DOMINO

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.

Scan the code to find out more about D-Series

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.

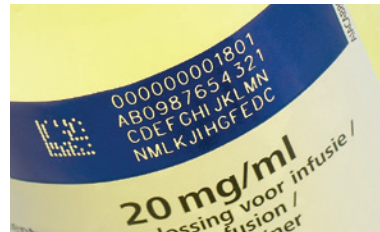A new IP65 version design adds greater protection for harsh environment installations.

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

Improved performance at high line speeds through the patented optional **i-Tech** *RapidScan* technology.

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 coding

Special lasers for clear codes on PET and PP materials

High quality at highest line speeds

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

D-Series uses **QuickStep**, our unique simplified operator user interface for effortless control and status reporting. No complex menus or parameters, just enter the job and you are ready to print.

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.

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 also ensures legally compliant solutions to cover the serialisation requirements of the European Falsified Medicines Directive (EU Directive 2001/83/EC) with both human readable and 2D datamatrix coding.

More performance – increases efficiency

Faster without compromise

The **i-Tech** scan head is the fastest scan head of its kind – resulting from its optimised mirror and software control plus the revolutionary patented **i-Tech** *RapidScan* technology.

RapidScan makes our lasers 20% faster for high-speed applications than other scribing lasers as **D-Series** can track the product for longer by using the optimum configuration of the mark field.

The new **i-Tech** *RapidScan* also improves the ability of **D-Series** to code difficult to mark materials and to print longer or more complex codes where more energy or time is required to scribe the code.

D-Series delivers results where other scribing lasers have already reached their limit.

Versatile performance

The new **D-Series** offers a power range of 10W, 30W and 60W lasers to fit all your coding needs, from low to high speed applications, basic to complex codes, and for all production environments.

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.
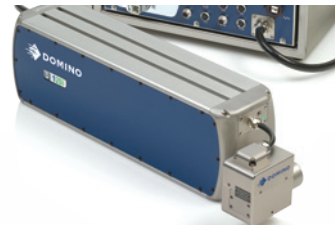
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A quick tour around the D-Series

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 for head rotation in 90 degree steps

Compact footprint design and small head gets into tight spaces

New **i-Tech** *RapidScan* coding technology for ultra fast performance

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.

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Technical Specification:

	D120i	D320i	D620i
Laser Type	Sealed-Off CO2 Laser, 30,000 hours MTBF		
Laser Wavelength	10.6μm typical (9.3μm as Blue Tube and 10.2μm as Red Tube option available)		
Laser Power	10W (approx. 8W for Blue Tube option @ wavelength of 9.3μm)	30W (approx. 20W Blue Tube (9.3μm); approx. 28W Red Tube (10.2μm))	60W
Marking Features			
Characters per Second	800*	1500*	2000*
Product Line speed	200m/min.* 650ft/min.*	400m/min.* 1300ft/min.*	600m/min.* 1970ft/min.*
Number of Lines of Text	As many as desired*	As many as desired*	As many as desired*
Character Height	0.6mm to size of marking field	0.6mm to size of marking field	0.6mm to size of marking field
Fonts	24 fonts, multi-language including Unicode	24 fonts, multi-language including Unicode	24 fonts, multi-language including Unicode
Marking Field &	58 × 58, 68 × 68, 84 × 84, 102 × 102, 136 × 136, 180 × 180mm	58 × 58, 68 × 68, 84 × 84, 102 × 102, 136 × 136, 180 × 180mm	58 × 58, 68 × 68, 84 × 84, 102 × 102, 136 × 136, 180 × 180mm
Focal Length	80, 100, 120, 150, 200, 250mm	80, 100, 120, 150, 200, 250mm	80, 100, 120, 150, 200, 250mm
User Interface	Web Browser-based Graphical User Interface (GUI) (optional **TouchPanel** 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 × 140 × 180mm** 36.4lbs 26.8 × 5.5 × 7.1in*	22kg 776 × 140 × 180mm** 48.5lbs 30.5 × 5.5 × 7.1 in	27.3kg 846 × 140 × 180mm** 59.5lbs 33.3 × 5.5 × 7.1 in (IP65) 30kg 946 × 140 × 180mm** 66.1lbs 37.2 × 5,5 × 7.1 in
Control Cabinet Weight & Dimensions	Stainless steel construction 14.5kg, 430 × 371 × 154mm (W×D×H) 32lbs 16.9 × 14.6 × 6.1in (IP55) 17.5kg, 541 × 401 × 229mm (W×D×H) 38.5lbs 21.2 × 15.7 × 9 in	Stainless steel construction 14.5kg, 430 × 371 × 154mm (W×D×H) 32lbs 16.9 × 14.6 × 6.1in (IP55) 17.5kg, 541 × 401 × 229mm (W×D×H) 38.5lbs 21.2 × 15.7 × 9 in	Stainless steel construction 27kg, 430 × 371 × 309mm (W×D×H) 60lbs 16,9 × 14,6 × 12,1in (IP55) 34kg, 541 × 401 × 458mm 74lbs 21.2 × 15.7 × 18 in
Conduit Length	4.5m (14.8ft), 9m (29.5ft) optional	4.5m (14.8ft), 9m (29.5ft) optional	4.5m (14.8ft), 9m (29.5ft) optional
Inputs & Outputs			
Product Detect Inputs	NPN / PNP / 24V – Sensor		
Product Speed Detect Signal Inputs	Shaft Encoder (differential) or Steady Signal		
Signal Outputs	Laser Ready, Busy Signal, fume extractor control, compressed air control		
Interfaces	RS232, Ethernet (10/100 MBit), USB Port		
Electrical Requirements	90-264V, 47-63Hz, 1050VA (D320i) / 2000VA (D620i)		
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 / water cooled (D620i))		
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, **i-Tech** *RapidScan* technology		

*Characters per second and production line speeds are substrate and code dependent **Dimensions measured overall for shortest version

Standard Controller

D620i Controller

Laser head D120i and D320i

Laser head D620i

Controller IP55

D620i Controller IP55

Laser head D120i and D320i IP65

Laser head D620i IP65

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