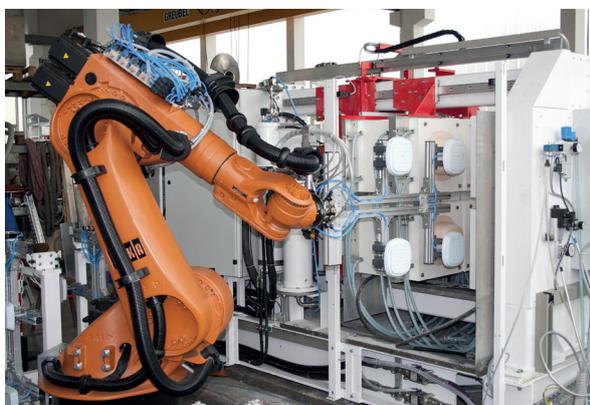


## SACMI-SAMA's PCM Line – a Success for 20 Years

More than 200 pressure casting machines from the PCM range for tableware items have been sold around the world by SACMI-SAMA. Of these, over 50 solutions are part of the new "GREEN series", with which the SACMI Group has remade its mark on the market over the last five years, leading the way with its focus on efficiency and energy savings. Top performance, together with optimum cell flexibility, are the key features explaining the 20 year-long success that these solutions have found in the Tableware sector during the switch from mainly manual work processes to totally automated lines from piece casting and demoulding to drying and finishing operations. Thanks to their capacity to combine full automation with a high level of customization these solutions have been purchased by numerous leading customers on the market where demand is still strong for these modular machines suitable for handling a wide range of production.



Together with their special SAMApore macroporous resin moulds, the PCM line brings together top quality and process repeatability with optimum durability of the machine and moulds. As with other SAMA solutions in the tableware sector, this proposal both meets the requirements of the largest manufacturing Groups – with the ability to position the level of innovation at different levels according to geographical area, products, markets – as well as those of a smaller size who are nevertheless focused on product excellence and state-of-the-art technology.

Every casting cell – made up of one or more machines, robots and auxiliary equipment – can in fact be set up according to customer requirements depending on the product,

degree of flexibility and level of automation needed. Among the various possibilities there is, for example, the installation of a pair of machines served by a single demoulding robot – equipped with dedicated pick-up suction cups – provided with a rapid mould change-over unit to better control wide production ranges in small lots, carried out with the same production process. Even finishing operations can be fully automated thanks to the use of a robot.

The special PCM NH 25 is equipped with a horizontal mould clamping system and it is possible to install 2-part, or even 4-part moulds, thanks to the optional vertical cross-bar, which has two hydraulic cylinders for vertical mould clamping allowing for production of complex pieces such as cups with handles. Furthermore, it is possible to install multi-cavity or single-cavity moulds on this machine, according to production requirements and piece dimensions.

The main advantages of the PCM "GREEN series" include; energy savings of up to 85 %, eliminating the use of cooling water

and significantly reducing noise levels to safeguard operator health and safety.

A further opportunity, in addition to the vast choice of configurations and tonnage (in the range 100–150 t), is provided by the possibility to install machines with double head and/or double plate to increase the number of moulds installed and therefore the production output with the same space occupied. A further contribution to achieve efficiency, quality and process repeatability is provided by the innovative 3D simulation software which allows the user to check the cell overall dimensions and work cycles during the design stage. Carried out together with SACMI-Gaiotto, these feasibility studies are becoming more and more important in order to optimize and integrate man-machine-robot resources.

In the same way, the SAMA pilot plant and R&D Centre are available to the customer in order to carry out preliminary trials any tests required on new products to ensure the best guarantee of the expected results even before industrialization.

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