



Architectural Models





Traditional techniques are employed alongside the latest 3D CNC machining and rapid prototype techniques to provide our clients with high quality and cost efficient models to the tightest of deadlines.

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Introduction

J.H.May have been supplying high quality architectural models and landscape models to architects, town planners and construction companies for many years. We are capable of producing complex models to tight deadlines from either 2D drawings or a 3D CAD model.

We always endeavour to utilise the most time and cost effective processes and materials in the construction of architectural models. Processes include laser cutting, CNC machining, SLA rapid prototype, SLS rapid prototype and vacuum forming.

Model finishing processes include painting, vacuum metalising and vinyl's.

We can accommodate any size of architectural model- the largest so far at 4m square.



Crown Wharf model
Traditionally constructed
From clients 2D drawing



Berwick Street planning model



Competition model constructed
using CNC machining and rapid
prototyping techniques

Case Study 1

Project

Sofia Master Plan Competition Model

Client

Zaha Hadid Architects

The Brief

To produce a 1.5m x 1.0m master planning model directly from the client's 3D CAD data within 2 weeks to meet a competition deadline. Design additions and changes to be ongoing throughout the build.

The Solution

An extremely close working relationship with our client was essential to the success of the model with constant changes, updates and additions. The landscape and existing features were CNC machined from the 3D CAD data in high-density model board in one piece. The central building features (45 separate structures) were manufactured using the SLS rapid prototyping process and mounted on a SLA rapid prototype base. The mirror feature was laser cut from acrylic mirror material.



Feature buildings are Rapid prototypes built directly from the client's 3d model data



Surrounding landscape created using 3D CNC machining in one piece of high density model board



SLS rapid prototype Building components

Case Study 2

Project

Hatfield Town Centre Model

Client

Kane Walker

The Brief

To produce a 2m x 1m scale model from client's 2D data to incorporate Hatfield Town Council's proposed town centre development and surrounding features. The main purpose of the model was to help all concerned, and specifically local residents and businesses, to understand the proposals fully.

The Solution

Construction of the model was undertaken using mainly traditional model making techniques. Some of the more complicated building was created in a 3D CAD model format by our design team and then CNC machined directly from this 3D model data. The model was finish painted and protected with an acrylic dust cover.



Architectural model of Proposed town centre development



We created 3D models of the more complicated buildings from the client's 2D drawings



The 3D models created were used directly in CNC milling machines

Case Study 3

Project

Coffee House Model

Client

Dobson White

The Brief

To produce an accurate model representation of a proposed café/restaurant from the client's 2D drawings to be located within an existing office building.

The Solution

Laser cut acrylic panels were fitted to a hand made framework structure. To achieve a good representation of the fabric roof our design team created a 3D CAD model file from which a vacuum form tool could be CNC machined. The resulting vacuum formings were painted and mounted to create the desired effect.



We created a 3D model file from the clients 2D data to enable CNC machining of vacuum forming tooling



The glass sections were laser cut from clear acrylic



One of our 11 CNC machining centres used for machining tooling and architectural model sections