

Domino D-Series lasers

Small things can make a big difference



The latest editions of our successful compact scribing laser are designed to fit in even the smallest of spaces.

Domino. Do more.

Domino D-Series – new, compact lasers are flexible in more ways than one.

The new **i-Tech** scan head is smaller and adjustable, allowing the **D-Series** lasers to be installed in the most restricted spaces.

A new IP65 version design adds greater protection for harsh environment installations.

Flexible connectivity and a familiar interface now make it possible to control **D-Series** lasers from anywhere.



A diverse range of applications

The **D-Series** 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 to a wide range of materials from low to high production line speeds.



High code quality ideal for 2D datamatrix (2D) coding



Special laser for crisp codes on PET



Permanent codes on a wide range of materials



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.

D-Series

The new D-Series, with no need for inks or solvents – minimising waste as well as 20% reduced weight (versus previous models) – helps you to reduce your carbon footprint. Automatic temperature controlled fan cooling means the coder saves energy whenever applications allow.

More flexibility – simplifies integration



Compact

Fit is a big issue, so we've gone small. We've also separated the components to create a modular design, making the **D-Series** laser easy to install. It simply adapts to your production line set-up.



Flexible

The key to the **D-Series** flexibility is a smaller **i-Tech** scan head, connected to the laser tube on a multi-position mount. The head can be rotated through 90 degree steps to allow for many mounting positions, and because it is so much smaller, it can easily fit where bigger lasers cannot.



Easy to install

Full length integrated mounting rails on both sides of the laser head and its smaller overall footprint makes the **D-Series** an easy and safe installation.



More convenience – saves time



Accessible

As an operator, you can manage the coder by either our intuitive remote **TouchPanel** or via its web-based interface from any industrial PC. For the ultimate in flexibility, the **D-Series** can also be controlled via your production line interface.



Easy to operate

Once logged in, set-up is fast. Edits and message changes are instantly updated in the system. Production data can be uploaded or downloaded from the controller via USB or via Ethernet network.

More protection – enhances reliability



Built to last

An optional IP65 version adds protection to the laser tube while not compromising on overall size. Its aluminium and stainless steel construction gives you lasting performance in the harshest environments.

Peace of mind

The robust controller is the ultimate in reliable equipment. It stores message data without the need for a hard drive, minimising the number of moving parts in the whole system. It can also be hidden under the production line, away from the laser, or rack mounted to save space and reduce the likelihood of accidental damage.

Reliable

The new robust design increases protection – and reliability – for all the **D-Series** components, making it a dependable choice for every production environment.

Secure

Our pharma option offers unique user passwords and change reporting to be 21-CFR part 11 and GAMP compliant. This can be supplied and installed with validation packages to ensure that systems are tested and proven to the highest standards.

D-Series lasers are also compatible with the pan-industry Codentify® solution. Used by manufacturers to print a unique 12 digit code, Codentify® has many applications in product authentication and fiscal recovery.



Safe and clean

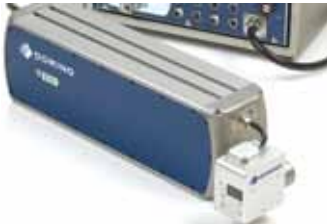
With any laser it is important to consider extraction of fumes and particles to maintain a safe and clean working environment. The Domino DPX fume extraction range integrates with **D-Series** and provides an efficient and simple solution.

Domino. Do more.

A quick tour around the D-Series

intelligent Technology

i-Tech components combine to create a system altogether more flexible and reliable



IP65 option for more protection

Optional intuitive remote **TouchPanel**

Industrial connectors and detachable conduit for easier installation and servicing

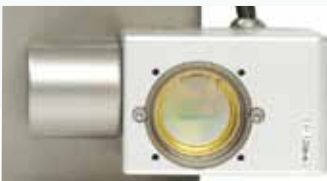
Controller module that can be hidden under the production line, or rack mounted to save space

Full-length integrated mounting rails on each side for easy positioning

Energy efficient temperature controlled fan cooling

Compact **i-Tech** Scan head with flexible mount

Compact footprint design and small head gets into tight spaces



Our next generation of primary coders deploy our unique *intelligent Technology* system, **i-Tech**. Our aim was to make production lines lower maintenance, lower cost and more efficient. **i-Tech** has helped us to achieve that aim.

Domino. Do more.

Technical Specification:

	D120i	D320i
Laser Type	Sealed-Off CO2 Laser; 30,000 hours MTBF	
Laser Wavelength	10.6µm typical (9.3 µm as Blue tube option available)	
Laser Power	10W (approx. 8W for Blue tube option @ wavelength of 9.3µm)	30W (approx. 20W for Blue tube option @ wavelength of 9.3µm)
Marking Features		
Characters per Second	800*	1500*
Product Line speed	200m/min.* 650ft/min.*	400m/min.* 1300ft/min.*
Number of Lines of Text	As many as desired*	
Character Height	0.6mm to size of marking field	
Fonts	24 fonts, multi-language including full Unicode	
Marking Field & Focal Length	58x58, 68x68, 84x84, 102x102, 136x136mm 80, 100, 120, 150, 200mm	
User Interface	Web Browser-based Graphical User Interface (GUI) (optional Touchscreen 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	16.5kg 681 x 140 x 180mm** 36.4lbs 26.8 x 5.5 x 7.1in*	22kg 776 x 140 x 180mm** 48.5lbs 30.5 x 5.5 x 7.1in
Control Cabinet	Stainless steel construction	
Weight & Dimensions	14.5kg 430 x 371 x 154mm (WxDxH) 32lbs 16.9 x 14.6 x 6.1in IP55 controller version: 17.5kg, 541 x 401 x 229mm (WxDxH) 38.5lbs 21.2 x 15.7 x 9 in 4.5m (14.8ft), 9m (29.5ft) optional	
Conduit Length		
Inputs & Outputs		
Product Detect Inputs	NPN / PNP / 24V – Sensor	
Product Speed Detect	Shaft Encoder (differential) or Steady Signal	
Signal Inputs		
Signal Outputs	Laser Ready, Busy Signal, fume extractor control, compressed air control	
Interfaces	RS232, Ethernet (10/100 MBit), USB Port	
Electrical Requirements	88-132V / 170-264V, 47-63Hz 1050W	
Environment		
Controller	Standard version (air cooled, fan) and IP55-version for higher protection	
Laser heads	Standard version (air cooled, fan) and IP65 version (compressed air cooled)	
Environmental Standard	Operating Temperature 5° to 40° C / higher temperatures on request. (41° to 104° F)	
Operating Humidity	Max. 90% RH, non condensing	
Options	Aiming Beam, User Port Kit I/O, Fume Extraction Shroud, USB Image Backup/Restore Kit, Rack Mounting Kit, Daisy-Chaining	

*Characters per second and production line speeds are substrate and code dependent

**Dimensions measured overall for shortest version

