



Adept Robotics for the Solar Industry

Driving Down the Cost per Watt



Your Intelligent Robotics Partner



Industry Leadership for Over 25 Years

Since 1983, Adept has been a leader in high precision assembly and handling in the semiconductor and electronics market. With over 25 years of robotics innovation, Adept has applied its experience and success to meet the unique demands of today's solar industry.

Adept robots are ideal for solar manufacturing.

Pressure on solar companies from growing demand and the need to drive down the costs per watt requires that their automation process delivers high yields, high volume, quick change in capacity, flexibility to adapt to part variations, and consistent product inspection throughout the process. Adept is the preferred partner for solar manufacturing, with the most advanced

line of robotics in the marketplace. Integrated vision and inspection and an easy to use programming environment allow systems to be brought to market quickly. With the most compact controls and highest performance throughout the product line, Adept provides maximum throughput per square foot of floor space. Backed by our award-winning global service and support, Adept is the right choice for your solar manufacturing needs.



Adept Quattro s650H



Adept Viper s850



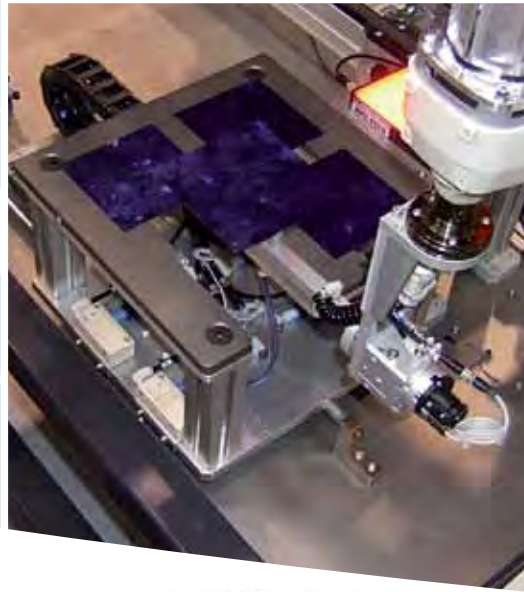
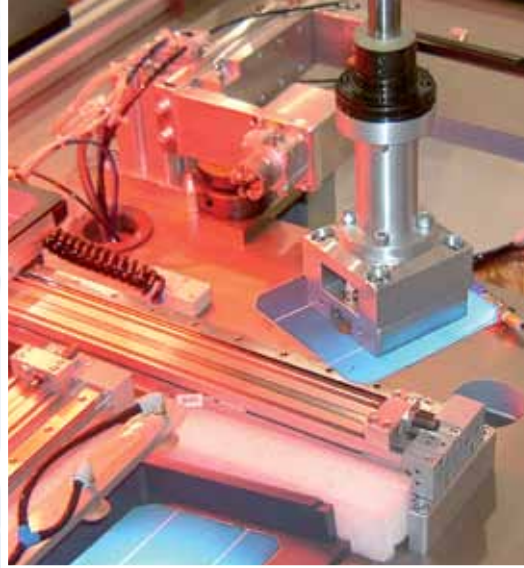
Adept Cobra s600

The Best in Flexible Automation

Adept offers the broadest range of flexible automation solutions for solar applications. Laser scribing, stringing, assembly, testing, sorting, loading, unloading, and inspection can be performed using Adept robots and vision systems. And all are capable of adapting to the changing demands of an ever-changing solar manufacturing environment.

Adept robots are designed to offer high performance, proven reliability and low maintenance. The simplicity of integration

and programming minimizes the use of engineering resources, making the robots easy to add into your factory. The ability to select from Adept's comprehensive line of robots, controls and vision solutions ensures that you maximize your return on investment. When you partner with Adept, you get the best in flexible automation that can accommodate your changing needs. Our application experts help you to design and program the most efficient solution for solar manufacturing – from the very first design phase to the final installation of the production line.



Adept Python



Adept Vision

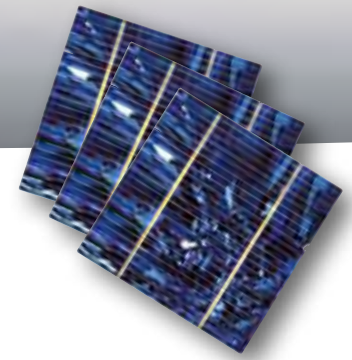


Adept SmartController CX

Compact Controls, Vision & Software

With the expertise that comes from our 35,000 installed systems, Adept has set the standard for industrial robot control, vision guidance, and advanced software. Adept robots seamlessly integrate state-of-the-art motion control, vision guidance, inspection, and conveyor belt tracking, all within a common controls environment.

This tight integration enables smoother motion, better repeatability, and more reliable inspection, all leading to increased solar production yields. And with the industry's most compact controller, Adept eliminates the need for the costly control cabinets required by alternative robot solutions, freeing up valuable factory floor space.



Adept Solutions for Solar Manufacturing

Today's ultra-thin solar cells require precise and gentle handling. And with the increasing demand on solar manufacturers for product, automation must deliver the highest throughput possible. The Adept Quattro s650 is the ideal robot for high-speed solar cell handling. With the largest work envelope for an overhead-mount robot, it has the ability to sustain smooth motions throughout its entire workspace. Its patented four-arm design and advanced controls algorithms gently handle solar cells at high speeds while minimizing losses due to breakage.

With speeds faster than any other robot of its kind, the Adept Quattro s650H robot maximizes throughput of your factory. The smooth movements and faster settling times minimize product breakage and are the key to optimal wafer handling.

Adept's ultra-compact controls combined with the Adept Quattro robot's large work envelope create the most efficient footprint of a material-handling robot in the solar industry.

“The speed, precision and flexibility of Adept’s robots combined with their award winning customer support make them an ideal partner for our rapidly evolving business.”

—Peter Kane
Evergreen Solar

Adept Headquarters

Adept Technology, Inc.
5960 Inglewood Drive
Pleasanton, CA 94588
USA
Tel: +1 925 245 3400
Fax: +1 925 960 0427
solar@adept.com
www.adept.com

Adept Europe

Adept Technology GmbH
Otto-Hahn-Str. 23
44227 Dortmund
Germany
Tel: +49 231 7589 40
Fax: +49 231 7589 450
info.de@adept.com
www.adept.de

Adept Asia

Adept Technology Intl Ltd
Block 5000 Ang Mo Kio
Avenue 5
#05-12 TechPlace II
Singapore 569870
Tel: +65 6755 2258
Fax: +65 6755 0598
asia@adept.com

adept[®]
ADEPT TECHNOLOGY, INC.