

RAMPF Tooling Solutions – Down to the very last detail

1:33 scale model of the renowned Quernst Chapel made of RAKU-TOOL[®] working board material

Grafenberg, September 28, 2016. Working board material from RAMPF Tooling Solutions has been used throughout the world in a wide variety of applications. The challenge with regard to the recently completed Quernst Chapel project was to portray a great historical monument in a much smaller dimension and in great detail – a job tailor-made for RAKU-TOOL[®] working board material WB-1440 and WB-1460.

Historians cite that the Quernst Church – a pagan Germanic shrine – was constructed in what is today the Kellerwald-Edersee National Park in northern Hesse at the start of the eighth century. In the Middle Ages, it was visited by countless pilgrims.

For a long time, earthworks and wall fragments have been the only visible signs of the former sacred site – although this is presumably due to the ravages of time, not the persecution of pagans. In 2006, a place of worship was built on the plateau where Quernst Church used to stand: the Quernst Chapel.

And this is where RAMPF Tooling Solutions plays a part – a 1:33 scale model of Quernst Chapel was to be produced to mark its tenth anniversary. The customer's wish? A small and very, very finely detailed model. And that the miniature version of the chapel should be built as a model which could also be appreciated by blind people, in accordance with the ambition to make the nature park Kellerwald-Edersee accessible to as many people as possible.

“Thanks to the dense surface structure, ease of milling, and excellent edge strength, a very high level of detail was achieved in the model using RAKU-TOOL[®] WB-1440 and WB-1460 working board materials,” says Bernhard Deliege, Regional Sales Manager at RAMPF Tooling Solutions. “Another advantage was the environmental credentials, as RAKU-TOOL[®] WB-1460 is manufactured with recycled polyol.”

After the measurements of the Chapel were taken, the model was produced by CAD milling the parts made from RAKU-TOOL[®] WB-1440. The landscape models were produced using RAKU-TOOL[®] WB-1460. The individual parts were then bonded using RAKU-TOOL[®] EI-2500 / EH-2970-1. “Due to the excellent flow properties and low viscosity of this system, the resulting bonding lines are very thin and barely visible”, Deliege points out. Finally, the individual model parts were bolted together.

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The „little chapel” had its big moment at the celebrations for the 10th anniversary of the Quernst Chapel. Several hundred people came to Kellerwald-Edersee National Park to visit the Chapel and take part in a festival service.

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RAMPF Tooling Solutions GmbH & Co. KG develops and produces board and liquid materials for cutting-edge modeling and mold engineering. The range of skills includes made-to-measure services and products such as pastes, large-volume and full-size castings for Close Contour models, and prototyping systems.

Based in Grafenberg (near Stuttgart), Germany, RAMPF Tooling Solutions is the world's largest producer of styling, modeling, and working board materials, which demonstrate excellent quality and the best mechanical properties.

High-quality Close Contour Pastes, Close Contour Blocks, and Close Contour Castings guarantee excellent and cost-effective solutions for modeling and mold engineering.

The company produces and develops pioneering systems for the composites industry that cover a wide variety of production procedures and a broad range of temperatures.

It goes without saying that RAMPF Tooling Solutions also provides expert advice, customer-specific service, and prompt technical support.

RAMPF Tooling Solutions is a company of the international **RAMPF Group** based in Grafenberg, Germany.

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