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# SMARTER HYDRAULIC SYSTEMS

Texas Hydraulics expands engineering service offering for use in OEM applications.

Today's fleet operators and original equipment manufacturers (OEMs) in markets such as utilities, forestry, agriculture and construction are asking more from their hydraulic systems than ever before. Beyond raw power, they now want productivity, data-enabled diagnostics, rapid serviceability and responsible environmental performance.

Texas Hydraulics, based in Temple, Texas, said it can meet those challenges head on through its expanded system – level design and integration services – helping customers simplify complexity, accelerate development and unlock new levels of performance.

Based on decades of experience, the company now offers system-level support that can ease the burden on OEM engineering teams while shortening product development cycles. From integrating advanced technology into components to complete system solutions, Texas Hydraulics said it can help OEMs get to market faster and more confidently.

"Being first to market is critical," said Josh Stevens, director of Engineering. "By partnering from day one, we ensure hydraulic systems not only meet technical requirements but also set benchmarks for reliability, ease of service, and performance."

## SMART CYLINDERS

The company creates systems based on its catalog of components. At the forefront is the EAS-i cylinder, a self-contained hydraulic actuator with an

onboard electronic controller, integrated manifold and advanced sensors. The EAS-i provides plug-and-play installation and delivers closed-loop control of complex machine motions through CANbus or J1939 integration.

Other benefits include:

- Onboard programmable logic for machine function automation
- Closed-loop feedback: pressure, temperature, cycles, position, velocity
- Integrated manifold with load-holding, pressure, flow and proportional control
- Real-time diagnostics for predictive and preventive maintenance
- Customizable for different markets, e.g., utilities, forestry and construction

By consolidating sensors, valves and logic into the cylinder, the company said EAS-i reduces external plumbing, lowers contamination risk and simplifies assembly. Customers report significant reductions in downtime, improved safety in high-risk



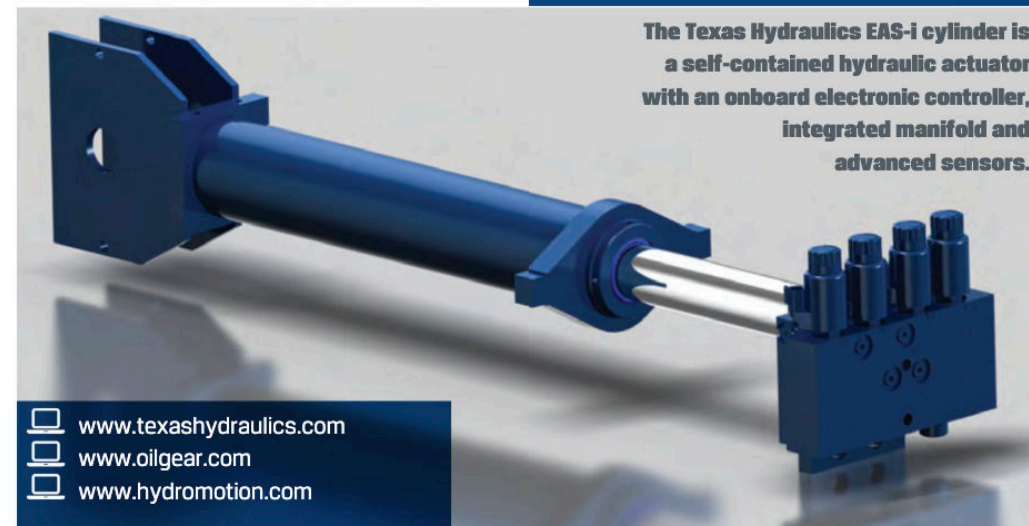
The XD5 series is up to 35% lighter than the company's previous pumps, which the company said will be ideal for OEMs seeking high power density in tighter spaces and mobile platforms.

applications, and measurable efficiency gains from optimized hydraulic flow.

## MODULAR SYSTEM OFFERINGS

Texas Hydraulics can also deliver advanced solutions to address broader OEM challenges thanks to its Oilgear and Hydromotion businesses, such as:

- Hydromotion fluid swivels and Power Plate slip rings: Leak-free, modular designs for combined hydraulic and electrical/data transfer, easing hose management and improving reliability.



With the AM Series, Oilgear offers radial capacities from 3,000 to 8,000 lb.

The Texas Hydraulics EAS-i cylinder is a self-contained hydraulic actuator with an onboard electronic controller, integrated manifold and advanced sensors.

www.texashydraulics.com  
www.oilgear.com  
www.hydromotion.com

machines, Texas Hydraulics said it can deliver system-level expertise to bridge the gap. Whether validating a preferred supplier's design, creating custom manifolds or integrating next-gen actuators, it provides solutions that maximize uptime, safety and efficiency.

The Oilgear Company was added to the Texas Hydraulics portfolio in 2018, giving its engineers and customers access to a broad range of hydraulic components.

Recently, Oilgear expanded its line of XD5 axial piston pumps. Designed to serve customer needs in off-highway, energy and industrial hydraulics, the company said the XD5 series is engineered to deliver more power in a smaller, lighter package.

The model range covers maximum displacements from 50cc to 98.4cc per revolution, nominal operating flows from 22 to 42.4 gpm (83.3 to 160.5 l/min), and continuous pressures up to 5000 psi (350 bar). Other features include:

- Advanced three-way, direct-acting control that delivers almost instantaneous response to system demands for greater operational efficiency in extreme environments.
  - The compact XD5 series is up to 35% lighter than the company's previous pumps, which it said will be ideal for OEMs seeking high power density in tighter spaces and mobile platforms.
  - With proprietary Hard-on-Hard technology, Oilgear's bearing and surface engineering dramatically improves service life and contamination resistance, even under continuous, heavy-duty cycles.
  - The model is built to handle standard hydraulic oils and low-lubricity fluids for expanded application versatility.
  - Available in side-ported and rear-ported configurations; compatible with SAE mounting faces for straightforward equipment integration.
  - Peak pressure ratings up to 5,800 psi (400 bar) for extreme hydraulic applications.
- "With the launch of the complete

XD5 series, Oilgear is strengthening its commitment to equipment reliability and lifecycle value," said Jared Van Pelt, sales manager, Oilgear. "Engineered for rugged environments and backed by Oilgear's global support network, XD5 pumps set a new benchmark for next-generation hydraulics."

The hydraulic rotary actuator Axial Mount (AM) Series is Oilgear's latest product family. Built for high performance, reliability and adaptability, the actuators are designed for OEMs in sectors such as construction, agriculture, mining and energy.

"The AM Series stands apart for its high axial loading capacity and compact space claim that also can be a drop-in installation for both new and existing equipment," said James Warner, product manager, Oilgear. "With helical gear engineering, these actuators deliver high drive and holding torque in minimal space, offering OEMs more design flexibility without sacrificing costly and weight contributing workarounds."

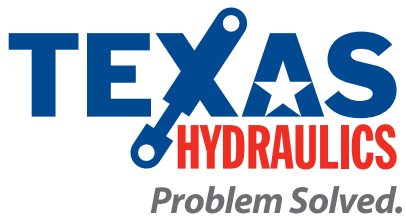
Features include:

- Engineered for robust performance in heavy-duty pivot and hinge control, supporting demanding loads across multiple industries.
- Takes up less space than other hydraulic actuator series without sacrificing power, making integration easier in tight equipment footprints.
- Integrated counterbalance valves ensure secure stopping and continuous holding, even under external forces, for leak and drift-free operation.
- Composite bearings handle overhung loads and ensure quiet, reliable torque delivery across every cycle.

With the AM Series, Oilgear offers radial capacities from 3,000 to 8,000 lb and moment capacities up to 50,000 in.-lb, with 180° standard rotation and 360° options available.

The AM Series is suited for precision pivot control in heavy-duty equipment. The modular product architecture accommodates customer-specific mounting, rotation limits and specialized fluid requirements, making it suitable for applications across construction, utilities, marine, military and more.

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☎ 254-778-4701

✉ [inquiry@texashyd.com](mailto:inquiry@texashyd.com)

📍 3410 Range Rd. Temple, TX 76504

🌐 [www.texashydraulics.com](http://www.texashydraulics.com)

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