DOMINO

Domino **D3**10-Series Laser Coders

Versatile and reliable solution for coding on a wide range of substrates

The all new compact edition of our successful CO_2 laser coders designed to fit into the smallest of spaces.

SO-SAL-3400-027

Domino. Do more.

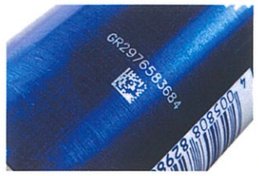
Compact lasers with built-in flexibility

D310-Series are flexible, compact, lightweight 30W laser coders, ideally suited to today's on-the-fly coding requirements on product packaging, and consumer and industrial goods.

D310-Series are typically used to create codes which include multiple elements such as text, shapes, pictures, dates, times, and machine-readable codes, using a variety of 1D and 2D code formats including QR codes.

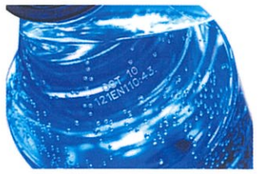
Diverse range of applications

The **D3**10-Series works across a wide range of substrates, with various coding area sizes and flexible label editing software to create a large variety of codes and layouts.

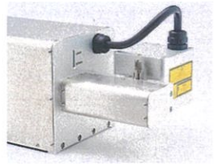


High code quality ideal for 2D Data Matrix coding

High-quality at fast line speeds



Special lasers for clear codes on PET and PP materials



Easy to integrate and use

- **D3**10 is the smallest and lightest CO_2 laser in its class
- Built-in controller means no additional control box
- **D3**10e has a vertical mounting option when space is at a premium
- LM Editor QS software with every laser provides an easy to use operator interface and label editor

Flexibility

- Three laser wavelengths code on a wide range of materials
- Six lenses for a wide range of marking field size
- Optional IP55 rating for tough environments
- Codes can consist of multiple lines and elements including text, shapes, images, dates, times, variable data, and many 1D and 2D code formats

Safe and compliant design

- Designed and tested to international EMC, electrical and laser safety standards
- Integral safety interlock design certified to ISO13849-1 Performance Level D (PLd)
- Supplied with laser guarding for safe installation and fume extraction for a clean working environment

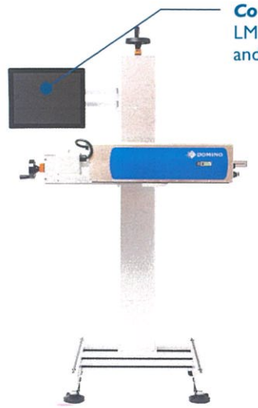
Greener credentials

Domino's commitment to and investment in sound environmental practices means we frequently exceed demanding governmental, industry, and company standards and requirements. 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.

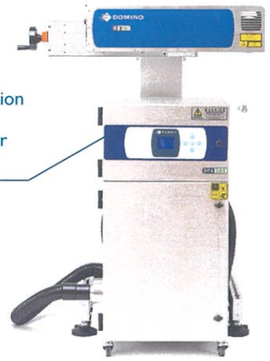
D**3**10-Series

The **D3**10 and **D3**10e provide superior coding with no need for consumables and a 30% reduction in weight compared to other models-minimising waste and helping to reduce your carbon footprint. Automatic temperature-controlled fan cooling means the coder saves energy whenever applications allow.

D310/310e – Laser Coding System Advantages



ControlPanel or IPC with LM Editor QS – easy to use and minimises errors



Integrated Domino DPX fume extraction provides a simple solution to maintain a clean working environment while optimising laser performance and lifetime

Optimised space utilisation - Integrated laser head and controller

IP rated – Reliable operation in harsh environments

Cooling fan design – ensure normal and efficient operation of the laser tube

Flexible mounting – 0 and 90 degree scan head positions

Easy installation and integration – full-length mounting rails

Domino. Do more.

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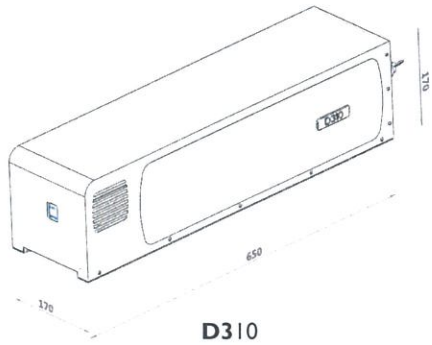
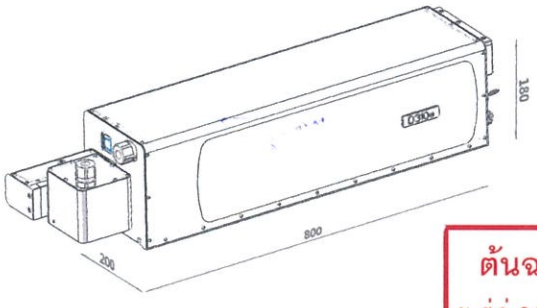
Technical Specifications

	D310	D310e
Laser specification		
Laser tube type	Black Red Blue	Black Red Blue
Wavelength (µm)	10.6 10.2 9.3	10.6 10.2 9.3
F-theta lens options (mm)	Focal length = 80, 100, 120, 150, 200, 250	
Laser class	Class 4	
Laser tube MTBF	50,000 hours	
Integrated aiming beam	No	Yes**
Axial Option	No	No
Coding features		
Characters per second	1200*	
Product line speed (m/min)	350*	
Number of lines of text	As many as desired*	
Fonts	Multi-language including Unicode	
Mark field (mm)	58x58 68x68 84x84 102x102 136x136 180x180	
User interface language	User selectable between English, simplified or traditional Chinese, Japanese, Korean, Thai, Vietnamese, Indonesia Bahasa, Italian, Portuguese and Spanish	
Operating system	Laser coder - embedded Linux | User interface - Windows® 10	
User interface software	LM Editor QS software	
Laser construction	Stainless steel and anodised aluminium	
Weight and dimensions (mm)	21kg 170x170x650	25kg 200x180x800
Input and output		
Product detect inputs	NPN / PNP / 24V sensor	
Product speed detect	NPN / PNP / differential encoder	
Signal inputs	Laser start / mark control / print go / program in / user input	
Signal outputs	Laser ready / laser busy / fume extractor on / user output / beacon	Laser ready / laser busy / fume extractor on / user output / beacon / air control
Electrical requirements	100 to 230V 50-60Hz	
Environment		
Laser system	Standard (fan cooled)	IP55 (compressed air cooled)
Operating temperature	5°C to 45°C (41°F to 113°F)	
Operating humidity	90% non-condensing	
Options	Emergency stop, beacon, fume extractor, laser guarding	

* Characters per second and production line speed depends on material surface and coding content
** Aiming beam not available with 80mm and 100mm lenses



D310



D310e

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