

## Kongres Container

# Solar concentrating tracking system



IP65/IP55 OUTDOOR CABINET

OUTDOOR MODULE CABINET

OUTDOOR 5G BASE STATION CABINET

WATERPROOF



## Overview

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Linear concentrating solar power (CSP) collectors capture the sun's energy with large mirrors that reflect and focus the sunlight onto a linear receiver tube. The receiver contains a fluid that is heated by the sunlight and then used to heat a traditional power cycle that spins a turbine that.

Concentrating solar power systems harness heat from sunlight to provide electricity for large power stations or for high-temperature industrial processes. Over 10,000 tracking heliostats focus solar energy at the receiver on the 640-foot power tower at the Crescent Dunes Solar Thermal Facility.

Solar tracking is a technology for orienting a solar collector, reflector, or photovoltaic panel towards the sun. As the sun moves across the sky, a tracking device makes sure that the solar collector automatically follows and maintains the optimum angle to receive the most of the solar radiation.

In this work, a motorless tracking mechanism for a linear concentrator has been modelled and analysed for the minimum tracking loads. A hydraulically damped suspension spring has been used for the smooth rotation of the collector without causing vibrations. The analysis is focussed on the geometry.

The 9 meter hybrid parabolic solar concentrator (solar dish) continuously tracks the sun throughout the day using a dual axis tracker enabling the system to harvest maximum solar energy from early sunrise to late sunset. Most solar concentrator tracking technologies use an actuator for vertical.

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