

INTRODUCTION (OURSELVES & GREEN 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:

	Laser	Ink Jet	Dot Peen	Chemical Etching
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.

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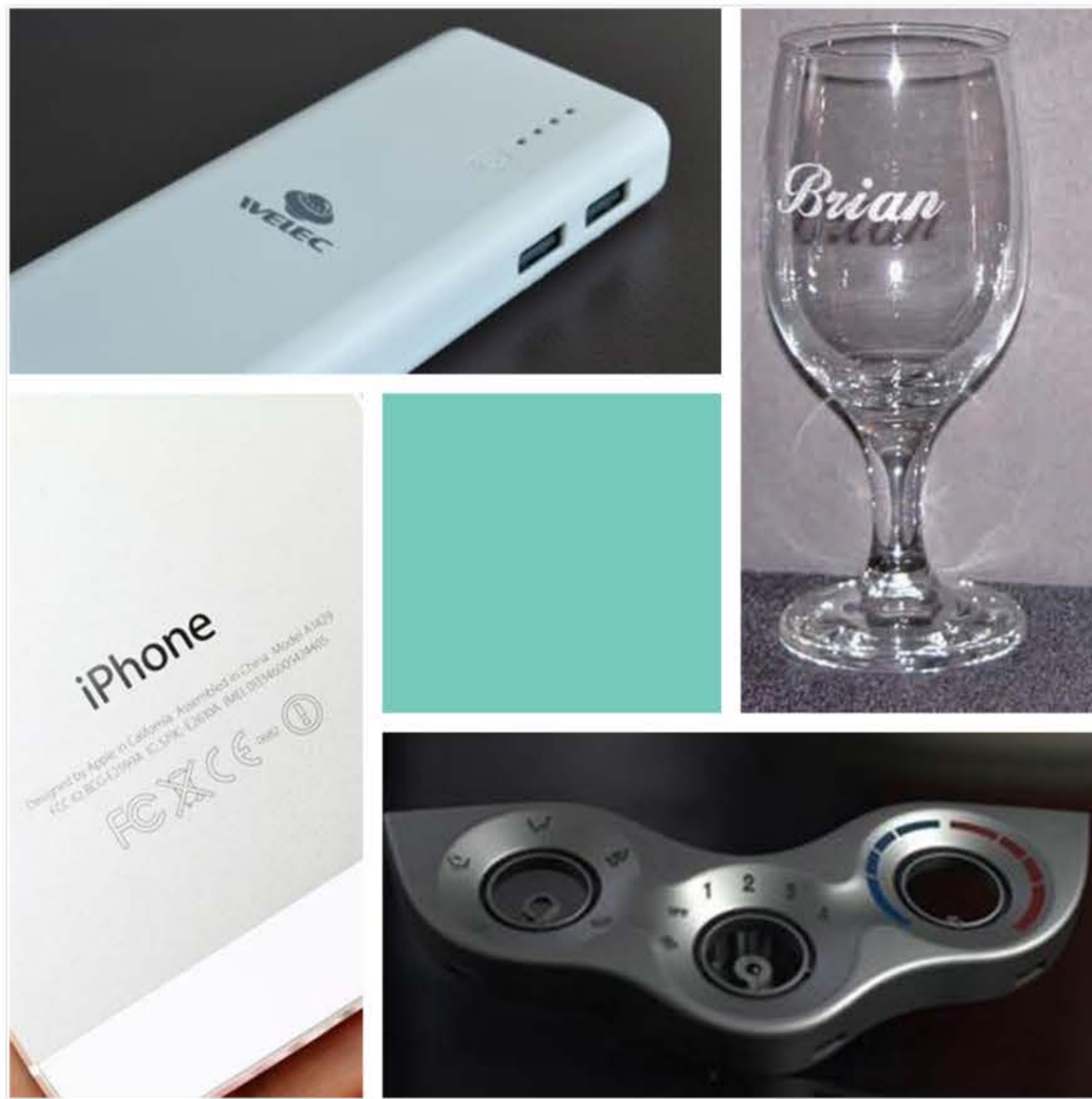
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3 Our Products -- Green laser marking machine

Diode laser marking machine includes diode side-pump laser marking machine and diode end-pump laser marking machine, it adopts semiconductor arrays as the laser source, the electro-optic conversion efficiency is more higher, reaching more than 40%; Overall performance is very stable, maintenance-free within 150,000 hours. Compared with other laser marking machines, it's more qualified for the ultra precision marking, special materials marking, but the price is relatively higher a bit.

Diode end-pump laser marking machine developed by AmberMont, integrates with highly standard configuration, it has been sold all over the world and very popular with our clients. Diode end-pump laser marking machine includes infrared, green and UV series, which is suitable for metal materials and many non-metal materials, widely used in electronic components, integrated circuits, hardwares, auto parts, plastic products and many other fields, especially for high quality laser precision micro-processing.

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



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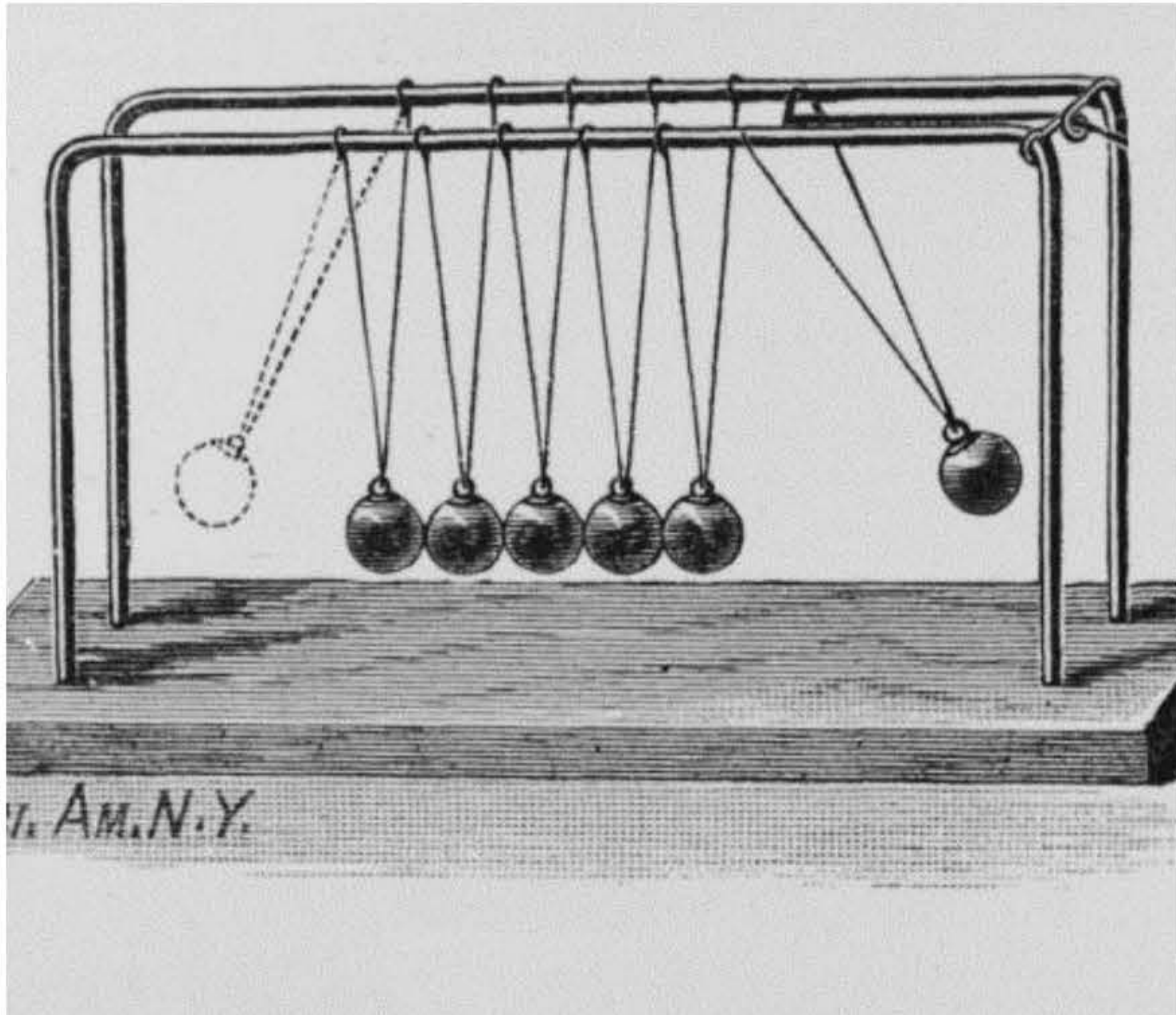
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AMBERMONT GROUP CO., LTD.
SHANGHAI AMBERMONT MACHINERY EQUIPMENT CO., LTD.

AmberMont

Automation Solution

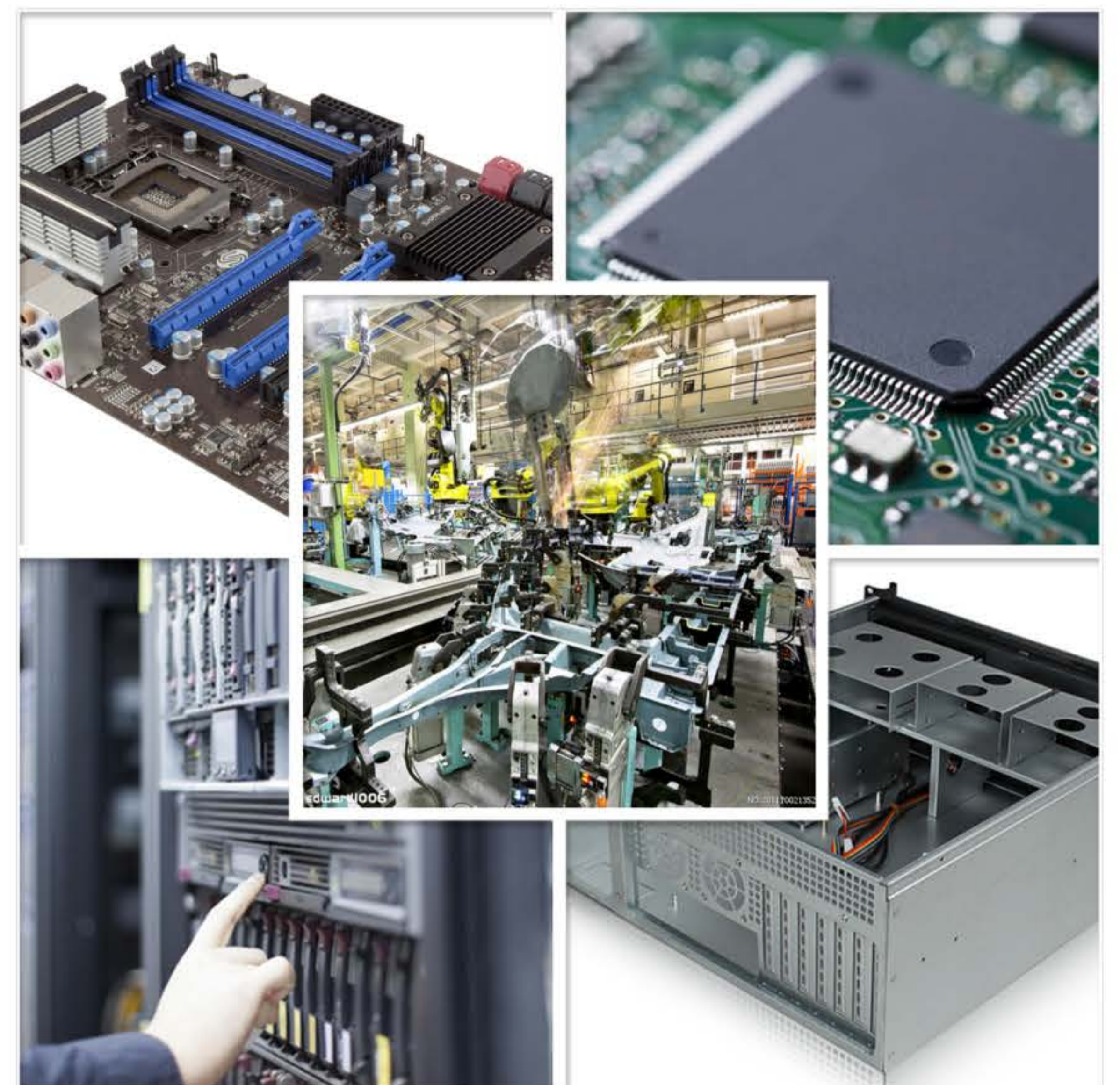
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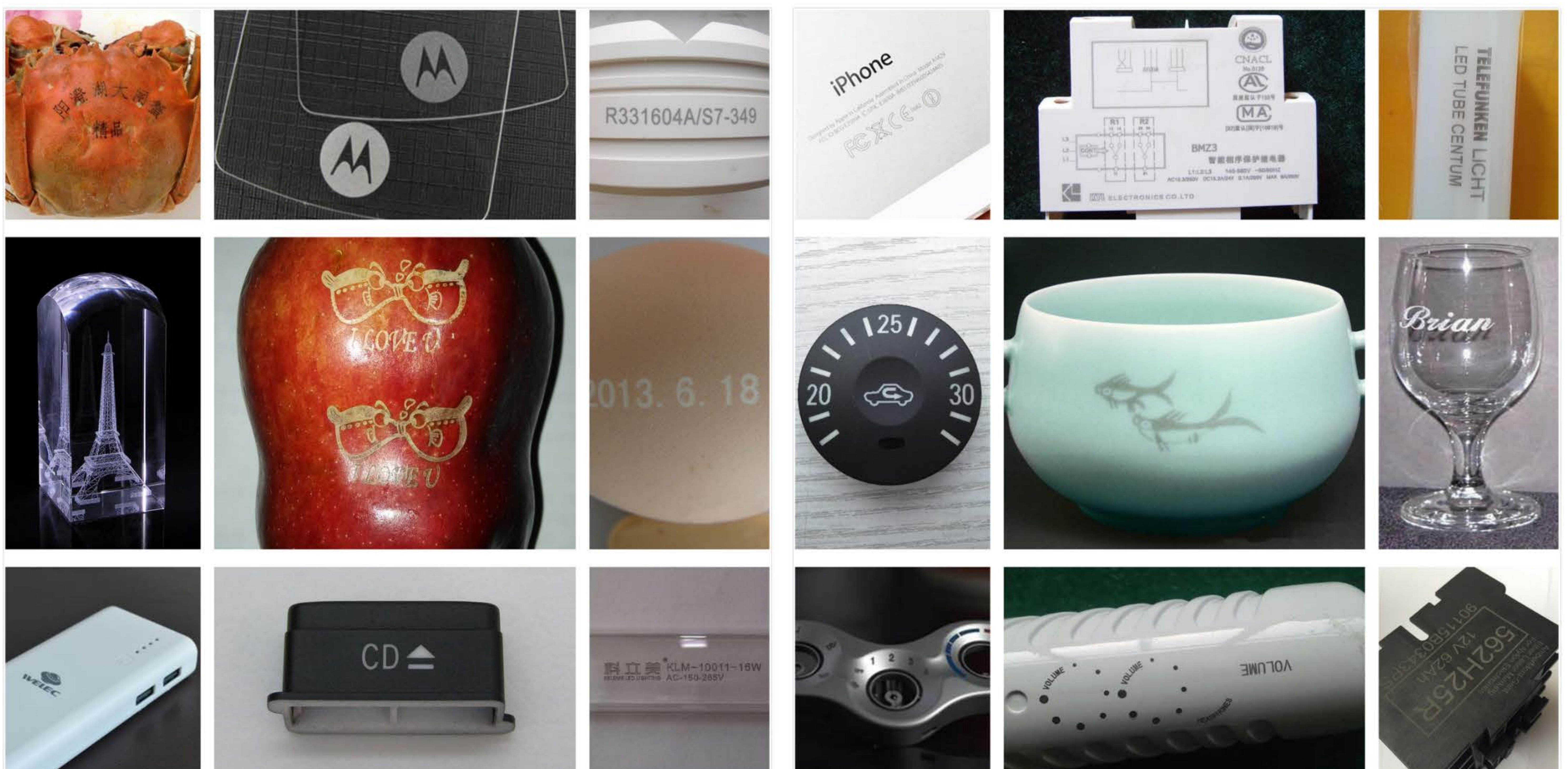
Long service life
 Maintenance-free within 150,000 hours, operated in
 24 hours and severe working environment

Intelligence & Automation

Powerful control system, be able to optimize all kinds of
 marking parameters according to different processes/materials



3.2 Sample display



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3.3 Application

It's widely used in integrated circuits, electrical appliances, communications, precision instruments, electronic components, electrical industry, integrated circuits, hardware tools, auto parts, plastic products, crafts ornaments, etc, especially in special materials marking, cutting and processing, such as all kinds of glass, LCD panel, textiles, chip ceramics, semiconductor wafers, IC grains, sapphires, polymer films, etc.

4 Green laser marking machine -- Model #: SGG-I/II



Compared with traditional laser marking machine, it has low energy consumption and easy maintenance. Based on the large energy of 532nm laser, the selectivity of marking materials is much better.

4.1 Features:

- Heating affect can be ignored, it can be used for ultra precision marking & special materials marking;
- Marking accuracy under 10 μ m, neat in marking edge and no thermal deformation;
- Advanced hardware control technology and intelligent software, easy operation, stable performance, batch processing efficiently and economically;
- High electro-optic conversion efficiency, long life, low energy consumption, easy maintenance, cost saving;

It's widely used in electrical appliances, communications, precision instruments, electronic components, electrical industry, integrated circuits, hardware tools products, auto parts, plastic products, crafts ornaments, etc.

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4.2 Tech parameters:

Models No.		SGG-I/II		
Optical Properties	Rated Output Power	7W	10W	20W
	Laser Operating Mode	Nd:YVO4 green laser		
	Wavelength	532nm		
	Repetition Frequency Range	20~200kHz		
	Mode Quality (M ²)	TEM ₀₀ (M ² ≤1.2)		
	Output Beam Diameter	≤7mm		
	Pulse Width	<15Ns@50kHz		
	Beam Directivity	<25μrad		
	Beam Stability	≤3%rms		
	Beam Divergence	≤2mrad		
	Polarization	>100:1 horizontal linear		
	Cooling System	Internal air cooling or Water cooling		
Scanner Properties	Max. Marking Speed	≤15000mm/s		
	Repeatability	±0.001mm		
	Min. Line Width	0.03mm		
	Min. Character	0.15mm		
	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	0.4kW	0.8kW	
	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) 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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