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North America: *Genie will debut the S-85 XC FE and S-85 XC E boom lifts at the ARA Show, Jan. 29-Feb. 1 in Las Vegas at Genie Booth #2045.*

Global Availability: *The boom lifts will be available to customers in all markets beginning in early Q3.*

Highlights:

- **Highly efficient Lithium-Ion technology** eliminates the need for battery replacement and maintenance in Genie's third generation of its FE hybrid technology.
- Proven rough-terrain capability combines with electrification to deliver **high rental fleet utilization** and increased job site access.
- Over 80 quality improvements reduce maintenance, resulting in **15% reduction in ownership costs for E electric machines, and a 6% reduction for FE hybrid machines.**

Genie's Newest Boom Lifts Promise High Rental Utilization and Increased Job Site Access in an Easy-to-Maintain Package

The new S[®]-85 XC[™] FE hybrid and S-85 XC E electric boom lifts feature Lithium-Ion technology and other improvements to reduce ownership costs

Bothell, WA (January 23, 2025) – The Genie team is excited to introduce the all-new S[®]-85 XC[™] FE hybrid and S-85 XC E electric telescopic boom lifts. The lifts, which are powered by Lithium-Ion batteries, feature Genie's heavy-lifting and 4x4 drive capabilities in new hybrid and electric packages.

Four independent AC drive motors, 4-wheel drive and active oscillating axles enable operators to easily navigate rough terrain. Genie's S-85 XC is commonly used for steel erection, rail and bridge construction, and in shipyards and refineries; offering the features and capabilities of the S-85 XC in hybrid and electric configurations expands utilization to job sites that require quiet during day performance, or emissions free performance.

"These boom lifts are a complete upgrade, with thoughtful engineering and more than 80 quality improvements with the goal of keeping our machine in the field longer with fewer service intervals," said Dominik Damm, Director, Product Management, Booms Portfolio.

Right-Sized Lithium-Ion Batteries Eliminate Maintenance and Reduce Costs

The FE and E models are both powered by 48-volt Lithium-Ion batteries, which is the smallest Lithium-Ion battery in the industry in the 85 ft / 27 m height class. These right-sized batteries, which are more cost effective, are made possible by efficiency improvements throughout the machine that lower energy consumption compared with competitors' booms.

"Utilizing a 48-volt Lithium-Ion battery limits cost transfer to customers by keeping the battery small, but still is capable of supporting a full day's work. Lithium-Ion batteries also do not require maintenance like FLA or AGM batteries, so there's no watering or replacement. The batteries also are smart, with software management systems to protect themselves from damage. Additionally, we've made service easier because the battery is only 48 volts. Specialized technician certifications are required for anyone working on a 60-volt or larger battery, so we've made service access easier by keeping the battery smaller," Damm said.

Built to last, the battery is rated for extreme temperatures (from -22° F/-30° C to 122° F/50° C) and Genie is extending its warranty to 5 years to ensure customers feel confident in their purchasing decision.

"Genie's Lithium-Ion solution has spent years in design and has been rigorously tested to ensure compliance with global standards," said Damm, explaining that the intelligent Battery Management System software protects the battery throughout operation to ensure it won't be damaged by any operation the machine is capable of.

Two battery sizes are available: standard size for the FE hybrid, or an XC battery for the electric E machine. The XC version of the 48-volt battery has a 7-hour rapid recharge, compared with 10-15 hours that other machines on the market require. The XC battery can be added as an option on the FE machine.

Genie's third generation hybrid system on the S-85 XC FE includes the 48-volt Lithium-Ion battery and 24 hp, DPF-free engine. The engine/generator combo provides enough power to run a full workday in electric mode, or a full work week on a single tank of fuel. It also allows for "dead-battery" operation: when the batteries are completely drained, the engine/generator provides enough power to run any function. Rapid recharge of 4.5 hours is twice as fast as other systems on the market.

Performance Features Ensure High Rental Rates for Fleet Utilization

Beyond the flexibility hybrid and electrified equipment provides for working on a variety of jobsites, the dual capacity XC models mean operators can load the platform up to 1,000 lb / 454 kg for the majority of the lift's range, and to 660 lb / 300 kg through the full envelope. This increases productivity by supporting heavier lifting jobsite needs.

Additionally, Genie's powerful Lift Power™ solution also is available in these new machines, expanding the performance benefits of these machines to even more jobs. These new models are the first-ever electrified boom lifts to offer a lithium-ion powered AC generator welder-ready tool. Genie's Lift Power welder-ready tool is capable of providing 7kW for the Australian market, and up to 12 kW for the North American market—the highest power output in the industry for welding applications. A 3kW power inverter, available globally, provides power to the platform to support power washers, drills, and other power tools.

Efficient Design, Quality Improvements Positively Impact Maintenance and Ownership Costs

"More than 80 design upgrades to the S-85 XC FE and S-85 XC E demonstrate Genie's attention to continuous quality improvement with the intention of reducing overall cost of ownership," Damm said.

Here are just a few examples.

- Improved solid-state proximity switches have replaced limit switches. Switches are now fully sealed, preventing weather damage. And because there is just one part, moving parts that could cause fault codes have been reduced. Onboard LEDs on the new switches also will indicate their status for easy serviceability.
- From sharp steel edges to fasteners, Genie has made intentional design changes to improve durability and prevent rust.
- The machines' cable tracks have been better organized, improving both serviceability and longevity. Durable separators are now found every second track, spacers separate hoses and cables, and hose and cable wear has been tested to prevent overlapping and rubbing.

In addition, the IP67-rated electric AC drive motors and maintenance-free Lithium-Ion battery are integral to reducing costs associated with ownership. The AC drive motors are fully sealed, preventing dust and water ingress, and they are brushless. Overall, there also are fewer hydraulic components, which reduces the chance for hydraulic leaks and spills, and many maintenance points are eliminated.

The 24 hp engine that delivers hybrid power for the FE model is DPF free, which means it does not require complex after treatment, reducing maintenance costs. This smaller engine also experiences less wear and tear, costing less to maintain.

Genie's new Plus+1 control system has been updated to speed up troubleshooting. Damm explained: "The new LCD screen display helps technicians assess faults more quickly. For example, in the past it was a trial-and-error process for a technician to adjust hydraulic pressures on the secondary boom. Now, a test can be run that provides a visual display of the hydraulic pressures. The software automatically sets the pressure points between the desired high and low." In addition, 50% of the required recalibration is automated for faster service and less down time.

The combination of industry-leading Lithium-Ion performance, features designed for productivity, and up to a 15% decrease in total cost of ownership means Genie's S-85 XC FE and S-85 XC E boom lifts deliver high rental fleet utilization for our customers, and greater job site productivity for equipment operators.

Genie Boom Lift Chart of Key Specs

Model	Max Platform Height		Max Working Height		Max Horizontal Reach		Lift Capacity (restricted/unrestricted)		Weight	
	ft	m	ft	m	ft	m	lb	kg	lb	kg
S-85 XC FE	85 ft	25.91 m	91 ft	27.91 m	74 ft 6 in	22.71 m	660 lb / 1,000 lb	300 kg / 454 kg	39,592 lb	17,958 kg
S-85 XC E	85 ft	25.91 m	91 ft	27.91 m	74 ft 6 in	22.71 m	660 lb / 1,000 lb	300 kg / 454 kg	38,908 lb	17,648 kg

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About Genie

Since 1966, Genie has been the leading name in the aerals industry. With offices, team members and manufacturing facilities around the globe, Genie lifts and telehandlers can be found enhancing safety and improving productivity on jobsites worldwide. Genie's ongoing leadership in aerial lifts and material handlers is built on our ability to consistently deliver superior quality for our customers. At Genie, we achieve this **quality** not by chance, but **by design**. For more information on Genie products and services, visit www.genielift.com.