

Reproducing of the Einstein's Bust



APPLICATION NEWS

Reproducing of the Einstein's Bust

1. Purpose

The year 2005 in Germany is the year of Albert Einstein. Because of this reason the "Deutsches Museum" (German Museum) decided to commemorate Einstein its own way. A bust of Einstein had to be digitised, scaled down and reproduced with a 3D printer (ca. 30000 exemplars) in order to distribute the copies commercially.

As Konica Minolta already had had experience in similar projects, the Management of the museum kindly asked Konica Minolta Germany to digitise the original bust (ca. 66 cm height and 70 kg weight) with a VIVID digitiser.

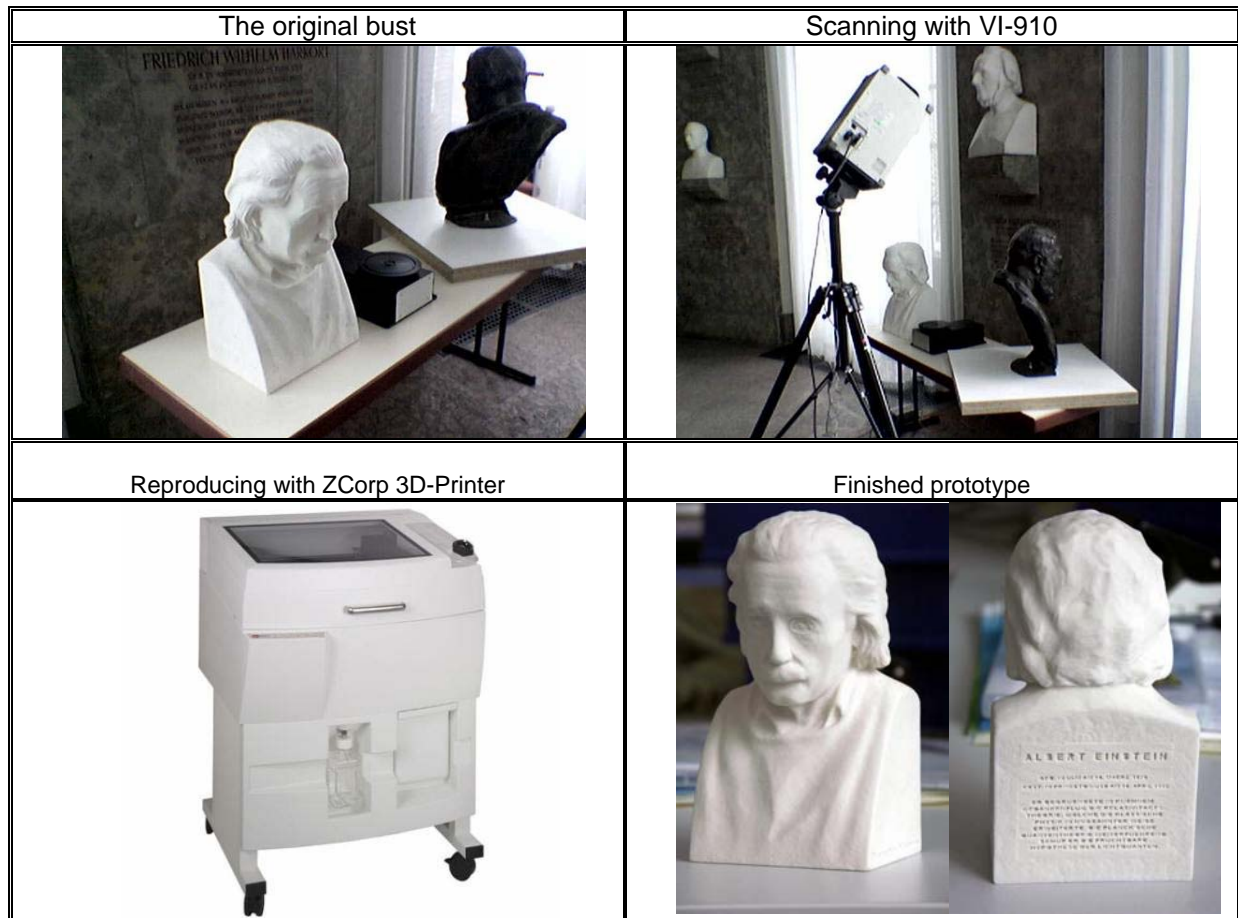
To digitise the bust the VI-910 was used. After digitising, the bust was reproduced with a Z-Corporation 3D printer.

2. Workflow and working time



PROCESS	DESCRIPTION	WORKING TIME
Scanning, registering and merging	Scanning the bust with VI-910 and middle lens	40 min.
Data editing	Fine registering, Merging	15 min.
Producing of a prototype with ZCorp 3D Printer	Printing of the prototype (The mass production was made using gypsum casting method)	5 h.

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3. Advantages of using Konica Minolta VI-910

- Great portability of VI-910
- Short scan time
- Thanks to optical measurement method good protection of originals
- Archiving and Prototyping