# The Domino D100+

*Extremely versatile and robust 10W scribing laser designed to provide superior quality coding on a wide range of surfaces at **low to medium speed** production lines.*

## Key Benefits

### Versatile coding

- Marks serial numbers, batch codes, bar codes, 2D codes, realtime numbers, logos, graphics, or more complicated European and Asian characters

- Range of marking fields dependent on application

- Blue tube technology (9.3µm) available for optimum code quality (esp. for PET applications)

### High Reliability

- Robust and reliable in the most demanding production environments

- Proven sealed-off $CO_2$ laser technology requires no consumables and minimum maintenance

- No hard drive needed – less moving parts for high reliability

### Easy to install and integrate

- Compact laser head with modular design for installation in any orientation

- Separate controller can be easily mounted or stacked and/or stored away minimising footprint requirements

### Simple to Use

- The D100+ has a built-in web server that allows all functionality to be controlled remotely via any interface running a standard Java–enabled web browser

- Domino Touchscreen option

## Pharmaceutical Option

- Unique user passwords and change reporting

- Validation packages available

- Facilitates adherence to 21-CFR part 11 and GAMP

## Main Features

- Modular design for flexible laser head orientations

- Flexible controller for easy mounting and stacking options

- Multiple wavelength options for different application needs

- Intuitive Windows® based software

- User friendly remote Domino Touchscreen

**High quality laser codes**

**Easy to use intuitive interface**

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## Technical Specifications:

| | D100+ 7 | D100+ 10 | D100+ 14 |
|---|---|---|---|
| **Laser Type** | Sealed-off $CO_2$ laser, 30,000 hours MTBF | | |
| **Laser Wavelength** | 10.2 to 10.8μm (9.3μm as Blue tube option available) | | |
| **Laser Power** | 10W (approx. 8W for Blue tube option @ wavelength of 9.3μm) | | |

### Marking Features

| | D100+ 7 | D100+ 10 | D100+ 14 |
|---|---|---|---|
| Characters per Second | 800★ | 400★ | 150★ |
| Product Line speed | 198m/min.★ 650ft/min.★ | 140m/min.★ 460ft/min.★ | 45m/min.★ 148ft/min.★ |
| Number of Lines of Text | As many as desired★ | | |
| Character Height | 0.8mm to size of marking field | 0.5mm to size of marking field | 0.3mm to size of marking field |
| Fonts | 22 fonts, multi-language including full Unicode | | |
| Marking Field & | 56x56, 76x76 mm | 60x60, 120x120, 180x180mm | 60x60, 120x120, 180x180mm |
| Focal Length | 80, 120 mm | 100, 200, 300mm | 100, 200, 300mm |

| | |
|---|---|
| **User Interface** | Web Browser-based Graphical User Interface (GUI) (optional Touchscreen available) WYSIWYG entry, control language in English, German, French, Spanish, Dutch, Danish, Polish, Portuguese, Italian, Korean, Russian, Swedish and Chinese (Simplified) |
| **Operating System** | Windows CE |
| **Laser Head** | Stainless steel and aluminium construction |

| Weight & Dimensions | 20kg, 723 x 141 x 207mm★★ 44lbs, 28.5 x 5.6 x 8.1in | 21kg, 728 x 148 x 207mm★★ 46lbs, 28.7 x 5.8 x 8.1in | 22kg, 773 x 151 x 207mm★★ 48lbs, 30.4 x 5.9 x 8.1in |
|---|---|---|---|

| | |
|---|---|
| **Control Cabinet** | Stainless steel construction |
| Weight & Dimensions | 14,5kg, 430 x 371 x 154mm (WxDxH) / 32 lbs, 16.9 x 14.6 x 6.1in |
| Conduit Length | 4.5m (14.8ft), 9m (29.5ft) optional |

### Inputs & Outputs

| | |
|---|---|
| Product Detect Inputs | NPN / PNP / 24 V – Sensor |
| Product Speed Detect Signal Inputs | Shaft encoder or steady signal |
| Signal Outputs | Laser ready, busy signal beacon, fume extractor control |
| **Interfaces** | RS232, Ethernet (10/100 MBit), USB Port |
| **Touchscreen (optional)** | 10.4" SVGA full colour touchscreen, 310 x 235 x 80mm (WxDxH), VERSA 75 mounting standard |
| **Electrical Requirements** | 100–240V 50/60Hz 1050VA |
| **Environment** | Designed for IP54, air cooled (fans) |

### Environmental Standard

| | |
|---|---|
| Operating Temperature | 15° to 38°C (60° to 100°F) |
| Operating Humidity | Max. 90% RH, non condensing |

### Options

User I/O, axial beam output, network and remote control software (TCP / IP), fume extraction shroud

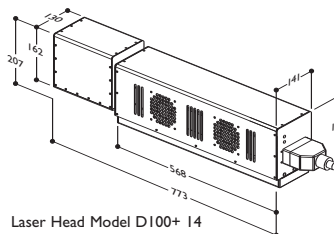★*Characters per second and production line speeds are substrate and code dependent*

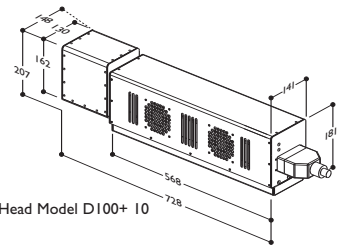★★*Dimensions measured overall*
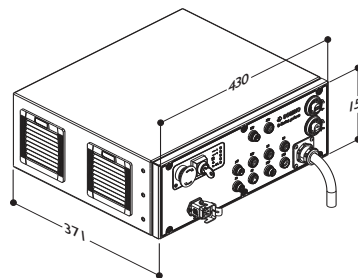


D100+ controller
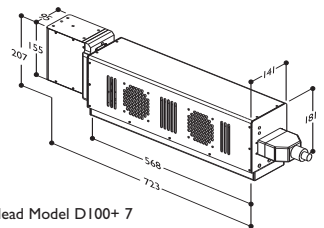


Laser Head Model D100+ 7



Laser Head Model D100+ 10



Laser Head Model D100+ 14

*All dimensions in millimetres. All dimensions length x width x height*

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