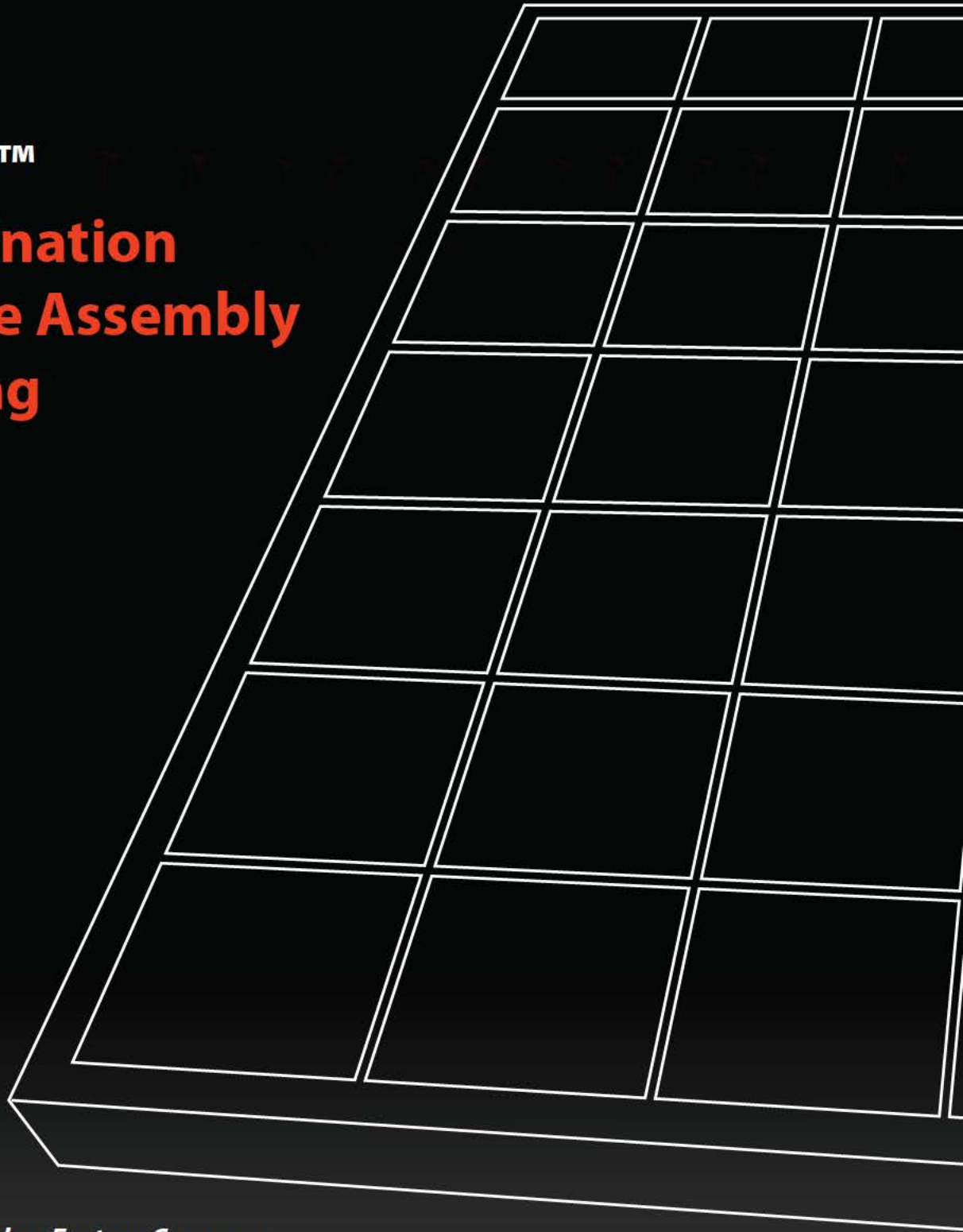




FAST-Line™
Post-Lamination
PV Module Assembly
and Testing



Spire. The Turn-key Factory Company.

www.spiresolar.com



MKT-0108 Rev A 8/11

FAST-Line™ Post-Lamination PV Module Assembly and Testing

Integrated around the best-in-the-world sun simulation and QA system, Spire's Final Assembly Simulation and Testing Line (FAST-Line) offers you a quick and efficient path into high volume PV module manufacturing with minimal risk and small capital expenditure. The FAST-Line takes module laminates and assembles them into fully functioning PV modules, allowing you to deliver local PV systems with added value and cost competitiveness against foreign imports. Spire offers

multiple levels of automation tailored to your specific needs. You can rely on Spire for full support in meeting all your PV-related business milestones, including expansion plans and raw material procurement.

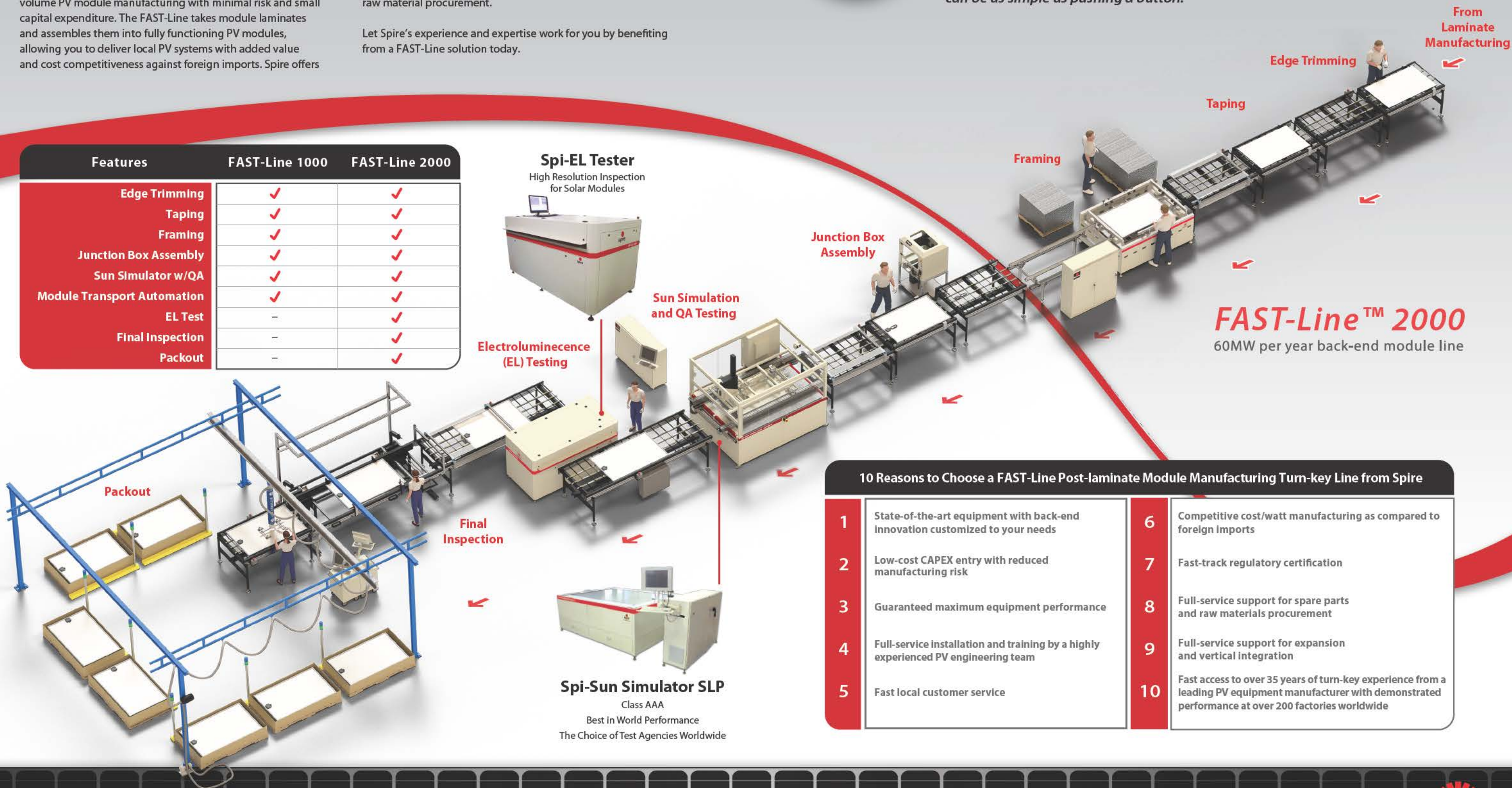
Let Spire's experience and expertise work for you by benefiting from a FAST-Line solution today.



Go Ahead. Push the Button.

With Spire's Photovoltaic Expertise, starting a factory can be as simple as pushing a button.

Features	FAST-Line 1000	FAST-Line 2000
Edge Trimming	✓	✓
Taping	✓	✓
Framing	✓	✓
Junction Box Assembly	✓	✓
Sun Simulator w/QA	✓	✓
Module Transport Automation	✓	✓
EL Test	-	✓
Final Inspection	-	✓
Packout	-	✓



FAST-Line™ 2000
60MW per year back-end module line

10 Reasons to Choose a FAST-Line Post-laminate Module Manufacturing Turn-key Line from Spire

- | | | | |
|---|--|----|--|
| 1 | State-of-the-art equipment with back-end innovation customized to your needs | 6 | Competitive cost/watt manufacturing as compared to foreign imports |
| 2 | Low-cost CAPEX entry with reduced manufacturing risk | 7 | Fast-track regulatory certification |
| 3 | Guaranteed maximum equipment performance | 8 | Full-service support for spare parts and raw materials procurement |
| 4 | Full-service installation and training by a highly experienced PV engineering team | 9 | Full-service support for expansion and vertical integration |
| 5 | Fast local customer service | 10 | Fast access to over 35 years of turn-key experience from a leading PV equipment manufacturer with demonstrated performance at over 200 factories worldwide |

Spi-Sun Simulator SLP
Class AAA
Best in World Performance
The Choice of Test Agencies Worldwide



The Spire Perspective: Becoming The Solar Turn-key Factory Company

Spire pioneered the development of low-cost, high-volume manufacturing technology that continues to make solar power an affordable energy alternative.

The design and engineering of our equipment is proven daily to ensure the real-world challenges of global commerce and marketing are met. In monitoring and responding to our customers' needs and growth expectations, we continue to add new, refined and advanced capabilities to our product offerings.

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