



Concept and Display Models





High quality models produced quickly and efficiently by our dedicated team of model makers.

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Introduction

J.H.May models and prototypes have been producing high quality concept and display models at the highest level for many years. Our clients include some of the most prestigious companies in the world and all of them place a high value on our quality, speed and attention to detail.

Basic concept models can be created using rapid prototyping techniques or 3D CNC machining from foam very quickly and cost effectively to demonstrate fit, function and form. These cost effective model-making techniques which apply to both small and large scale models can further be utilised to produce ultra high quality concept models which can be finish painted, vacuum metalised or chromed to the highest level.

Our comprehensive 3D model design, mechanical, and electronic engineering abilities also allow us to offer functional models capable of demonstrating fully working and automated features.

Such models are especially useful for exhibition model and museum model purposes.



CNC turning used to produce a prototype beer keg exhibition model



3D CNC machining used to create models for a TV advert



Laser cut paper assembled into store flower decorations for Channel

Case Study 1

Project

Z-Car Concept Model

Client

Zaha Hadid

The Brief

To produce 2 intricate scale models directly from the clients 3D CAD model and finish to the highest level in a pearlescent white paint finish.

Front and rear lights to represent glass and a highly polished black base with good reflective qualities.

The Solution

The body was 3D CNC machined in high density Ureol directly from the clients 3D CAD model data. The wheels and tyres were rapid prototype SLA builds and the front and rear lights were made using CNC machining from clear acrylic and polished.

The model was then finished in a pearlescent 2-Pack paint with the windows being represented with a gloss black paint finish. The base was CNC machined from black acrylic and polished to create a highly reflective surface.

The 2 models have travelled the world and have been displayed at many prestigious venues including the Gugenheim Museum and Goodwood.



CNC machining of the main body from the clients 3D model data



The 2 models undergoing paint preparation and final assembly



Rapid Prototype and CNC machining processes employed to create these high level models

Case Study 2

Project

Bearbricks Shop Window Display

Client

Comme des Garçons

The Brief

To produce 3 identical models of the Bearbrick toy at 2 metres tall directly from the clients 3D CAD model data within 2 weeks. Medicom, the original designers and owners of the Bearbricks brand, insisted that the 3D models were a faithful copy of the toy.

The Solution

The model was broken down into components. The head, torso, arms and legs were 3D CNC machined in a low density foam directly from the 3D CAD model data.

Assembly followed hand finishing and painting just in time to meet the client's product launch date in central London.



Clients 3D CAD model utilised to enable CNC machining of the foam sections



Bears ready for dispatch



After 2 weeks of frantic CNC machining and painting the 3 bears' debut at the prestigious West End launch

Case Study 3

Project

Garmin Mobile Phone Exhibition Models

Client

Mayridge

The Brief

To produce 3 large scale models of a mobile phone/satnav at 2 metres tall from the manufacturers 3D Model data. The models were to incorporate plasma screens and all associated electrics and fixings. A cooling system to be designed to keep the plasma screens within safe operating temperature limits.

The Solution

Master tools were CNC machined in high density model board using the manufacturers 3D model data. The client's 3D data was altered to accommodate discreet cooling vents.

The models were produced in GRP from the CNC master tools and then mounted on a tubular support structure produced in our metal fabrication shop.

The models were finish painted to exhibition standard and fitted with the plasma screens, cooling fans and associated electrics.



CNC Machining used to create fiberglass moulds



Fully working exhibition models on the stand in Barcelona



Plasma screens and cooling fans fitted by our model making team