

PERFECT LASER

Fiber Laser Scribing Machine PE-20W/50W



Perfect Laser produced a new generation of laser scribing machine PE-20W / 50W material mainly used for metal and silicon, germanium, gallium arsenide and other semiconductor material substrate scribing and cutting, machinable solar panels, silicon, ceramic , aluminum foil, etc.

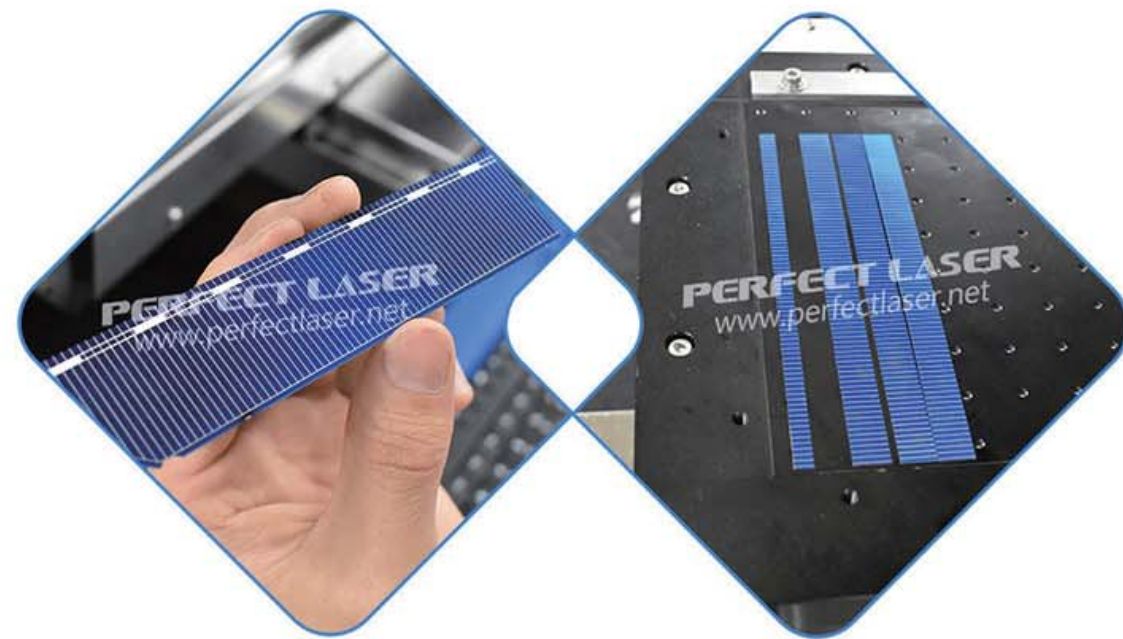
This solar cell scribing machine adopts continuous pumping acousto-optic adjustable Q's Nd: YAG laser as work light source, The two-dimensional work table is controlled by computer, and could do kinds of movement according to what graphics be input in. High output power, high precision scribing, fast speed and could cut curve and straight line graph.

This laser scribing machine is widely used in solar photovoltaic industry, monocrystalline silicon and polycrystalline silicon solar battery (cell) and silicon (wafer) of scribing processing (cutting section).

1. Software upgrade: the solar cell scribing machine supports the arc interpolation, circular arc cutting more smoothly.
2. The wafer laser scribing machine upgrade: covers an area of space smaller after modification, operating more accord with human body engineering.
3. Refactoring workbench processing part, open-type workbench processing area, up-down material more convenient. Removed spare parts from the workbench tablet, higher precision and not easy to deformation.
4. Improvement the screw parts of the wafer laser scribing machine: screw lead increased, so as to expedite the processing speed, guarantee machining accuracy.
5. Direct plug-in light path design, higher machining precision, the wafer laser scribing machine can receive better effect .
6. Serve motor modification of laser scribing solar cells machine: run more smoothly, smaller cutting noise, more humanized design;
7. Authoritarian flat dust removal device, The processing effect of the solar cell scribing machine is better.
8. Improved the laser signal control section, software runs more stable and fast.

Model specification	PE-20W/50W Laser Scribing Machine	
Laser wavelength	1064nm	
Laser power	20W	
Scribing line width	50um	
Scribing speed	240mm/s	
Scribing precision	±10um	
Workbench wide	200×200mm	
Temperature control precision	0.5°C	
Working power supply	220V/50Hz/1.5KVA	
Workbench	Cell automatic adsorption, dust removal	
Cooling way	High precision and constant temperature circulating water cooling professional integration	Air cooling

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