

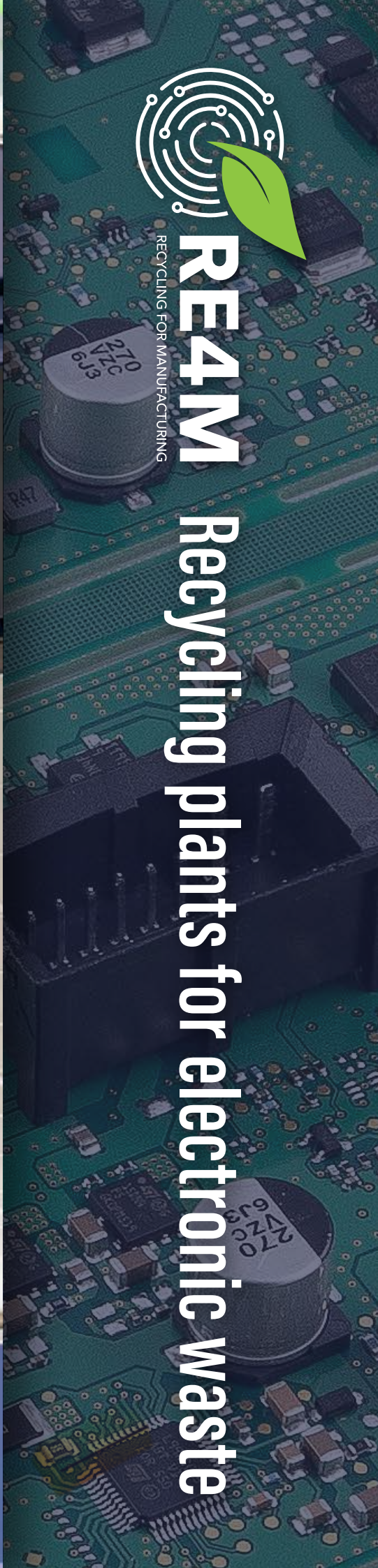


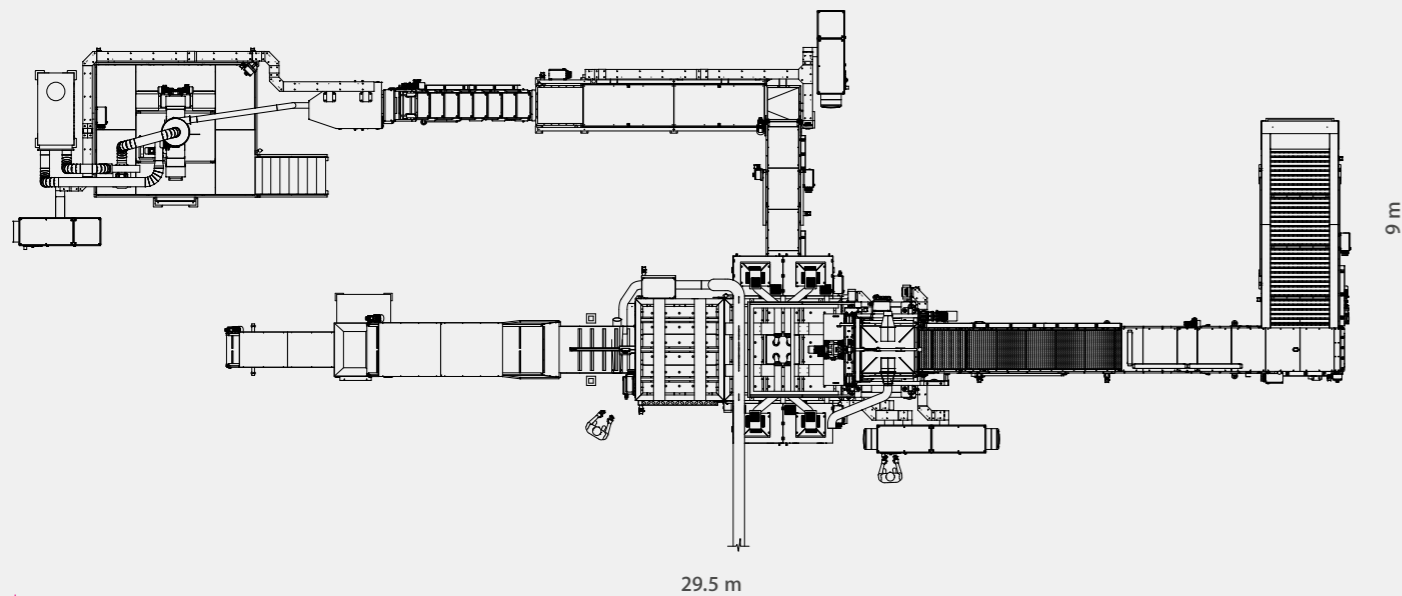
GREEN TECH | OSAI
AUTOMATION 4 RECYCLING | GROUP



RECYCLING FOR MANUFACTURING

RE4M Recycling plants for electronic waste





29.5 m

9 m

	Input PCB type	Mod. 1 - Boards from PC/server and WEEE Cat. R3 and R4
	Boards size	Minimum size: 100 x 60 x 10 mm Maximum size: 600 x 600 x 20 mm
	Operators	2 for monitoring and loading/unloading the system on board the machine
	Capacity	2 tonnes per day (2 shifts of 7 hours)
	Cycle time	15-20 minutes
	Autonomy working time	2 hours (about 500 kg of boards to be processed)
	Yields Extraction (2 ton/day)	Components detached and shredded: 700 kg PCBs processed and shredded: 1.200 kg Process residue: 100 kg
	Output material	Mod. 2 - Mixed components and Bare boards Mod. 3 - Selected components large, medium and small size Mod. 5 - Shredded components (size 1-5 mm) 3 outputs per component type + 1 reject (plastic) Mod. 6 - Bare boards shredders (size 10x15 mm) Mod. 7 - Copper powder and vetronite powder
	Absorption	150 kW - peak power 170 kW
	Dimensions	29.5 x 9 x 5.25 m

RE4M 2000 SUSTAINABLE SOLUTIONS FOR PCB DISMANTLING

Fully automated system for the valorisation of materials contained in the printed circuit boards of end-of-life electronic equipment, using a patented **thermo-mechanical process to remove components from printed circuit boards, followed by selection and separation**, also designed for the direct hydrometallurgical refining of precious metals such as gold, silver, copper and palladium.



PARTNERSHIP WITH SIEMENS

The collaboration between Siemens and Osai GreenTech is of great value to customers in terms of energy saving and optimisation, an important tool for monitoring the energy consumption of the modules that make up the system.

Energy Manager from Siemens offers two main advantages. On one hand, it enhances the value of the processed waste by integrating energy consumption data into the extraction of precious metals, and on the other hand, its continuous consumption monitoring allows for targeted maintenance whenever an anomaly is detected with respect to normal operation.

HIGHLIGHTS

- **Innovative, patented technology** for detaching components from the PCBs
- **Automated solution** for high processing volumes
- **Modular and scalable solution** depending on requirements and volumes
- Sustainable process with **low environmental impact** and reduced energy consumption
- **Process monitoring and traceability** through advanced digital technology
- **Energy consumption monitoring** through digital technology
- Reliable solution due to **sturdy design with high safety standards**

1		PCBs
2		Bare boards (min. 60 x 10 mm max. 600 x 600 mm)
3		Detached components MIXED
4		Selected components LARGE size
4		Selected components MEDIUM size
4		Selected components SMALL size
5		Components Shredded (1-5 mm)
6		Bare Boards Shredders (10 x 15 mm)
7		Copper powder



Osai GreenTech: the future, today.



**30 YEARS OF INDUSTRIAL AUTOMATION
AT THE SERVICE OF URBAN MINING**

We are the technology partner, solution provider and system integrator of major national and international players engaged in the ecological transition and circular economy. We promote technological innovation and advanced industrial automation to the world of recycling, bringing efficiency, speed and reliability.

We provide the market with advanced robotics solutions for specific applications through the use of the most innovative technologies such as artificial intelligence for WEEE treatment processes. With Osai GreenTech automation becomes the vehicle for a new 'recycling era'.

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