

## Tadano's Wide Product Range for Every Purpose

### TRUCK CRANES

TG



Max. lifting capacity 41 tons - 150 tons

TL



Max. lifting capacity 16 tons - 30 tons

TS



Max. lifting capacity 7 tons - 15 tons

### ROUGH TERRAIN CRANES

TR



Max. lifting capacity 20 tons - 50 tons

### ALL TERRAIN CRANES

AR



Max. lifting capacity 25 tons - 30 tons

### WRECKER CRANE

TW



Max. lifting capacity 10 tons

### TRUCK LOADER CRANES

TM TF



Max. lifting capacity 1 ton - 6 tons

### SELFLOADERS

SL



Payload 10 tons

SS



Payload 2 tons - 3 tons

### "SKYBOY" AERIAL PLATFORMS

AT



Max. floor height: Straight boom type  
13.7 m - 30.0 m  
Folding boom type  
8 m - 9 m

AW



Max. floor height 13 m - 25 m

Tadano offers a wide variety of hydraulic cranes, ranging from versatile truck loader cranes to large, powerful truck-mounted cranes. There are the TG, TL, and TS series truck cranes, the TR series rough terrain cranes, the AR series all terrain cranes, the TW series wrecker crane, the TM and TF series truck loader cranes, the SL and SS series selfloaders, and the AT and AW series "SKYBOY" aerial platforms.

Note: Continuing technical development requires Tadano to retain the right to make specification, equipment and price changes without notice.



## TADANO

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# TADANO ROUGH TERRAIN CRANES TR-300E/250E/200E

TR-300E 33 ton capacity (30 metric tons)

TR-250E 27.6 ton capacity (25 metric tons)

TR-200E 22 ton capacity (20 metric tons)





# ERGONOMIC CAB CONTROLS FOR SAFE AND EFFORTLESS OPERATION

The cab of the Tadano rough terrain cranes has been carefully designed and laid out for superior all-around vision, seating and operating comfort to provide full safety and comfort features.

All operating levers, gauges, instrumentation, and switches are ergonomically arranged within the operator's reach for easy vision and access.

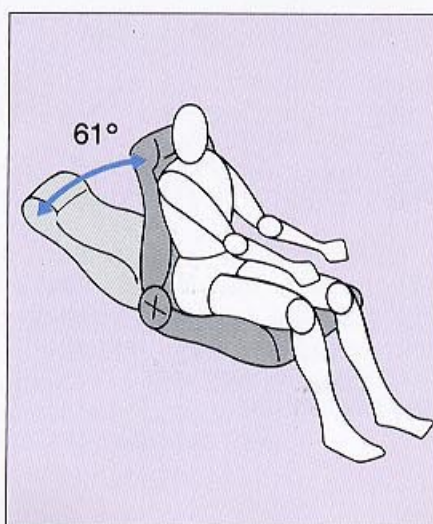
The Tadano Automatic Moment Limiter (AML-US) is a standard feature on all Tadano rough terrain cranes providing an accurate digital display of operating status for enhanced operating safety.

## Clearly recognisable monitor lamps

Easy-to-check monitor lamps are arranged on the front instrumentation panel to give clearly visible readouts of the steer configuration and other important data.



The above picture shows the cab of TR-250E.



## Large-size cab for operator comfort

The cab has been designed with the operator in mind. The sliding door gives easy access to enter and leave the full-vision cab and the large (wiper-mounted) slide-open roof window gives superior ventilation and top vision. The front window has two wipers for travel and operation. The cab is heated by a large-capacity room heater\* with defroster. The reclining high-back driver/operator seat can be adjusted forward or backward to the optimum operating position.

\*Optional



## Tadano's Automatic Moment Limiter (AML-US)

Tadano's latest Moment Limiter is another major step forward in crane safety. Instead of being based on oil pressure, which can be inaccurate, moment input is electrically taken directly at the boom support point and the boom angle is detected in relation to true horizon.

These factors are combined with the boom/extension\* length and outrigger configuration, enabling the unit to monitor and control stepless capacity changes. The Moment Limiter gives a constant LCD readout of moment as a percentage of the safe working load together with boom angle. Furthermore, it provides both audible and visible warnings of approaching overload situations and cuts out the dangerous crane motions of hoist up, telescope out and boom down before overloading occurs.

In addition to the moment and boom angle, when the appropriate request switch is turned on, the unit displays:

- actual hook load
- maximum potential load
- actual working radius
- maximum potential hook height
- actual boom length

Finally, in the event of some operator input error or system defect, the unit again cuts out the dangerous crane motions and displays a code number identifying the error or defect and suggesting the remedy.

Note: Upon destination, local S.L.I. available.



## Overhoist cut-out

A pendant type overhoist cut-out is fitted as standard on all rough terrain crane models.

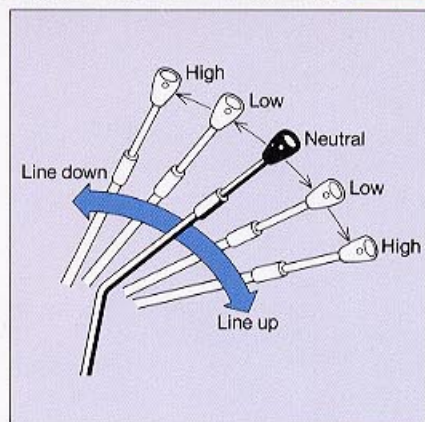
\*Optional





### Efficient two-motor two-drum winch design

Two independently operable winches are mounted so that the main and auxiliary\* drums can be wound separately for independent simultaneous operation without affecting each other. The use of low-speed, high-torque axial piston motors allows easy speed change selection with a single lever between high and low to suit the load being handled without reducing the line pull. The hoist drums are grooved and wider in diameter, thus effectively eliminating off-position winding and increasing rope service life.



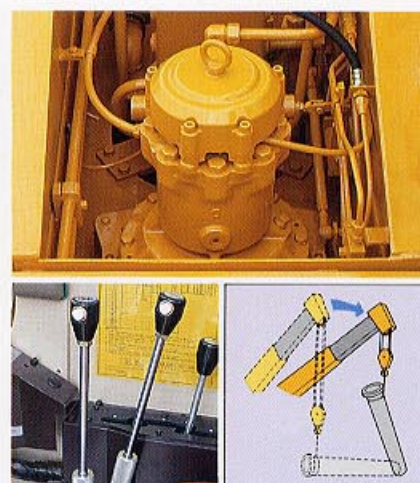
### Convenient winch's Dual system — Automatic fail-safe brake and Free fall operation

During normal operation, Automatic fail-safe brake is applied on the main or auxiliary\* hoist while the winch lever is in the neutral position. Safety is made twice sure by the counterbalance valve. Model TR-300E and TR-250E have Dual system — the main hoist or the optional auxiliary hoist can be switched by hand lever to Free fall operation with a foot brake, which allows the hook to be quickly lowered when the winch lever is in the neutral position.



### High-stability X-type outriggers with permanently attached floats

The double-box X-type outriggers are of extremely stable and sturdy construction, and can be easily set and retracted thanks to the permanently attached floats.



### The unique Tadano "Twin-Swing" feature

For enhanced operating safety and efficiency, the hoist lever has a load follower control that switches over from power-controlled to free swing. This ensures that the hook automatically positions itself under free swing exactly above the load's centre of gravity for safe and mechanically stable hoisting, and effectively eliminates the potential dangers associated with boomhead side-loading.

### Full length power boom

The boom is of sturdy but light weight box construction for optimum rigidity and high resistance to bending. The four-section boom (TR-300E/250E) has two double-acting cylinders with holding valves and wire rope mechanism for sequential and synchronised telescoping. The three-section boom (TR-200E) has two double-acting cylinders with holding valves for sequential telescoping. On either model, operation of a single lever ensures smooth full length power boom extension and retraction. Superior crane performance is achieved thanks to the outstanding lifting height and extension working range.

### Special winch control pump

With the special winch control pump, hydraulic pressure is constantly supplied to maintain the clutch pressure. The result is superior operation with line pressure automatically balanced.



### Powerful boom elevation

Elevation through the entire range is performed by means of a powerful hydraulic cylinder (two hydraulic cylinders for TR-300E) with the total rated loads on the hook. The elevation range is from 0° to 80° (1° to 80° for TR-300E) which facilitates close-in lifting on restricted space construction sites.



### Swingaround extensions\*

Two types of swingaround boom extensions\* are available, the two-stage extension\* (TR-300E) and single-stage extension\* (TR-250E/200E). When erected the unit is offset either 5° or 30° (TR-300E/250E), or offset 10° (TR-200E) from the main boom centre line. The dual offset capability is particularly useful in high-rise construction work where its deep reach can be a major advantage.



### Auxiliary boom sheave\*

An auxiliary boom sheave\* can be mounted to the boomhead to facilitate the high speed lifting of light loads when the extra height of lift provided by the swingaround extension\* is not required. It can also be used at the same time as the main hoist.

