SAFETY AND COLLABORATION BEYOND ROBOTS

A completely collaborative system offers Italy's renowned coffee to the visitors at Automatica 2016

*Munich, 21 June 2016* – At Automatica, Comau shows a real collaborative system to serve coffee to visitors of the fair, using AURA (Advanced Use Robotic Arm) technology.

The solution is comprised of Amico, a humanoid concept robot presented for the first time last October at EMO Milan, employing Racer3 technology and a mix of techniques and design which enable it to reach the surrounding space. It also includes a Racer5 robot in the collaborative configuration and a rotary table, an absolute novelty at the international level, equipped with the AURA collaborative technology.

Since the application is fully cooperative, the demonstration starts with a visitor ordering his preferred beverage on a tablet located at the bar counter, made up of the Comau rotary table. Once the order has been entered, it is sent to Amico, which selects the requested option on a coffee machine.

Amico then hands the beverage to the Racer5 mounted on the table in a collaborative configuration, which then hands it to the visitor to enjoy.

This application highlights Comau's technological know-how, as demonstrated by our collaborative solutions of unmatched complexity and sophistication. The demo extends safety to all parts of the automation, not just the robot. It increases the interaction between man and machine and also features the benefits of a reduced footprint and layout, thanks to the elimination of protective barriers.

It is precisely the interaction of the components which gives the demo its significance. The rotary table – the first in the world to employ collaborative technology – deserves special mention; this approach is particularly significant for industrial applications, since it can slow down its rotation, stop or change direction when pushed by the operator, thanks to its yielding construction. The demo is controlled by two C5G controllers, one to control the Racer5 and the rotary table, and the other to control the 14 axes of Amico.
About Comau:

Comau is the worldwide leader in manufacturing flexible, automatic systems and integrating products, processes and services that increase efficiency while lowering overall costs. Headquartered in Turin, Italy, with an international network that spans 17 countries that employ more than 12,600 employees, Comau uses the latest technology and processes to deliver advanced turnkey systems that consistently exceed the expectations of its customers. Comau specializes in body joining & assembly, powetrain machining & assembly, robotics and maintenance, as well as advanced production systems and environmental services for a wide range of industrial sectors. The continuous development of its products and services enables Comau to lead the automation industry in meeting the unique requirements of each customer, and through all phases of the project – from design, implementation and installation, to production start-up and maintenance services.

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