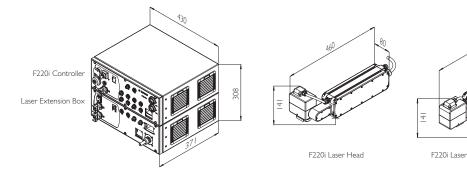
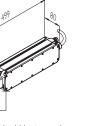


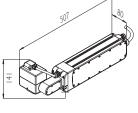
#### Technical Specification:

	<b>F2</b> 20i
Laser Type Laser Wavelength Laser Power Pulse Peak Power	Pulsed Fibre Laser with adjustable waveform (expected laser source life of over 100.000 hours) 1059 - 1065nm 20W (Maximum Average Output Power) More than 12 kW
Marking Features	THOIC MAIN 12 KYY
Characters per Second Product Line speed Number of Lines of Text Character Height Fonts & code types Marking Field Focal Length / spot size	2000* 600m/min* (1970ft/min*) As many as desired 0.3mm (0.01in) to size of marking field 24 fonts, multi-language including Unicode, logos, bar codes, 2D codes, graphics 118 × 118mm, 229 × 229mm (4.6 × 4.6in, 9.0 × 9.0in) 160mm (6.3in) / ~70µm, 300mm (11.8in) / ~130µm
User Interface	Web Browser-based Graphical User Interface (GUI) (optional <b>TouchPaneI</b> available) WYSIWYG entry, control language in English, German, French, Czech, Danish, Spanish, Finnish, Greek, Hungarian, Italian, Japanese, Dutch, Portuguese, Polish, Chinese, Korean, Romanian, Russian, Swedish, Slovak, Turkish, Arabic
Operating System	Windows CE
Marking Software	Dynamark III Laser Marking Software
Scan Head	i-Tech Scan Head, mountable in various orientations including axial and radial
Laser Head	Stainless steel and anodised aluminium construction
Weight & Dimensions (approx.) Laser Head Laser Head with shutter (WxDxH) Laser Extension Box Controller Fibre and conduit	6.7kg, 460 × 80 × 141mm (14.8lbs 18.1 × 3.1 × 5.6in) 6.9kg, 507 × 80 × 141mm (15.2lbs 20.0 × 3.1 × 5.6in) 21.0kg, 430 × 371 × 154mm (46.3lbs 16.9 × 14.6 × 6.1in) 14.5kg, 430 × 371 × 154mm (32.0lbs 16.9 × 14.6 × 6.1in) 2.7m (8.9ft) between laser extension box and laser head
Inputs & Outputs Product Detect Inputs Product Speed Detect Signal Inputs / Outputs	NPN / PNP / 24V — Sensor Shaft Encoder (differential) or Steady Signal Laser Ready, Busy Signal, fume extractor control, compressed air control
Interfaces	RS232, Ethernet (10/100 MBit), USB Port
Electrical Requirements	90-264V, 47-63Hz, 1120VA
Environment Controller Laser extension Box Laser head Environmental Standard Operating	Standard Version (air cooled, fan) Standard Version (air cooled, fan) IP65 protected version (no cooling required) Operating Temperature 5° to 40° C (41° to 104° F) / higher temperatures on request. Operating Humidity Max. 90% RH, non-condensing
Options	Aiming Beam, User Port Kit I/O, Fume Extraction Shroud, Shutter, Connecting Cable Kit 0.5m (1.6ft) optional: 4.5m (14.8ft), 9m (29.5ft), USB Image Backup/Restore Kit, Rack Mounting Kit, Daisy-Chaining, i-Tech RapidScan technology

All data regarding wave form 0 \*Substrate, pitch and code dependent \*\*Dimensions measured overall for shortest version

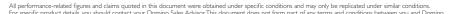






F220i Laser Head with shutter









# The F220i fibre laser

Maximising performance, extending possibilities



The compact fibre version of our **i-Tech** range of lasers gives you utmost performance when it comes to high precision marking of your products.

Domino. Do more.

#### Performance and value

Domino's advanced F220i fibre laser system incorporates many of our proven **i-Tech** laser components and the latest fibre technology, ensuring great performance. Its compact footprint makes it easy to install.

With the **F2**20i you can permanently mark a wide range of materials, such as metal, plastics and flexible packaging with the utmost precision and quality.

Compared to traditional solid state lasers the **F2**20i laser does not require planned maintenance giving a lasting performance. The fibre laser has an expected life of approximately 100,000 hrs, ensuring the highest uptime.



#### A diverse range of applications

The **F2**20i laser system produces unlimited lines of text in any orientation, and in many fonts and sizes. It is equally suitable for both graphics and 2D datamatrix codes. All are permanently applied on e.g. metal and plastic materials with high precision. The F220i is equally suited for static / intermittent coding and "marking on the fly" applications from low to high production line speeds.



High contrast marking on various plastics – colour hange, engraving



Flexible packaging - colour change, top layer removal



Ideal for metal marking colour change, engraving,



### Greener credentials

Domino's commitment and investment in sound environmental practices means we frequently exceed the demanding governmental, industry and company standards and regulations. We are committed to minimising the consumption of natural resources and energy and the creation of waste. Additionally, our products are RoHS and WEEE compliant so that they are recyclable

#### F220i

The F220i offers contactless coding with no need for consumables - this minimises waste and helps you to reduce your carbon footprint. Long life ensures less waste on electronic parts.

# High precision & power – for maximum quality

For crisp, sharp codes and high coding accuracy, Domino's fibre laser is second to none. The spot of the fibre laser beam is approximately 10 times finer and sharper than with other laser coding products so you can mark your products with utmost precision and quality. The F220i has high pulse power peaks of more than 12kW which makes it an easy job to engrave metals or to cut and micro process harder materials.

If your substrate requires a more delicate touch, the F220i can tailor the waveform of the laser pulse specifically to your application requirements unlike common fibre laser systems. This special property of the **F2**20i makes it possible for you to achieve better contrast on plastic materials. Additionally it ensures a much softer coding process for material susceptible to fractures.



Thanks to optimised mirror and software control of the **i-Tech** scan head it is possible to combine precision and high production line speeds, making the F220i ideal also for mark-on-the-fly applications.



# High uptime – peace of mind

The F220i laser coding system has been built to last. It combines robustness with very long life so productivity is high. As there aren't any planned replacement routines, you don't have to worry about interrupting your production process.

The fibre laser head does not produce any heat and additional cooling is can be supplied and installed with validation packages. not necessary, allowing limitless performance at high production rates.

Economic, efficient and resource-saving - this versatile laser system uses less energy than other laser coding systems.

For pharmaceutical customers we offer unique user passwords and change reporting to be 21-CFR part 11 and GAMP compliant; these

## High flexibility – for quick and smart installations

As with all proven Domino laser products, we've given careful consideration to compact sizing – so you can benefit from optimum footprint when it comes to installation. The fibre medium can be efficiently incorporated into tight housing ensuring overall smaller

dimensions. The F220i incorporates the flexible i-Tech scan head that can be rotated in multiple directions. It also offers full length integrated mounting rails on both sides of the laser -making it easy to install this compact laser even into areas where space is at a premium.



Domino. Do more.