



MATE exoskeleton and Integrated Robotics: Comau's strengths in industrial automation on display at SPS IPC DRIVES ITALY

Parma, May 28, 2019 – Comau, a member of the FCA Group and global leader in advanced industrial automation products and solutions, is taking part for the first time with its own **booth (B017- Hall 4.1)** to the SPS IPC DRIVES ITALY exhibition (Parma Exhibition Centre, May 28-30). The company will exhibit the latest factory automation technology, featuring **integration between systems**. Comau is unique among industrial robot manufacturers for its ability to integrate its robotic arms with motion control technology and software by leading players like **Siemens, B&R and KEBA**. At the company stand, visitors can see the **exoskeleton MATE** and the benefits of using it, wearing the new Comau's product.

MATE has been designed to improve work quality in an efficient and highly ergonomic manner by providing consistent and advanced movement assistance during prolonged overhead, as well as daily tasks. MATE is fully able to replicate any movement of the shoulder while adhering to the body like a “second skin”. Reflecting Comau's vision and commitment to innovative, open and easy-to-use technologies, MATE is an important part of the company's **HUMANufacturing** strategy, a concept in which people play the leading role within the smart factory alongside cutting-edge digital tools, enabling technologies and ‘intelligent’ industrial robotics within a networked production system. Developed in conjunction with IUVO and ÖSSUR, MATE is the first available product of a series of wearable technologies being commercialized by Comau. MATE was designed and developed at the Comau HUMANufacturing Innovation Center in Pontedera (Pisa), Italy.

Visitors interested in machine tools will be able to see a **Racer5-0.63** in action. The unit on display will feature a 5 kg load capacity at the wrist, 630 mm of arm extension, and a Siemens Sinumerik 840D controller. In a solution designated **Run MyRobot /Direct Control**, control of all of the Comau robot's 6 axes is integrated in the Siemens CNC and control software. The robot's synchronization with the machine controller permits accurate directional control of mechanical movements, low cost supervision and remote diagnosis of the entire machining process. A single smart system ensures lag-free communications between the robot and the machine without having to duplicate hardware. The entire system can be programmed in the ISO language typical of machine tools.

The **Kemotion** solution, presented in collaboration with KEBA, is just as interesting. A **Racer5-0.63**, controlled by a Kemotion system, will combine movement functions, robotics, control technology, system safety technology and an intuitive user interface. The system is ultra-compact, modular and scalable. This integrated solution allows users to implement





automation on a single hardware and software platform, ensuring faster entry into service, superior performance and greater efficiency.

Comau's integrated robotics offering at the event will be completed by the **OpenROBOTICS** solution, developed in conjunction with B&R. B&R electronics are already incorporated in the C5G Plus controller of Comau's robot and will help Comau take another step forward in the integration of robotic arm and machine. Thanks to mapp technology, B&R is able to control numerous Comau models in native mode, directly from within the machine's programming environment, contributing to a more intuitive operator interface. Perfect robot integration in programming environments and real-time communication between robot and machine PLC guarantee the synchronization of all moving parts – and consequently, greater flexibility and precision in production – and lead to significant savings in space and development times.

The **Agile1500 Automated Guided Vehicle** (AGV) will be on display at Comau's stand and at the stand of Comau's partner, **Kollmorgen** (Stand F022, Hall 3). In keeping with its motto, "Fast Forward to the Future", Kollmorgen will be demonstrating an Agile1500 interfaced with a collaborative robot. The Agile1500, developed by Comau and equipped with Kollmorgen's CVC 6000 Compact Vehicle Controller, is an autonomous AGV that can carry loads of up to 1500 kg and boasts a best-in-category size/capacity ratio. It can move safely at speeds up to 1.7 m/s and features an end rotation function that is extremely useful for maneuvering in confined spaces.

Davide Pagliarulo, Comau Robotics and Automation Products EMEA Sales Manager, will lead a workshop entitled "**Open Arms Solution: Comau's Approach to Integrated Robotics**" at the **Robotics Arena in Hall 4.1 on Tuesday, May 28, from 11 a.m. to 12 p.m.** SPS Italy also offers students and teachers a chance to visit the show, meet exhibitors and take part in teach-ins by leading companies in the field of industrial automation. As part of these arrangements, Comau will be pleased to welcome classes interested in learning more about **e.DO™**, the Comau robot dedicated to education, at **stand A034 in Hall 7**. Finally, Comau will hold a workshop on the "**Comau Academy and e.DO Experience**", animated by its own Learning Factory team at the Competence Academy Arena on **Tuesday, May 28 from 12 p.m. to 13 p.m.**





About Comau

Comau, a member of the FCA Group, is a worldwide leader in delivering advanced industrial automation products and systems. Its comprehensive portfolio includes technology and systems for electric, hybrid and traditional vehicle manufacturing, industrial robots, collaborative and wearable robotics, autonomous logistics, dedicated machining centers and interconnected digital services and products able to transmit, elaborate and analyze machine and process data. With over 45 years of field-proven experience and a strong presence within every major industrial country, Comau is helping manufacturers of all sizes in almost any industry experience higher quality, increased productivity, faster time-to-market and lower overall costs. The company's offering also extends to project management and consultancy, as well as maintenance and training for a wide range of industrial segments. Headquartered in Turin, Italy, Comau has 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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