

Unmanned Solar Panel Cleaning Robot



Specification

The Effect of ResetSnow in Hokkaido, Japan

The Effect of ResetCleaning in Seoul, Korea

Adjustable guide rail module
High-speed rotating brush
Strip brush to remove debris
Battery and wireless communications
Travel motor
Lightweight and corrosion-resistant protective case
Brush motor
Battery automatic charging docking system

Product Technology

Mostly Curved Terrain

Variable Drive Patent Technology
Can be installed on any type of terrain without restrictions on structure shape

Industry's First Autonomous Snow Removal Technology
Snow removal possible up to 300mm per day (Exported to Japan)

Eco-friendly Rainwater Cleaning Technology
Eco-friendly cleaning that does not use chemical cleaning solution removes 99% of contamination

Domestic and International Proven Products
Confirmation of domestic and Japanese verification and cumulative sales of 200 units

Company Overview

CEO
Seongdae Jeong

Establishment Date
2016. 9. 26

Number of Employees
30

Main Business
Robot R&D,
End-of-Life Solar Panel Recycling,
ESG Consulting

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Recycling Center
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Japan office
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Robot R&D
 - Automated Solar Panel Cleaning Robot R&D
 - End-of-Life Solar Panel Recycling Equipment R&D

Recycling
 - Construction and Operation of Recycling Center
 - Collection and Carrying of End-of-Life Solar Panel
 - Valuable Metal Recovery

ESG Consulting
 - Knowledge-based Service
 - Policy Research, Development Plan Establishment
 - Business Feasibility Study

Reset Company is South Korea's representative energy leader that takes the lead in building a sustainable energy production and resource circulation ecosystem by solving the problem of reducing the efficiency of photovoltaic power generation, which is the core of the global carbon-neutral era, and the disposal of waste photovoltaic modules that are discarded at the end of their lifespan. It is an innovative company.

Solar Linear Economy vs **Solar Circular Economy**

Polysilicon - Ingot - Wafer - Solar Cell - Module - System Installation - Operation Management - Resource Circulation

Automated Snow Removal Robot, Automated Cleaning Robot, Inspection Robot, Floating Solar Cleaning, Structural Inspection, End-of-Life Panel Recycling Equipment

www.resetsnow.com

Unmanned Solar Panel Cleaning Robot



Automated Solar Panel Recycling System

Automated Solar Panel Recycling System

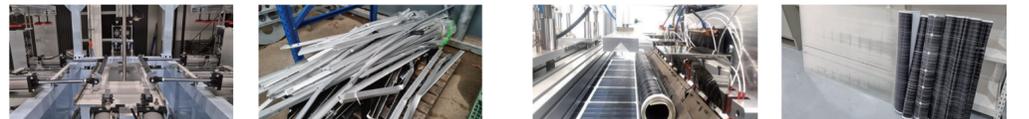


Integrated solar panel frame separation equipment

Solar panel tempered glass separation equipment

Contents	Description
Products	Integrated Solar Panel Frame Separation Equipment
Model Name	RT-FD300H
Manufacturing Company	Resetcompany Co.,Ltd. (Korea)
Required Space (mm)	8,900(W) * 5,300(D) * 4,500(H)
Gross Weight (kg)	9,000 +/-
Operation Methods	Servo Motor, Pneumatic Cylinder, Vacuum Adsorption
Power Usage (kW)	3
Minimum Panel Size (mm)	1,500(W) * 750(D)
Maximum Panel Size (mm)	2,500(W) * 1,300(D)
Panel Frame Thickness (mm)	30 ~ 60
Separation Speed (sec)	~60
Overall Process Speed (sec)	~120
Hydraulic Pressure Specification	0.8Mpa, 1,000L or more

Contents	Description
Products	Solar Panel Tempered Glass Separation Equipment
Model Name	RT-GD200
Manufacturing Company	Resetcompany Co.,Ltd. (Korea)
Required Space (mm)	9,500(W) * 2,100(D) * 2,200(H)
Gross Weight (kg)	4,000 +/-
Operational Temperature (°C)	0 ~ 40
Operation Methods	Pneumatic Cylinder, Hot-Knife
Power Usage (kW)	33kW
Minimum Panel Size (mm)	1,500(W) * 750(D)
Maximum Panel Size (mm)	2,350(W) * 1,300(D)
Separation Speed (sec)	~240
Hydraulic Pressure Specification	0.8Mpa, 1,000L or more



Upcoming Solar Panel Waste Problem

By reducing the amount of discarded solar waste, we create environmental, social, and economic impacts. Power generation companies reduce processing costs by reducing the waste through Reset's panel separation equipment, and recyclers generate additional profits by recycling clean materials. We provide a win-win environment for both power generation companies and recyclers.

Collection of Panel → **Automatic Separation of Frame** → **Separation of Tempered Glass in High-purity** → **Dissolution of Solar Cell** → **Extraction of Nano Silver by Using Pulsed Laser**

Solar Plant → **Waste Panel** → **Demolition and Collection** (Carrying) → **Separation of Panel Materials** (Aluminum, Tempered Glass, Silicon, Back Sheet, Silver) → **Recycler** (Selling of Recycled Materials, Silver Nanoparticle)