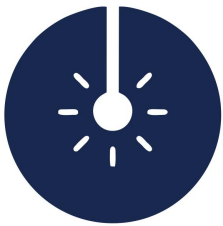


UV LASER MARKING MACHINE



cold processing



high resolution



PRODUCT DESCRIPTION

High-contrast marking on sensitive materials

UV lasers have a wavelength that is 1/3 (355nm) of the basic wavelength laser (1064nm) and are in the ultraviolet region, hence the name 'UV laser coder'. UV lasers are more readily absorbed by most materials and can be marked without thermal damage, a method known as 'cold marking'.

PET packaging manufacturers are increasingly using 'thin-walled' PET in an attempt to reduce costs and minimise waste, making laser marking difficult and risking burn-through. The choice of UV laser coders can solve this problem. At the same time, the number of instances where inkjet coding has been converted to laser marking is also increasing in the context of the laws and regulations relating to the strengthening of drug control.

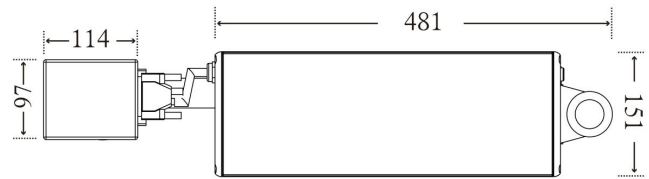
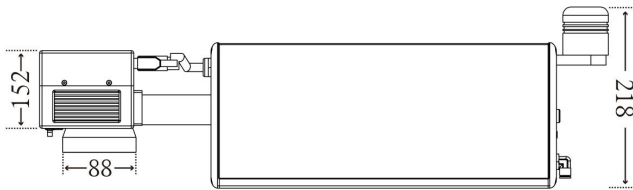
PRODUCT ADVANTAGE

- High-resolution, high-contrast coding on HDPE/LDPE without any additions.
- The minimum spot size is 0.8 mm, making complex markings as readable as the visual image;
- As the UV laser is a 'cold light source', it reduces the amount of dust and the generation of odourous gases;
- The standard IP54 protection rating enables continuous and stable operation in harsh environments such as dusty and humid environments;
- The photochemical effect creates a permanent colour change on the surface of the object without affecting the material itself.

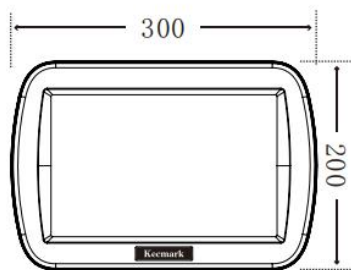
PRODUCT MIX



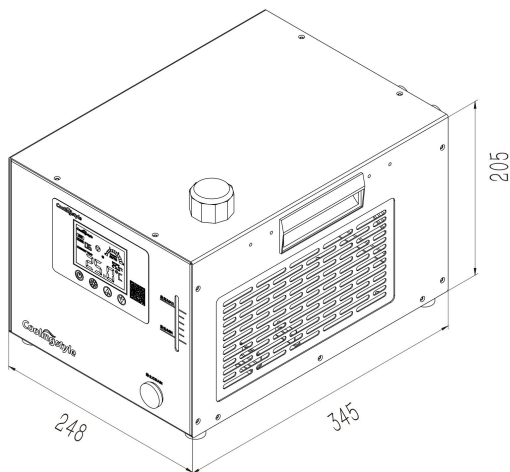
PRODUCT SIZE



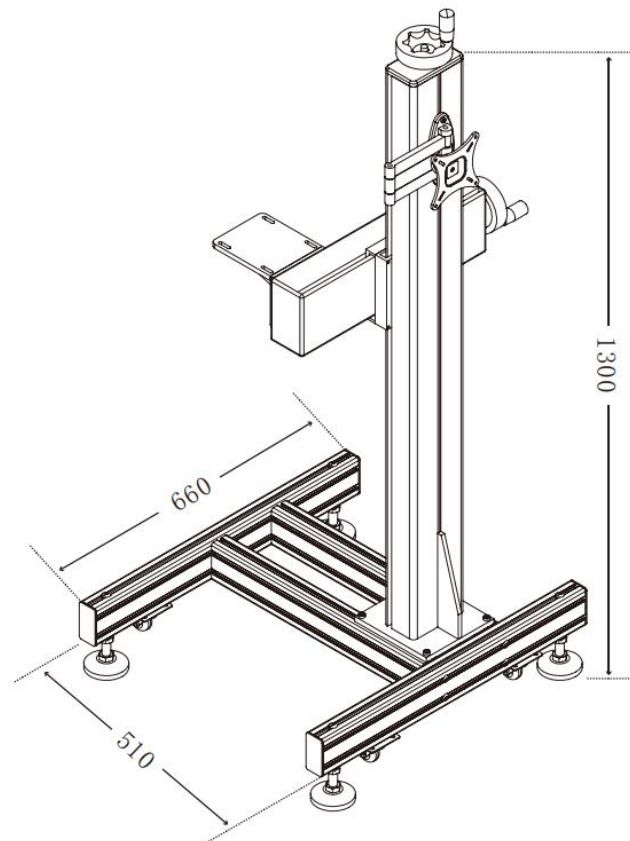
lasers



touch panel



Industrial chiller



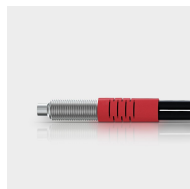
bracket

PRODUCT PARAMETERS

Lasers	UV nanosecond solid-state lasers
Power	3W/5W/10W
Laser wavelength	355nm
Repetition rate	10-200KHz
Radiation field	6x (customisable)
Laser class	Class 4 laser products ~ IEC60825-1 compliant
Marking direction	0-360°
Marking area	Standard 110*110mm (can be customised)
Scribing speed	Up to 20m/s
Working distance	255-265mm(customisable)
Spot size	0.8mm (±0.2mm)
Marking content	1D, 2D barcodes, icons, Chinese, English and numbers
User interface	10' full colour touch screen
Communication interface	RJ45、RS232、RS485、USB、SD card
Rated voltage	200~240V 50/60Hz
Power of the whole machine	≤1KW(including water tanks)
Weight	Laser 14kg, Industrial chiller10kg
Cooling method	Water cooling
Protection class	IP54(customisable)
Environmental temperature	0~40°C
Humidity range	Relative humidity <80%, non-condensing

STANDARD ACCESSORIES

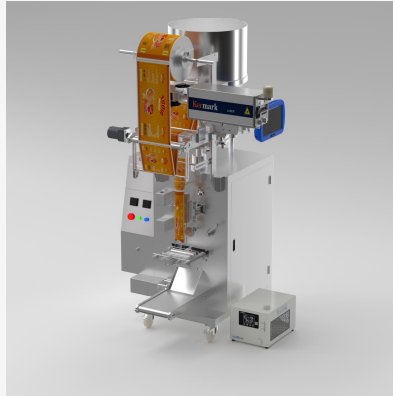
- Industrial chiller
- Lifting bracket
- Signal cable
- Encoders
- Touch panel
- Power cable
- Photoelectric sensors



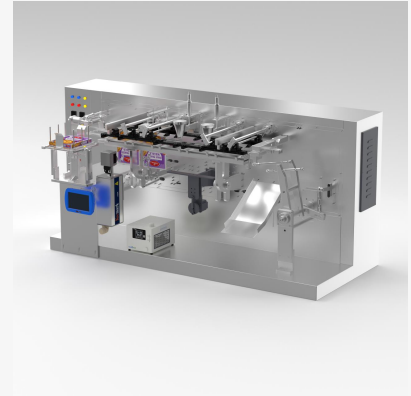
APPLICATION SCENARIO



● Pillow machines



● Vertical machines



● Horizontal bag feeders

MARKING EFFECT





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