

## COMAU DELIVERS A CUTTING-EDGE AUTOMATION SOLUTION FOR LI AUTO'S NEXT-GENERATION RANGE EXTENDER

- Comau has designed and developed an end-to-end manufacturing solution for next-generation EV range extender technologies
- The comprehensive solution allows Li Auto to achieve an annual capacity of 400,000 units
- Comau's patented SmartCell technology, collaborative robots and vision systems ensure a 99% production pass rate, reduced complexity, and enhanced assembly precision

**Shanghai, May 29, 2025** – Comau has designed and developed cutting-edge automation technology for Li Auto's next-generation range extender line, allowing the Chinese EV pioneer to reach an annual production capacity of up to 400,000 units. The full-value-chain solution, which includes concept design, system simulation, assembly, and commissioning, highlights Comau's ability to support the dynamic demands of the fast-growing electric vehicle (EV) market with innovative, high-performance manufacturing systems and enabling technologies.

The integrated automation solution, which covers the interior assembly line, exterior assembly line, cylinder head line, and piston-connecting rod line, has significantly enhanced reliability, operational efficiency and flexibility. Featuring a combination of 45 automatic and semi-automatic machines, in addition to 15 collaborative robots, the innovative solution has been designed to ensure rapid adaptability for future range extender models.

A key advantage of Comau's solution is its patented SmartCell technology. By incorporating machining center-style rapid tool-change features, the system achieved high-precision valve collet pressing across a wide range of cylinder head variants, with a production pass rate exceeding 99%. To improve process stability and reduce manual errors, Comau also deployed collaborative robots with vision systems for tasks like spark plug and connecting rod cap installation. This enhanced precision and consistency while helping to lower operational costs. Likewise, a six-axis robotic solution replaced the traditional crankshaft assembly method, increasing flexibility, accuracy, and setup



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efficiency — all of which have proven essential in managing product variation and accelerating ramp-up.

*“Li Auto’s ambitions in electric vehicles require trusted partners like Comau, whose commitment to advanced automation and cutting-edge technology aligns with our vision for sustainable innovation,”* said Ju Yubo, Director of Range Extender Process Development at Li Auto. *“This strategic collaboration will drive new efficiencies and enhance manufacturing quality, supporting the development of competitive models that meet the discerning expectations of EV consumers.”*

*“The close collaboration with Li Auto underscores Comau’s commitment to delivering highly flexible, scalable, and efficient automation solutions that enable our customers to meet their evolving needs long into the future,”* said Jeff Yuan, Comau APAC Leader. *“Leveraging our ability to integrate robotics, patented technologies, and advanced digital tools to ensure superior performance and precision has allowed us to achieve a high level of automation and flexibility that can be easily scaled as market needs change.”*

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## ABOUT COMAU

Comau is a worldwide leader in delivering sustainable advanced automation solutions. With 50 years of experience and a global presence, Comau is helping companies of all sizes in almost any industry leverage the benefits of automation. Backed by a continuous commitment to designing and developing innovative and easy to use technologies, its portfolio includes products and systems for vehicle manufacturing, with a strong presence in e-Mobility, as well as advanced robotics and digital solutions to address rapidly growing markets in industrial sectors. The company’s offering also extends to project management and consultancy. Through the training activities organized by its Academy, Comau is committed to advancing the technical and managerial knowledge necessary to face the challenges related to automation and leverage the opportunities of a constantly changing marketplace. Headquartered in Turin, Italy, Comau has an international network of 7 innovation centers and 11 manufacturing plants that span 11 countries and employ 3,800 people. Together with its wide network of distributors and partners, the company is able to respond quickly to the needs of its customers, no matter where they are located throughout the world.

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