

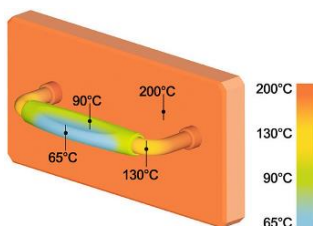
Case study: Elesa+Ganter solution for high temperatures – MMT. handle



Application of MMT. handle on the HS K-Desk Precision machine



MMT. handle for heat insulation in steel and technopolymer



The figure shows the different temperatures reached in various points of the handle assembled to a plate stabilized at 200°C during laboratory

KELLER (www.e-keller.pl) – A Polish company based in Dąbrówka – specialized in the production of machines for industrial printing processes for various sectors, customer of the subsidiaries Elesa+Ganter Polska, was looking for a solution: a handle which allows the manual extraction of the heating plate (which reaches a temperature of 250°C), used for heating the moulds, without having to wait for long cooling times. Ideal solution to reduce mould change times and facilitate their replacement.

Elesa+Ganter proposes **MMT. handle for heat insulation**, which has been later chosen by Keller.

MMT. handle is composed of a steel round cross section bar, with fine ground matte chrome-plated surface, with a heat insulation element in glass-fibre reinforced polyamide based technopolymer, in black colour, with matte finish.

A series of internal aeration canals of the technopolymer heat insulation element allows an excellent heat insulation, which minimizes the heat transfer to the operator's hands, ensuring a firm and safe grip with the fingers. The ergonomic design, properly studied, helps to facilitate the grip, putting the operator's fingers away from the heat source.

Tests, carried out in the internal laboratory with continuous working temperatures up to 200°C, show that MMT. handle transmits a temperature between 65°C and 90°C on the element in technopolymer.

Heat insulation is the fundamental feature of the MMT. handle which also makes it ideal for use on opening doors of stoves and fireplaces.

Designing solutions that guarantee the highest level of safety and comfort, it is now a prerequisite for design. The health and the safety of the operator in work environments, especially those in which the operator is exposed to conditions that could harm him, such as in the case of Keller exposure to high temperatures, are fundamental factors of which designers of machines and equipment have to deal with until the first stages of the project development.

Contact:

Fabio Invernizzi | +39 039 28 11 1 | fabio.invernizzi@elesa.com

Elesa S.p.A.

Via Pompei, 29 20900 Monza (MI) | Italy
+39 039 28 11 1 | info@elesa.com | elesa.com

elesa-ganter.com



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Once again, the range of Elesa+Ganter standard components has demonstrated to be able to meet specific customer needs, without having to resort to particular customizations.

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