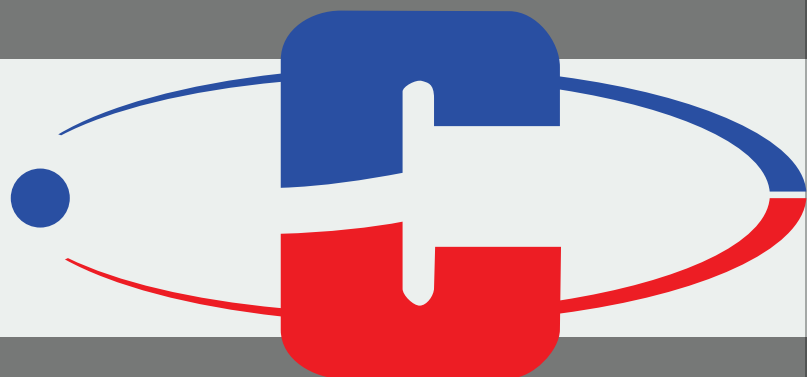


Laser Cutting and Marking Machines

Mašine za lasersko sečenje i obeležavanje



CadCam Technology

CadCam Technology Ltd.

Since 1990 CadCam Technology Ltd have been manufacturing Laser systems at our headquarters in Nottinghamshire, England.

Using only quality materials and the highest specification components, machines that we produce provide years of efficient productivity and cutting of the highest quality. Our worldwide distribution network provides the best localised technical support and service for our customers.

Od 1990. godine CadCam Technologi Ltd proizvodi laserske sisteme u našem sedištu u Nottinghamshire-u, Engleska.

Koristeći samo kvalitetne materijale i komponente sa najvišim specifikacijama, mašine koje proizvodimo pružaju dugogodišnju efikasnu produktivnost i sečenje najvišeg kvaliteta. Naša distributivna mreža širom sveta pruža najbolju lokalizovanu tehničku podršku za naše kupce.



Mašine za lasersko sečenje i obeležavanje

Kao pioniri industrije laserskog sečenja, nudimo vam najnoviju paletu mašina dizajniranih da budu efikasna i produktivna imovina vašeg poslovanja. Kombinovali smo dugogodišnje iskustvo sa najsavremenijom tehnologijom kako bismo vam pružili vrhunsko rešenje za lasersko sečenje. Mnoge industrije sada otkrivaju da je laserska tehnologija daleko bolja od ostalih metoda sečenja i da su se naše mašine pokazale uspešnim na svim tržištima od automobilske do tekstilne industrije. Naši sistemi pokazuju preciznost sečenja širokog spektra materijala brzinama pogodnim za masovnu proizvodnju.

FB serija kombinuje svestranost i performanse kako bi omogućila proizvodnju na velikom broju materijala. Fina kontrola parametara mašine u kombinaciji sa velikim brojem opcija omogućava nam da svaki sistem prilagodimo vašim zahtevima aplikacije.

Brzine od 1000 mm/sek u kombinaciji sa upravljačkim softverom ApS-Ethos čine FB seriju kompletnom proizvodnom jedinicom, gde se velika proizvodnja može postići uz minimalnu interakciju korisnika.

Laser Cutting and Marking Machinery

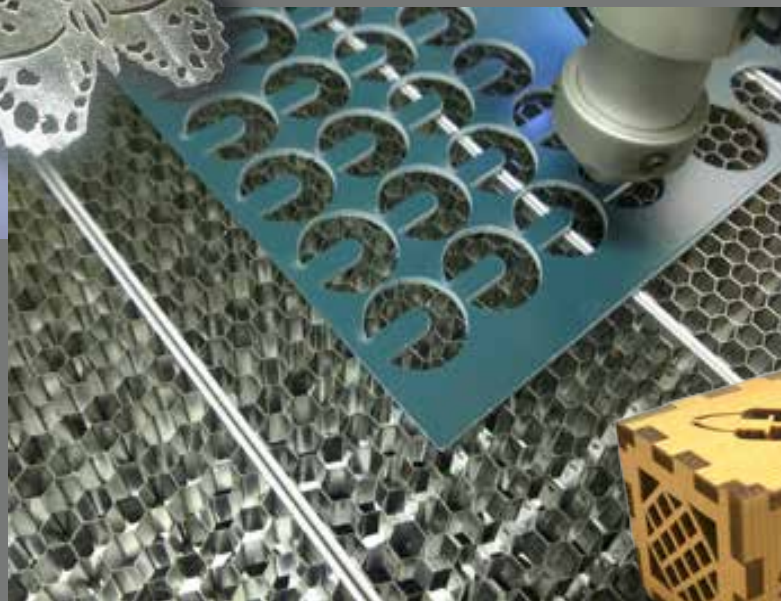
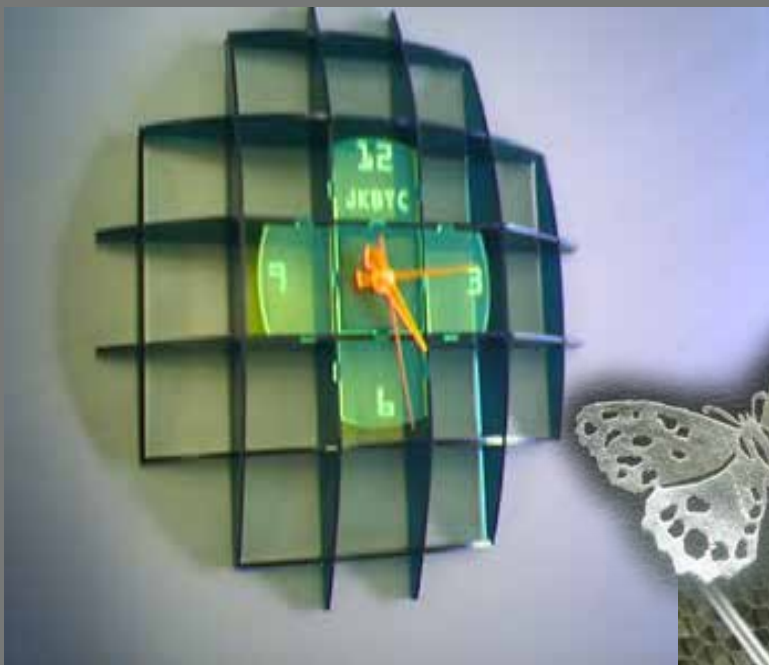
As pioneers of the laser cutting industry we bring you our latest range of machines, designed to be an efficient and productive asset to your business. We have combined many years of experience with state of the art technology, to give you the ultimate laser cutting solution.

Many industries are now finding that laser technology is far superior to other cutting methods and our machines have proved to be successful in all types of markets from automotive to textiles. Our systems demonstrate the precision to cut a wide variety of materials at speeds suitable for mass production.

The FB Series combines versatility and performance to allow production on a vast number of materials. The fine control of machine parameters combined with a large array of options allows us to tailor each system to your application requirements.

Speeds of 1000 mm/sec combined with the ApS-Ethos control software make the FB Series the complete production unit. In co-ordination with the optional roll handling system, large quantities of production can be achieved with minimal user interaction.





- AXIAL SPEED 0.2mm/s up to 1000mm/s
- ACCELERATION up to 2g
- RESOLUTION 0.025mm
- SOFTWARE ApS-Ethos Cutting Composer
- AIR ASSIST NOZZLE with compressed air port
- AREA MAPPING
- MOTION SYSTEM Loop Servo motors with hardened ground steel rails
- CUTTING BED Stainless steel honeycomb or Blade bed (for plastic)
- CE Mark
- Class 1 Interlocked Laser for safe use
- Optional visible red pointer

FB500



FB700



LASER POWER OPTIONS

30 Watts, 50 Watts

30 Watts, 50 Watts, 100 Watts

HEIGHT

1025mm (40.3")

1025mm (40.3")

WIDTH

1380mm (54.3")

1505mm (59.3")

DEPTH

810mm (31.8")

1260mm (49.1")

MAX ROLL WIDTH

840mm (33.1")

840mm (33.1")

MAX CUT WIDTH

725mm (28.5")

725mm (28.5")

MAX CUT DEPTH

500mm (19.7")

990mm (39.5")

WEIGHT

262kg

341kg

CUTTING BED TYPE

Steel Honeycomb or Aluminium Blade

Steel Honeycomb or Aluminium Blade



FB1500



30 Watts, 50 Watts, 100 Watts, 200 Watts

1025mm (40.3")

2060mm (81.1")

1260mm (49.1")

1590 (62")

1450mm (57.1")

990mm (39.5")

445kg

Steel Honeycomb or Aluminium Blade

FB1800



30 Watts, 50 Watts, 100 Watts, 200 Watts

1025mm (40.3")

2460mm (96")

1260mm (49.1")

1980mm (77.2")

1850 (71.1")

990mm (39.5")

490kg

Steel Honeycomb or Aluminium Blade

FB2400



30 Watts, 50 Watts, 100 Watts, 200 Watts +

1060mm (41.7")

3200mm (126")

1570mm (61.8")

2450mm (96.5")

2400mm (94.5")

1200mm (47.3")

780kg

Aluminium Blade

- Our FB laser cutters are available with a variety of options to tailor each machine to your exact requirements.
- Naš FB laserski sekači dostupni su sa raznim opcijama za prilagođavanje mašinapo vašim zahtevima.



Options

Conveyor Unit

A metal moving bed designed for a variety of rolled and sheet materials. (With Vacuum option)

Konvejer - Transportna jedinica

Metalni pokretni sto dizajniran za razne rolne i pločaste limene materijale. (Opcija sa vakuumom)

Feed Tray System

Allows loading and unloading of material while the laser continues to cut.

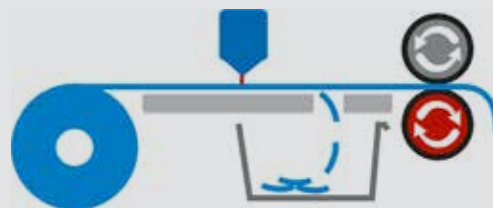
Sistem ležajeva za uvlačenje

Omogućava utovar i istovar materijala dok laser nastavlja da seče. (Opcija sa vakuumom)



Automatic Roll Feed Unit

Feeds rolled material through the cutting bed. A tray beneath catches the cutouts.



Electronic Optical System

For cutting designs which have been woven, embroidered or pre-printed. Sophisticated software uses a camera to find registration marks, cutting with compensation for stretch and distortion.

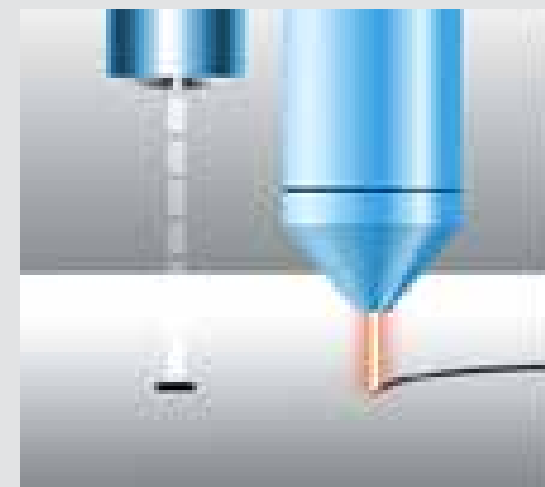
Elektronski optički sistem

Za sečenje dizajna koji su tkani, vezeni ili unapred odštampani. Sofisticirani softver koristi kameru za pronalaženje registracionih oznaka, sečenje uz kompenzaciju za istezanje i izobličenje.



Jedinica za automatsko namotavanje rolne

Namotava materijal preko stola za sečenje. Pleh, koji se nalazi ispod, skuplja izreske.



Plastic Cutting

Plastic cutting

One of our latest innovations is our new system developed solely for laser cutting acrylic. This machine has been designed to laser cut plastic of any depth up to 25mm in thickness.

Using a Rofin laser, and our specially manufactured motion systems, optics and bespoke software package, it creates a smooth, clean and polished edge.

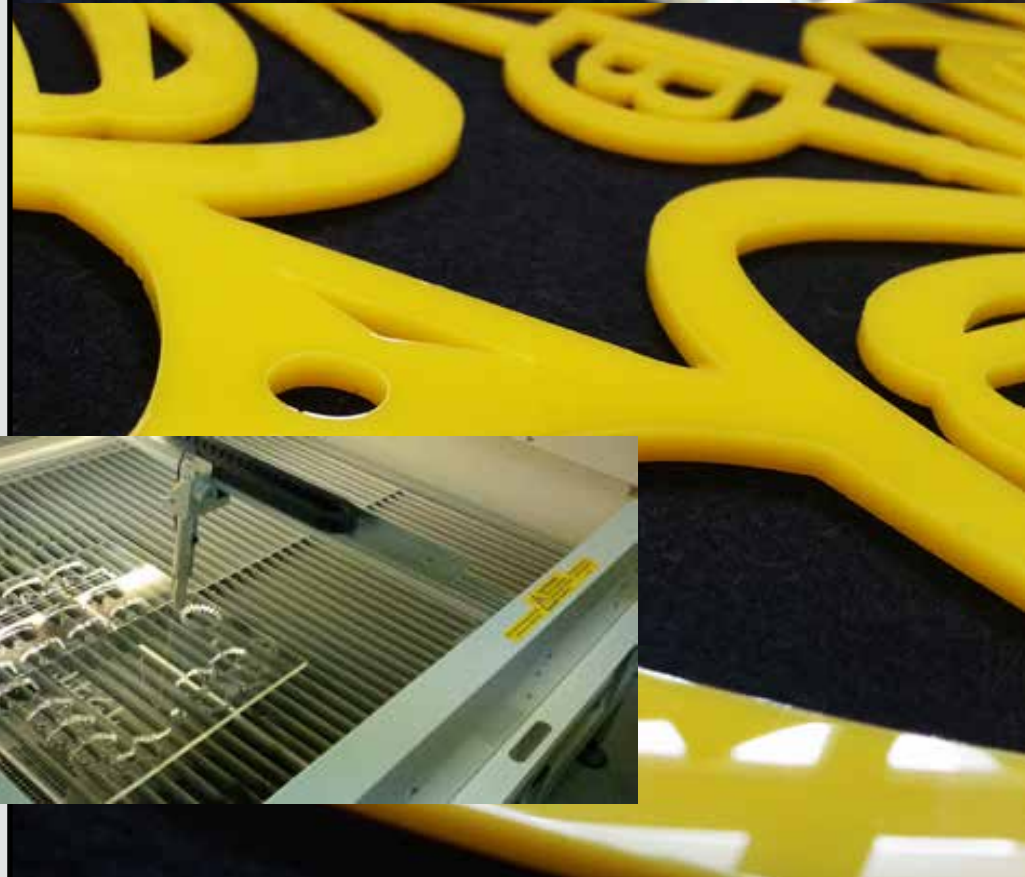
A ball slide motion system has been added to our laser cutting acrylic machine with multiple pre-loaded rolling elements for a maintenance free perfectly straight movement, important for creating flat, clean edges like those demanded when laser cutting acrylic. These machines are fitted with locking mirror mechanisms that maintain beam path accuracy which is crucial when laser cutting plastic.

Sečenje plastike

Jedna od naših najnovijih inovacija je naš novi sistem razvijen isključivo za lasersko sečenje akrila. Ova mašina je dizajnirana za lasersko sečenje plastike bilo koje dubine do 25 mm debljine.

Korišćenjem Rofin lasera, kao i naših specijalno proizvedenih sistema za kretanje, optiku i softverskog paketa po meri, stvara se glatka, čista i polirana ivica.

Našem sistemu za lasersko sečenje akrila sa više unapred učitanih kotrljajućih elemenata dodan je sistem za kretanje kugličnim klizanjem za savršeno ravno kretanje bez održavanja, važno za stvaranje čiste ivice poput onih potrebnih za lasersko rezanje akrila. Ove mašine su opremljene mehanizmima za zaključavanje ogledala koji održavaju tačnost puta snopa što je presudno kod laserskog sečenja plastike.





Inkjet printing onto large format textiles is now very popular for producing sportswear, flags and banners, due to the printers becoming faster and more cost effective.

The only issue remaining is how to cut out the printed parts. Manually cutting each part is too slow, inconsistent and labour intensive.

'Contour Cut' by CadCam Technology Ltd, automates the process of cutting out inkjet printed pieces of fabric or textile both quickly and accurately, automatically compensating for any distortions and stretches that occur in unstable or stretchy textiles that are used in sportswear for example.

Material is automatically unrolled and transported onto the laser cutting machine using our next generation conveyor system.

State of the art camera recognition is used to pinpoint registration marks printed on your material. The marks can be accurately read by our laser system and the position, scale and deformation of the printed material will be compensated due to the intelligent analysis of the registration marks. This means that when the laser cuts your fabric all the pieces will exit the laser cutting conveyor exactly the correct size and shape with a sealed edge.

As laser cutting is non-contact, there is no drag on the material and no blades to change. High speed loop servo motors ensure precise camera mapping and accurate cut lines with minimal user interaction. Simply collect the pieces as they exit the machine, this gives the 'Contour Cut' system a major advantage over traditional garment cutting methods.



Inkjet štampa na tekstilu velikih formata sada je veoma popularna za proizvodnju sportske odeće, slika i natpisa, jer štampači postaju brži i ekonomičniji.

Preostaje samo pitanje kako izrezati odštampane delove. Ručno sečenje svakog dela je presporo, nedosledno i zahteva puno rada.

Contour Cut' kompanije CadCam Technology Ltd automatizuje postupak sečenja inkjet štampanih komada tkanine ili tekstila, brzo i tačno, automatski kompenzujući sva izobličenja i istezanja koja se javljaju sa nestabilnim ili rastegljivom tekstilom koji se, na primer, koristi za sportsku odeću.

Materijal se automatski odmotava i transportuje na mašinu za lasersko rezanje pomoću našeg transportnog sistema sledeće generacije.

Najsavremenija kamera sa funkcijom prepoznavanja, koristi se za precizno utvrđivanje registracionih oznaka (pasera) odštampanih na vašem materijalu. Naš laserski sistem može tačno očitati oznake, dok će kompenzovati položaj, obim i deformaciju štampanog materijala, zahvaljujući inteligentnoj analizi registracionih pasera (oznaka). To znači da kada laser iseče vašu tkaninu, svi delovi izaći će iz transportera za lasersko sečenje, precizno tačne veličine i oblika sa zapečaćenom ivicom.

Kako je lasersko sečenje beskontaktno, materijal se ne povlači niti je potrebno menjanje sečiva. Servo motori velike brzine osiguravaju precizno mapiranje pomoću kamere i tačne linije sečenja uz minimalnu interakciju korisnika. Jednostavno sakupljajte komade dok izlaze iz mašine pre nego što daju sistemu 'Contour Cut' veliku prednost u odnosu na tradicionalne metode krojenja odeće..





Cutting printed textiles

Materials



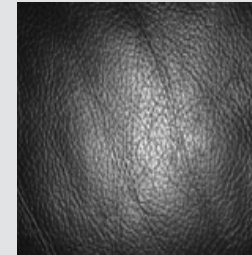
Fabrics and textiles

Nylon, Suede, Polyester, Polyester cotton, Linen, Felt, Lycra, Chiffon, Mohair, Wool, Silk, Cotton, Denim, Rayon, Hemp



Plastics

ABS, Perspex, Cast Acrylic, Extruded Acrylic, Coloured acrylic, Fluorescent acrylic, Frosted acrylic, Mirror acrylic, Clear polyester, Tralalite, Acetal, flouropolymers



Leather

Natural & Synthetic - Automotive, Fashion, Shoes, Bags, Belts



Embroidered products

Appliqué, Badges, Reverse Appliqué



Flooring

Linoleum (Lino Flooring), Car Mats, Carpet Tiles



Foam

Packaging, Upholstery, Polyurethane, Polystyrene, Depron



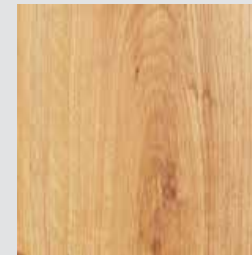
Paper and card

Card, Cardboard, Laminated, Printed



Vinyl

Clear, Printed, Coloured, Printed sign graphics



Wood

Balsa, Birch plywood, Laser Ply, Cork, MDF, Veneered MDF, Formica, Engraving Laminates



Technical textiles

Airbags, Automotive, Medical, Military, Sportswear



Woven labels



Glass

Bottles, Glasses, Trophies (Engrave only)



Our laser machines are enhanced by the functionality and quality of the ApS-Ethos Cutting Software. ApS-Ethos is developed in-house by our own team of engineers and includes the following features.

- Imports a wide range of vector formats
- Organises the layout of designs prior to cutting
- Uses material effects to ensure accurate cutting
- Provides powerful control over output to the laser
- Keeps a complete record of each design and its history

A radical new approach to output control makes certain that you gain maximum productivity from the FB Laser System. Material effect tools are used to control every aspect of the system set up.

The comprehensive design database keeps a complete history of each design. Jobs can also be categorised as an aid to retrieval and organisation.

Bespoke Software

With the added advantage of an in-house development team we are able to offer even more versatility by adapting the software to specific application needs.

Shown below are a few of the specific software applications we have developed.

- Auto engraving
- Auto nesting of complex shapes (lay-planning)
- Optical recognition software
- Cutting on moving material
- Auto design personalisation
- Automatic bite feeding (completing designs bigger than the bed size)



Naše laserske mašine poboljšane su funkcionalnošću i kvalitetom softvera za sečenje ApS-Ethos. Našim inženjera je razvio ApS-Ethos softver za sečenje koji uključuje sledeće karakteristike.

- Unosi i čita širok spektar vektorskih formata
- Organizuje raspored dizajna pre sečenja
- Koristi efekte materijala kako bi se osiguralo tačno sečenje
- Pruža moćnu kontrolu laserskog izlaza
- Vodi potpunu evidenciju o svakom dizajnu i njegovoj istoriji

Radikalni novi pristup kontroli izlaza osigurava da od FB laserskog sistema postignete maksimalnu produktivnost. Alati za materijale koriste se za kontrolu svakog aspekta postavke sistema.

Sveobuhvatna baza podataka o dizajnu čuva kompletnu istoriju svakog dizajna. Poslovi se takođe mogu kategorisati kao pomoć pri pronalaganju organizaciji.

Softver po meri

Uz dodatnu prednost sopstvenog razvojnog tima, možemo ponuditi još veću svestranost prilagođavanjem softvera prema specifičnim potrebama vaše aplikacije.

Ispod je prikazano nekoliko specifičnih softverskih aplikacija koje smo razvili:

- Automatsko graviranje
- Automatsko gnežđenje složenih oblika (planiranje postavke)
- Softver za optičko prepoznavanje
- Sečenje na pokretnom materijalu
- Auto personalizacija dizajna
- Kompletiranje dizajna većeg od veličine stola



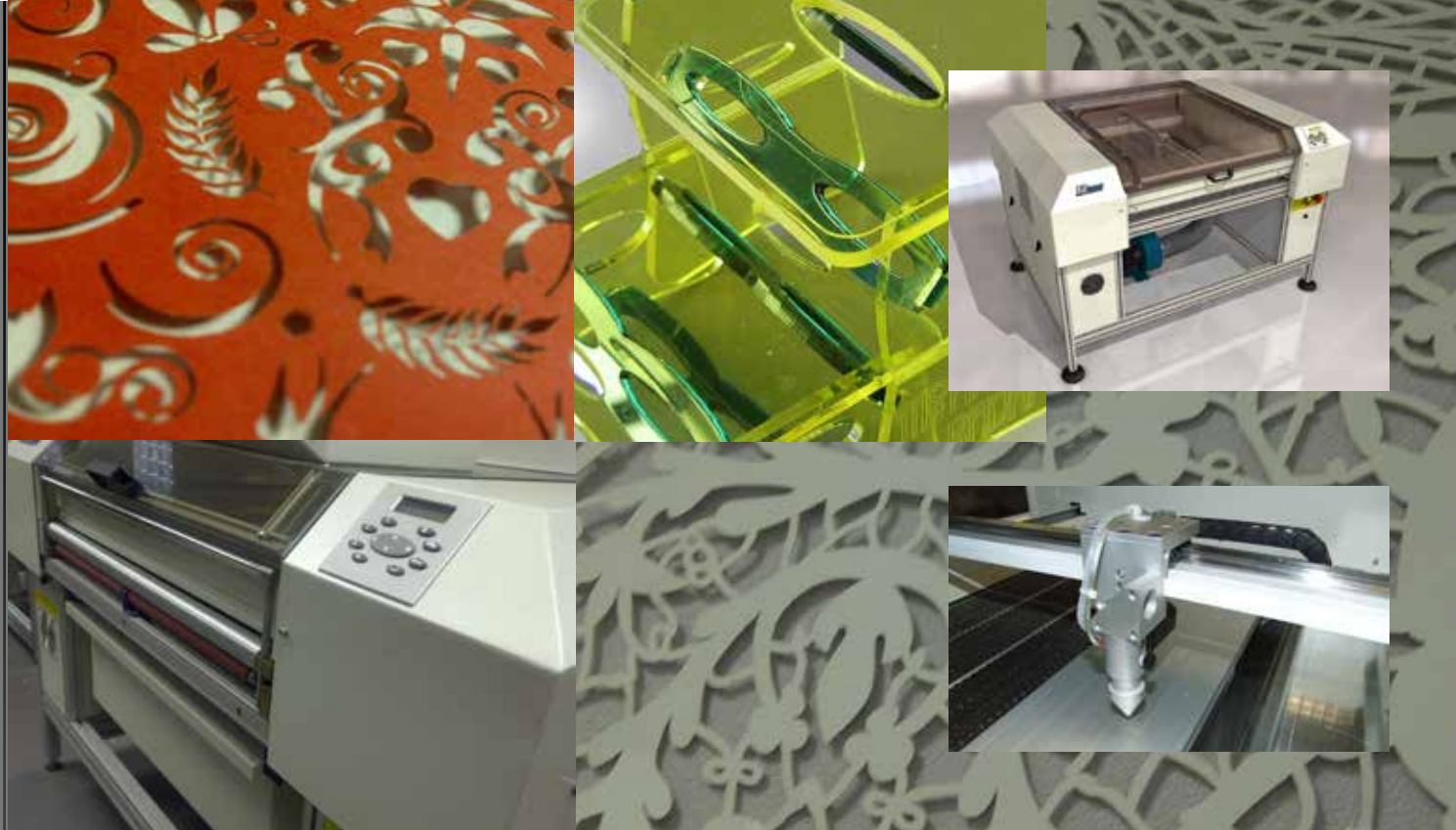
OPTICAL SYSTEM



IN-LINE SYSTEMS

Manufacturing bespoke systems to your requirements

CADCAM TECHNOLOGY LTD - 2013



Pozovite vama najbližeg ovlaćenog distributera:

All our laser products and software are manufactured to high standards in the UK by CadCam Technology Ltd:



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