

TRUCK CRANE

TL-250M

TL

JAPANESE SPECIFICATIONS

CARRIER MODEL	OUTLINE	SPEC. NO.
NISSAN DIESEL W-KG510SN	4-section Boom 2-staged swingaround boom extension which stores below boom base section	TL-250M-4-10101
MITSUBISHI W-KS303R		TL-250M-4-20101

Control No. JA-01

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CARRIER SPECIFICATIONS

MANUFACTURER
 NISSAN DIESEL MOTOR CO., LTD

CARRIER MODEL
 W-KG5105N

ENGINE
 Model RE8
 Type 4-cycle, in-line 8-cylinder, direct-injection water-cooled diesel engine

Piston displacement 15,115cc
 Max. output 295PS at 2,200rpm
 Max. torque 105kg-m at 1,400rpm

CLUTCH
 Dry single-plate coil spring type

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 steel pipe cross section

REAR AXLE
 Full floating, cast torque rods

SUSPENSION
 Front Laminated leaf spring type
 Rear Equalizer and torque rods

STEERING
 Reduculating ball screw type with linkage power assistance

BRAKE SYSTEM

Service Brake
 2-circuit hydro-pneumatic type, 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
 24 V DC, 2 batteries of 12V (120Ah)

FUEL TANK CAPACITY
 200 liters

CAB
 Two-man type

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

STANDARD EQUIPMENTS
 Car heater
 Car radio

GENERAL DATA

DIMENSIONS

Overall length 12,540mm
 Overall width 2,490mm
 Overall height 3,400mm
 Wheel base 1,520mm + 3,530mm + 1,300mm = 6,350mm
 Tread Front 2,030mm
 Rear 1,860mm

WEIGHTS

Gross vehicle weight
 Total 28,340kg
 Front 10,280kg
 Rear 18,060kg

PERFORMANCE

Max. traveling speed 70km/h
 Gradesability (tan θ) 0.37
 Min. turning radius 10.2m

TOTAL RATED LOADS

(1)

Unit: ton

• Outriggers fully extended + Front jack (360°) • Outriggers fully extended (Over the Rear • Over the Sides)							
A B (m)	10.5m	14.2m	18.0m	21.7m	25.5m	29.2m	33.0m
3.0	25.00	20.00	16.00				
3.5	25.00	20.00	16.00	12.00			
4.0	22.00	20.00	16.00	12.00	11.50		
4.5	21.00	20.00	16.00	12.00	11.50		
5.0	19.40	18.40	16.00	12.00	11.50	9.00	
5.5	17.70	18.80	14.75	12.00	11.50	9.00	7.00
6.0	16.20	15.30	13.70	12.00	11.50	9.00	7.00
7.0	13.70	12.65	11.05	11.00	10.00	9.00	7.00
8.0	11.40	10.65	10.55	10.20	8.90	8.20	7.00
9.0		8.85	8.75	9.20	8.05	7.45	6.25
10.0		7.20	7.10	7.60	7.30	6.75	5.70
12.0		6.00	4.90	5.25	5.60	5.65	4.80
14.0			3.50	3.85	4.15	4.30	4.10
16.0			2.50	2.85	3.15	3.30	3.40
18.0				2.15	2.40	2.55	2.65
20.0				1.60	1.85	2.00	2.10
22.0					1.40	1.55	1.65
24.0						1.20	1.30
26.0						0.90	1.00
28.0							0.75
30.0							0.50

A = Boom length B = Working radius

(2)

Unit:ton

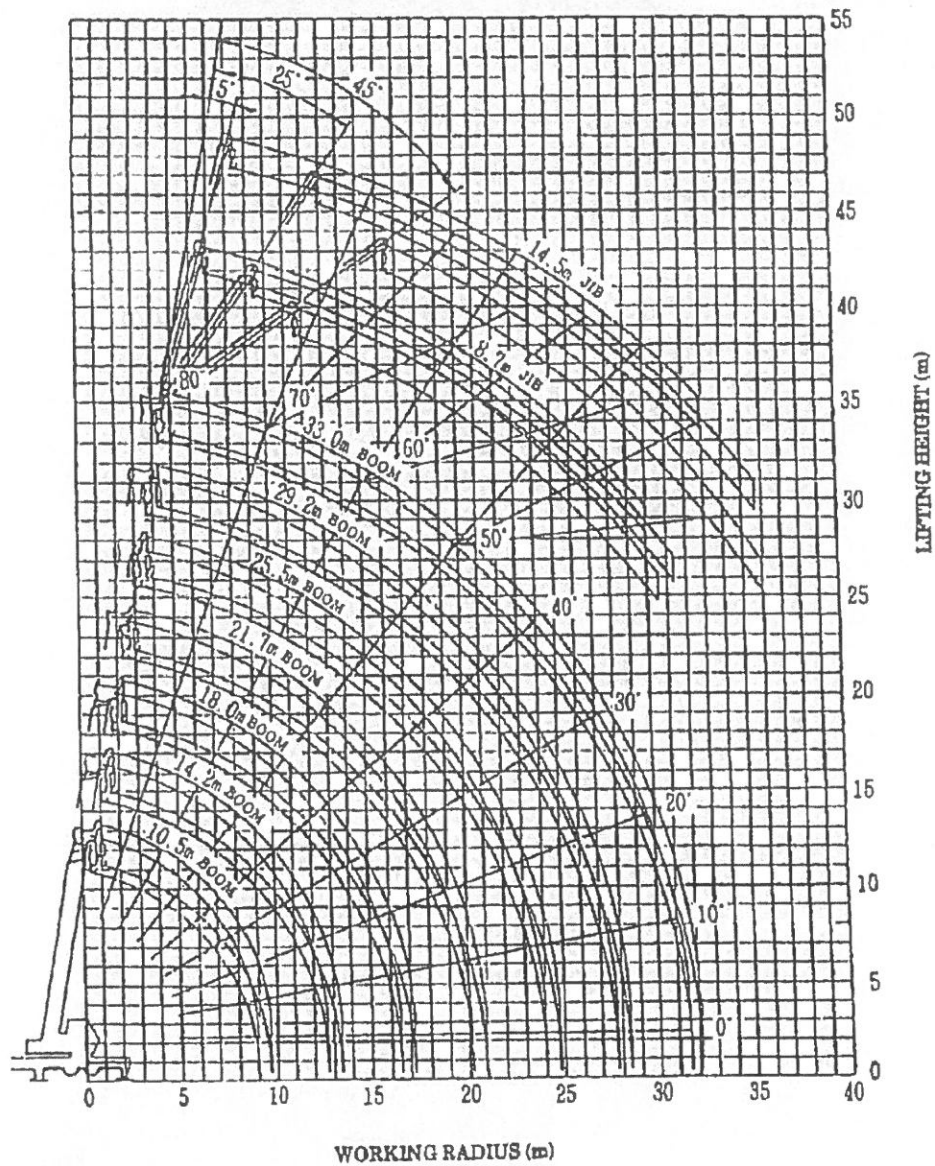
• Outriggers middle extended (360°) • Outriggers fully extended (Over the Front)							
A B(m)	10.6 m	14.2 m	18.0 m	21.7 m	25.5 m	29.2 m	33.0 m
3.0	25.00	20.00	16.00				
3.5	23.00	20.00	16.00	12.00			
4.0	20.00	20.00	16.00	12.00	11.50		
4.5	17.40	17.20	16.00	12.00	11.50		
5.0	14.00	13.80	13.60	12.00	11.50	9.00	
5.5	11.65	11.45	11.30	11.70	11.60	9.00	7.00
6.0	9.85	9.70	9.60	10.00	10.40	9.00	7.00
6.5	8.45	8.30	8.20	8.60	9.00	9.00	7.00
7.0	7.95	7.20	7.10	7.50	7.85	8.05	7.00
7.5	6.40	6.30	6.20	6.60	6.85	7.15	7.00
8.0	5.65	5.55	5.45	5.85	6.15	6.35	6.50
9.0		4.95	4.25	4.65	4.85	5.10	5.25
10.0		3.40	3.30	3.70	3.95	4.10	4.35
12.0		2.00	1.95	2.30	2.55	2.80	2.90
14.0			1.05	1.40	1.65	1.85	2.00
15.0			0.70	1.05	1.35	1.50	1.65
16.0				0.80	1.05	1.20	1.35
17.0					0.75	0.95	1.10
18.0						0.75	0.90

Unit:ton

• Outriggers middle extended (360°) • Outriggers fully extended (Over the Front)						
C D E (°)	8.7 m			14.5 m		
	5°	25°	45°	5°	25°	45°
80	3.00	1.70	1.00	2.00	0.90	0.60
77	3.00	1.70	1.00	2.00	0.90	0.60
76	3.00	1.70	1.00	1.85	0.90	0.60
75	2.85	1.67	0.96	1.74	0.87	0.57
70	1.45	1.15	0.86	1.10	0.80	0.53
66	0.80	0.65	0.60	0.60	0.45	0.35
65	0.85	0.55	0.50	0.60		

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

WORKING RADIUS - LIFTING HEIGHT



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 jack are used (over 360°).