



CUTTING EDGE

DESIGNS

PRECISION CNC ROUTING
SERVICE & SIGN MANUFACTURE

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Welcome

To Cutting Edge Designs you're **ONE STOP Specialists in Precision CNC Routing for the trade**

Our business has invested heavily in a State Of The Art workshop which now contains 3 highly Precise CNC Routers ranging from 8x4 bed sizes to a massif 2.5 x 5m twin table machine we also have a number of other manufacturing machinery to cover virtually any requirements you may need

We can offer our **TRADE ONLY** customers all the benefits of CNC Routing without the drawbacks of owning and operating these expensive machines, with over 20 years' experience in CNC routing , design and fabrication we have manufactured virtually everything you can think of from simple letters to complex 3D moulds in a large range of different materials, with all this knowledge and cutting edge technology we are easily the Leading Experts in the field of CNC Routing and Sign Manufacture

So in Brief if you need something machined right first time every time with a fast and friendly service then look no further than Cutting Edge Designs for all your machining needs.



Why should I Use Your Company?

That's easy here are some points that make us no.1

- 20 years in CNC machining, CAD design and fabrication.
- High quality work at reasonable prices
- Next day delivery
- Large range of materials or you can supply your own
- Fast , friendly service always
- Free advice if needed
- Backup Service for other CNC owners
- 3 state of art CNC Routers
- Strictly Trade Only
- All work is fully confidential
- All our work is guaranteed
- Full CAD Design service
- Digital Printing

Flat cut letters

General

We offer a vast range of flat cut lettering in a large amount of different materials given you endless possibilities, we are able to achieve a wide range of finishes with the highest degree of quality in a costly and time saving manner.

Base products

The most common used materials for flat cut letters are acrylic, polycarbonate, Foamex, aluminium composite, aluminium, brass, copper, MDF, and plywood plus some types of hardwood we can basically machine any other material of your choice if needed.

Finishes and Effects

Most materials come in a large range of thickness, finishes and effects as standard. From gold stainless steel effect to powder coated metal and polished bevelled acrylic, we do it all in house to the highest standards, we can create new innovative effects by applying layers of different materials to each other to create a unique visual impression on your customer.



Fixing methods

All flat cut letters come with a range of fixing methods fitted in our factory ready for installation, the 2 most common types would be the standoff sign locators and the direct glue-on to surface both methods have good and bad points just depends on your application (please ring for advice if needed on this).

Templates

All letters require a template (fixing / drilling guide) to help you position the letters correctly, we make 2 main types a simply paper layout with drill hole positions pre fixed from the design stage (which means all letters are pre marked on their back when machined the reason for this is we have the drill hole positions saved on file so if a letter gets broke or stolen we can replace it without you needing to redrill new fixing holes simply pop it back on). We also make a rigid template which is very hand for small letters being applied direct to the surface.

Built up letters

General

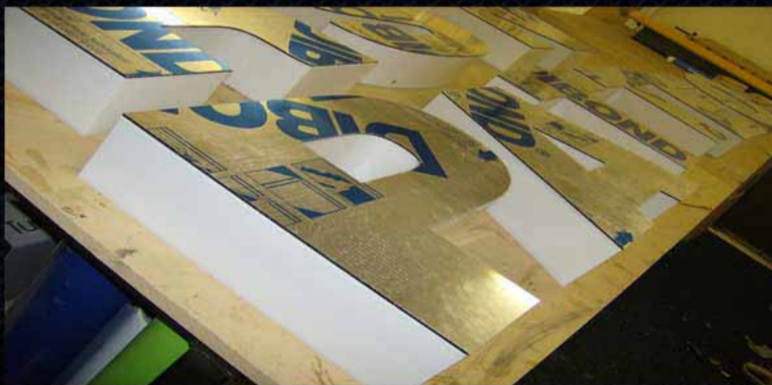
We have been manufacturing and supplying 3D built up lettering & logos for many years now and have a High level of expertise & experience in building these complex letters.

Finishes and Materials

We make our letters and logos primarily from acrylic, dibond and aluminium which come in a wide range of thicknesses and finishes. From brushed silver to powder coated or colour matched sprayed with either choice of matt, semi-gloss or gloss, the possibilities are endless

Innovation

We are constantly innovating our products and production techniques to provide the very latest products to meet customer visions. From innovative ideas to building prototypes, we work hard to create products for you to make your customers stand out on the high streets.



Fixing methods

There are a few fixing methods that can be applied to built up letters just depends on the application of the letters and their position on the wall, The main 2 types are back plates which mounts to the wall then the letter is screwed to it and standard long studs which work the same as sign locators. Simply ask one of our sales team for advice on this matter as it is a very important factor to get right first time

Carved letters

General

As well as the standard letters and built up letters we also manufacture a variety of carved 3d lettering this can range from letters with a chamfered edge to radiuses edges, we can recess or engrave parts of the letters to highlight certain areas but the most popular would be the prismatic cut or triangle shaped letter this is where the letter is machined into a central point shown various angles ideally suited for gold leaf as it reflects the sun to make the letters stand out, this type of lettering is very popular and has been around since the 14th century so it has passed the test of time

Finishes and Materials

We can machine a range of different materials for our carved letters From MDF Foam PVC and Signblock all have their own good points and bad just depends on the application and size of the sign in question if you need any advice simply give us a call to discuss your requirements s



Carved Panels

Another favourite type of signage panel is the v-carved sign mainly used for shop fascia and projection signs, This type of sign has been very popular over the years and rightly so if done correct it is a beautiful piece of signage that will last a lifetime with virtually no maintenance the origins of this type of sign pre dates the 14th century so you know it passes the test of time

Process

we take a piece typically 19mm foam and v carved or engraved into the panel to form the shape of the letters and logo, once the panel is machined it is then spray to the desired background colour, after the main colour is laid down and dried we mask of the panel leaving the machined lettering exposed so we can either spray, paint or gold leaf that lettering to make it stand out, the most popular colours and traditional colours would be the gloss black background with gold leaf lettering, simply nothing more beautiful than this combination which always makes people stop and admire it espically the gold leaf as it really pops in the sun light

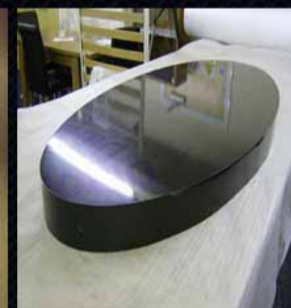
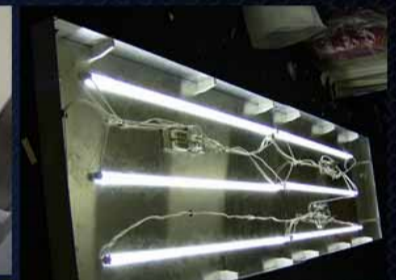
Sign Trays

Blank sign trays and boxes

One of the most common services sign companies require is for basic fabricated aluminium and dibond sign trays, we can machine the trays in component form for you to fabricate depending on your budget or we can fully form the panels and leave them just ready for you to apply your graphics, whether you need them powder coated or sprayed we have the means to supply you with what you need.

Stencil cut

We also supply stencil cut trays, manufactured as above with detail routed cut out of the face of the tray. We then back these areas with coloured acrylic. For illumination we can supply them with aluminium back trays or dibond back trays with fluorescent tubes, This technique allows the light to come through the stencil cut areas only, making its face illuminate in a very effective manner.



Inlayed Trays

We can then take the sign a step further by adding inlays into cut areas to give the sign some texture/3D effect, and with bevelled edges and stainless steel faces we can create unlimited effects.

For a more creative look we can make shaped trays where we cut and build up shapes to create bespoke fabricated tray systems, giving customers a totally unique product. We also mirror and replicate the process to create back to back or double-sided sign systems which can be mounted on post or projecting bracket



Engraving

Mechanical Engraving

Another popular source of revenue is the typical engraved sign, plaque or name plate a lot of our trade customers do not take this type of work on because they do not have the means to produce these items well fear no more we can do this to, we engrave a large range of different materials from stainless steel to brass to aluminium to plastic to wood you name we have engraved it at some stage.

The beauty of and engrave sign is that it will never fade due to the nature of it you are remove a small amount of material leaving a recessed area in the shape of a letter or logo this area can then be left as is showing the machined out area or colour filled with various types of paint and waxes, Simply email us your requirement and we can take it from there



Laser Engraving

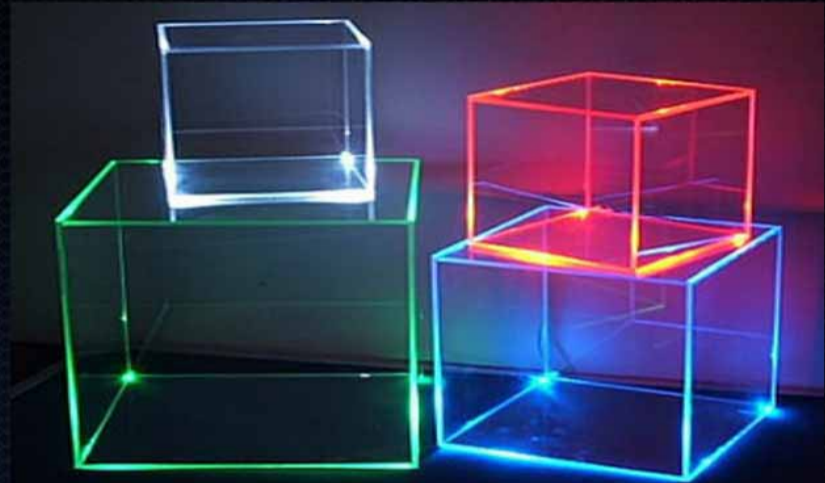
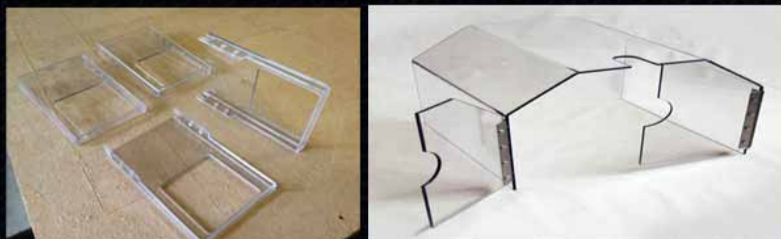
With a new addition to our state of the art workshop we can now offer you a laser engraving service, this gives us the ability to engrave photographs, logos and text onto a large range of different materials like acrylic, glass, marble and wood to name just a few, so what does this mean for you, this new service gives you the ability to customise products and gifts for your customers with their photographs and names on them just an extra way to generate more profit

Acrylic Fabrication

Overview

We have been designing and manufacturing acrylic displays , guards and point of sales items for the last 15 years , we have extensive knowledge in gluing ,bending ,moulding and polishing all types of acrylics .

Over the years we have been asked to make many different things from this versatile material from the simple shop display stand to the more complex acrylic moulded items which can be a very tricky to get right , Our state of the art workshop contains all the necessary equipment required to process acrylic quickly and effectively



Machine Guards

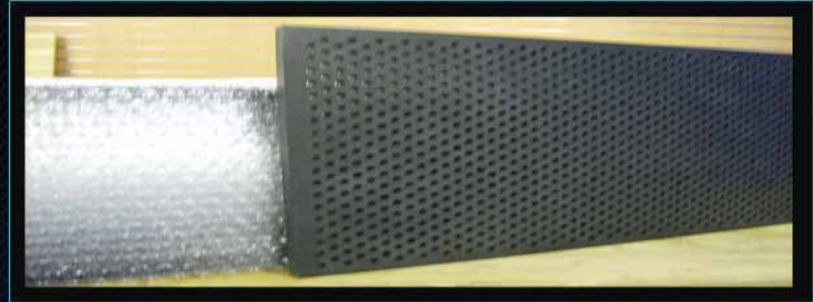
We also have been manufacturing machine safety guards just as long as our acrylic work really they both go hand in hand , we mainly use acrylic and polycarbonate for this application but we also use a range of engineering grade plastic's like ABS , polypropylene Nylon and PTFE .

We can work directly from engineering blue prints cad files or even a hand drawing sketches whatever you have to hand as long as there is dimensions on it we can make it no problem, with an engineering background cutting edge designs understands the importance for structural safe machine guards that will not break under extreme conditions

What else can a CNC router do for me?

Drilling

A CNC Router can drill thousands of holes all at an exact speed and feed rate also it will also produce exact and precision placement of those holes so it reduces the need for any hand finishing which saves time and money



Profiling

The most common use for a CNC Router is profiling either cutting to the outside of a shape or to the inside this is the main command used for cutting things to a exact size



Engraving

Engraving is the process of removing material from the surface of the engraved material as special cutter is used leaving an angle of the edge so it can be filled with paint



Pocketing

Pocketing is very similar to engraving but with a pocket you normally recess the area to a certain depth also can be done with various angled edges

Inlays

Inlays are a what it sounds the ability to machine 2 different materials one male and one female which fit into each other again this is very widely used in the sign trade typically in acrylic light boxes



3D Carving

3d carving allows you to machine any curved surface or any type of 3d model very usefull tool but can be very slow to produce a model as it only removes small amount of material per pass but on the other hand it can produce so really fine works of art with a high level of detail





Application & Materials

Here is a list of other applications we do

- | | | |
|--------------------------------|-------------------------------|-------------------------------|
| ■ Flat cut letters and logos | ■ Precision drilling | ■ Built up letters and logos |
| ■ Precision profiling | ■ 3d milling | ■ Precision pocketing |
| ■ 3d modeling | ■ Engraving | ■ 3d scanning |
| ■ Inlay panels | ■ Large format cutting 2x3m | ■ Dibond panels with returns |
| ■ Nested & bridged manufacture | ■ Vacuum moulds | ■ Manufacture of POS displays |
| ■ Signs blanks | ■ Carved sign panels | ■ 3d carved photos |
| ■ Mdf doors | ■ Furniture components | ■ Mdf components |
| ■ Canvas and poster production | ■ Flat pack displays | ■ Kitchen doors and pelmets |
| ■ Radiused countertops | ■ Prototyping | ■ Fret work patterns |
| ■ Architectural millwork | ■ Stencils | ■ Fireplace surrounds |
| ■ Slatwall | ■ V groove boards | ■ Melamine Laminating |
| ■ Complex bevels ,turnovers | ■ Complex surfaces | ■ Panel works |
| ■ Carved 3d letters | ■ Laser cutting and engraving | ■ Digital Printing |

Here is a list of common materials we use

- | | | |
|-----------|----------------------------|-------------------|
| ■ Perspex | ■ ALL Hard woods i.e. oak | ■ Stainless steel |
| ■ Lexan | ■ ALL Soft woods i.e. pine | ■ Brass |
| ■ Nylon | ■ Mdf | ■ Aluminum |
| ■ Pvc | ■ Veneered mdf | ■ Copper |
| ■ Abs | ■ Plywood | ■ Dibond |
| ■ Foam ex | ■ Chipboard | ■ Rubber |
| ■ Forex | ■ Hdf | ■ Corian |

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