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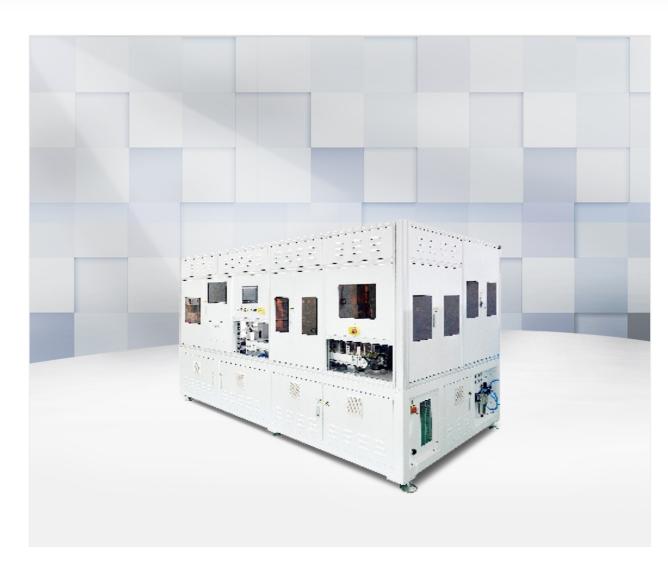
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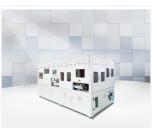
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Solar cell nondestructive laser cutting machine

Brief Description

The dicing process used in the production of high-efficiency photovoltaic modules replaces the conventional laser dicing machine

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The core principle of non-destructive laser cutting is laser thermal stress controlled fracture technology, which uses laser to locally heat the material and produce a temperature gradient on the material surface, so as to induce the generation of thermal stress, and induce the stable fracture of the material through appropriate control of thermal stress. Non destructive laser cutting can realize low-temperature processing and avoid the ablation damage of solar cells.

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Main Features

good mechanical performance and high conversion efficiency;
maximum capacity ≥ 7200p / h, multiple configurations are optional;
widely compatible with mainstream and new crystalline silicon battery products;
ndependent intellectual property rights, multiple core patents.

Main Parameters

Machine type	MLC7200C4-A	NLC7200C4-A	MLC7200C4J-A	MLC7200C4JF-A
basic function	Automatic Non-destructive laser splitting (with water or without water cooling) can be configured according to customer needs			
Scribing function	Scribing 2 / Scribing 3 (can be configured according to customer needs and can be upgraded to process 5 and 6)			
Cell size	156 x 1 56 ~ 230x 230 m m, thickness 120 ~ 300u m			
Fragment rate	0.03% or 0.05%			
Applicable specifications of	Compatible with aluminum back field battery, double-sided perc battery, TOPCON battery, n-type hjt heterojunction battery, etc			
battery				
Slotting process	Line width ≤ 30um, heat affected zone ≤ 100um, line length 2-5mm			
Split zone process	500W laser, no heat affected zone, no laser damage such as microcracks, and no damage to the surface of the battery			
Loading detection	Industrial camera, ≥ 20 megapixels			
Capacity	≥7200P/H			
Comprehensive accuracy	Positioning deviation: ≤± 0.05mm, angle deviation: ≤ 0.08 °, scribing deviation ≤± 0.1mm			
Contamination ()	Feeding code scanning, grid line positioning, sheet turning, PL detection, accurate feeding, centralized feeding or AGV docking			
Customization function	and other functions are optional			
Machine size	L3300x W3250 x H2150	L2600x W3600 x H2150	L3300x W3250 x H2150	L3300x W3250 x H2150
	(mm)	(mm)	(mm)	(mm)
Machine weight	5000kg	4600kg	5000kg	5000kg