

## INTRODUCTION (OURSELVES & ONLINE CO2 LASER MARKING MACHINE)

As one of the top manufacturers of laser machine in China, AmberMont dedicates itself into **researching & developing advanced laser technology and manufacturing a full range of laser machine, including laser marking machine, non-metal laser cutting machine & metal laser cutting machine, etc.** In addition, we also provide the automation solution on the base of laser technology, whoever you are, you can find the suitable machine from us...

Since the beginning, by committing to our clients, we only aim to provide the best laser machines and relative automation solutions as per different clients' demands. After years' development, we have transformed this commitment into our humble faith, which you will benefit from and the industry will be reshaped by.

Yet, true to our musical origins, no matter what business we take on or what country we do business in -- we seek to remain perfectly attuned to the set of shared values that define the world of AmberMont.

### 1 Our Culture

Our exclusive advantages, excellent technology, fabulous quality, premium service and outstanding enterprise culture, help us to gain the leading position of the laser industry.

#### 1.1 Core Value

The code of conduct, core value, is based on our vision & mission statement as well as on our values.

In order to dedicate ourselves to our clients and make everything perfect, AmberMont business activities are founded on the following values: **honest, respect, openness, responsibility, total customer dedication and excellence in all we do.**



Each of us is responsible for knowing and adhering to the values and standards set forth in this code. We take the standards set forth in the code seriously and violations are cause for disciplinary action up to and including termination of employment or business relationships.

#### 1.2 Philosophy

DMAIC has been a mature philosophy for enterprise management since 1990s, it has gradually become the standard for companies to perfect their effective and competent managements.

AmberMont embraced strategically the DMAIC management philosophy in 2013, introduction of this novel concept of management has driven us to run in a unique system of every aspects, like staffs training and internal communication.

### 1.3 Our mission

AmberMont aims to be the first choice of global clients, for this great mission, we'll be sticking to the principle of creating markets with outstanding quality and of establishing brand/reputation with great integrity.

AmberMont strengthens creative design and strict quality supervision to provide high performance laser machines to meet growing market demands. We always pay close attention to our clients' demands and provide global service & technical support. We regard staffs as the most valuable resources and inspires their growth by themselves.

## 2 Laser marking machine

Laser marking is one of the most popular non-touch laser processing technologies, laser marking is local irradiation in substances with high energy laser beam, make it evaporate rapidly or color change by physical or chemical reaction. These markers are permanent and hard to be removed. To compare with other marking methods, laser marking has many exclusive advantages as following:

	<b>Laser</b>	<b>Ink Jet</b>	<b>Dot Peen</b>	<b>Chemical Etching</b>
Marking Quality	excellent	average	poor	excellent
Marking Permanence	permanent	rubbed off easily	permanent	permanent
Marking Speed	fast	fast	slow	slow
Marking Method	non-touch	non-touch	touch	touch
Consumables	none	inks	stylus	chemical masks
Application	almost all	high speed moving parts	large / thick metal parts	thin metals & repeated marks
Integration	high flexible system, programming & remote operation	basic marking demands	basic marking demands	NA

AmberMont manufactures a full range of laser marking machine, including fiber laser marking machine, CO2 laser marking machine, Diode end-pump laser marking machine, UV laser marking machine & green laser marking machine, etc.

Since various industries have higher demand on high performance of laser processing equipments, as one of the top manufacturers of laser machine in China, we also provide automation solutions on the base of laser technology, whoever you are, you can find the suitable laser marking machine from us.

**Attn.: Charlie Wen M.P.: +86 136 0179 0660**

**E-mails: [charlie.v.k@ambermont.com](mailto:charlie.v.k@ambermont.com); [wi.charlie@yahoo.com](mailto:wi.charlie@yahoo.com)**

**URL: [www.ambermont.com](http://www.ambermont.com) SKYPE: charlie.wi (from Shanghai, China)**

### 3 Our Products -- Online CO2 laser marking machine

AmberMont online CO2 laser marking machine combines laser technology with production line, it can mark on fast moving products and conduct 24 hours continuous working in adverse production conditions, no consumables, maintenance-free. It's mainly used in marking characters, figures, batch numbers, production dates, validity, LOGO, real time clock information and anti-counterfeiting, especially the pharmaceutical industries GMP and food industries HACCP.

#### 3.1 Product advantage



Permanent marks

Non-touch laser marking, be able to mark high precise design on tiny surface



No consumables

High electro-optic conversion efficiency, long service life, maintenance-free, operated in 24 hours and severe working environment



Flexible structure

Small volume, the professional stand can be installed on all kinds of assembly line

Attn.: Charlie Wen M.P.: +86 136 0179 0660

E-mails: [charlie.v.k@ambermont.com](mailto:charlie.v.k@ambermont.com); [wi.charlie@yahoo.com](mailto:wi.charlie@yahoo.com)

URL: [www.ambermont.com](http://www.ambermont.com) SKYPE: charlie.wi (from Shanghai, China)

**AMBERMONT GROUP CO., LTD.**  
**SHANGHAI AMBERMONT MACHINERY EQUIPMENT CO., LTD.**

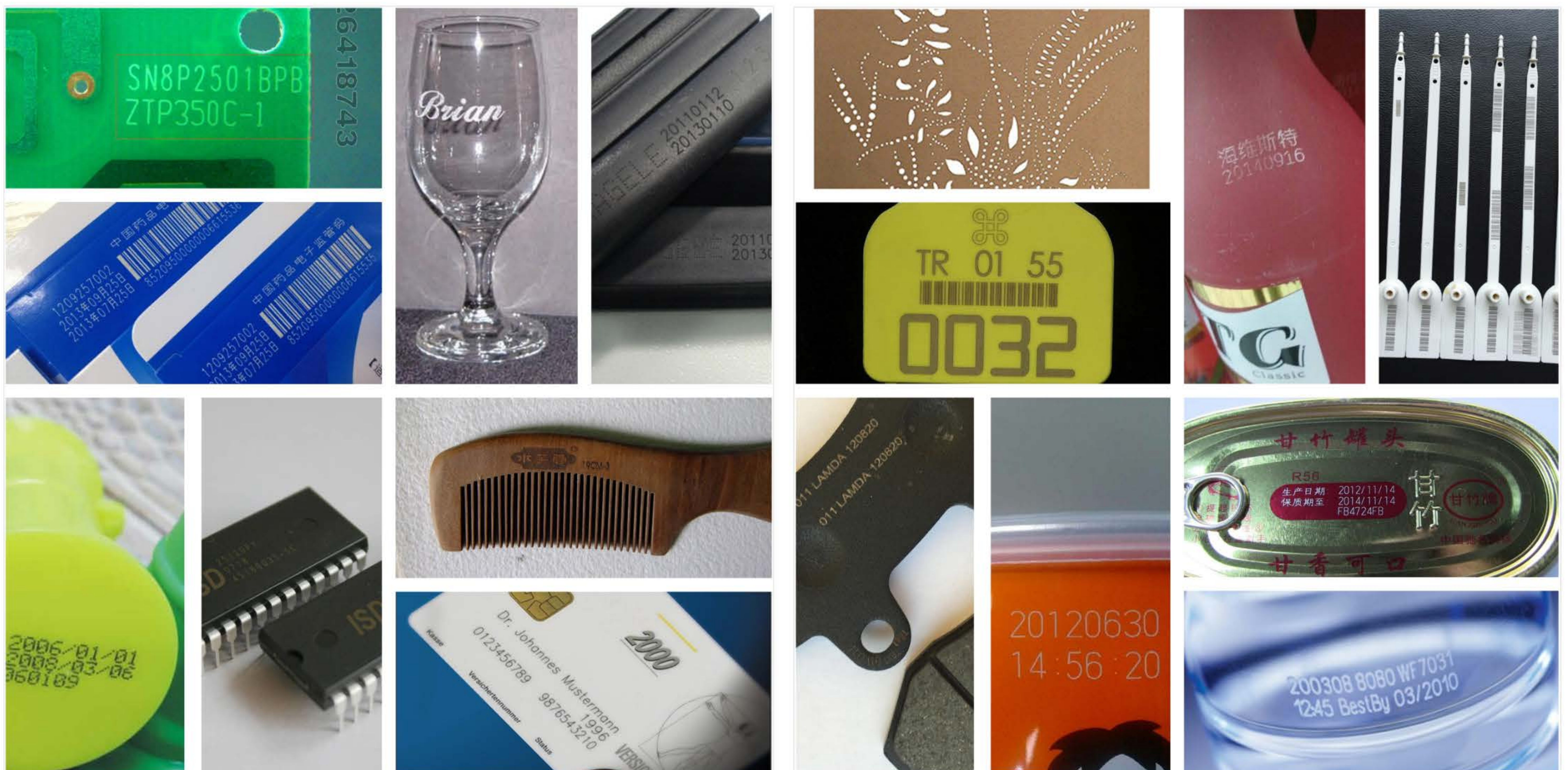
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999077/S.H. CENTER: 3/F., BLDG. #6, NO. 100 LANE 651 DONGXUE RD., SONGJIANG DISTRICT, SHANGHAI 201619, P.R. CHINA

**Intelligence & Automation**

Powerful control system, embedded touch screen panel PC, be able to optimize all kinds of marking parameters according to different processes and materials



**3.2 Sample display**



**3.3 Application**

It's widely used in food, medicine and medical industry, auto industry, 3C industry, electronic components, daily products, tobacco industry, smart cards, packing, plastic bottles, cables, tubes, etc, especially anti-counterfeiting laser marking in pharmaceutical industry, anti-counterfeiting traceability system in alcohol industry, anti-counterfeiting marking in food, drink and tobacco, daily hygiene products marking, smart card information marking and pipe online marking.

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E-mails: [charlie.v.k@ambermont.com](mailto:charlie.v.k@ambermont.com); [wi.charlie@yahoo.com](mailto:wi.charlie@yahoo.com)  
URL: [www.ambermont.com](http://www.ambermont.com) SKYPE: charlie.wi (from Shanghai, China)

## 4 Online CO2 laser marking machine -- Model #: FCN-I/II



Combine laser technology with production line, it can mark on fast moving products. It is mainly used in marking characters, figures, batch numbers, production dates, validity, LOGO, real time clock information and anti-counterfeiting, especially the pharmaceutical industries GMP and food industries HACCP.

### 4.1 Features:

- Flexible structure, fast speed, high security;
- High efficiency, high electro-optic conversion efficiency;
- Long life, easy operation, low running cost, operated in 24 hours;
- Powerful marking software, humanized operation interface, easy to be operated, without bothering for the operators altering;
- With open date interfaces, it can be used for our clients to communicate with logistics system through communications protocols;

It's suitable for all kinds of non-metallic materials marking/coding, such as paper, PVC, rubber, wood, glass, ceramic, plastic, PET, HDPE, leather, etc. And it is widely used in packing boxes, packaging bags, films, food cans, glass bottles, drink bottles, HDPE bottles, cables, pipes and electronic components industries.

#### 4.2 Tech parameters:

Models No.		FCN-I/II	
Optical Properties	Rated Output Power	12W	30W
	Laser Operating Mode	RF CO2 laser	
	Wavelength	1064nm	
	Repetition Frequency Range	0~20kHz	
	Output Power Stability	10%	5%
	Mode Quality	TEM <sub>00</sub>	TEM <sub>00</sub> (M <sup>2</sup> <1.2)
	Output Beam Diameter	3.5mm	1.8mm
	Beam Divergence	4mrad	7.5mrad
	Polarization	50:1 vertical linear	
	Cooling System	Internal air cooling	
Scanner Properties	Max. Marking Speed	≤8000mm/s	
	Repeatability	±0.002mm	
	Min. Line Width	0.1mm	
	Min. Character	0.6mm	
	Max. Marking Depth	0.8mm	1.0mm
Marking Characteristics	Pilot Laser	Red laser/650nm/5mW	
	Focal Distance	160mm±2mm (standard&optional)	
	Marking Area	110*110mm (standard&optional)	
System Properties	Rated Power	≤0.6kW	
	Power Supply	AC 220V/50~60Hz	
	Working Environment	0~35°C, Humidity ≤90%	

#### 5 Contact us

AmberMont has been aiming to develop and expand our markets on this blue lovely planet for years, advanced laser technology, high quality products and excellent service are what we are proud of and why we are the leading laser machines' manufacturer around the world.

We sincerely invite you to join us, as long as you identify with our enterprise culture. It is our best wish that we both will provide the most excellent products and services for every clients around the world. If you are willing to join us, **please contact us by e-mail ([info@ambermon.com](mailto:info@ambermon.com)) and our service hotline: +86-21-6034 3841 (UTC+08:00, 9:00~17:00), we are always looking forward to cooperating with you.**

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