SPEC. SHEET No. TM-30Z-4-002/EX-01 [TM-ZR303]
SPEC. SHEET No. TM-30Z-4-302/EX-01 [TM-ZR303(H)]
DATE February, 1999

TADANO CARGO CRANE

CRANE SPECIFICATIONS

CRANE CAPACITY 3,030 kg at 2.6 m (4-part lines) BOOM 3-sectioned, fully hydraulic telescoping boom of pentagonal box construction Retracted length.....3.27 m Extended length.....7.7 m Extending speed.....4.43 m / 12 s Elevation Elevated by a double-acting hydraulic cylinder Elevating speed......1° to 78° / 7.5 s Hydraulic motor driven WINCH Spur gear speed reduction, provided with mechanical brake Single line pull..... 7.45 kN{760 kgf} Single line speed.....76 m/min (at 4th layer) Wire rope diameter × length..... $8 \text{ mm} \times 51 \text{ m}$ breaking strength...43.1 kN{4.39 tf} construction....... $7 \times 7 + 6 \times WS(26)$ Hook block...... 2 sheaves

HOOK STOWING DEVICE [TM-ZR303(H) only]

Mechanically stowed beneath boom top portion

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<u>SWING</u> Hydraulic motor driven Worm gear speed reduction Continuous

360° full circle swing on ball bearing slew ring

Automatic swing lock

OUTRIGGERS Manually extended sliders and hydraulically extended jacks

Integral with crane frame Power up and down

Extended width......Min. 2,000 mm

Mid. 2,700 mm

Max. 3,400 mm

<u>HYDRAULICS</u> Hydraulic pump......Single gear pump

Hydraulic motors..... Axial piston type for winch

Axial piston type for swing

Control valves......Multiple control valves with integral

safety valve

SAFETY DEVICES Load meter

Load indicator

Over-winding alarm

Hoisting limiter [TM-ZR303(H) only]

P. T. O indicator lamp

Hook safety latch

Hydraulic safety valves, check valves and holding valves

Level gauge

<u>CRANE MASS</u> Approx. 1,125 kg (includes standardized mounting parts)

NOTE: Operating speeds of the crane are guaranteed under the

condition that the pump delivery is 60 L/min.

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RATED LIFTING CAPACITIES IN KIROGRAMS

A B	3.27 m 5.5 m	A B	7.7 m
2.6 m and below	3, 030	2.7 m and below	2, 330
3.0 m	2, 480	3.2 m	2,030
3.5 m	2,030	3.5 m	1, 780
4.0 m	1,730	4.0 m	1, 480
4.5 m	1,530	4.5 m	1, 280
5.0 m	1, 330	5.0 m	1, 130
5.3 m	1, 280	5.5 m	1,030
		6.0 m	930
		6.5 m	830
		7.0 m	730
		7.5 m	680

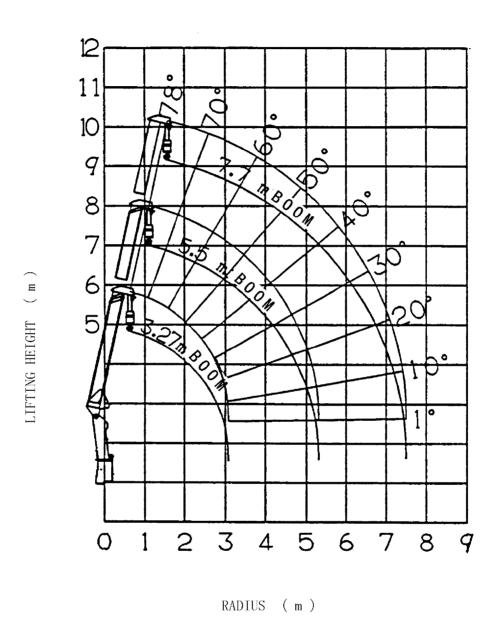
A : Boom length
B : Load radius

NOTES:

- 1. The mass of the hook (30 kg), slings and all similarly used load handling devices must be added to the mass of the load.
- 2. The above numerical values of rated lifting capacities are based on crane strength only.

The rated lifting capacities based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.

WORKING RANGE



NOTE:

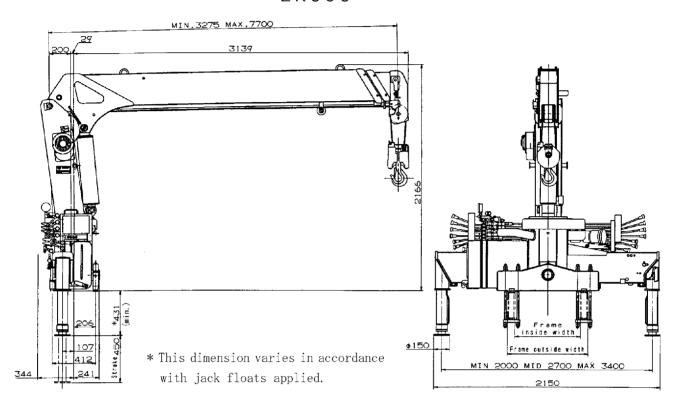
The above lifting heights and boom angles are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions.

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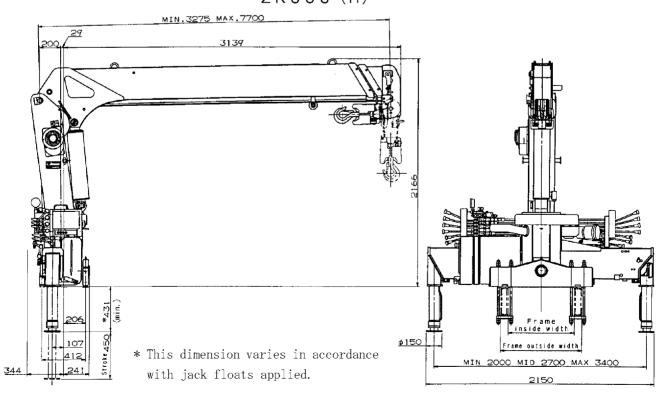
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DIMENSIONS

ZR303



ZR303 (H)



GENERAL DATA FOR SUITABLE TRUCKS