

IXL Solar presenting Sunfolding T29


UniSA – Industry Friends of Low Carbon Living Forum

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Traditional Trackers Add Significant Complexity

- ① Complex Layout Limitations
 - ① Restricted lengths, difficult on hills
- ① Complex Installation
 - ① Motors, gearboxes, grease, bearings, linkages, batteries, dampers, multiple torque tubes, multiple posts, etc.
- ① Complex Maintenance
 - ① Many maintenance locations: Batteries, motors, gearboxes, control systems
 - ① Maintenance locations throughout the array
 - ① Hundreds of moving parts





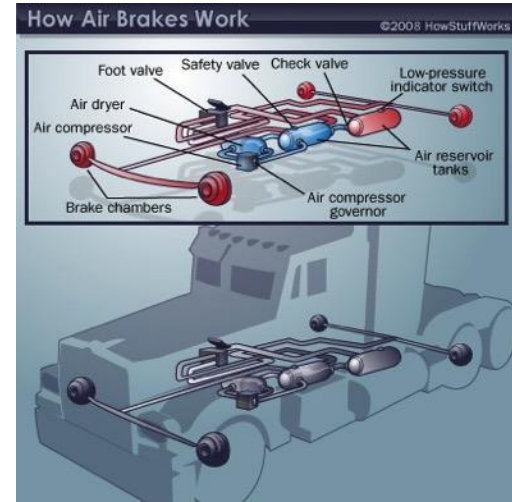
Solution: Replace machinery with **air**

“...compressed air is so widely used that it is often regarded as the fourth utility after electricity, natural gas and water...”

– Chip McDaniel, Automation Expert

Why Air? It's Robust

- Used in the highest reliability applications
- Automobile safety, manufacturing automation



“...which combine to make pneumatics the most popular and cost-effective choice for executing mechanical motion...” – Chip McDaniel, Automation Expert

Why Air? It's Proven

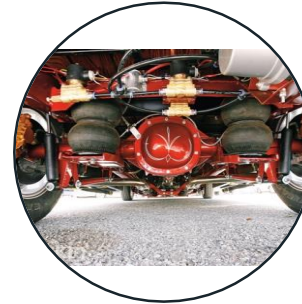
Used in industries where systems cannot fail and must last decades



Train, Truck, and Heavy Equipment
Suspension Systems



Industrial Heavy
Lifting



Industrial
Tilting



Natural Gas
Distribution

Simplicity of Air Naturally Better

Sunfolding T29



Development Phase

- Reduce Project Fixed Costs
- Increase Revenue



Construction Phase

- Reduce Construction Costs
- Energize Sooner



Operations Phase

- Eliminate Headaches
- Maximize Profits

Reduce complexity with fewer components

Tracker Performance, Fixed Tilt Simplicity.

Typical Trackers

- Posts (multiple sizes)
- Torque Tubes (multiple sizes)
- Motors
- Gearboxes
- Grease
- Bearings
- Brackets
- Dampers
- Drive Shafts
- Linkages
- Batteries
- Tracker Controller
- Self Power Panel
- Array Controller
- Bolts/Nuts (more than 10 sizes)


Sunfolding T29

- Posts (one size)
- Purlins (one size)
- AirDrive™
- Controller
- Supply Air System
- Bolts/Nuts (2 sizes)

Fewer Steps to Install

Typical Trackers

1. Install Motor Posts
2. Install Array Posts
3. Install Motor Mounts
4. Install Slew Drive
5. Install Motors & Adapters
6. Install Controller
7. Install Self Power
8. Install Array Controller
9. Install Bearing Housings
10. Align Bearing Housings
11. Install Torques Tubes
12. Install Dampers
13. Install E/W Module Rails
14. Install PV Modules
15. Install Inclinometers
16. Ready for commissioning

People Hours per MW = 




1. Install Posts

2. Install Sunfolding Actuator
3. Install Control Air

5. Install N/S Ralls (Purlins)

6. Install PV Modules
7. Install Supply Air
8. Ready for commissioning

People Hours per MW = 



How to contact us

Claude Dagescy
claudio.dagescy@ixl.com.au

Scott Jensen
scott.jensen@ixl.com.au

www.ixlsolar.com.au