



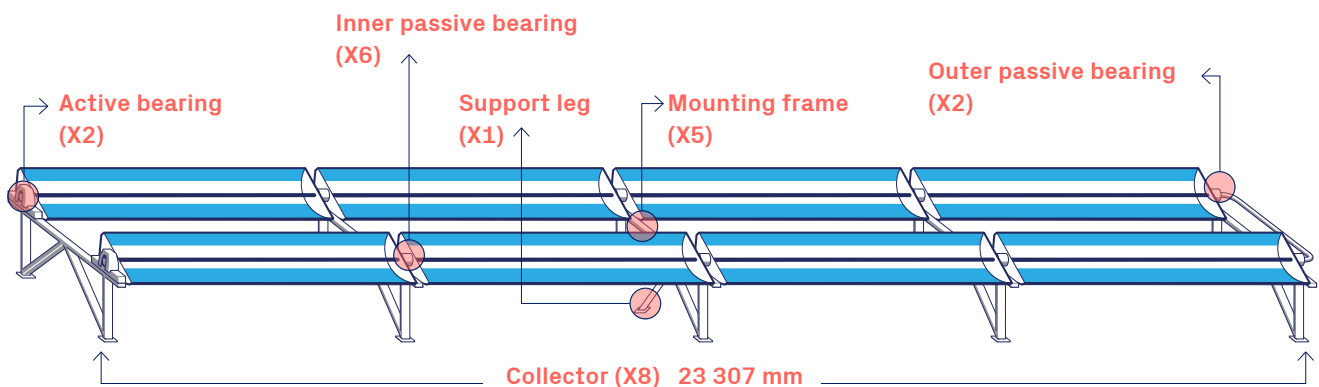
SOLAR COLLECTORS TWIN GROUP

SIMPLE MOUNTING – OPTIMIZED ENERGY OUTPUT

Absolicon Solar Collectors are installed in units of 8 collectors, referred to as a Twin Group.

The twin groups are mounted in two rows of 4 collectors equipped with a unique mounting frames and bearings system developed through years of research and 10 years of operational experience.

The twin group design allows Absolicon technology to achieve a trouble-free mounting and an optimized efficiency for your solar installation.



DESIGN

Standard Layout	2 Rows X 4 Absolicon Solar collectors in series
Group Aperture area	44m ²
Group Dimensions	Length: 23 307 mm Width: 3 224 to 3 664 mm Height 1 166 to 2 366 mm
Weight for the shortest mounting frame	1 530 kg
Weight per installation area	12.5 kg/m ²

COMPONENTS

Active bearing	1 active bearing for each row of 4 collectors
Passive bearings	4 passive bearings support to the active bearing
Mechanical structure	5 mounting frames and one support leg
Structure materials choice	95% steel* (of which 90% Magnelis), 1% stainless steel, 2% plastic, 2% others (actuators, aluminium). * All the steel parts are corrosion protected.

SAFETY & PERSONAL PROTECTION

Maximum rated wind load on Solar Collector $\pm 1\,000\text{ N/m}^2$

Maximum rated snow load on Solar Collector $1\,000\text{ N/m}^2$

Personal protection system

- Low maximum movement speed
- Few exposed moving parts
- Emergency stops on each group
- Low voltage power in field

SUN TRACKING DATA

ActuatorsCollector

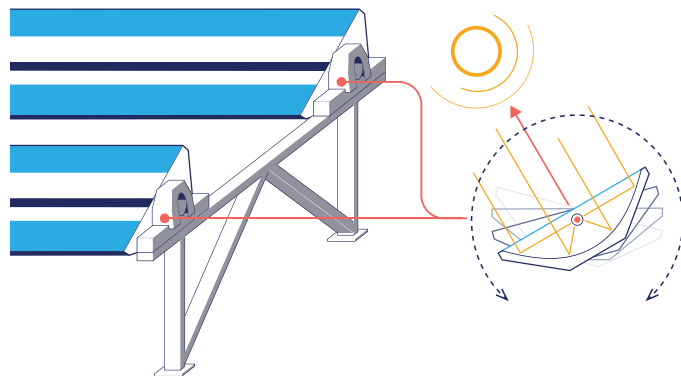
Linear, 24 VDC electric-powered

Sun tracking algorithm

Astronomical

Active Solar Collector protection in case of:

- Overheating
- Power loss
- Cable breaks & Control Unit failures
- Strong winds
- Extreme low temperatures



MODULARITY

Flexible centre to centre distance

2 060 mm - 2 280 mm - 2 500 mm

Adjustable legs height

Can be combined between 800 mm to 2 000 mm, every 200 mm

Different collectors layout

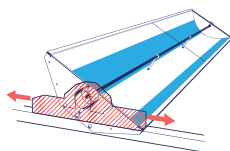
2X4 - 2X3 - 2X2 - 2X1

Predrilled twin connections beam

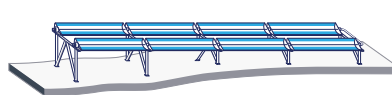
(2) positions active bearing - (2) positions passive bearing -
(3) CC distance

Advantages of modularity

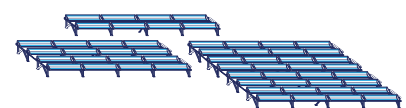
- Higher energy output
- Reduced shading effect
- Adaptability to limited space
- Installable on rough terrains.



FLEXIBLE DESIGN



ADAPTIVE ON ROUGH TERRAIN



CUSTOMIZABLE LAYOUT

WATCH NOW

Click to watch a short film about our field's installation system



LEARN MORE

Click for more info about the Absolicon T160 Solar Collector



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