

create.

The create. range & Needham Laser Tech

2023 sees the exciting new launch of the create. range powered by Needham Laser Technologies

Needham Laser Technologies is a subsidiary of The Needham Group, founded by Roger Needham in 1962. From the beginning, TNG and its subsidiaries have been a part of the ever-developing coding and marking industry; identifying industry needs whilst simultaneously importing and developing exciting, practical and innovative products to suit. (Mr. Needham was one of the first to bring felt-tip pens over to the UK from America!)

Needham Laser Technologies is no different and has been manufacturing and distributing lasers internationally for over 10 years.

The development of the create. range has followed an innovative path specifically geared towards the retail sector. By listening to industry and retail experts, we've combined our findings with our in-house expertise and developed a range of retail-ready laser engravers to give commercial creatives the chance to offer next-level customer experience to their customers with our small, simple and stylish laser engravers.

The create. range provides a personalised retail experience for you and your customers; allowing for the customisation of products with their own images, text or designs. As a retailer, you can also make your own custom business branding; the creativity is endless and empowering.

If you can think it, you can create. it.



Why is the create. range retail-ready?

We've listened. We've identified. We've answered.

As a UK manufacturer of laser engravers, we are often approached by different industries with unique and interesting requests for marking or engraving products. In recent years, one industry in particular has been the retail sector, with the word 'personalisation' as a key necessity to assist with offering next-level customer experience. Whether you're a bricks and mortar store, a digital native or a company that provides goods and services behind the scenes; we have witnessed a real surge in personalisation through these recent years.

Of course our laser engravers are technically capable of offering an engraving service but the 'package' needs to be so much more suitable for retailers to truly maximise on a unique, innovative and exciting experience for their customers, ultimately raising the bar for something unique, accessible and affordable for personalisation. That said, the create. range is more than just laser technology.



More than just laser technology

Discover below the key elements that helped us define the range.

small. simple. safe. stylish. sustainable. support.

Small.

Our lasers have a small considered footprint as we know shop floor space is precious.

Simple.

It's simple and easy-to-use software helps bring your designs to life quickly and easily.

Safe.

We adhere to strict UK compliance and regulations. Safety is paramount.

Stylish.

A stylish, modern and non-intrusive design, yet delivering maximum impact with the theatre it brings in-store.

Sustainable.

Adding value with the engraving alone. Low power consumption. No consumables.

Support.

A UK-based support network on-hand should you need.

Next-level customer experience

Who's using lasers for personalisation and more?



Here are just a few retail industry leaders already benefitting from using our laser engravers:

ChloBo



BIRMINGHAM
ASSAY OFFICE™

benefit



Wild

What can the create. do?

The create. range can mark, engrave, etch, ablate, anneal and cut a variety of materials including metals, plastics, glass, and wood. It can be used to create designs, fonts and images onto a multitude of surfaces.

If you can think it, you can create. it!



personalise it.



brand it.



create it.

Simply...upload. position. create.

What can the rotary device do?

Using the rotary device, you are able to engrave on the internal and external surfaces of curved objects such as rings and bracelets.

The rotary device holds the object in its claws and spins it in the position of the laser beam so it is able to mark 360 degrees around.

The maximum diameter for the rotary device is 65mm.



Which materials can the create. engrave?

It all depends on the source...

The laser source is effectively the engine inside the laser. See the two types of laser sources defined below that are available. As a standard, our create range is designed around the fiber laser. Please speak to our team of experts for further advice on what works best for your requirements.

Fiber laser

The science behind the **fiber laser**

A fiber laser is a laser that is created by amplifying the light produced by a doped fiber. This is done by shining a light down the fiber, which pumps energy into the atoms of the fiber, creating a population inversion. The subsequent release of this energy as photons is then amplified by the fiber's core, allowing for the emission of laser light. This laser light is then directed onto a surface to create a desired effect.

What can a fiber laser mark?

Metals; Gold, Silver, Copper, Titanium, Platinum, Steel, Aluminium, and more.
Various plastics.

Can a fiber laser cut?

Yes

UV laser

The science behind the **UV laser**

The science behind a UV laser is based on the principle of stimulated emission. When atoms are exposed to an energy source, they become excited and release energy in the form of light. When this light is focused through a lens, it produces a beam of light at a specific wavelength. A UV laser produces an intense beam of light at a specific wavelength. The UV light then lightly 'scratches' the surface to produce the required mark.

What can a UV laser mark?

Almost everything.

Can a UV laser cut?

Limited cutting capabilities.

The spec - create.



create. laser dimensions:

W460mm x H550mm x D502mm

Weight - 38kg

20W Fiber laser - A laser source suitable for multiple applications. (Metals are a fiber laser's best friend!)

100mm x 100mm engraving area (flat) - The size of area you are able to engrave within.

Rotary Device - Allowing for engraving curved surfaces as well as 360 degree circumferences up to the diameter of 65mm.

Positioning Camera - Allowing for ease of product positioning and focus.

Tablet PC with Lightburn™ software - Compact and simple navigation within a neat tablet format, from input to output.

Extractor - Allows for the extraction of particles removed when engraving. (Dims of extractor: W260mm x H368mm x D260mm)

Class 1 laser safe.

Power source is a standard mains outlet.

Side opening door (Left or Right available).

Energy consumption - standby - 0.05kW lasering - 0.25kW

The spec - create **pro.**



create pro. laser dimensions:

W600mm x H920mm x D600mm

Weight - 120kg

50W Fiber laser - A laser source suitable for multiple applications. (Metals are a fiber laser's best friend!)

100mm x 100mm engraving area (flat) - The size of area you are able to engrave within.

Rotary Device - Allowing for engraving curved surfaces as well as 360 degree circumferences up to the diameter of 65mm.

Positioning Camera - Allowing for ease of product positioning and focus.

All in one PC with create. designer software - Compact and simple navigation within neat tablet, from input to output.

An automatic door, with 3 sided opening.

Class 1 laser safe.

Power source is a standard mains outlet.

Programmable Z - Allows you to input a part height and automatically move the lens into the correct position.

Extractor - Allows for the extraction of particles removed when engraving. (W320mm x H512mm x D310mm)

Energy consumption - standby - 0.05kW lasering - 0.25kW

Made in Britain & Safety

We are proud to wear the Made in Britain badge, where all of our lasers are manufactured at our HQ in Shropshire. Combining over 60 years of company heritage with exquisite design and Great British engineering, we take great pride in our heritage and our commitment to producing quality products that represent the very best of British craftsmanship. Our loyal customers can be assured that when they choose us, they are investing in a product made with the utmost care and attention to detail.



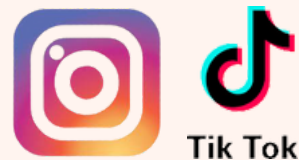
The UK has the world's most rigorous regulatory requirements for laser safety. We are proud to align our UK design and manufacturing with said regulations. We are also certified members of AILU. - <https://www.ailu.org.uk/>



Let's get social

**Share your creations with our community
insta and TikTok @create.laser**

#createit #createlaser #createitlaser



create.



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