



THE NEW SMARTREACH COMAU RESPONDS TO THE LIGHTWEIGHT COMPONENTS MARKET FOR HIGHLY VERSATILE MACHINING

- SmartReach Comau combines high flexibility with unwavering stiffness and accuracy
- Designed for high-speed, one-setup overall machining of large lightweight structural frames, megacasting underbodies, battery casings and more
- Automotive, aerospace, energy and other markets can all benefit from this flexible and dynamic machining solution for better productivity and scalability
- ESG design significantly reduces energy use as well as environmental and worker safety risks
- SmartReach Comau will make its worldwide debut in Milan at 34.BI-MU (9 -12 October, 2024)

Grugliasco (Turin), October 9, 2024 – As automotive manufacturers look to increase sustainability and cost effectiveness, there is a growing demand for large structural components made of lightweight metals that can deliver better fuel efficiency, battery power range and higher cost-effectiveness. Comau has thus enriched its next-generation machining portfolio with SmartReach Comau, a new paradigm in enhanced machining productivity, designed specifically for effective and efficient machining of large size lightweight components such as underbodies, and battery trays made by mega casting or stamping technologies. Thanks to its unique combination of flexibility, dynamics, stiffness and accuracy, the application of SmartReach Comau caters to the automotive, aerospace, energy, and other industries, where the 5-axis flexible machining solution of oversized light material components is widely required. The next-generation machine tool will make its worldwide debut at 34.BI-MU, Pavilion 15, Booth D10, from October 9th -12th 2024.





Dynamic and agile machining with unwavering stiffness and accuracy

SmartReach Comau is not a traditional robot machining unit, but born as a CNC (Computer Numerical Control), with its linear X axis, reinforced rotary axes with double encoders and other specifically designed configuration, it is able to deliver high-end CNC level performance which means the combination of dynamics, stiffness and precision. In a single part clamping posture of the part, the agile high-speed spindle can easily reach compound angles and access any side of large or multifaceted parts without frequent recourse to angular heads. In this way, it's easy to realize one-set up machining, the key to megacasting and large lightweight parts machining (clamping the parts too many times will cause part deformation and loss of tolerance). In a machining line, by including all the machining operations into one station, multi-machine parallel machining can reduce line stop risk due to one machine failure.

Flexibility and scalability

With its modular structure, the machine can be easily reconfigured into mono, twin spindle or multi spindle configuration, with one frame to multi-frame (frame extendable without limit), to work with different configurations of turntable (A axis, B axis single, double tables). The standard configuration with one frame has the stroke of 3000x1890x1000mm, and with this flexibility the machine can adapt to different part sizes and different production needs.

Easy operation and maintenance

Real 5-axis continuous machining with CAD CAM and Programming G Code for machining programming and CT simulation, easy for fast model change. Furthermore, the modular structure ensures easier reconfigurability and simple access to the installed machine, resulting in shorter mean time to repair (MTTR) compared to market standards, thus saving time, money and resources. Most maintenance activities can be done at ground level for major operation safety and enhanced ergonomics.

Environment friendly

By using MQL or dry machining, SmartReach Comau saves coolant and reduces waste, which helps protect the environment. Thanks to its special machine architecture, developed in full compliance with Comau's ESG strategy, there is much less energy consumption during machining operation, compared to traditional vertical or horizontal CNC machines. In this way the energy saving can reach up to 40%.

"SmartReach Comau, which reflects our increasing focus on diversification, will allow us to address important markets for which high flexibility and high precision are non-negotiable,"





explained Stefania Ferrero, Chief Marketing and Solutions Portfolio Officer. *“Backed by our longstanding history of high-end reliable machining solution providers , we have innovatively evolved both our technology path and our resource competencies to address what we believe will become a significant market for Comau in the next several years.”*

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 12 manufacturing plants that span 12 countries and employ 3,700 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. www.comau.com

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