

Linear Actuators for Solar Tracking Systems



Proven reliability. Custom solutions. Expert support.

JOYCE

www.joycedayton.com

There's an innovative Joyce solution for all solar tracking technologies.

PV and CPV Tracking Systems

Single and dual axis trackers come in many shapes and sizes. Fortunately, Joyce/Dayton has actuators suitable for all variations. Joyce actuators are ideally suited for long-term outdoor use thanks to a specialized corrosion protection and finishing process. Joyce actuators are used on small commercial systems as well as large-scale, grid-connected installations throughout the world. With thrust capacities from just a few hundred pounds to over 100 tons, Joyce actuators can provide accurate, steady positioning for any PV or CPV application.



Solar Dishes

Parabolic solar dishes track the sun and focus its rays onto a central receiver such as a Stirling cycle engine. Joyce actuators provide efficient, reliable positioning and are backed with the experience of the #1 manufacturer of large linear actuators for the solar industry. Joyce understands the difficulties inherent in each application and can provide customized solutions such as aluminized fiberglass bellows to provide maximum protection against heat damage due to solar glint.

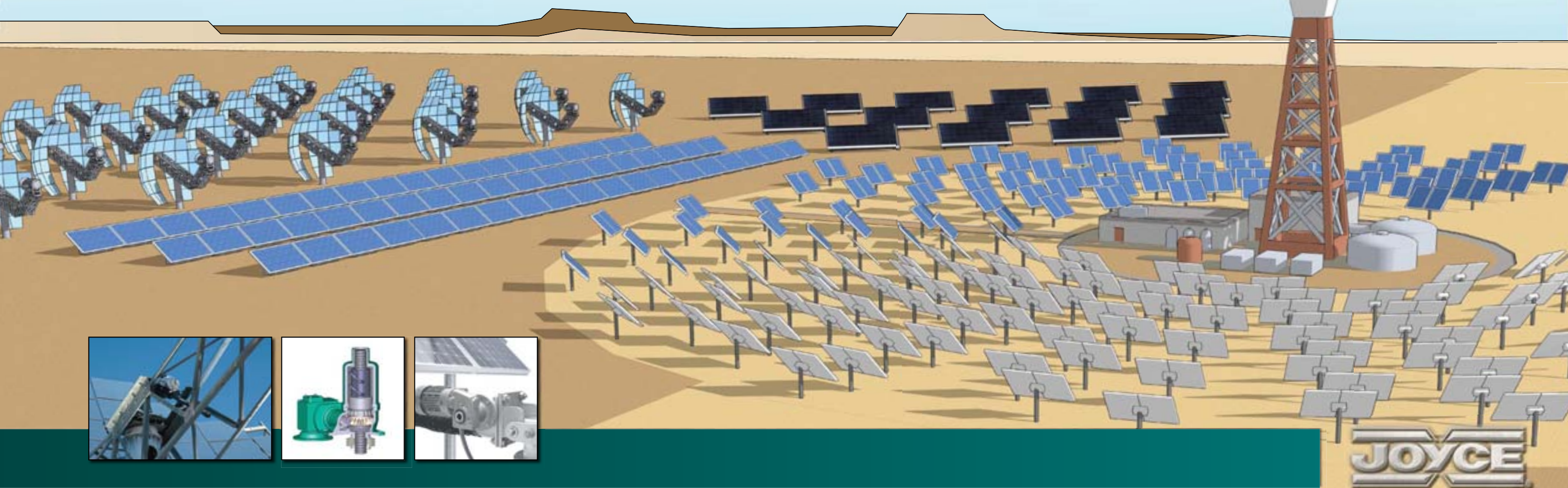


Solar Power Towers

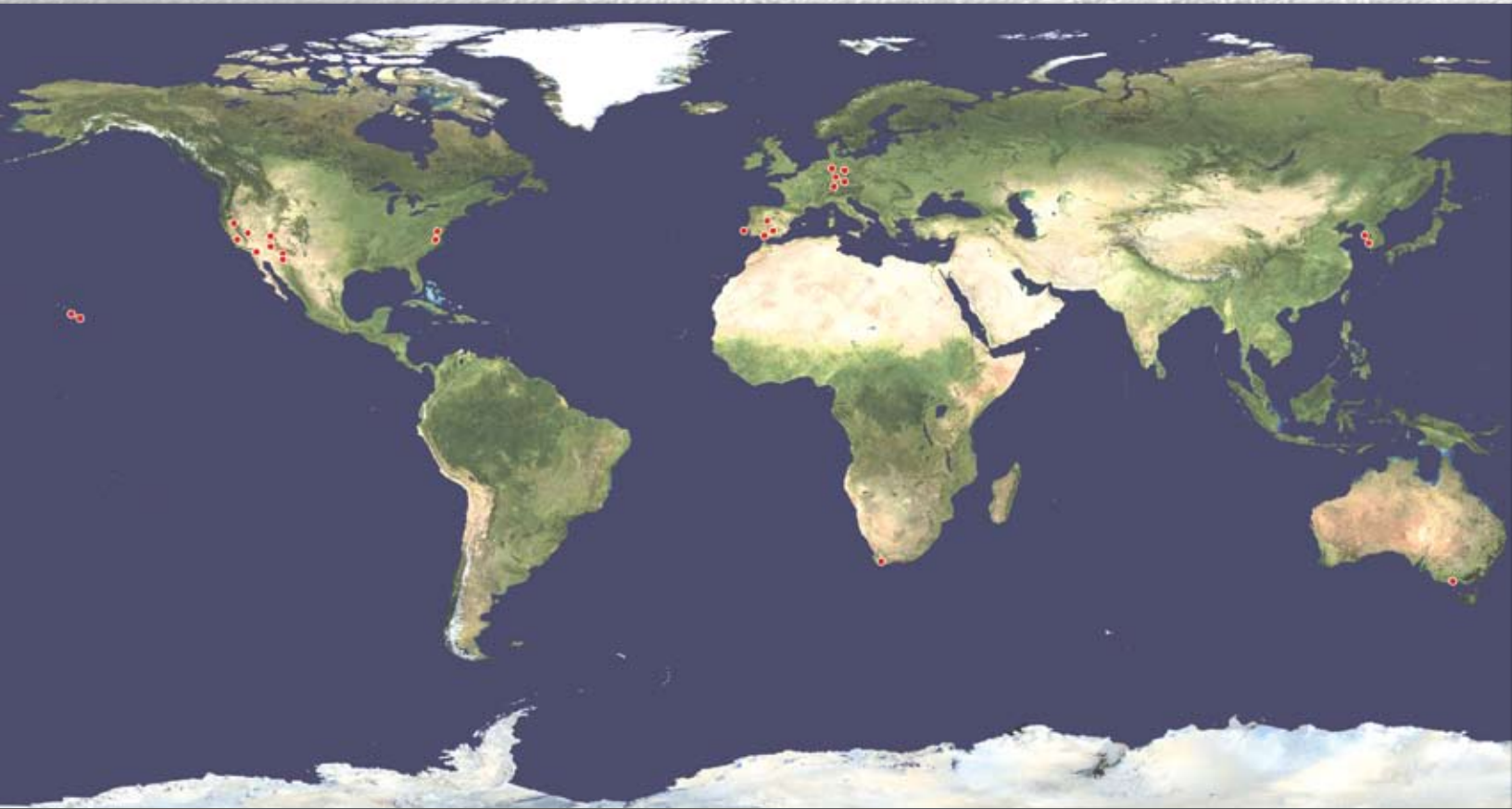
Solar power towers require precise positioning to focus the sun's rays. With decades of experience supplying azimuth and elevation actuators for antenna systems in the satellite communication industry, Joyce actuators are an ideal selection for heliostats of all configurations. Joyce/Dayton's experienced application engineers stand ready to provide the perfect customized solution for any type of solar tracking system.



Courtesy of DOE/NREL. Credit - Sandia National Laboratories.



Joyce Solar Installations



Since 1873, Joyce/Dayton has provided equipment and engineering expertise for virtually every type of linear motion application. From accessories to complete systems, Joyce can tailor equipment to your special lifting, positioning or holding requirements. With an experienced staff, and ISO 9001:2008 certification, Joyce can help you design arrangements and specify components down to the last detail — turning your ideas into working systems.

Joyce/Dayton Corp.

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