



CONVEYOR INDUSTRIES

WASTE SORTING & RECYCLING SYSTEMS

Recycling plant equipment you can rely on.

Conveyor Industries (CIL) has designed, manufactured, and installed conveying equipment for the bulk material handling industry throughout Australasia for over 25 years.

As the Australasian representatives for Benli Recycling Group, we supply their range of waste sorting and recycling equipment to the New Zealand and Australian markets.

Your Australasian Supplier for Waste Sorting Infrastructure

Trusted for over 25 years, Conveyor Industries (CIL) is New Zealand-owned and operated, specialising in the design, manufacture, and installation of conveying equipment, silos, bulk storage systems, and turnkey solutions for the bulk materials handling industry across New Zealand and Australia. We're proud to partner with Benli to bring best-in-class waste sorting, recycling, and machinery solutions to the Australasian market. We deliver not only premium equipment, but also local support, technical know-how, and service.

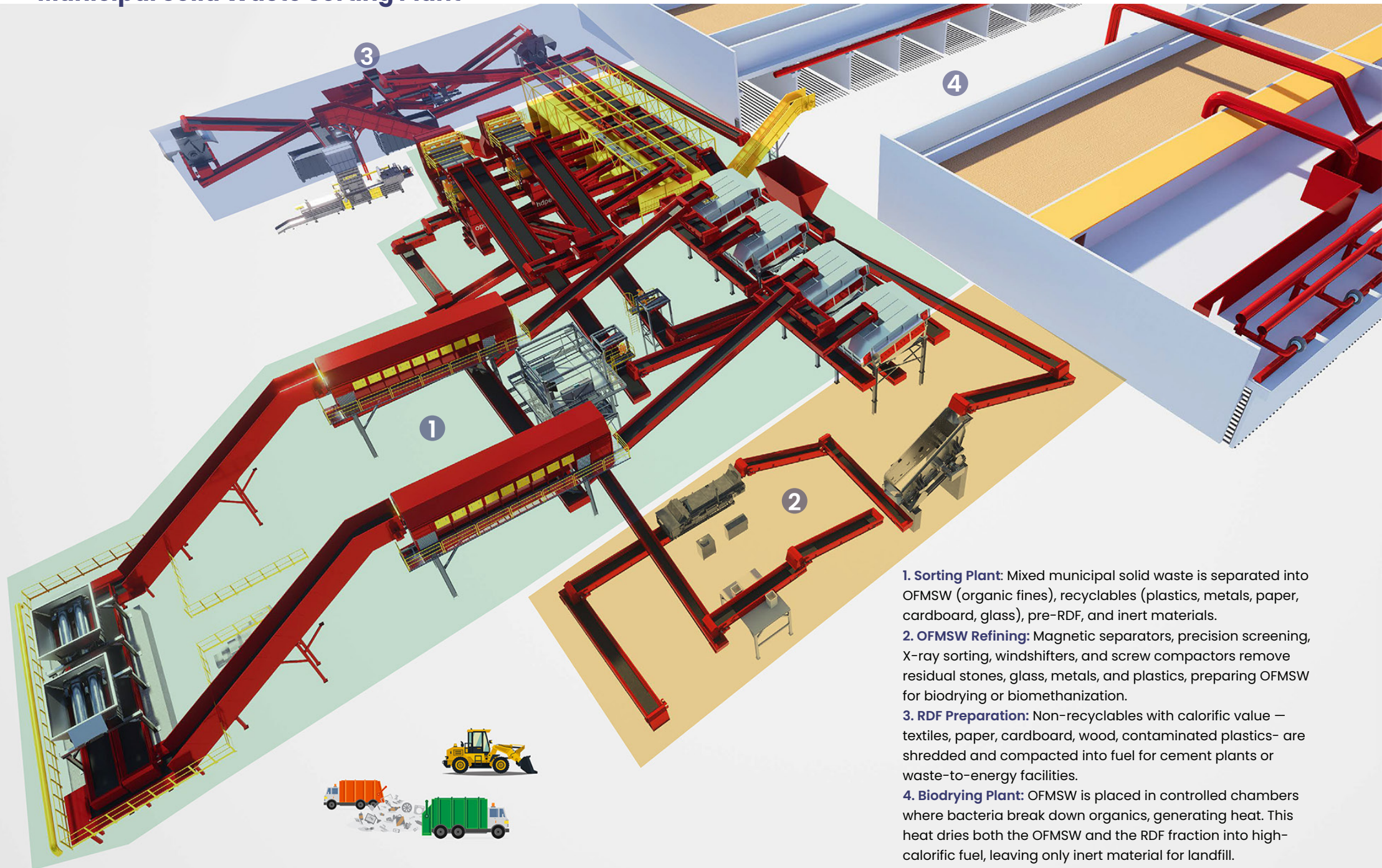


Benli Recycling Technologies

Benli designs, manufactures, and commissions turn-key automatic sorting plants for industrial and domestic packaging waste. With over 55 years of solid waste management experience and six production centres across two countries, Benli provides integrated solutions covering municipal solid waste, PET and mixed plastic waste, lightweight packaging waste, and RDF/SRF preparation, backed by process guarantees, performance guarantees, and long-term operational supervision.



Municipal Solid Waste Sorting Plant



1. Sorting Plant: Mixed municipal solid waste is separated into OFMSW (organic fines), recyclables (plastics, metals, paper, cardboard, glass), pre-RDF, and inert materials.

2. OFMSW Refining: Magnetic separators, precision screening, X-ray sorting, windshifters, and screw compactors remove residual stones, glass, metals, and plastics, preparing OFMSW for biodrying or biomethanization.

3. RDF Preparation: Non-recyclables with calorific value — textiles, paper, cardboard, wood, contaminated plastics— are shredded and compacted into fuel for cement plants or waste-to-energy facilities.

4. Biodrying Plant: OFMSW is placed in controlled chambers where bacteria break down organics, generating heat. This heat dries both the OFMSW and the RDF fraction into high-calorific fuel, leaving only inert material for landfill.

Packaging Waste Sorting Plant



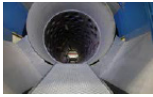
1. Automatic Control (Scada) Room



2. Tipping Floor



3. Bag Opening Dosing



4. Trommel Screen



5. and 6. Over Band Magnet



7. Ballistic Separator



8. Optical Sorter 2D Fractions (PE Films)



9. Optical Sorter 3D Fractions (PE-PP Plastics)



10. Optical Sorter 3D Fractions (PET Plastics)



11. EDDY Current Separator



12. Vacuum Unit



13. Automatic Bunker System



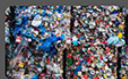
14. Horizontal Bale Press



Mixed Plastic Sorting



1. CONTROL TOWER
Automated SCADA control with manual override – full visibility, maximum uptime.



2. BALE RECEPTION AREA
Mixed plastic bales are sorted by type.



3. BALE OPENER
The bale opener decompresses bales and feeds plastics into the plant.



4. BALLISTIC SEPARATOR
Mixed plastics are split into 3D/heavy, 2D/light, and fines, then sorted into bunkers after quality control.



5. FE AND NF METAL SEPARATOR
Drum magnets and eddy current separators remove metals from the 3D fraction for recycling.



6. OPTICAL SEPARATOR 1
Infrared optical separators sort by type and colour, ejecting PET for purification and PP to bunker.



7. OPTICAL SEPARATOR 2
HDPE is sent on for colour sorting; mixed plastics return upstream for purification.



8. OPTICAL SEPARATOR 3
PET and HDPE are colour-sorted and bunkered after QC.



9. QUALITY CONTROL ROBOT
All robots perform final QC and can learn new waste types.



10. QUALITY CONTROL CABINET
Wastes sorted in the plant go through a final control at the quality control cabin.

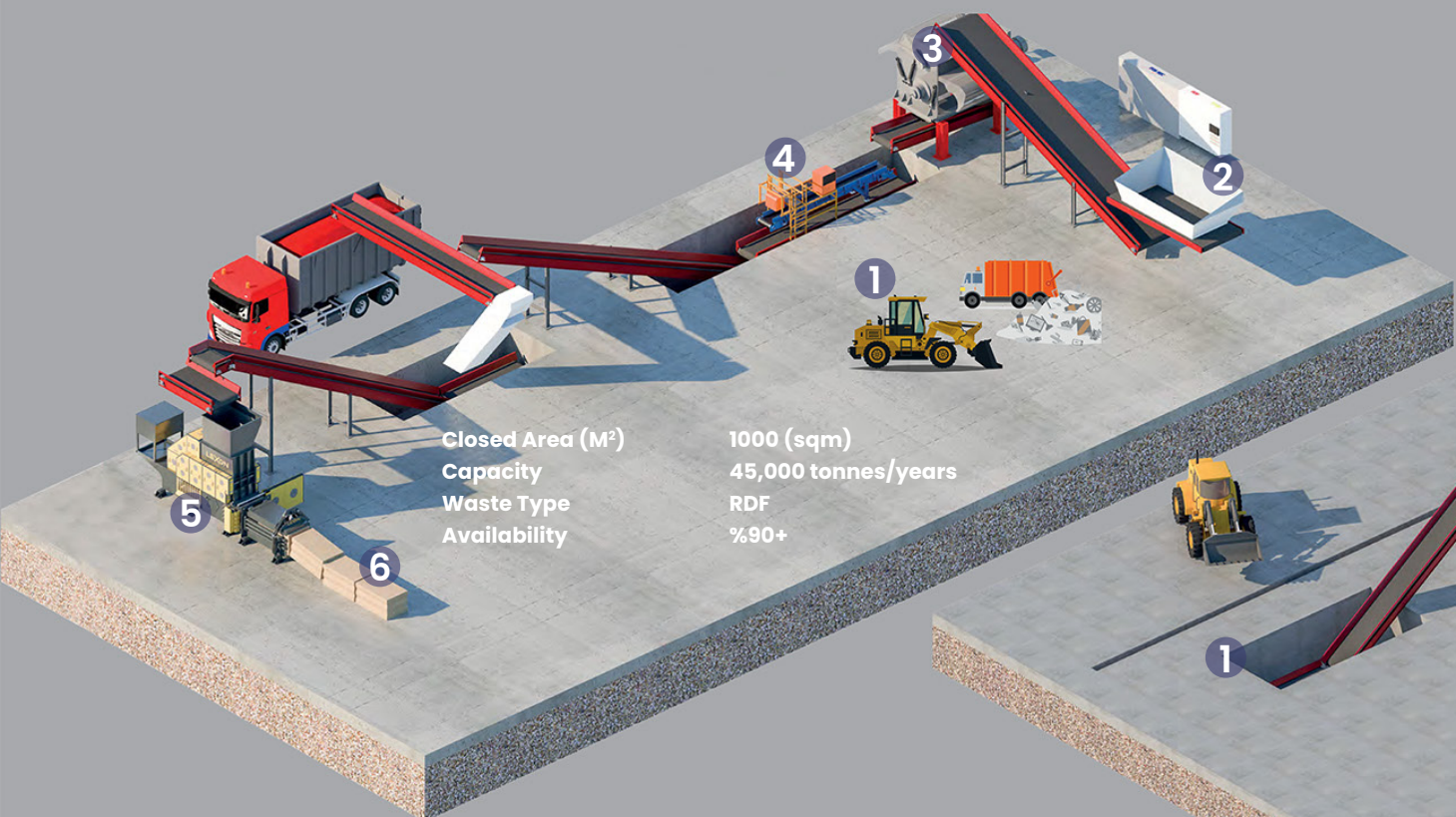


11. AUTOMATIC BUNKERS
Each kind of waste is stored in the relevant bunker and automatically sent to the baler press machine when needed.

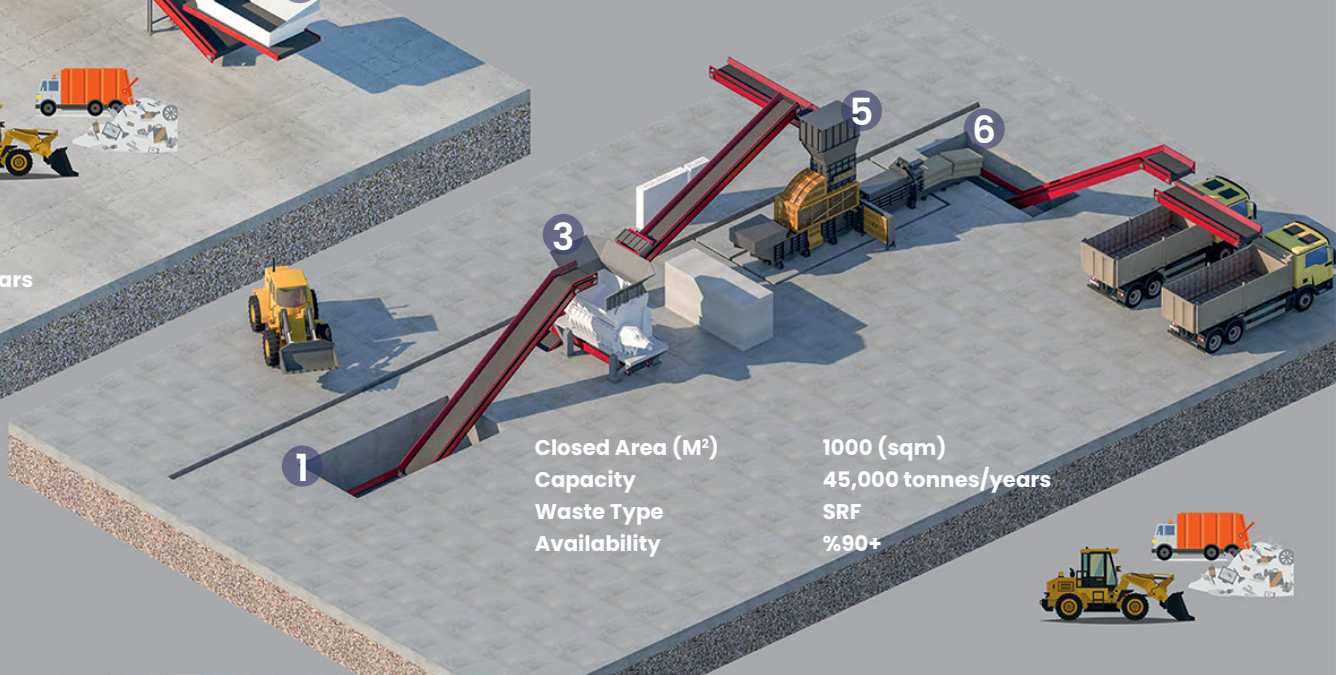


12. HORIZONTAL BALER PRESS
Sorted plastics are fed from the bunkers into a horizontal bale press, then moved to storage for the next recycling stage.

RDF Plant (Refuse-Derived Fuel)



SRF Plant (Solid Refuse Fuel)



1. WASTE RECEPTION AREA
RDF/SRF feedstock and industrial waste with calorific value are tipped into the waste reception area.



2. DOSING BUNKER
The dosing bunker feeds the shredder at optimum capacity for the required fuel size.



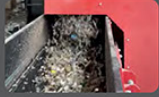
3. SHREDDER
Shredders resize irregular RDF/SRF feedstock to meet end-user specifications, using single or double-shaft units as required.



4. RDF/SRF ONLINE ANALYSIS MODULE
Real-time monitoring of calorific value, moisture, and chlorine produces "labelled" fuel for optimised cement and incineration recipes.



5. BALER PRESS
Baler presses serve two purposes at RDF/SRF plants: extracting excess moisture and forming bales for storage and efficient transport.



6. RDF-SRF
Refuse derived fuel / Solid recovered fuel



CONVEYOR INDUSTRIES



**Ready to talk about
your next project?**