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 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 plus a special scan head option for larger web coding applications

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. Wherever practical 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.

QuickDesign Lite - Simplifying message design
If you would like to create your laser coding message from a remote PC D-Series offers QuickDesign, a single, easy to use Windows® application. It also lays the foundation for providing increased automation of your coding needs.

Easy to operate
D-Series i-Tech uses QuickStep, our unique simplified operator user interface for effortless control and status reporting. No complex menus or parameters, just enter the job and away you go.
• Large user friendly icons and customisable home screen for quick access
• Intuitive 3-tiers menu structure makes QuickStep WYSIWYG message creation and editing quick and easy to learn
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 2011/62/EU) 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. There are two scan head options available for different application requirements, with the i-Tech 15 scan head offering exceptional code quality on larger mark field applications, e.g. for coding on the web.

**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.

- 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
- New **i-Tech RapidScan** coding technology for ultra fast performance
- Compact footprint design and small head gets into tight spaces
- IP65 option for more protection

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:

<table>
<thead>
<tr>
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<th>D120i</th>
<th>D320i</th>
<th>D620i</th>
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<tbody>
<tr>
<td>Laser Type</td>
<td>Sealed-Off CO2 Laser</td>
<td>approx. 45,000 hours MTBF</td>
<td></td>
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<tr>
<td>Laser Wavelength</td>
<td>10.6µm (typical 9.3µm as Blue Tube and 10.2µm as Red Tube option available)</td>
<td></td>
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</tr>
<tr>
<td>Laser Power</td>
<td>10W (approx. 8W for Blue Tube option) @ 10w (approx. 20W Blue Tube (9.3um); approx. 28W Red Tube (10.2µm))</td>
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**Marking Features**
- Characters per Second: 800* for D120i, 1500* for D320i, 2000* for D620i
- Product Line Speed: 200m/min.* for D120i/D320i, 400m/min.* for D620i
- Number of Lines of Text: As many as desired
- Character Height: 0.6mm to size of marking field
- Fonts: 24 fonts, multi-language including Unicode
- Mark Fields: D120i 58 x 58, 68 x 68, 84 x 84, 102 x 102, 136 x 136, 180 x 180 mm
- Focal Length: D120i 200 x 254, 262 x 334, 356 x 452
- Mark Fields i-Tech 10: 80, 100, 120, 150, 200, 250mm
- Focal Length i-Tech 10: 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, Danish, 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

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<tr>
<td>Weight &amp; Dimensions</td>
<td>16.5kg 681 x 140 x 180 mm*</td>
<td>22kg 776 x 140 x 180 mm**</td>
<td>27.3kg 846 x 140 x 180 mm**</td>
</tr>
<tr>
<td></td>
<td>36.4lbs 26.8 x 5.5 x 7.1 in*</td>
<td>48.5lbs 30.5 x 5.5 x 7.1 in**</td>
<td>66.1lbs 37.2 x 5.5 x 7.1 in**</td>
</tr>
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</table>

**Control Cabinet**
- Stainless steel construction

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<tbody>
<tr>
<td>Weight &amp; Dimensions</td>
<td>32lbs 16.9 x 14.6 x 6.1 in (IP55)</td>
<td>38.5lbs 21.2 x 15.7 x 9 in (IP55)</td>
<td>60lbs 16.9 x 14.6 x 12.1 in (IP55)</td>
</tr>
<tr>
<td></td>
<td>681 x 140 x 180 mm (WxDxH)</td>
<td>38.5lbs 21.2 x 15.7 x 9 in (IP55)</td>
<td>38.5lbs 21.2 x 15.7 x 9 in (IP55)</td>
</tr>
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**Conduit Length**
- 4.5m (14.8ft), 9m (29.5ft) optional

**Inputs & Outputs**
- Product Detect Inputs: NPN / PNP / 24V - Sensor
- Product Speed Detect: Shaft Encoder (differential) or single ended signal
- Signal Inputs: Laser Ready, Busy Signal, fume extractor control, compressed air control
- Signal Outputs: Interfaces: RS232, Ethernet (10/100 Mbit), USB Port

**Electrical Requirements**
- 90-264V, 47-63Hz, 1050VA (D120i/D320i) / 2000VA (D620i)

**Environmental**
- Control Unit: Standard version (air cooled, fan) and IP55 version for higher protection
- Laser: 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)

**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

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