

RFID

TOUCHLESS
CONTROL FOR
PRODUCTION



Touchless identification
for productivity control.



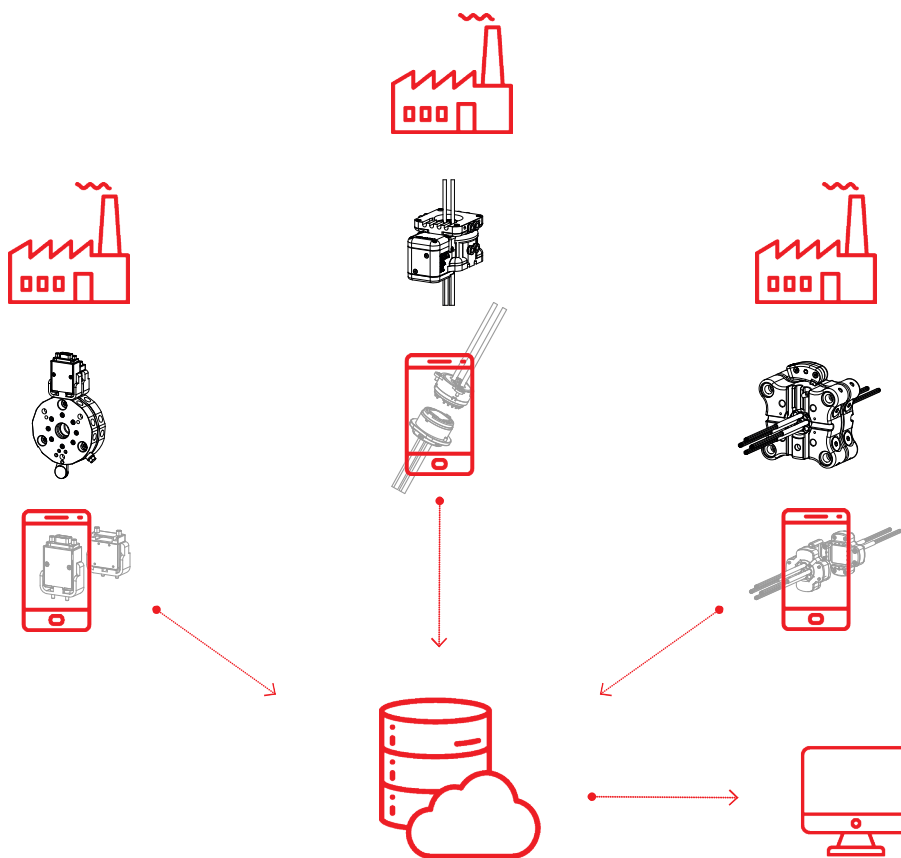
RFID

Smart control for plants

Gimatic is constantly looking for innovative solutions for its customers, succeeding to improve the performance of their machinery, in terms of efficiency, duration and waste reduction.

In an industry 4.0 perspective, Gimatic made use of RFID technology.

This solution allows the operator to check the conditions of the product and to collect important information for predictive maintenance.



How does the RFID system works?

1 The RFID system consists of an **RFID reader** (placed on the robot's wrist) and a **memory TAG** (one for each gripping hand).

The TAG allows to recognize **up to 255 gripping tools**, thanks to the binary coding with 8 digital outputs 24Vdc.

2 Thanks to an external reader (App for Android smartphone, PC or tablet) it is possible to **read and write all the data relating to the gripping hand**.

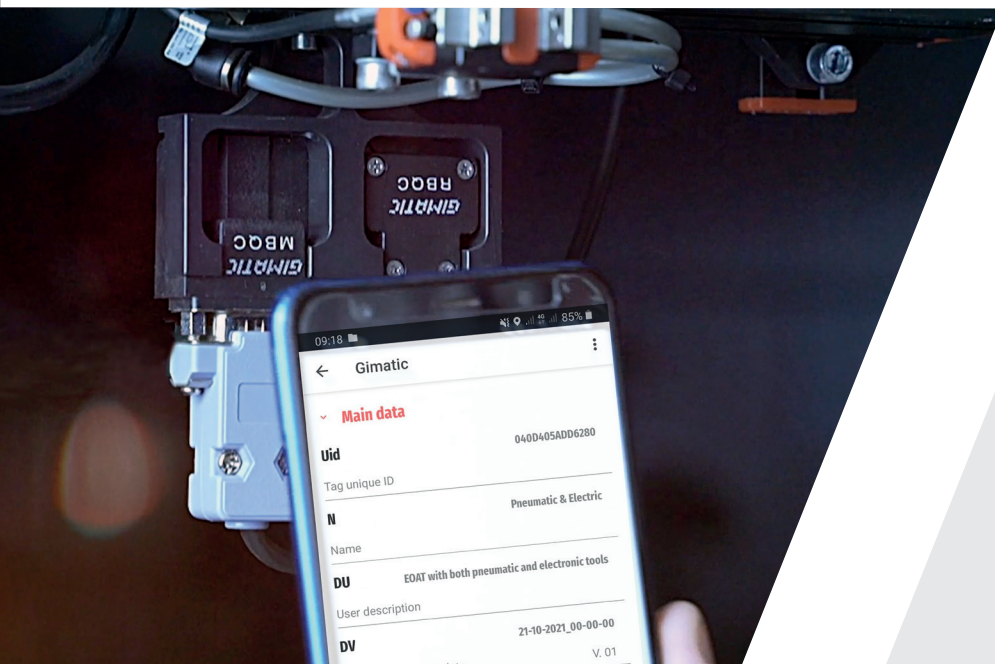
The data are saved on the Gimatic **Web Service** and remains accessible to the user.

3 With this system it is possible to **set limit values** and receive an alarm signal when they are reached.

Thanks to this notification, it is possible to **schedule maintenance interventions** avoiding the interruption of production cycles and downtime.

How to read and interact with data?

The use of RFID technology, like many other Gimatic products, represents the approach of the company in the industrial automation challenge.



> The data collected include the main information of the gripping hand, for example: the list of components, the mass properties, the geometric properties and the numbers of cycles performed.

> These data are essential to be able to carry out predictive maintenance and can allow the robot to automatically adapt the dynamics of movement on the basis of the specific gripping hand.

Web Service



The informations contained in the TAGs are transferred in the Gimatic CLOUD platform called Web Service. This allows the customer to collect data from all gripping hands of all its establishments and to have access to it at any time via the online platform.

Software for PC WindowsApp



With the free software for Windows PC, developed by Gimatic, it is possible to check the data of the gripping hand through the use of the **RQCBOX** which connects the PC with the RFID reader (RAQC, CRAQC, RRAQC). The software allows to export and to import the parameters read in a descriptive XML file of the EOAT.

App Gimatic for Android



The App is free and can be downloaded from the Android store. It allows you to quickly and intuitively check the data of the gripping hand, reading them through touchless recognition without any need for cables. The app offers the possibility to export and to import the parameters read in a descriptive XML file of the EOAT.



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