

# Contex 3D-Drucker DESIGNmate Mx

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## **Contex 3D-printer DESIGNmate Mx**

With the Contex DESIGNmate Mx physical models can be produced directly of digital data - a process which lasts with this system only few hours instead of several days.

The system is quick, many-sided and simply in the use and offers to users the possibility to produce different draught models and functional components fast and reasonably.

The system finds use in the education area as well as in design departments whose product developers need quick access to 3D-printers.

The functional design of the 3D-printer and his easy user interface make him the ideal entrance system of the rapid development of prototypes. The versatility of the device allows to the users, moreover, the quick production of parts for the assessment and check in the design phase up to the functional testing of the components or models for downpour applications.

Perfect pressure quality:

Bigger exactness, improved surface goodness and maximum pressure resolution allow from the desktop the production of high-resolution prototypes whose goodness resembles a ready product.

Quick production also of big models:

Big component dimensions with a short pressure duration with incomparably high efficiency allow the full exhaustion of the 3D-pressure, so that you can provide any time the components and judge which you need.

The functionality of the Contex of 3D printer:

1. Roller distributes a layer of powder
2. Standard ink ray pressure heads HP distribute the colour binder (Cyanblau, Magenta, Yellow, Clearly)
3. Cross section of the component solidifies
4. Hebezyylinder falls and makes room for a new layer
5. Process is repeated so long to the component is ready

### **Contex 3D-printer**

Qualitatively high-quality 3D-models play more and more often a key role in the communication process of enterprise.

Contex 3D-printer print in few hours of highly distraught full colour models 3D and pattern parts on the base of 3D-data. The models offer to all partners a real effigy of the idea, the form, the construction, the design, the building or the area model and are to customary drawings and 3D-representations in her explanatory power far consider.

By the consideration of the physical object mistakes and problems reveal themselves early and avoid. The high productiveness, the low model costs and the easy use of the Contex 3D-printer helps to lower enterprise costs and already allows in very early phases of the product development an economic application of printed 3D-prototypes.

colour printer 3D at unmatched speed

3D-printers of Contex work layer-educationally directly in a powder bed. No supporting constructions are thereby required also with complicated printing out rich in detail, a next removing of Supportmaterial is cancelled. The whole construction space of the printer can be used for manufacturing. Different parts print themselves side by side or also about one another in the construction space place and in an operation.

With Contex to 3D-printers models can be printed directly in 24-bit colour from program data CAD. Architecture and draught planning, towns and scenery planning in the G SHARP SPHERE, use in medicine and science, form and assembly analyses of parts with complicated geometry: all this is possible.

The provided models can reach the maximum mass from 250 / 350 / 200 mm (width / depth / height). Several individual parts can be composed on printing out easily to a 1:1 model. The provided software allows a quick simulation of critical print orders to you; this supports above all your tests and the use of unexperienced print orders. Special software functions extend the colour advantages of the Contex 3D-printer by means of optional partial inscription, sign colour, texture, remark and inscription possibility.

#### An easy use

3D-printers of Contex are from the functions to compare to the company and the use to an ink ray printer. The Contex 3D-printer can be already pursued after a short installation. After occurred configuration models can be printed out fast and simply. Constant supervising of the printing process is not necessary, just as special cooling, air pressure or nitrogen.

The robust construction method allows a mobile application of the printer. The arrangement can become easily umplatziert. A renewed installation or calibration by a system engineer is not necessary. The qualitatively high-quality mechanics works reliably and is claimed only slightly. Contex 3D-printer use production pressure heads of HP. Reasonable and trouble-free postpreparing of the only slightly taken up components is possible any time about one of many HP shops and HP partners.

#### Economic efficiency

Construction time and operating expenses are low: Contex 3D-printer reach a from 5 to 10 times quicker manufacturing than the topical standards in the layer construction method. Favorable prices of consumption material lead to low cost of materials of 0,10-0,20€ per cm<sup>3</sup>. This is substantially more favorable than with alternative technologies.

The different, inexpensive materials are innocuous everybody and can be used safely and without cost-attacking preventive measures in the job. The powder which is not integrated into the model is available later for the next pressure of a component. They reach with the 3D-printer from Contex a material exploitation of nearly 100%.

#### Our achievements

- Distribution
- Product consultation specific for requirement
- Product comparison
- First installation and product trainings
- Comprehensive Support
- Project management

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