



Brand: Ranger

Model: R23AT

Description: TILT-BACK TIRE CHANGER / NEXTGEN™ SERIES

The Ranger R23AT is a high end tilt tower machine designed to handle the needs of heavy volume tire shops. A supersize turntable provides an internal clamping capacity of 24" and external clamping capacity of 22". With a long list of time-saving features and a powerful pneumatic assist helper, you'll safely mount low-profile performance tires and wheels with little effort. A sturdy body, rigid 45mm hexagonal vertical shaft, and hardened-steel horizontal outrigger support arm eliminates flex during all tire service procedures to reduce the chance of expensive wheels getting damaged. Bead seating and tire inflation is simple and effortless with Ranger's exclusive TurboBlast™ portable bead seating system.



- A new **high-torque electric turntable** drive features increased speed and reversible direction for quicker tire removal and installation. Controlled speed gives low profile and run-flat beads time to relax to reduce the risk of tire damage.
- **Improved electric motor** features the best of proven technologies, including rugged copper rotor construction, stronger high-quality ball bearings, thermal-cool epoxy insulation, and durable rolled steel frames. All motors are 110-208/230V and 50-60 hertz capable.
- A balanced flywheel helps the machine run smoothly, reduces vibration, and helps minimize associated stress on other machinery components.
- A completely new and proprietary **bead-breaker design** features bilateral pneumatic accelerators for lightening **fast bead-breaker speeds** in both directions. A 100% stainless-steel cylinder body means no more worrying about moisture contamination from corrosion due to air source condensation. Other exclusive design features include a **multi-axis, adjustable blade** for multi-angle tire capacity, a large, dual-flange axle that eliminates blade flex and premature failure, and **adjustable blade settings** that help accommodate a larger variety of tire and wheel combinations.
- **Enhanced bead breaker arm** features rugged box frame construction that increases the mechanical strength and assures years of dependable service and performance. A **large rubber bump-stop** assures smooth return to help reduce shock loading and minimize wear on pneumatic cylinder, guides and associated moving parts.
- Industrial-grade, 45-micron, **pneumatic control valves** feature die cast and machined bodies constructed from zinc and aluminum. High-performance polyurethane seals and self-lubricating, Teflon® piston guides provide increased service life and performance at the highest level possible within almost every imaginable working condition. Valve plungers feature muffled extrication ports that direct any dirt or contamination accumulated on the outside perimeter of the spool to be automatically blown away each time the valve goes into the release position.



- Durable **forged steel (instead of cast iron) foot pedal levers** will stand up to everyday use and abuse in high-volume tire centers. Snap action spring return means precise and controlled operation.
- Foot pedal control valves feature **multi-link rod connections** for non-binding plunger movement and precise bilateral control.
- All main-lead **electrical terminals, auxiliary switches, and motor enclosures are sealed** for air-tight, dust-free and contamination-proof protection of terminal leads.
- Ranger Next Generation™ tire changers feature **high pressure polyurethane pneumatic tubing with** mirror smooth seamless bore for exceptional flow rates, high abrasion resistance, high burst tolerance and maximum kink resistance.
- **Specially engineered drive-belt** features convex sidewalls to distribute wear evenly while providing proper belt support for improved service life. Flex-bonded cords and flex-weave covers resist the effects of oil, heat, ozone, weather and aging.
- A newly designed, **maintenance-free gearbox** features a large oil and grease reservoir that helps provide efficient heat dissipation and improved lubrication for longer service life. Internal baffles and a constant seating stress flange gasket assure positive, leak-free venting. The rugged gearbox enclosure is precision milled for precise alignment of horizontal and vertical bases and features precision helical gears that operate much more smoothly and quietly than typical spur gear transmissions. The rugged housing provides maximum strength for extreme durability under hard working conditions and greater precision under load during worm and gear alignment. High-strength, oversized worm and worm gears are straddle mounted between heavy-duty tapered roller bearings providing rugged dependability.
- Durable, hardened, **alloy-steel RimGuard™ wheel clamps** features internal and external multi-teeth jaws with vertical mounting bolts that make replacement fast and simple.
- A **geometric tabletop** provides for easier bead lubrication and allows operators to make visual inspections of the lower bead during mounting and inflation procedures.
- A powerful assist tower features a multi-profile **traveling drop-center tool** that holds stubborn sidewalls in the drop-center area of the wheel for swift, precise mounting. A single **lower bead lifting disc** can be used to unseat stubborn lower beads or to elevate tires for tool placement. A tire iron slot built into the bead lifting disc gives operators additional leverage for difficult tire handling. These important tire shop tools dramatically reduce the effort required to change difficult, low-profile tires and helps minimize operator fatigue. **Up front trigger control** and articulating arm allows for variable tire and wheel configurations. A heavy-duty, tri-flange, cast-iron assist tower carriage features linear way bearings for durable maintenance-free operation.
- R23AT and R23LT tire changers handle custom tire and wheel assemblies, **10" to 24"** without the need for clumsy adapters or clamp adjustments. From simple factory steel wheels to supersized delicate customs, multiple power-assist features will help you change tires with minimal effort.
- A pneumatic nylon non-marring **wheel restraint device** assures wheels are safely secured to the turntable during inflation procedures.
- Up front controls and a sensible ergonomic design provide ease of use and more efficient operation.
- **Tilt-back tower design** provides greater clearance and access for tire removal and inflation. Pneumatic-lock tool head stays positioned on the tower return for instant set up for like sets of tires and wheels.
- Stainless-steel and aluminum pneumatic cylinders are designed to reduce machine vibration and provide low-friction and long life operation. Internal end-of-stroke cushions are standard that help provide cushioning at the end of each full stroke to reduce wear on seals, wear band and piston rod. Permanent lubrication design provides outstanding service life.
- A hardened **alloy steel mount and demount head has a unique** equidimensional shape that allows you to perform all changing functions with the tool head in the same position. The micro-smooth tool head surface glides tire beads effortlessly during mounting and demounting procedures to ensure costly tire damage is minimized.
- Important **wheel service accessories** come standard like a large soap bucket with brush and a multi-piece plastic **wheel protector kit** that includes turntable jaw covers, bead-breaker blade boots and specialized mount / demount head covers to help protect delicate wheels.
- We throw in a hardened steel **tire iron and bead lever tool** to assist during all tire mounting and demounting operations.

- A rigid **45mm spring assist hexagonal vertical tool shaft** combined with a hardened-steel horizontal outrigger support arm maintains perfect position of the mount-demount tool head during all tire service procedures to reduce the chance of expensive wheels getting damaged. All moving parts feature maintenance free linear guide bearings for easy adjustment of both vertical and horizontal wheel settings. The non-flex horizontal arm also features a hardened lower roller guide for smooth and controlled in and out movement. Integrated rubber bump stops assure smooth return during tilt-back operations to help reduce shock loading and minimize wear on tower guides and moving parts.
- A simple to use **tire inflator features foot-pedal operation** and inflation hose with a sure-grip clip-on valve chuck enabling hands-free operation. Integrated air pressure dump valve enables you to lower tire pressure with a simple push of a button.
- Ranger tire changers feature the renowned **TurboBlast™ bead seating system*** that blasts a powerful air burst between the tire and rim to help seat stubborn beads fast. A durable, non-marring nylon discharge barrel features a contoured tab that locks securely on the edge of the rim for better control during air discharge between the tire and wheel. A welded-steel, eight-gallon surge tank is larger than competitive models for all the inflation power you need, when you need it.
- Plenty of storage area for tools and accessories. Helps keep your shop tidy and operation-critical tools close at hand.
- **Stainless steel braided metal conduit** protects hoses and wires from abrasion and wear.
- Optional motorcycle turntable clamps add a whole extra level of versatility. Expand your capabilities, clientele and your bottom line.

FEATURES / SPECIFICATIONS	MODEL R23AT
Type of Drive System	Electric / Air
Motor	2 HP (110/220VAC 50-60 HZ)
Air Requirement	110-175 PSI (8-12 BAR)
Wheel Clamping Method	4 Clamps - Internal / External
Table Clamping System	Dual Pneumatic Cylinders
Bead Breaking System	Pneumatic Blade
Power Assist Towers	Single / Left
Tool Holder	Air-Lock Mounting
Inflation Gauge With Integrated Air Dump Valve	Standard
Inflation Pressure Regulator/Limiter	Standard
Water Filter	Standard
Oiler / Lubricator	Standard
Air Regulator	Standard
Breaker Bar	Standard
Large Soap / Lubricator Bucket	Standard
Brush	Standard
Tower Design	Tilt-Back
Bead Lifting Roller(s)	Single / Left
Upper Bead Assist Roller	None
Traveling Drop-Center Hold Down Devise	Standard
Inflation Restraint Devise	Standard
Powerful Bead Seating System	TurboBlast™
Inflation System	Standard
Tool Tray / Bin Storage	Standard
Motorcycle Turntable Clamps	Optional
Internal Rim Clamping Capacity	11.5" – 24" (292 mm - 610 mm)
External Rim Clamping Capacity	10" – 22" (254 mm - 559 mm)
Turntable Tire Width Capacity (Mounting)	4" – 18" (102 mm – 457 mm)
Bead Breaker Tire Width Capacity (Demounting)	1.5" – 16" (38 mm – 406 mm)
Maximum Tire Diameter	41" (1041 mm)
Shipping Weight	958 lbs. (435 Kg)