

The Workhouse Reimagined

Why the A10VSO Pump

Remains the Industry Standard



For machine builders and operators, hydraulic system reliability is not a feature—it's the foundation of productivity. Unplanned downtime, inefficient power use, and premature component failure can derail operations and erode profitability. The challenge is finding a hydraulic solution that is both powerful enough for demanding tasks and reliable enough to be forgotten.

THE POWER OF A PROVEN ARCHITECTURE

The A10VSO's swashplate design is a masterclass in hydraulic engineering. For decades, this architecture has proven its ability to deliver variable flow with high efficiency and precision. The Series 32 represents the latest evolution of this concept, optimized for today's medium-pressure (280 bar) applications.

This isn't about reinventing the wheel; it's about perfecting it. The core strengths remain:

- High Power Density: Delivering significant hydraulic power from a compact frame.
- Exceptional Efficiency: Minimizing energy loss and reducing operating temperatures.
- Low Operating Noise: Contributing to a safer and more comfortable work environment.
- Precise and Fast Response: Ensuring accurate control for dynamic machine movements.

ENGINEERED FOR A LONG LIFE

A pump’s value is measured not in months, but in years—or even decades—of uninterrupted service. The A10VSO is engineered for longevity from the inside out. Robust bearing arrangements handle high loads, specialized material pairings minimize wear on critical surfaces, and optimized internal flow paths reduce stress on components.

This focus on durability means:

- Fewer maintenance cycles.
- Reduced need for spare parts inventory.
- Predictable performance over the entire machine lifecycle.
- This is the very definition of a lower total cost of ownership. The initial investment is repaid many times over through sustained uptime and minimal service costs.

THE FLEXIBILITY OF THROUGH-DRIVE

One of the A10VSO’s most significant problem-solving features is its 100% nominal torque through-drive capability. This allows machine designers to mount additional pumps directly to the A10VSO, creating a multi-circuit system from a single drive input.

This solves several critical design challenges:

- It eliminates the need for a separate pump drive (and its associated cost and complexity).
- It simplifies hydraulic plumbing and reduces potential leak points.
- It saves significant installation space, allowing for more compact machine designs.
- It allows for easy field conversions and streamlining inventory.



A PUMP FOR EVERY APPLICATIONS

While it is a universal pump, the A10VSO Series 32 excels in high-power machines where reliability is paramount. Its robust nature makes it the go-to solution for:

- **Plastics Machinery:** Providing consistent pressure for injection and molding.
- **Presses:** Delivering dynamic flow for forming and stamping operations.
- **Marine & Offshore:** Enduring harsh environments with proven reliability.
- **Mobile Applications:** Handling the vibration and load demands of construction and agricultural machinery.

The A10VSO Series 32 is more than just a hydraulic pump; it is a promise of performance and reliability. It represents the accumulated knowledge of decades of hydraulic leadership, engineered into a modern solution that meets the efficiency, power, and longevity demands of today’s most challenging applications.

For machine builders who value trust and proven performance, the A10VSO remains the industry standard.

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