THE STURDY SPRINTER
NEW TADANO ALL TERRAIN CRANE
AR-250E
THE GREAT PERFORMER
WHERE THE GOING IS ROUGH

The TADANO ALL-ROUND AR250E ALL-TERRAIN CRANE combines capability of operating on rough terrain with that of travelling at amazing on-road speed. Thanks to its powerful diesel engine which produces 230 PS, the greatest horse power in its class, it has the muscle to make light of any job site conditions, however demanding. Its full-length power-four-section boom assures deep-reach grip-und maneuverability for high-rise construction duties. After reaching the motorway, the AR-250E sprints at a revolutionary travel speed of up to 70 km/h, to waste no time and money getting to the next job. The torque converter offers high fuel efficiency with a lock-up device operating at high speeds.

A switch on the side of the main or auxiliary* winch lever exerts a ‘Load Follower’, which effectively eliminates the potential dangers associated with boomhead side-loading. Tadano’s Automatic Moment Limiter is provided as standard, which can display seven factors: moment, boom angle, boom length, actual working radius, actual hook load, maximum potential load, and maximum potential hook height. The Moment Limiter provides both audible and visible warnings of approaching overload situations, and cuts out dangerous crane motions before overloading occurs. And with all of these performance features, the operator has been taken care of with a cab design made for comfort and convenience. (The AR-250E is available with either left-hand or right-hand steering.)

An asterisk (*) denotes optional equipment.

Sturdy Full-Length Power Boom
AR-250E has a four-section boom which gives a total length of 26.3 m (86.2 ft) for right-hand steering, the longest in its class, and which features high flexibility and torsional stability. The boom is fully extended by a single lever control that, the 20 ft section is extended, then the 10 and 8 ft section synchronously. The single lever control makes telescoping quick and simple.
**High Sprinting Speed**
The AK-250IE is built for speed to maintain non-productive road time. The maximum travelling speed is 70km/h and thus fast enough to qualify for motorway access. At 60% road load, the AK-250IE can cope with very steep inclines.

**High Stability on Rough Terrain**
The operator’s cab of the AK-250IE offers three forward and three reverse speeds plus forward and reverse from the driver’s cab for optimum speed selection to suit site conditions. Even on the most difficult terrain, AK-250IE ensures outstanding travelling performance, having also the other features like four-wheel drive, stiff oil-rod tires, suspension and leaf springs with stabilizers, bigger road clearance, bigger approach and departure angles, etc.

**Three-Way Power Steering**
A convenient switch inside the cab lets the operator choose between three steering modes: 1) conventional two-wheel steer, 2) four-wheel steer, or 3) four-wheel steer. Three-way steering ensures optimum manoeuvrability on and off the road and in crammed job site conditions. In the four-wheel coordinated steer mode, the turning radius is minimised at only 5.0m to negotiate narrow job sites without any problem.

**Pick and Carry**
Thanks to the side spring lock switch, the front and rear leaf springs can be locked so that the crane can safely travel with the load picked up.

**Swingaround Extension**
Swingaround boom extensions, available on an optional basis, can be added either 5° or 90° from the main boom centre line, giving a hook height of 34.4m, the highest in its class. The swingaround extension comes into its own in high rise construction work, where a deep reach is essential for accessibility.

**Two-Motor Two-Drum Winch**
Two independently operable winches are mounted so that the main and auxiliary drums can be wound separately for independent simultaneous operation. The use of low-speed, high-torque assist pulse motors allows smooth 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 geared with a wide range of ratios to eliminate false winding and increase rope service life.

**Wide-Span Outriggers**
The AK-250IE features wide-span hydraulically operated double-box construction outriggers. These can be operated either independently or simultaneously. Controls mounted in the operator’s cab. The side level gauge adjacent to the control switches is ideal for a quick at-a-glance check of the outrigger positions. The jacks have permanently attached reels to facilitate outrigger positioning.

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**THE NEXT JOB IS JUST A QUICK SPRINT DOWN THE MOTORWAY**
**MAX. ROAD SPEED... 70KM/H**

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**Operator-Friendly Cab**
Fullview glass windshield offers all-round panoramic vision. High-speed travel control is isolated from the driver’s cab, as are crane and pick & carry operation from the operator’s cab. All operating and safety controls in the operator’s cab are most effectively laid out at the side of the operator’s seat. Easy-to-read, ergonomically designed instrument panel minimises operator fatigue during prolonged operation and travelling.