

CNC Machining Systems in Use:

Goldsmith Training with CAM 4-02 Impression

The goldsmith Roland Auer from Vösendorf in Austria shows in a technical training for the German trade magazine "Goldschmiede Zeitung" how to create an elaborately designed necklace of red gold, nacre and Paraiba tourmalines. The four-axis micro-machining system CAM 4-02 Impression by vhf is used for milling the wax models of the gold parts, a clasp of hardened gold sheet and the nacre elements.

Auer describes in his richly illustrated article from the September 2011 issue all necessary steps to create an impressive piece of jewellery out of the appropriate raw materials. He goes into detail about the respective particularities when milling the necessary materials wax, gold sheet and nacre. A more detailed version of his article (in German) with all images and the additional possibility to download the 3-D construction data can be found on the author's website: www.roland-auer.com.

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Photos

(all photos by Roland Auer)



The finished necklace of red gold, nacre and Paraiba tourmalines: the gold parts have been produced with the classical lost-wax technique.



Detail view: The nacre elements have been milled out of a 3.2 mm thick plate which was fixed in the milling machine with a special device.

Detail view: The clasp has been directly milled out of a hardened gold sheet in order to ensure the necessary flexibility.

