Wide-span outriggers
Both models are outfitted with wide-span, hydraulically operated double-box construction outriggers. There are now three outrigger extension widths to choose from: 7.2m, 7.3m or 8.5m. Each with intermediate widths of 6.7m and 6.9m.

Another prominent feature is the one-side intermediate extended width. When the outrigger on one side of the crane is at maximum extension, that side will have maximum performance. If the outrigger is at intermediate extension, only the one side of the crane will have intermediate performance.

In addition, when the outriggers on both sides are at the fully extended width, the outriggers on the right side will have only be less lifting capacity on the right side when compared to the fully extended width, but front, rear and left-side lifting capacity are the same as with the fully extended width.

Wide-span outriggers with one-side intermediate extended width

Outriggers can be controlled individually or simultaneously at the touch of a button from the cab.
Supremacy in Rough Terrain Cranes

The TR-500EX and TR-400EX represent supremacy in rough terrain cranes. With rock-solid reliability, unparalleled safety features, diverse functions, and rugged good looks, these cranes set the standard in their class.

Easy operation
Unparalleled safety
Excellent cost performance

Tackling the toughest terrain in style

Carrier dimensions

High-power engine
Both the TR-500EX and TR-400EX have a high-power, clean-operating engine fitted with intercooler-equipped turbo charger, delivering a maximum SAE gross output of 184 kilowatts. Such power places these cranes at the top of their class. Importantly, this engine meets stringent exhaust gas restrictions set by the United States Environmental Protection Agency.

Non-spin differential
Front and rear axles are fully floating with planetary reduction and non-spin differential. This is especially important for rough-terrain jobsites, since power is transferred from the wheel that has lost traction to the corresponding wheel on the opposite side.

Three-way power steering
Tadano’s unique three-way power steering is employed to maximize maneuverability. Three steering modes are available: conventional two-wheel front steering, four-wheel crab steering, and four-wheel coordinated steering. In the four-wheel coordinated steering mode, the minimum turning radius is only 6.7 meters.
Automatic Moment Limiter assures maximum safety and comfort

Extensive monitoring
With Tadano's Automatic Moment Limiter (AML), moment input is taken electronically at the boom elevation support point. The boom angle and boom arm length are also monitored. The AML also monitors and controls stepless lifting capacity and provides LCD readouts of such data as boom angle, actual working radius, actual hook load, permissible load, job offset angle, and either boom length or potential hook height.

Real-time response
The AML system shows warnings and error messages on the display to notify the operator in real time. Since malfunctioning areas are identified, trouble-shooting and maintenance time is reduced. The AML display also indicates moment as a percentage (bar graph display); audiovisual warnings of approaching overload situations; and automatic crane motion cutoff, including hoist up, telescope out, and boom down at the 100% level.

External load limits
Red: 100% of capacity
Orange: 90% of capacity

Outperforming the competition

AML

- Mechanical safety features
- Automatic stop and warnings
- Visual backup
- Crane status display
- Self examination
- Error code display

Fully automatic transmission
The three-speed, fully automatic transmission has a switch for changing between high and low range to better meet the most demanding surfaces and steepest inclines. Simply select the "D" transmission setting to automatically engage the slip-matching — and enjoy ultrasmooth.

Oil cooler
A special oil cooler controls oil temperature during extended periods of use, preventing loss of power caused by excessive oil temperature and enhancing overall operating efficiency.

Responsive brake systems
Both models have separate service brake and parking brake systems. The dual-line service brakes on all four wheels are air-over hydraulic disc units, while the parking brake is a spring-operated air-released brake. A exhaust brake has been added to the braking system to enhance braking performance when descending steep grades.

Full-vision cab
The cab has been designed with operator comfort and safety firmly in mind. The operator's seat can be adjusted three ways, and has a high back, with headrest and seatbelt. Covered with automotive upholstery, it remains cool to touch, even in the hottest weather. The steering wheel has tilt and telescopic adjustment and can be positioned to suit virtually any operator. Tinted safety glass is used for all cab windows to block out harsh heat and ultraviolet rays. Wiper-wipers have been added to the sliding-cab window to improve visibility. Steps are also provided to help the operator mount and demount — especially useful when the cab has been raised by jacking up the crane body. Optional extras include cab heater with defroster and cab cooler.

Tinted windows
Tinted safety glass windows protect the operator from the heat, ultraviolet rays, and glare of direct sunlight.

Cloth-covered seat
The surface of the cloth-covered seat resists becoming hot, even when exposed to direct sunlight.