

## MultiJet Printing

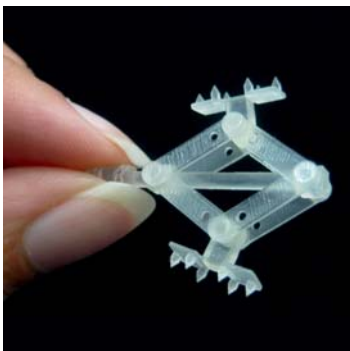
A reactive acrylic photopolymer is used for MultiJet Printing. The building material is transferred onto the building platform in layers with a print head. The material immediately solidifies there and is hardened through the application of UV energy. The automatically generated sacrificial support structures consist of a wax material with a lower melting temperature than that of the component material. The sacrificial structures can thus be melted out easily in a subsequent process. This makes even complex interior channels possible. MultiJet Printing is suitable for applications that require a very high degree of surface quality, accuracy and detail.

## Advantages

- Accuracy and high level of detail
- High surface quality
- Shape stability
- Water- and gas-tightness
- Complex interior channels possible



## Options



- Maximum component sizes 298x183x203 mm
- Variable sheet thickness from min. 16 to 32  $\mu\text{m}$  max.
- Minimum wall thicknesses starting at 0.1 mm
- Movable assemblies
- Delivery times starting at two workdays



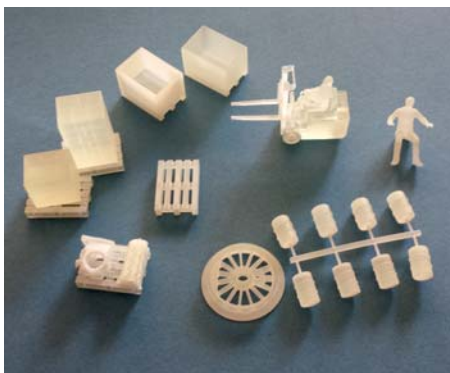
## Application example termite

|                        |  |
|------------------------|--|
| Requirement:           | realistic display model<br>for nature study presentation |
| Component dimensions : | approx. 6 x 2 x 3 mm                                     |
| Material:              | ProJet M3 Crystal  |
| Small-scale series:    | 240 pcs.   |

Because of the superior accuracy, MultiJet Printing procedures enable the finest structures. Minimum wall thicknesses of less than 0.1 mm are possible. Even the finest details are left undamaged during the contactless finishing.



## Application example model making



|                        |   |
|------------------------|---|
| Requirement:           | Miniature models at a scale of 1:87<br>to equip of model railways layouts |
| Component dimensions : | Figure" approx. 20 x 10 x 4 mm  |
| Material:              | ProJet M3 Crystal   |
| Small-scale series:    | 50 pcs.   |

Even with the smallest model sizes, defined geometries can be reproduced correctly and realistically and true to scale. The 3D printing process also makes small batch sizes possible without elaborate tool making and subsequent injection moulding.

## Application example cordless screwdriver housing handle

|                        |  |
|------------------------|--|
| Requirement:           | close-to-production concept model<br>for checking fit and ergonomics |
| Component dimensions : | approx. 160 x 140 x 65 mm  |
| Material:              | Projet M2 RWT  |
| Piece production       |  |

Close-to-production sample parts can be realised within a short time even during early product development phases. Using these models can clearly reduce the necessary testing and examination cycles. This helps accelerate the market introduction of new products.

