

BROCHURE

ROBOSTAK

The membrane-less Laminator with the fastest cycle time in the world.

Teknisolar srl www.teknisolar.com

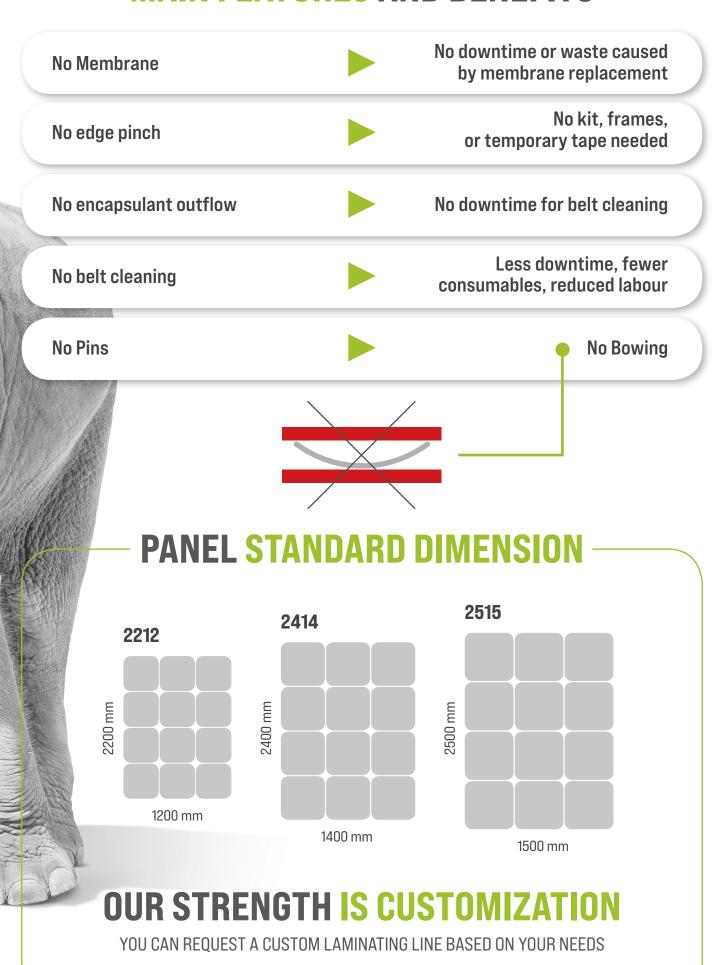




THE BEAST



MAIN FEATURES AND BENEFITS











VACUUM

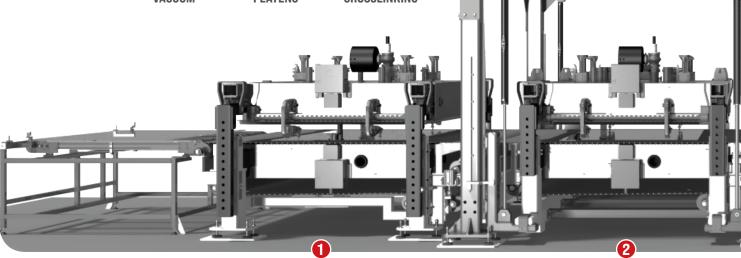


DOUBLE HEATED PLATENS



CROSSLINKING





HOT PROCESS

STEP 1 - LAMINATOR 1

HEAT (BOTH SIDES) - DEEP VACUUM PRESSURE (FLAT PRESS) Time spent in this stage = CYCLE TIME







STEP 2 - LAMINATOR 2

HEAT (BOTH SIDES) - PRESSURE (FLAT PRESS) Crosslinking stabilizes under pressure





NO MEMBRANE

MORE PERFORMANCE, LESS COSTS



PERFORMANCE



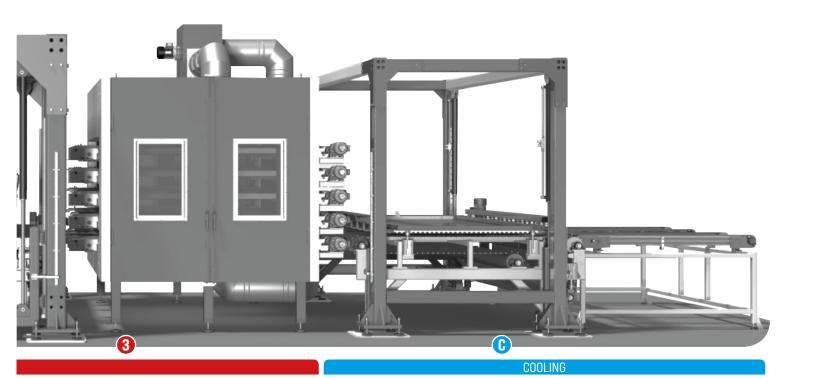
- Capacity range up to 675 MW/years
- **Optimal crosslinking process**
- Longer panel durability (no edge defects)
- Small and flexible footprint Fully automatic line
- (no personnel required)

COSTS



- Reduced power consumption
- Reduced manual labor costs
- Very low use of consumable materials
- No ordinary silicone membrane raplacement
- No extra equipment required to process either glass-glass and glass-backsheet modules
- Fewer laminators required to reach highest production capacity

The fastest cycle time in the world.



STEP 3/6 - CROSSLINKING FINISH

HEAT (4 LEVELS)

Crosslinking finish = Plateau temperature for 4 times the lenght of the cycle time.

HOT AIR CIRCLE



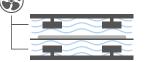


NUMBER OF LEVELS CUSTOMIZABLE

COOLING

FAN COOLING TOP AND BOTTOM Inverters for totally-controlled - air flow No bowing

COOLING DOWN



CHILLED PLATENS OPTIONALS

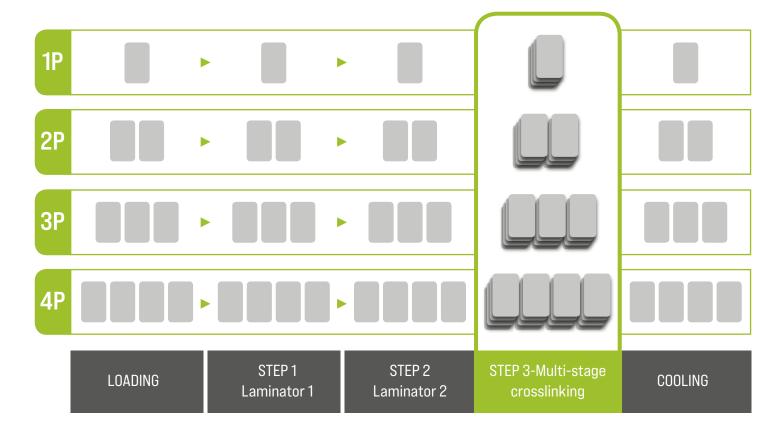
ROBOSTAK TECHNOLOGY 150° 130° 110° 90° 70° 50° 30° STEP 3-6 CROSSLINKING FINISH

When modules enter the lamination line, de-aeration starts immediately. Without pins, uniform heat is instantly applied on both sides. These functios, as well as the multi-stage crosslinking chamber, result in a significantly reduced cycle time.



You can quadruple your throughput

With 4-levels CROSSLINKING STATION



Robostak Laminator - Production Capacity

MW Calculations based on Glass-Backsheet modules, 350 days per yr, 24 hrs per day, 97% availability

	MODULES SIZE UP TO	MODULES SIZE UP TO	MODULES SIZE UP TO	MODULES PER HOUR
	2200x1200 mm (530 W)	2400x1400 mm (600 W)	2500x1500 mm (650 W)	
1 module per load	1P-2212	1P-2414	1P-2414	- 30-32 PH
MW	135 MW	155 MW	165 MW	
2 modules per load	2P-2212	2P-2414	2P-2414	- 60-64 PH
MW	275 MW	310 MW	335 MW	
3 modules per load	3P-2212	3P-2414	3P-2414	90-96 PH
MW	410 MW	465 MW	505 MW	
4 modules per load	4P-2212	4P-2212	4P-2212	120-128 PH
MW	550 MW	625 MW	675 MW	

ABOUT US



Teknisolar was born in 2009, with the aim of creating the most revolutionary and best performing laminator for photovoltaic panels. The founder, Vittore De Leonibus, 34 years of experience in the glass industry, former vice president of engineering of the multinational Pilkington-NSG, owner of 6 patents, with his team

of collaborators with a wide range of experience and technical expertise in renewable energy, applications and glass processing, has designed a revolutionary and unique lamination system in the world. We currently have two offices: one in Italy, in Abruzzo, and one in England, in Cheshire.



www.teknisolar.com





+39 0873.568537



Teknisolar SRL R&D - Manufacturing site Viale Marisa Bellisario, 26 66050 - San Salvo (CH) Italy







Teknisolar LTD 520 Birchwood Boulevard WA3 70X Birchwood Warrington - England



"Everyone has the power to make the world a better place"

ROBOSTAK LAMINATOR The fastest cycle time in the world

