

According to the type sheet, the printer is a DESIGNmate CX and was sold as SPECTRUM Z510 by Z-Corporation, which has since been bought by 3D Systems.

The operating materials are still sold as VisiJet PXL. This is the powder as well as the colored binders. In addition, an infiltrate is needed for the part finish, sold here as Z-Bond.

The print heads are standard print heads from Hewlett Packard: HP11 (black), of which 4 are needed.

The printer produces models within a short time (approx. 2,5cm/h) full color with 24bit (truecolor) color depth full color or textured, in a resolution of 600 x 540 dpi or layer thicknesses of 0,089 or 0,1mm. Size of the construction space: 250 x 350 x 200mm

The material from the 3D printer is a so-called composite material. With the help of a print head, analogous to 2-dimensional printing with an inkjet printer, a 4-color binder (CMY and clear) is injected into a layer of mineral powder. Here, local consolidation takes place as well as a bond with the underlying layer. Following the printing process, the object is removed from the powder bed and infiltrated (soaked) with polyurethane resin or cyanoacrylate, giving it its final dimensional stability.

This includes the depowder station with accessories, here the models are freed from excess powder with compressed air, which can then be reused.

The ZPrint 7.10 printer software runs under Windows OS, as does ZEdit. Both programs are included.