**CJP - Colour Jet Printing**


**Applications**
- **Architectural models**: The various pieces, colours, and textures of the models for presentation to investors, customers or internal stakeholders can be created during printing, saving time and money.
- **Models for fairs and exhibitions**: Full-colour concept models or small replicas can realistically represent your products.
- **3D Figures**: Brings photography into the 3rd dimension.
- **Science, Medicine, and Education**: Full-colour models of organs, anatomical structures, or complex molecules. Data from CT, MRI, MRT, NMR or microscopy technologies can be easily processed and printed into enlarged and coloured physical objects.

**Materials**
- The ‘raw material’ is plaster powder, which is bound by coloured glue.
- It looks and feels similar to a full-colour sandstone, but it is not weatherproof.

```markdown
<table>
<thead>
<tr>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Full-colour 3D prints</td>
<td>• Parts can easily break off and become a hazard to children, therefore it should not be used for toys</td>
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<tr>
<td>• Cost efficient</td>
<td>• Not suitable for mechanical components or functional prototypes</td>
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<tr>
<td>• Quick production times</td>
<td>• After the standard production process, the surface is rough and very sensitive to moisture. Finishing process adds process steps to smooth the surface and protect the material with a clear coating.</td>
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<tr>
<td>• No support structures necessary</td>
<td>• The material is harmful to touch, it is not food safe.</td>
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<tr>
<td>• A 3D print does not require much extra work</td>
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</table>
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**Costs**
- Cost in colourjet technology is mainly dependent from material consumption.
- The machine is relatively fast compared to other 3D printing technologies.
- For larger models and small batch series the costs can be lower.

**Source**: [http://amtech3d.com], 2017

**Source**: [https://3faktur.com], 2017