



Behoort bij besluit namens burgemeester
en wethouders van Westerveld

11 oktober 2023 Zaak nr:330791

Plan Ruimte & Ontwikkeling

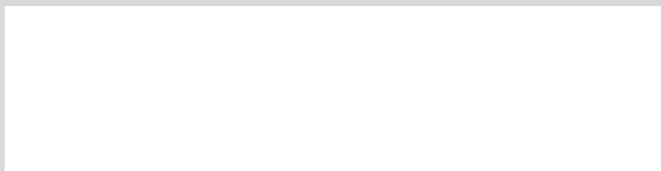
Zim Track

Horizontal single-axis tracker

- Strong and rigid construction, fully recyclable system components.
- Fast assembly, only bolted connections, no welding, cutting or drilling required.
- Patent pending for innovative module bracket with hooks for fast module installation.
- Integrated cable management.
- No expensive special tools required.
- Low maintenance system. Easy replacement of individual components including the gearbox without disassembly of the overall structure.

Zim Track– Technical Data

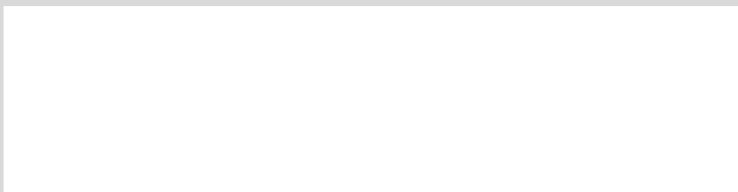
Design life	▪ 25+ years
Max. inclination Standard Tracker North-South	▪ 15 % / 4.5°
Max. inclination Tracker North-South	▪ 8 % / 8.5°
Length of tracker	▪ < 96 m
Turning angle	▪ +/- 60°
Min. ground clearance inclined module	▪ 200 mm
Average ground clearance inclined module	▪ Client specific, between 400 -600mm
Max. height module edge	▪ 2000 mm





Zim Track– Technical Data

Warranty statement	<ul style="list-style-type: none"> ▪ Tracker steel structure 10 years, control system 5 years with option to extend.
Tracking algorithm	<ul style="list-style-type: none"> ▪ Astronomical tracking algorithm with individual row backtracking.
Integration of Inverters	<ul style="list-style-type: none"> ▪ Weather protected inverter mounting possible, shelter from rain and overheating.
Drive system	<ul style="list-style-type: none"> ▪ Slewing drive, one unit per tracker row.
Cabling	<ul style="list-style-type: none"> ▪ Integrated cable management in main torque tube.
IP class	<ul style="list-style-type: none"> ▪ IP65
Weather protection	<ul style="list-style-type: none"> ▪ Storm, snow and hail protection integrated in optimised algorithm. Threshold settings project specific configurable.
Cleaning position	<ul style="list-style-type: none"> ▪ Individual configurable.
Tests / Certification	<ul style="list-style-type: none"> ▪ VDE Confirmation of electrical concept. ▪ Risk Assessment for health and safety for assembling and operation/maintenance. ▪ Wind tunnel test. ▪ Dynamic analysis for static calculation of substructure.
Monitoring	<ul style="list-style-type: none"> ▪ Remote monitoring and trouble shooting possible.

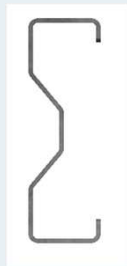
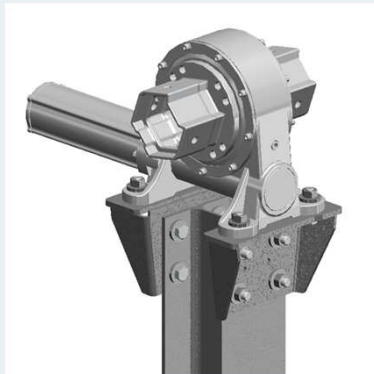
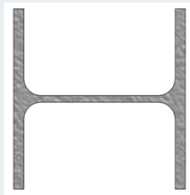




Zim Track – Main components

Main Components

- Centre HEA pile for drive unit
- Sigma piles for main tube bearings
- Maintenance free bearings
- Dampers





Zim Track – Main components

Main Components

- Bifacial optimized module holder with integrated hooks for fast module installation
- Wireless control system with 3 power options:
 - i. Auxillary AC supply
 - ii. String powered
 - iii. String powered with optional battery add on

