



COMAU HAS A REAL SENSITIVE ROBOT

AURA (Advanced Use Robotic Arm) is Comau's new collaborative robot featuring high payload and high sensitivity. Like with human senses and thanks to the simultaneous use of six safety layers, it can identify the presence of a person and interact with him in a totally secure way.

Hannover, April 24, 2017 – Industry 4.0 redefines the roles of automated machinery and man in a collaborative context. Over the years, automation has improved working conditions, allowing people to deal less with heavy, tiring and dangerous tasks and giving them a superior position in the process, all while increasing their efficiency, productivity and the quality of the final result. Today, we can achieve the same degree of improvement by enabling a fully-fledged, close and direct collaboration between man and machine. A collaboration which, thanks to Comau, is no longer limited to service robots, nor to the use of small size robots in industrial applications, or those with a limited payload.

AURA will be in the demonstration area in Comau's booth (C04, Hall 17) at Hannover Messe 2017.

AURA – Advanced Use Robotic Arm

AURA – Advanced Use Robotic Arm – is an innovative upcoming product for the robotics industry that, for the first time, creates a true collaboration between high payload robots and man. It is in the process of industrialization and will soon be launched on the market.





Extending the features of collaborative robots to machines with high payload means that a lot of industrial sectors have the option to implement safe applications throughout their processes.

We have exploited the senses

AURA is inspired by human interactions. When we interact, we use our senses in combination, especially touch and sight. We observe the movements of other people and move with them through the surrounding space. Our perception of others via touch directs our actions and reactions, as does sight - whether the other person is at the center or edge of our visual field and our attention, it is sight that directs our behavior. Finally, when we want to touch someone, we contact or push them in a specific direction, and even more so when our bodies instinctually react to something, like fending off a blow.

A robot that wants to be collaborative must be able to interact with man, and to do so, it needs to respect these factors.

That's what AURA is all about

The robots are equipped with sensors installed under a layer of protective foam to ensure total safety. The management of sensitivity is a unique feature of Comau solutions; for the very first time, AURA combines the simultaneous perception of the proximity of a person – or of any other component of automation – as well as their contact and their intensity. The combined use of these technologies, employing laser scanners to identify the positions of people, makes it possible to ramp down the motion of the robot to a complete stop only when it is very close to or actually in contact with the worker.

But that's not all. When AURA is touched, it stops moving and can react according to operator needs, using its sensors as if they were buttons.



Extended cooperation without compromise

AURA is a unique technical solution in the field of collaborative robots and, above all, solves a number of issues of today's existing solutions.

The combined, integrated use of sensors and controls ensures that Comau collaborative robots can be installed in any position, even overhead, and without the need to avoid vibration.

AURA makes compromises in design, layout and footprint a thing of the past, and replaces them with an unequivocal series of advantages:

- High payload management
- Fully collaborative robotic systems
- Collision prevention
- Collaborative hollow wrist technology on the NJ4 model
- Technology unaffected by vibration
- Soft, sensitive skin covering the entire machine
- Smart speed tuning in different safe zones
- Smart interface

And uses 6 safety layers:

- Laser scanner
- Full coverage foam skin
- Proximity sensor
- Contact sensor
- Wrist force sensor
- Manual Guidance





Comau extended the technologies used on AURA robots to its associated equipment as well; together with the robots, Comau offers a collaborative gripper, equipped with a force/torque sensor fitted to the robot flange and uses the same safety layers of the robot.

PRESS RELEASE



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About Comau:

Comau, a member of the FCA Group, is a worldwide leader in delivering advanced industrial automation solutions that integrate products, technologies and services to help companies of all sizes increase plant efficiency while lowering operating costs and optimizing returns. Headquartered in Turin, Italy, Comau has over 40 years of factory-proven experience, and an international network of 34 locations, 15 manufacturing plants and 5 innovation centers that span 17 countries and employ more than 9,000 people. With a strong focus on innovation, Comau is committed to developing competency through the formation of individuals and groups as part of its open automation approach. Comau is driving the future of production automation by engineering lean and sustainable solutions and products. Its modular, flexible and highly-configurable products can be tailored to meet the needs of each individual customer. Through the continuous development of products and services, Comau is able to lead the automation industry in every phase of a project - from design, implementation and installation, to production start-up and maintenance services. Its comprehensive offering includes manufacturing and assembly solutions, powertrain machining, robotics and asset maintenance services for a wide range of industrial sectors.

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