part-line)
    ( 1 part-line)

MAX. LIFTING HEIGHT
Boom 44.2m
    Jib 58.7m

MAX. WORKING RADIUS
Boom 36.0m
    Jib 34.0m

BOOM LENGTH
12.0m – 44.0m

BOOM EXTENSION
32.0m

BOOM EXTENSION SPEED
32.0m / 145s

JIB LENGTH
9.5m, 15.0m

MAIN WINCH SINGLE LINE SPEED
High range: 104m/min (4th layer)
Low range: 52m/min (4th layer)

MAIN WINCH HOOK SPEED
(13 part-line)
High range: 8.0m/min (4th layer)
Low range: 4.0m/min (4th layer)

AUXILIARY WINCH SINGLE LINE SPEED
High range: 104m/min (2nd layer)
Low range: 52m/min (2nd layer)

AUXILIARY WINCH HOOK SPEED
(1 part-line)
High range: 104m/min (2nd layer)
Low range: 52m/min (2nd layer)

BOOM ELEVATION ANGLE
-1° – 80°

BOOM ELEVATION SPEED
-1° – 80° / 45s

SWING ANGLE
360° continue

SWING SPEED
1.6 rpm

WIRE ROPE
Main Winch
Spin-resistant type
22mm × 240m (Diameter × Length)
Auxiliary Winch
Spin-resistant type
20mm × 175m (Diameter × Length)

BOOM
5-section hydraulically telescoping boom of box construction.
(2nd – 4th sections: synchronized; 5th section: sequential).

BOOM EXTENSION
4 double-acting hydraulic cylinder

JIB
2-staged swingaround boom extensions.
(2nd stage: pull-out type)
Dual (5°, 30°) offset

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

HOIST
Driven by hydraulic motor and via helical gear speed reducer.
Power load lowering / free-fall lowering type
2 single winches

BOOM ELEVATION
2 double-acting hydraulic cylinders

SWING
Hydraulic motor driven planetary gear reducer
Swing bearing
Hand brake
Oil lock type

OUTRIGGERS
Fully hydraulic H-type
Slides and jacks each provided with independent operation device.
Full extended width 7.5m

ENGINE FOR CRANE
Model PE6 diesel engine
Type 4-cycle, in-line, direct-injection, water-cooled diesel engine.
Piston Displacement 11,670cc (6-133 × 140)
Max. Output 200PS at 2,200rpm
Max. Torque 73kg·m at 1,200rpm

HYDRAULIC PUMPS
2 high pressure variable piston pumps and 1 high pressure gear pump

HYDRAULIC OIL TANK CAPACITY
985 liters

SAFETY DEVICES
Automatic moment limiter
- Moment display
- Load display
- Total rated load display
- Boom angle display
- Boom length display
- Max. lifting height display
- Working radius display

Over-windng cutout
Level gauge
Over front area control device
Hook safety latch
Winch drum lock
Swing brake
Hydraulic safety valve
Elevation counterbalance valve
Telescopic counterbalance valve
Jack pilot check valve

EQUIPMENTS
Oil cooler
Hydraulic oil temperature gauge
Boom angle indicator
Crane cab heater 2,200Kcal/H
Boom dismount device
Swing frame dismount device
CARRIER SPECIFICATIONS

MANUFACTURER
NISSAN DIESEL MOTOR CO., LTD

CARRIER MODEL
K-KGS14

ENGINE
Model RD8
Type 4-cycle V8-cylinder, direct-injection, water-cooled diesel engine
Piston displacement 14,313cc
Max. output 300PS at 2,500rpm
Max. torque 100kg·m at 1,400rpm

CLUTCH
Dry single-plate type

TRANSMISSION
Type Constant-mesh gear (5-stage speed, reverse)
Gear ratios 1st speed 5.706 2nd speed 3.216
3rd speed 1.871 4th speed 1.000
5th speed 0.732 Reverse 5.376

REDUCER
Type 2-stage speed reduction type
Final drive 10.710

FRONT AXLE
Elliot-type steering knuckle

REAR AXLE
Full floating, cast torque rods

SUSPENSION
Front Equalizer and torque rods
Rear Equalizer and torque rods

STEERING
Recirculating ball screw type

BRAKE SYSTEM
Service Brake
2-circuit air brake, 8-wheels internal expanding brake
Parking Brake Mechanically operated, duo-servo shoe type acting on drum at transmission case rear.
Auxiliary Brake Electro-pneumatic operated exhaust brake

ELECTRIC SYSTEM
2 batteries of 12V (120Ah)

FUEL TANK CAPACITY
300 liters

CAB
Two-man type

TIRES
Front 14.00-20-20
Rear 14.00-20-20

STANDARD EQUIPMENTS
Car heater
Car radio

GENERAL DATA

DIMENSIONS (On-site travel)
Overall length 15,520mm
Overall width 3,320mm
Overall height 3,880mm
Wheel base 1,470mm + 4,060mm + 1,470mm = 7,000mm
Tread Front 2,650mm
Rear 2,480mm

WEIGHTS (CARRIER ONLY)
Gross vehicle weight Total 28,610kg
Front 9,680kg
Rear 18,930kg

PERFORMANCE (CARRIER ONLY)
Max. traveling speed 65km/h
Gradeability (tan 6) 0.42
Min. turning radius (Outermost wheel) 11.9m
# TOTAL RATED LOADS

## (1) Extra weight specifications

### (i) BOOM

<table>
<thead>
<tr>
<th>B (m)</th>
<th>12.0m</th>
<th>18.0m</th>
<th>24.0m</th>
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### JIB

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### NOTES:

1. The total rated loads shown are for the case when the outriggers are set horizontally on firm ground. The values are based on the crane strength.
2. The weights of slings and hooks (905kg for a 80 ton capacity hook, 525kg for a 45 ton capacity hook and 140kg for a 5 ton capacity hook) are included in the total rated loads shown.
3. The total rated load is based on the actual working radius including the deflection of the boom.
4. The number of part lines for each boom length should not exceed the values below. The load per line should not exceed 6.43t for the main winch and 5t for the auxiliary winch.

### A = Boom length  
### B = Working radius  
### C = Jib length  
### D = Jib offset  
### E = Boom angle

<table>
<thead>
<tr>
<th>A</th>
<th>12.0m</th>
<th>18.0m</th>
<th>24.0m</th>
<th>30.0m</th>
<th>36.0m</th>
<th>40.0m</th>
<th>44.0m</th>
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<tbody>
<tr>
<td>H</td>
<td>18</td>
<td>17</td>
<td>16</td>
<td>16</td>
<td>14</td>
<td>14</td>
<td>14</td>
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</table>

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

5. The total rated loads for free-fall operations is 1/5 of the total rated loads given above. The load per line should not exceed 1.28t for the main winch and 1.0t for the auxiliary winch.

6. The total rated load for the single top is the same as that of the main boom and must not exceed 5 tons. However, when hooks, slings, etc. are mounted on the main boom, one should work with the total rated load obtained by subtracting the weights of the hooks, slings, etc. mounted on the main boom from the total rated load of the main boom.

7. The values above are for the case when the extra weight is mounted.

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- 214 -
## (1) Extra weight specifications

### (ii)

<table>
<thead>
<tr>
<th>B (m)</th>
<th>Outriggers fully extended (Over front)</th>
<th>Without outriggers (Over rear)</th>
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<tbody>
<tr>
<td></td>
<td>12.0 m BOOM</td>
<td>18.0 m BOOM</td>
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</table>

B = Working radius

### NOTES:

1. The total rated loads shown are for the case when the crane is set horizontally on firm ground. All values are based on the crane stability. The foundation, working conditions, etc. should be taken into consideration adequately when performing crane operations according to the total rated load chart for the case when the outriggers are not used (Over rear).

2. The weights of slings and hooks (905kg for a 80 ton capacity hook, 525kg for a 45 ton capacity hook and 140kg for a 5 ton capacity hook) are included in the total rated loads shown.

3. The total rated load is based on the actual working radius including the deflection of the boom.

4. The number of part lines for each boom length should not exceed the values below. The load per line should not exceed 6.43t for the main winch and 5t for the auxiliary winch.

### A

<table>
<thead>
<tr>
<th>A</th>
<th>12.0 m</th>
<th>18.0 m</th>
<th>24.0 m</th>
<th>30.0 m</th>
<th>36.0 m</th>
<th>40.0 m</th>
<th>44.0 m</th>
<th>Single top</th>
</tr>
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<tbody>
<tr>
<td>H</td>
<td>13</td>
<td>7</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>4</td>
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</table>

A = Boom length  H = No. of part-line

5. The total rated loads for free-fall operations is 1/5 of the total rated loads given above. The load per line should not exceed 1.28t for the main winch and 1.0t for the auxiliary winch.

6. The total rated load for the single top is the same as that of the main boom and must not exceed 5 tons. However, when hooks, slings, etc. are mounted on the main boom, one should work with the to rated load obtained by subtracting the weights of the hooks, slings, etc. mounted on the main boom from the total rated load of the main boom.

7. The values above are for the case when the extra weight is mounted.
(2) Standard weight specifications

(i)  

<table>
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<th>BOOM</th>
<th>Unit : ton</th>
<th>JIB</th>
<th>Unit : ton</th>
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<tbody>
<tr>
<td>Outriggers fully extended (Over rear · Over sides)</td>
<td></td>
<td>Outriggers fully extended (Over rear · Over sides)</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>12.0 m</td>
<td>18.0 m</td>
<td>24.0 m</td>
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<td>B (m)</td>
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NOTES:  
1. The total rated loads shown are for the case when the outriggers are set horizontally on firm ground. The values are based on the crane capacity.  
2. The weights of slings and hooks (905kg for a 80 ton capacity hook, 525kg for a 45 ton capacity hook and 140kg for a 5 ton capacity hook) are included in the total rated loads shown.  
3. The total rated load is based on the actual working radius including the deflection of the boom.  
4. The number of part lines for each boom length should not exceed the values below. The load per line should not exceed 6.43t for the main winch and 5t for the auxiliary winch.  
5. The total rated loads for free-fall operations is 1/5 of the total rated loads given above. The load per line should not exceed 1.28t for the main winch and 1.0t for the auxiliary winch.  
6. The total rated load for the single top is the same as that of the main boom and must not exceed 5 tons. However, when hooks, slings, etc. are mounted on the main boom, one should work with the to rated load obtained by subtracting the weights of the hooks, slings, etc. mounted on the main booms from the total rated load of the main boom.
## (2) Standard weight specifications

(ii) Unit: ton

<table>
<thead>
<tr>
<th>B (m)</th>
<th>Outriggers fully extended (Over front)</th>
<th>Without outriggers (Over rear)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12.0 m BOOM</td>
<td>18.0 m BOOM</td>
</tr>
<tr>
<td>3.2</td>
<td>60.0</td>
<td>60.0</td>
</tr>
<tr>
<td>3.5</td>
<td>60.0</td>
<td>60.0</td>
</tr>
<tr>
<td>4.0</td>
<td>60.0</td>
<td>60.0</td>
</tr>
<tr>
<td>4.5</td>
<td>60.0</td>
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<tr>
<td>5.0</td>
<td>56.0</td>
<td>56.0</td>
</tr>
<tr>
<td>5.5</td>
<td>50.0</td>
<td>50.0</td>
</tr>
<tr>
<td>6.0</td>
<td>45.0</td>
<td>36.0</td>
</tr>
<tr>
<td>6.5</td>
<td>39.0</td>
<td>36.0</td>
</tr>
<tr>
<td>7.0</td>
<td>32.5</td>
<td>33.1</td>
</tr>
<tr>
<td>7.5</td>
<td>27.7</td>
<td>28.6</td>
</tr>
<tr>
<td>8.0</td>
<td>23.9</td>
<td>24.4</td>
</tr>
<tr>
<td>9.0</td>
<td>18.3</td>
<td>18.9</td>
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<tr>
<td>10.0</td>
<td>14.1</td>
<td>15.0</td>
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<tr>
<td>11.0</td>
<td>12.1</td>
<td>12.3</td>
</tr>
<tr>
<td>12.0</td>
<td>10.0</td>
<td>10.2</td>
</tr>
<tr>
<td>14.0</td>
<td>6.5</td>
<td>7.0</td>
</tr>
<tr>
<td>16.0</td>
<td>4.6</td>
<td>4.9</td>
</tr>
<tr>
<td>18.0</td>
<td>3.1</td>
<td>3.2</td>
</tr>
</tbody>
</table>

B = Working radius

**NOTES:**

1. The total rated loads shown are for the case when the crane is set horizontally on firm ground. All values are based on the crane stability. The foundation, working conditions, etc. should be taken into consideration adequately when performing crane operations according to the total rated load chart for the case when the outriggers are not used (Over rear).

2. The weights of slings and hooks (905kg for a 80 ton capacity hook, 525kg for a 45 ton capacity hook and 146kg for a 5 ton capacity hook) are included in the total rated loads shown.

3. The total rated load is based on the actual working radius including the deflection of the boom.

4. The number of part lines for each boom length should not exceed the values below. The load per line should not exceed 6.43t for the main winch and 5t for the auxiliary winch.

<table>
<thead>
<tr>
<th>A</th>
<th>12.0 m</th>
<th>18.0 m</th>
<th>24.0 m</th>
<th>30.0 m</th>
<th>36.0 m</th>
<th>40.0 m</th>
<th>44.0 m</th>
<th>Single top</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>18</td>
<td>7</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

A = Boom length  H = No. of part-line

5. The total rated loads for free-fall operations is 1/5 of the total rated loads given above. The load per line should not exceed 1.28t for the main winch and 1.0t for the auxiliary winch.

6. The total rated load for the single top is the same as that of the main boom and must not exceed 5 tons. However, when hooks, slings, etc. are mounted on the main boom, one should work with the total rated load obtained by subtracting the weights of the hooks, slings, etc. mounted on the main boom from the total rated load of the main boom.
NOTES:
1. The deflection of the boom is not incorporated in the figure above.
2. The figure above is for the case when the outriggers are fully extended (Over rear or sides of the carrier).
3. The area in the figure above indicates the case when the extra weight is mounted.
TRUCK CRANE

TG-800M
Optional Jib

JAPANESE SPECIFICATIONS

These specifications are for the optional jib for the TG-800M type crane. Refer to these specifications along with specification sheet no. TG-800M-1-10101.

Control No. TG-800M-25MJ-01
TG-800M

CRANE SPECIFICATIONS

JIB
3-stage jib (stages 2,3: Standard jib)

JIB LENGTH
1-stage 10.0m
2-stage 10.0m + 9.5m (Standard jib)
3-stage 10.0m + 15.0m (Standard jib)

JIB OFFSET
5° (1st stage) + 5° 30" (2nd, 3rd stages)

MAXIMUM TOTAL RATED LOAD
10.0m Jib 7,000kg (2 part-line)
10.0m + 9.5m Jib 4,000kg (1 part-line)
10.0m + 15.0m Jib 2,500kg (1 part-line)

MAX. LIFTING HEIGHT
67.9m

MAX. WORKING RADIUS
38.4m

WINCH SINGLE LINE SPEED
High range: 104m/min (2nd layer)
Low range: 52m/min (2nd layer)

WINCH HOOK SPEED
High range: 52m/min (2 part-line)
Low range: 26m/min (2 part-line)
High range: 104m/min (1 part-line)
Low range: 52m/min (1 part-line)

WIRE ROPE
Main Winch
20mm × 175m (Diameter × Length)
Spin-resistant wire rope

HOOK
7t hook (for 2 part-line)
5t hook (Standard) (for 1 part-line)

WEIGHT
Approx. 965kg (Body of 1st-stage jib only)
## TOTAL RATED LOADS

<table>
<thead>
<tr>
<th>E (°)</th>
<th>C</th>
<th>10.0 m JIB</th>
<th>10.0 m + 9.5 m JIB</th>
<th>10.0 m + 15.0 m JIB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D</td>
<td>5°</td>
<td>5° + 5°</td>
<td>5° + 30°</td>
</tr>
<tr>
<td>80</td>
<td>7.00</td>
<td>4.00</td>
<td>2.10</td>
<td>2.50</td>
</tr>
<tr>
<td>79</td>
<td>7.00</td>
<td>3.80</td>
<td>2.10</td>
<td>2.50</td>
</tr>
<tr>
<td>78</td>
<td>7.00</td>
<td>3.60</td>
<td>2.10</td>
<td>2.40</td>
</tr>
<tr>
<td>77</td>
<td>6.65</td>
<td>3.45</td>
<td>2.05</td>
<td>2.30</td>
</tr>
<tr>
<td>75</td>
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<td>72</td>
<td>5.00</td>
<td>2.75</td>
<td>1.80</td>
<td>1.95</td>
</tr>
<tr>
<td>70</td>
<td>4.50</td>
<td>2.45</td>
<td>1.70</td>
<td>1.80</td>
</tr>
<tr>
<td>68</td>
<td>4.00</td>
<td>2.20</td>
<td>1.60</td>
<td>1.65</td>
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<tr>
<td>65</td>
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<td>1.45</td>
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<tr>
<td>62</td>
<td>2.60</td>
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<tr>
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<td>2.05</td>
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<td></td>
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<tr>
<td>58</td>
<td>1.55</td>
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</tr>
<tr>
<td>55</td>
<td>0.95</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C = Jib length  D = Jib offset  E = Boom angle

**NOTES:**
1. The total rated loads shown are for the case when the outriggers are set horizontally on firm 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 slings and hooks (270kg for a 7 ton capacity hook, 140kg for a 5 ton capacity hook) are included in the total rated loads shown.
3. The number of part lines for each boom length should not exceed the values below. The load per line should not exceed 5.0t.

<table>
<thead>
<tr>
<th>C</th>
<th>10.0 m</th>
<th>10.0 m + 9.5 m</th>
<th>10.0 m + 15.0 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

C = Jib length  H = No. of part-line

4. The total rated loads for free-fall operations is 1/5 of the total rated loads given above. The load per line should not exceed 1.0t.
NOTES:
1. The deflection of the boom is not incorporated in the figure above.
NOTES:
1. The deflection of the boom is not incorporated in the figure above.