



COMAU'S DIGITAL SOLUTION BRINGS REAL-TIME OPTIMIZATION TO THE FACTORY FLOOR

June 19, 2018, Munich – Comau has been helping companies around the world produce better, faster and more efficiently for over 45 years. Now the global leader in advanced industrial automation solutions is developing a powerful new digital environment that perfectly mirrors the manufacturing lines, thus facilitating the optimization of complex processes and production scenarios.

By creating a “Digital Twin” of the production environment (both machines and humans), operators can use Comau’s virtual solution to understand how to improve the ergonomics of the individual operations, behavioral trends, identify early warning signs, conduct predictive and preventive maintenance, and make projections based on the digitized performance data. In addition, the virtual environment can be used to simulate line modifications including the introduction of new products and manufacturing needs.

To demonstrate its real-time solution and enabling digital transformation technologies, Comau will allow visitors to access the virtual twin of the Mirafiori automotive plant in Torino which uses digitized and robotic applications to optimize its manufacturing performance (**Stand 331 - Hall B5**).

More precisely, Comau has digitized the door assembly line of the Maserati Levante. Using VR glasses within the virtual environment developed in collaboration with FlexSim, visitors will be immersed in the line and “move” within it, monitoring key process and machinery parameters (e.g. through a continuous check of insights such as vibration, temperature and others). The digital dashboard will also identify issues which could create bottlenecks or breakdowns. When visitors encounter a potential “problem” on the riveting cell, they can print the necessary spare part – directly onsite – using a 3D printer mounted on a Comau robot NJ 60 based on generative design. The application, developed in partnership with Autodesk and Continuous Composites, shows how companies can produce strong, lightweight factory-ready parts on demand. Back in the Maserati plant, this level of predictive intelligence translates to higher productivity and lower costs.

Another concrete example of the digital roadmap designed by Comau, available in the Automatica booth, is the sensorized exoskeleton, which shows visitors how humans can be part of the digital environment in the industrial field. Furthermore, visitors can see the real benefits of using the exoskeleton in manufacturing thanks





to analytics that will show the difference within using or not the exoskeleton in terms of ergonomics and muscular effort.

Benefits

- Quickly verify production parameters at any stage of the manufacturing process
- Streamline maintenance operations thus reducing or eliminating downtime
- Virtual simulation and line behavior testing results in higher productivity, better quality, faster time-to-market and lower costs
- 3D printing solutions can reduce procurement time, allow for design adjustments and increase the potential for functionality improvements
- Sensorized exoskeleton helps improve ergonomics in the workplace by analyzing movements and activities with analytics and parameter comparisons





About Comau

Comau, a member of the FCA Group, is a worldwide leader in delivering advanced industrial automation products and systems. Combining innovative engineering solutions with enabling technologies, Comau helps companies leverage the full potential of digital manufacturing.

In addition to a vast range of modular, flexible and highly-configurable products, Comau offers interconnected digital service solutions able to transmit, elaborate and analyze important machine and process data, thereby increasing efficiency for smart manufacturing. The full portfolio includes: joining, assembly and machining solutions for traditional and electric vehicles, robotized manufacturing systems, a complete family of robots with extensive range and payload configurations, autonomous logistics, and asset optimization services with real-time monitoring and control capabilities. The offering also extends to project management and consultancy, IoT services, and maintenance and training for a wide range of industrial segments.

Headquartered in Turin, Italy, Comau has over 45 years of factory-proven experience and an international network of 32 locations, 14 manufacturing plants and 5 innovation centers that span 14 countries and employ more than 9,000 people. A global network of distributors and partners allows the company to respond quickly to the needs of customers of all sizes, no matter where they are located throughout the world. Comau is also committed to improving human - machine collaboration by developing competencies through the formation of individuals and groups as part of its open automation approach. This includes hands-on training programs by Comau Academy that develop the technical and managerial competencies necessary to face the challenges and opportunities of Industry 4.0.

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