



## 3D ColorJet Printing (CJP)

### A model is worth more than a thousand words...

ColorJet Printing (CJP) is the most cost-effective and quickest procedure to directly produce multicolour, three-dimensional models from 3D data. The functionality is similar to that of an “inkjet printer with a z axis”, and with it, the ZPrinter-ProJet 3D printers create models through a layer by layer printing of colour binder on a gypsum-based powder material.

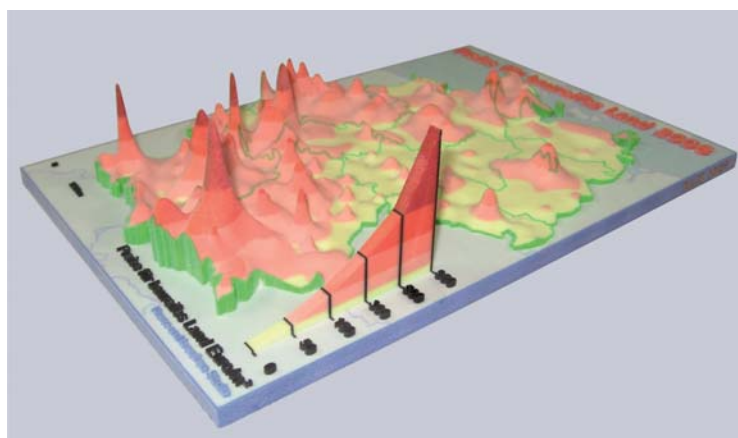
The complete range of colours all the way to photorealistic textures is possible here. Subsequent colouring is no longer necessary. 3D data for 3D printing can be imported into various software packages and from all kinds of sources, of course including all customary 3D CAD and simulation programs, but also through 3D scanning and similar digitisation and measuring methods.

Printable 3D data can thus be derived from DGM-data or image data, e.g. from a drone - in this case including colour information, of course. But data can also be combined from different sources, such as e.g. a digital terrain model with development for an urban planning model. If a 3D record is available, models can be printed at any scale; larger models are hereby segmented. The limits of conventional model-making do not make any difference with 3D printing - the more detailed the data, the more impressive the tangible model.

## 3D printing - models made with GIS data

Colour as an additional information carrier opens undreamed-of options, especially for presentation and communication. Complete regions, moving topographies, elevation models, mountain models or e.g. statistical models can be plotted using 3D printing.

The prerequisite for this is the appropriate 3D record that can be read into the printer software. The standard exchange format for 3D data with colour information is VRML. Other formats can be discussed with our specialists



Statistics of land prices of the Federal Office for Building and Regional Planning



## Urban planning with 3D printing



Alpine region Charmonix

3D printing is also suited for urban planning models, where it helps create contrasting colours for complex structures, new construction and planning areas thus making them visible.

Another option of course, is to realise such models with removable inserts so that different development drafts can be illustrated with models.

A model enables outstanding communication with all decision makers and amends the technical information in a descriptive and conceivable manner.

Importing and converting data is also part of our services.

Even with a highly complex terrain, a model can, for the most part, be created faster and more cost-effectively with 3D printing than with customary model-making methods.

Terrain models can be amended with aerial images, maps or any geographical information. This will give you highly accurate and descriptive topographical models.



City model New Orleans

## Using digital data several times and setting new standards



Topography model North America

Do you already have a digital terrain model of your planning area? This allows you to reuse valuable data several times and print your model with them.

You can select completely new scales for your terrain model. Smaller scales are finished faster, are clearer and require less installation surface.