TS

TRUCK CRANE

TS-75M TS-75ML

JAPANESE SPECIFICATIONS

OUTLINE	SPEC. NO.
Max. total rated load 4.9 ton	TS-75M-1-00001
Max. total rated load 7.0 ton	TS-75M-1-00002

Control No. JA-04

TS-75ML, TS-75M

CRANE SPECIFICATIONS

CRANE CAPACITY

6.6m Boom 7,000kg at 2.5m (6 part-line) ... TS-75ML 4,900kg at 3.5m (4 part-line) ··· TS-75M

11.5m Boom 4,900kg at 3.5m (4 part-line) 16.4m Boom 3,900kg at 3.5m (4 part-line) 21.3m Boom 2,000kg at 5.0m (4 part-line) Single top 1,300kg (1 part-line)

MAX. LIFTING HEIGHT

Boom 21.3m Single top 21.8m

MAX. WORKING RADIUS Boom 20.5m

20.5m Single top

BOOM LENGTH 6.6m - 21.3m

BOOM EXTENSION

14 7m

BOOM EXTENSION SPEED

14.7m / 32s

MAIN WINCH SINGLE LINE SPEED

High range: Low range:

100m/min

(4th layer) 50m/min (4th layer)

MAIN WINCH HOOK SPEED

(TS-75ML)

High range: Low range:

Low range:

16.7m/min 8.3m/min (6 part-line) (6 part-line)

(TS-75M)

High range:

25m/min

(4 part-line) (4 part-line)

AUXILIARY WINCH SINGLE LINE SPEED

High range:

12.5m/min 84m/min

42m/min

(2nd layer)

Low range:

42m/min (2ndlayer)

AUXILIARY WINCH HOOK SPEED High range: 84m/min

Low range:

(1 part-line) (1 part-line)

BOOM ELEVATION ANGLE

-7° - 80°

BOOM ELEVATION SPEED

-7° - 80° / 26s

SWING ANGLE

360° continue

SWING SPEED

2.7rpm

WIRE ROPE

Main Winch 10mm ×115m(Diameter × Length)

7×7+6×Fi(29)

Spin-resistant wire rope

Auxiliary Winch

10mm × 50m (Diameter × Length)

 $7\times7+6\times$ WS(36)

Spin-resistant wire rope

BOOM

4-section fully hydraulically synchronized telescoping boom

of box construction.

BOOM EXTENSION

1 double-acting hydraulic cylinder 2 wire rope type telescoping device

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

HOIST

Driven by hydraulic motor and via spur gear speed reducer.

With free-fall device.

Automatic brake (with foot brake for free-fall device)

1-motor 2-axle 2-drum winch

BOOM ELEVATION

1 double-acting hydraulic cylinders

SWING

Hydraulic motor driven planetary gear reducer

Swing bearing

Automatic brake

OUTRIGGERS

Fully hydraulic type; front: H-type; rear: X-type

Full extended width

4.4m 3.0m

Middle extended width MAX. OUTRIGGER LOAD

FRONT JACK

Hydraulic operated type

HYDRAULIC PUMPS

3 gear pumps

HYDRAULIC OIL TANK CAPACITY

115 liters

SAFETY DEVICES

Automatic moment limiter (AML)

With working range limiting function

Working area control device Over-winding cutout

Level gauge

Hook safety latch

Hydraulic safety valve

Telescopic counterbalance valve

Elevation counterbalance valve

Jack pilot check valve

Front jack over load alarm

EQUIPMENTS

Crane cab heater Radio

Fan

Boom angle indicator

GENERAL DATA

MOUNTING CARRIERS (representative examples) NISSAN U-CM87B MITSUBISHI U-FK415ED HINO U-FD3WDAD ISUZU U-FRR32DB

DIMENSIONS
(may differ according to type of mounting carrier)
Overall length
Overall width
Approx. 2,200mm

Overall length
Overall width
Overall height
Overall height
Overall height
Overall height

WEIGHT

Gross vehicle weight Approx. 7,950kg

TOTAL RATED LOADS

Unit:ton

	Outriggers fully extended	+ Front jack	(360°)
•	Outriggers fully extended	(Over rear · C)ver sides)

	· ·		1	
A B (m)	6.6 т	11.5 m	16.4 m	21.3 m
2. 0	(4. 90) 7. 00			
2, 5	(4. 90) 7. 00			
3. 0	(4. 90) 6. 10	4. 90		
3, 5	(4. 90) 5. 30	4. 90	3. 90	
4. 0	4. 55	4.50	3. 60	
4.5	3. 75	3, 85	3. 30	2, 00
5. 0	3. 15	3, 25	3, 05	2.00
5. 5	2. 70	2. 80	2. 80	1.85
6.0	2, 35	2. 45	2. 45	1. 70
7. 0		1.90	1. 95	1. 45
8.0		1, 55	1.55	1. 25
9. 0		1. 25	1. 30	1. 10
10.0		1.05	1. 10	0. 95
10.9		0. 90	0. 90	0. 90
12.0			0. 75	0. 78
13.0			0. 65	0.70
14.0			0. 55	0.60
15.0			0.45	0.52
15.8			0.40	0.45
17.0				0. 37
18.0				0. 31
19. 0				0. 25
20.0				0. 20
20. 5				0. 17

Outriggers middle extended (360°)
Outriggers fully extended (Over front)

A B (m)	6.6 m	11.5 m	16.4 m	21.3 m	
2.0	(4. 90) 7. 00				
2. 5	(4. 90) 7. 00				
3. 0	(4. 90) 5. 20	4: 90			
3.5	3. 5 3. 80		3. 50		
4.0	2. 90	3. 00	2. 80		
4.5	2, 20	2. 40	2. 40	2.00	
5.0	1. 80	1. 95	1. 95	1.80	
5. 5	1. 40	1. 60	1. 60	1.65	
6.0	1. 10	1. 35	1. 35	1.40	
7.0		0. 95	0, 95	1.00	
8. 0		0.70	0. 70	0. 75	
9. 0		0. 50	0.50	0. 55	
10.0		0. 35	0. 35	0.40	
10. 9		0. 25	0. 25	0.30	

A = Boom length

B = Working radius

NOTES:

- 1. Values within () are for the TS-75M type.
- 2. 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.
- 3. The weights of the slings and hooks (main winch hook: 65kg, auxiliary winch hook: 20kg) are included in the total rated loads shown.
- 4. The total rated load is based on the actual working radius including the deflection of the boom.
- 5. Subtract 50kg from the value in the chart for the total rated load of the boom with a single top set.
- 6. The chart below shows the standard number of part lines for each boom length. The load per line should not exceed 1.23t for the main winch and 1.30t for the auxiliary winch.

A 6.6m		11.5m 16.4m		21.3m	Single top
H	6 (4)	4	4	4	1

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

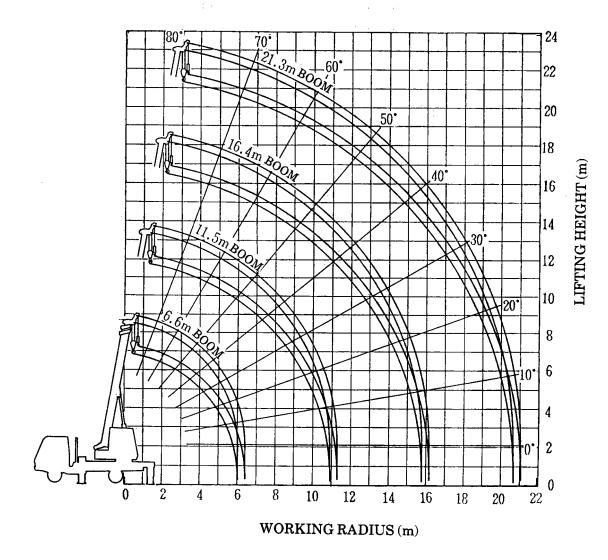
Values within () are for TS-75M.

- 7. As a rule, free-fall operations should be performed only when lowering the hook alone. If a hoisted load must be lowered by free-fall operation, the load must be kept below 1/5th of the total rated load (the load per line must be 0.26t) and sudden braking operations must be avoided.
- 8. The total rated loads for the single top are obtained by subtracting the corresponding values below from the total rated load of the boom and must not exceed 1.30t.

A	6. 6m	11.5m	16.4m	21. 3m
Q	0 kg	30 kg	40 kg	50 kg

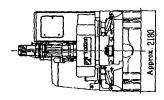
A = Boom length Q = Subtracted load

WORKING RADIUS - LIFTING HEIGHT



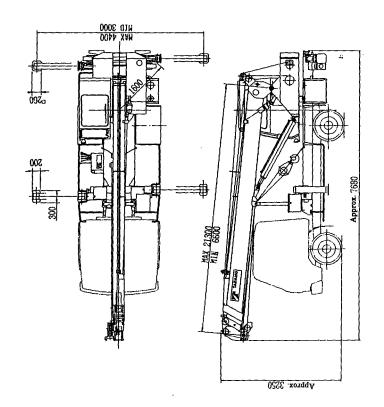
NOTES:

- 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°).



DIMENSIONS (1/100)

May differ according to type of mounting carrier.





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