

TADAND

TADANO LTD.

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SPECIFICATIONS

MAX. TOTAL RATED				
9.8m boom 16.8m boom 23.8m boom 30.4m boom 30.4m boom + 8.0m	25,000kg at 3m (9-part line) 14,000kg at 5.2m (6-part line) 9,000kg at 6.5m (4-part line) 6,000kg at 74° (3-part line)			
jib	2,500kg at 77° (1-part line)			
BOOM LENGTH	9.8 to 30.4m			
JIB LENGTH	8.0m			
BOOM EXTENSION SPEED	20.6m/110sec			
HOISTING SPEED (Rope speed) Main winch Auxiliary winch	93m/min (max.) 76m/min (max.)			
BOOM ELEVATION SPEED	0° to 80°/67sec			
SWING SPEED	1.8rpm			
WIRE ROPE Main winch Auxiliary winch	Breaking load: 17.6t Structure: 7 x 7 + 6 x Fi (29) Dia. x length: 16mm x 140m Breaking load: 17.6t Structure: 7 x 7 + 6 x Fi (29) Dia x length: 16mm x 85m			
OUTRIGGERS	Fully hydraulic, extended in "H" configuration, provided with pilot check valves Max. extended width: 5,200mm			
HYDRAULIC PUMP	Dual tandem gear type			
воом	Box-construction, four-stage, fully hydraulic telescoping type			
JIB	Side-folded type			
WINCHES	Constant volume type, hydraulic mot driven; spur-gear speed reduction; pov up, down and free fall			
TELESCOPING CYLINDERS	Double-acting hydraulic cylinders and single-acting hydraulic cylinder with counterbalance valves			
ELEVATING CYLINDER	Double-acting hydraulic cylinder with counterbalance valve, push-up type			
SWING GEAR	Hydraulic motor-driven, spur-gear speed reduction, ball bearings.			
SAFETY DEVICES	Electronic moment limiter Load meter Overwinding cut-out device Automatic leveling control Swing brake Hook safety latch Hydraulic safety valves, counterbalar valves, pilot check valves			
CARRIER Model Engine Max. travel speed Gradeability Service brakes Tires	Tadano ZR256 Hino EK100 Diesel engine Max. output: 250PS at 2,300rpm Max. torque: 88kgm at 1,400rpm 65km/h 30% (tan #) Air brakes on all wheels, two circuits, internal expanding type Front: 10.00-20-16PR Rear: 10.00-20-16PR			
DIMENSIONS	Overall length: Approx. 11,920mm Overall width: Approx. 2,490mm Overall height: Approx. 3,600mm			
WEIGHT	Gross vehicle weight: Approx. 27,300kg, excluding operator			

All specifications are subject to change without notice.

TADANO HYDRAULIC CRAN

TL-251

25-ton capacity
38.4-meter outreach
Electronic moment limiter



Operator confidence with safety. Reliability with sure operation. Efficiency with high production.

The mobile hydraulic crane TL-251 is fresh off the production line, but it's tried in performance. More than two decades of Tadano specialization in hydraulic cranes is behind it. The tough TL-251 joins the growing Tadano hydraulic crane lineup that now has a capacity range from 1 to 75 metric tons. Besides its lifting capacity of 25 metric tons and a maximum lifting

height of 38.4 meters, it has high mobility and a fast setup time. And to make it a safer and still more efficient producer, the sturdy TL-251 offers Tadano's unique electronic moment limiter, a four-stage, fully hydraulic boom, a powerful dual winch system, a continuous 360° swing and fully hydraulic outriggers with automatic leveling control.

No crane overloading with electronic moment limiter

- Tadano's electronic moment limiter, the A.M.L., automatically detects operating conditions accurately.
- It detects the combined moment of the load weight and the boom tare weight. At 90% capacity of the total rated loads, it warns the operator with audio and visual alarms, at 100% capacity, it automatically cuts off all critical functions, like boom lowering or extension and load hoisting. The crane, however, can be operated toward a safe direction.
- The A.M.L.'s control accuracy is a high ±5%.

Ideal no-step control of lifting capacities

- Since the A.M.L. automatically shows the operator the limit lifting load for any boom length, ideal continuous control of lifting capacities is possible.
- Only a single lever controls the four-stage, fully hydraulic boom to telescope from 9.8 to 30.4 meters.

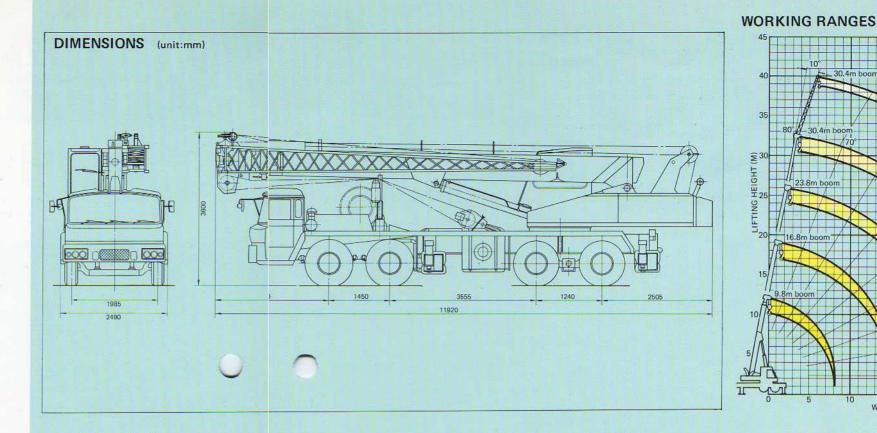
Quick, automatic crane leveling

By simply pushing buttons, Tadano's unique automatic leveling control sets the outriggers and levels the crane within a minute with high control accuracy even on slopes or at rough construction sites.

Time- and manpower-saving, side-folded extension jib

Being the side-folded type, Tadano's extension jib can be quickly erected and fixed by only one person, and without the need to use tension wire rope as you would with cranes of other makes.





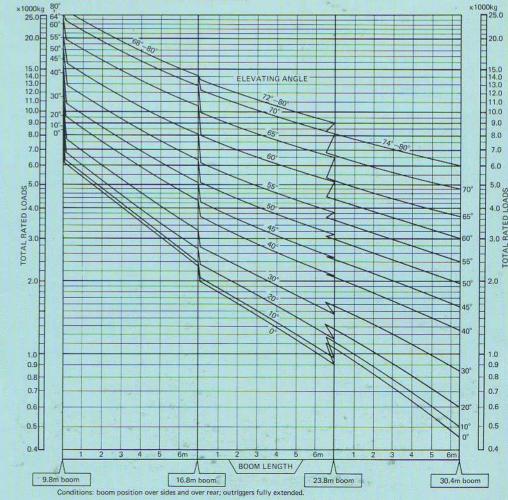
TOTAL RATED LOAD TABLE

UIAL NATE	D LUAD	IADLE				unit: kg		
Outriggers fully ended (over side and rear)								
Boom length Working radius	9.8m	16.8m	3.8m	Boom length Elevation angle	30.4m	+8.0m jib		
3.0m	25,000	14,000	000	80°	6,000	2,500		
3.5m	22,900	14,000	000	77°	6,000	2,500		
4.0m	21,000	14,000	000	74°	6,000	2,300		
4.5m	19,300	1 0	000	70°	4,800	2,000		
5.0m	17,900	14,000	000	65°	3,700	1,600		
5.2m	17,300	14,000	000	60°	3,000	1,300		
6.0m	15,300	12,400	000	55°	2,400	1,100		
6.5m	13,500	11,600	000	50°	1,950	950		
7.0m	11,700	10,900	400	45°	1,550	700		
8.0m	9,100	8,600	300	40°	1,250	450		
9.0m		6,900	500	35°	1,000	300		
10.0m		5,700	800	30°	850			
12.0m		4,000	200	25°	700			
14.0m		2,800	100	20°	600			
15.3m		2,300	600	10°	500			
18.0m			800	0°	450			
20.0m			300					
22.0m			950					

OTES

- The ratings shown in the table above are based the condition that the crane is set on firm ground horizontally. Those above the bold lines are bi on crane strength; those below, on crane stability.
- 2. Total rated loads do not exceed 78% of tippin
- 3. Each rating includes the weight of hooks (280or main hook and 60kg for auxiliary hook)
- Load per line should be less than 2,800kg. Foie-fall operation, loads should be no more than 1/5 of the total rated loads; that is, the load per line ald be less than 500kg.

TOTAL RATED LOADS DIAGRAM



Boom flection is not included