



**SYSTEM/
APPLICATION**

STEINBICHLER COMET 5, 1.4M
Surface 3D digitizing

INDUSTRY

History/ Archeology

CUSTOMER

Edico a.s., Slovakia

TASK

Edico is a company offering products in the IT area, IT solutions and data processing which is an vast area of occupation. One of those is oriented on historical and archeological field. In order to preserve the cultural heritage, Edico is digitizing and filing various types of historical artifacts. One of them (and among the most remarkable) is The Venus of Vestonice. The task was oriented on virtual study on created 3D model, e.g. its shape, surface tracking and tools that were used in its making process.

STEINBICHLER SOLUTION AND PRODUCT

Steinbichler COMET5 Sensor is a measuring system able to perform measurements for such applications as checking dimensions, shapes and position tolerances of objects from simple geometric elements through to free-form surfaces. Obtaining data is now quicker because of shorter acquisition times. One of the greatest advantages of the system is its mobility according to its rugged body and case.

RESULT/ CUSTOMER BENEFITS

The requirements in this task were to achieve highly precise measurement of historical artifact from which a quality 3D model could be obtained. Thanks to the measurement with high precision (7-8 μ m) and resolution (75-150 μ m) the measured and postprocessed spatial data resulted in very good 3D surface model which can be studied to the smallest details. This can help us to understand the techniques and skills of our ancestors.

But there are other great aspects besides keeping and maintaining our cultural heritage in a digital form for further study and for the next generations. It is easy sharing of these data between historical, cultural or archeological institutions all around the world.