AUTOMOTIVE

Intelligent Spindle Systems Streamline ATV Production

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At their prominent North American facility, one of the world's foremost recreational vehicle manufacturers set out to raise quality standards and accelerate production for their ATV line. With growing demand, they needed to eliminate inefficiencies tied to rework and ensure each critical wheel locking operation met exacting specifications—without slowing throughput or overburdening operators.

Cleco responded with a turnkey semi-automatic station built around AE Systems' Intelligent Spindle technology. The system features ten precision spindles mounted on a guided plate, streamlining wheel locking operations by improving accessibility, fastening consistency, and overall cycle times. Integrated PLC controls allowed seamless communication with the plant's existing line systems and MES, while ergonomically positioned operator interfaces kept day-to-day use intuitive and comfortable.

The impact was immediate: the manufacturer saw measurable gains in throughput and product quality, coupled with a significant reduction in in-process rework. This strategic investment didn't just modernize a single operation—it set a new benchmark for reliability that's supporting confident future production ramps.

With AE Systems' Intelligent Spindle platform now at the core of their ATV operations, this recreational vehicle leader is building smarter lines equipped to meet both today's high-volume demands and tomorrow's growth targets.

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