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 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.

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.

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.

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.

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.

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 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.

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.
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
- 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.

Domino. Do more.
## Technical Specification:

<table>
<thead>
<tr>
<th></th>
<th>D120i</th>
<th>D320i</th>
<th>D620i</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Laser Type</strong></td>
<td>Sealed-Off CO2 Laser</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Laser Wavelength</strong></td>
<td>10.6µm (typical)</td>
<td>10.6µm (typical)</td>
<td>10.6µm (typical)</td>
</tr>
<tr>
<td><strong>Laser Power</strong></td>
<td>10W (approx. 8W for Blue Tube option)</td>
<td>30W (approx. 20W Blue Tube (9.3µm); approx. 28W Red Tube (10.2µm))</td>
<td>60W</td>
</tr>
</tbody>
</table>

### Marking Features

<table>
<thead>
<tr>
<th>Character per Second</th>
<th>D120i</th>
<th>D320i</th>
<th>D620i</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Line speed</strong></td>
<td>200m/min.* 650ft/min.*</td>
<td>600m/min.* 1970ft/min.*</td>
<td>846 (D320i) 681 (D120i)</td>
</tr>
<tr>
<td><strong>Character Height</strong></td>
<td>0.6mm to size of marking field</td>
<td>0.6mm to size of marking field</td>
<td>0.6mm to size of marking field</td>
</tr>
<tr>
<td><strong>Marking Field &amp; Focal Length</strong></td>
<td>58 x 58, 68 x 84, 102 x 102, 136 x 136, 180 x 180mm</td>
<td>58 x 58, 68 x 84, 102 x 102, 136 x 136, 180 x 180mm</td>
<td>58 x 58, 68 x 84, 102 x 102, 136 x 136, 180 x 180mm</td>
</tr>
<tr>
<td><strong>Laser Head</strong></td>
<td>Stainless steel and anodised aluminium construction</td>
<td>Stainless steel construction</td>
<td>Stainless steel construction</td>
</tr>
</tbody>
</table>

### 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

### Laser Head

- Stainless steel and anodised aluminium construction

### Control Cabinet

- Stainless steel construction
- Stainless steel construction
- Stainless steel construction

### 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

- NPN / PNP / 24 V – Sensor
- Shaft Encoder (differential) or Steady Signal
- Laser Ready, Busy Signal, fume extractor control, compressed air control

### Interface

- RS232, Ethernet (10/100 MBit), USB Port

### Electrical Requirements

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

### Environment

- Standard version (air cooled, fan) and IP55-version for higher protection
- Standard version (air cooled, fan) and IP65 version (compressed air cooled / water cooled (D620i))
- Standard version (air cooled, fan) and IP55 version (compressed air cooled / water cooled (D620i))

### 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