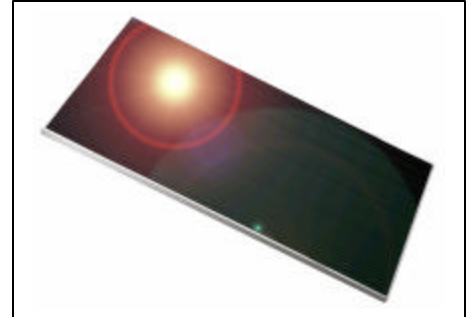




Shining a Light on Solar Power

Market provides perfect fit for Parker electromechanical products.

The worldwide market for solar energy has grown substantially in the past several years and is expected to continue to grow, fueled by worldwide government subsidies and incentives. Developing technologies that take advantage of the clean, abundant energy of the sun is important to reduce greenhouse gasses and help stimulate the economy. In addition, forecasts on global energy demand point to solar as a critical energy source, one of the few that can meet the estimated needs. It is currently the fastest-growing market for robotics and automation.



Parker's Electromechanical Automation Division has seen significant success in applying its products to the solar industry. Our traditional strengths in semiconductor markets make our expertise and products ideal to serve the solar industry. Coupled with specialized engineering assistance, Parker is able to provide valuable time-to-market benefits for solar companies.

Our solar-market capabilities include:

- Large-Format Metrology
- Medium and Large-Format Laser Scribing
- Large-Format Substrate Handling
- Thin-Film Wafer Metrology
- Transfer Robots
- Roll-to-Roll Processing
- Vacuum-Based Equipment Door Load-Locks
- Cell Cutting and Dicing
- Vision-Based Pick and Place
- Interconnect
- High-Speed Rotary Insertion
- Material Handling Applications
- Solar Array Positioning
- Specialty Turnkey Machines

To help bring solar technology to market quickly and efficiently, Parker has developed a team of engineering specialists that assists customers with solutions tailored to their needs. This group offers custom engineering solutions maintaining a strict timeline to develop and execute projects. They can incorporate multiple technologies, such as air-bearing, linear motor and pneumatic technology, with

composite or conventional materials to create a total solution. To complement this, Parker offers a complete range of component solutions that includes HMI, controls, drives, motors and mechanics.

Our manufacturing expertise in large-format machines and cleanroom-compatible motion systems, coupled with our global support infrastructure, make Parker an ideal motion partner for next-generation development. To learn more about Parker's solutions for the solar market, please visit www.parkermotion.com/solar.

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