

Professional R&d / High Efficiency / Low Failure Rate



HIGH-SPEED LAMINATION CUTTING AND STACKING MACHINE

PRODUCT INTRODUCTION

The equipment is use for compounding die cut cathode and separator into a unit, the unit stacking a plurality die cut anode in sequence form cell. Cells were performed hot flat pressing, gluing and labeling. The equipment comprises process of anode electrode fabrication, cathode electrode fabrication, vacuum belt detection and conveying for anode and cathode, CCD correction, multi-piece stacking, cell offline, hot pressing, hot pressing offline, gluing, cell offline and so on.

Technical parameters of equipment

- Cutting and stacking speed: ≤ 480 PPM;
- Qualified rate: $\geq 99.5\%$ (only refers to the failure caused by equipment)
- Failure rate: $\leq 2\%$ (refers to the failure caused by equipment, excluding regular maintenance and pre-production preparation)
- Equipment weight: about 32T, ground bearing 1500 KG/m²;
- Equipment Size (mm: 18100 * 5580 * 3500 (L * W * H)



Thermal Lamination



Cutting



Stacking

Specification

Item	Specification	Technical parameters
Efficiency	Die cutting efficiency	≤ 480 PPM
	Number of Stacking stations	8
	Single-station Stacking efficiency	0.125s/pcs
	Auxiliary time of single cell	2S/JR
	Production capacity	≥ 5 PPM UNK1 (calculated based on the original cell 43/44 layer)
Precision	Electrode cutting accuracy	± 0.15 mm
	Alignment of integrated electrodes	± 0.5 mm
	Center alignment accuracy of adjacent electrode	± 0.3 mm
	Alignment of tabs	± 0.5 mm
	Adhesive accuracy	± 1 mm
Burr and service life	Chamfer mode life	Single life of 1 million times, total life > 15 million times
	cutting knife life	Single life > 1 million times, total life > 15 million times
	Horizontal burr V _k	V _k < 12um (based on the edge of electrode)
	Longitudinal burr V _h	V _h ≤ 12 single side coating thickness
Other	Failure rate	$\leq 2\%$
	Die cutting yield	$\geq 99.5\%$ (except for defective incoming materials)
	Lamination yield	$\geq 99.5\%$