

# COMPLETE RECYCLING SYSTEMS



Delivering superior waste management equipment

Issue June 2025

INSIDE WasteExpo 2025 | Automated Machinery vs. Manual Picking

## 5 Signs Your Waste Sorting System Is Holding You Back

If you're running a waste processing plant, your system is your business. But even solid setups can become bottlenecks over time. Whether you're working with C&D, C&I, MDR, gypsum, or WEEE, here are five clear signs it's time to consider an upgrade — and how CRS NI can help you get more out of every tonne.

### 1 Throughput Is Falling Behind Demand

If your plant struggles to keep up with daily volumes — or you've had to turn down materials — your system is no longer fit for purpose. Aging or undersized screeners and conveyors can slow down operations and create costly backlogs.



CRS NI designs high-throughput systems built to handle modern material volumes without compromising on quality or recovery rates.

### 2 You're Losing Recyclables to Residual Waste

If valuable recyclables are ending up in your waste stream, it's not just bad for the environment — it's bad for your margins. Poor separation, inconsistent material flow, or outdated machinery could be to blame.



Our systems include robust air separation, fines clean-up, and custom-built automated systems that improve recovery efficiency across a range of waste types.

### 3 Maintenance Downtime Is Costing You

Breakdowns, excessive wear, or clunky components that require constant attention all add up. If you're frequently stopping for repairs or parts, it's time to reassess.



CRS NI equipment is engineered for durability and supported with servicing options that reduce downtime and maximise ROI.

## 4 You're Expanding, but Your System Isn't

Taking on new material streams like gypsum or WEEE? Or planning to boost capacity? If your current setup wasn't designed with scalability in mind, you'll hit limitations fast.



We build modular systems that can grow with your business — with options to add screening, separation, or sorting capacity as needed.

## 5 Your Site Layout Wastes Space and Energy

Inefficient layouts don't just slow operations — they increase energy use, create safety issues, and reduce your facility's overall effectiveness.



Our design team helps optimise site layout and system flow, ensuring every piece of kit works together seamlessly.

## Need a System That Works Harder for You?

CRS NI works closely with plant operators to design, build and install recycling systems that deliver long-term results. If you're seeing any of the signs above — or just want to explore what's possible — we'd love to talk.

[Get in touch](#) to discuss your upgrade options.







## CRS NI at WasteExpo 2025 – Connecting Globally, Delivering Locally

CRS NI was proud to represent Northern Ireland at WasteExpo 2025, the leading event for the waste, recycling and organics industry, held May 5–8 at the Las Vegas Convention Center.

Over 14,000 professionals from 100+ countries attended, making it a powerful platform for showcasing innovation, building new partnerships, and staying ahead of global trends in recycling technology.

We were part of the **Invest Northern Ireland** stand again this year — a great opportunity to share how CRS NI is delivering robust, efficient systems for C&D, C&I, MDR, Gypsum and WEE applications.

*“It’s always valuable to be part of these conversations on a global level,” said Padraic Conlon, Sales Director at CRS NI. “It’s clear there’s strong demand for smarter, more adaptable recycling systems — and that’s exactly what we build.”*

Thanks to everyone who visited — we look forward to building on the momentum from Las Vegas in the months ahead.





## Case Study Spotlight

# How VC Cooke Boosted Recycling Efficiency with CRS NI

Northern Ireland recycling specialist VC Cooke faced a growing challenge: processing increasing volumes of Construction & Demolition (C&D) waste efficiently while maintaining high recovery rates and reducing manual labor.

To meet this, VC Cooke partnered with CRS NI to design and install a custom-built, static recycling plant at their Newry facility — engineered specifically to handle up to 60 tonnes per hour of mixed C&D waste.

### Key system features include:

- Heavy-duty **belt feeder** and conveyors ensuring smooth material flow
- A **double deck combi screen** to effectively separate fines and recyclables
- Three **air separation units** to remove light materials and contaminants
- An **eddy current** to extract non-ferrous metals and magnets for ferrous metals

This tailored solution transformed VC Cooke's operations by significantly increasing throughput and improving the quality of recovered materials — leading to cleaner product streams and higher returns.

By reducing manual handling and operational bottlenecks, VC Cooke now enjoys a safer, more productive site with the flexibility to adapt to future waste processing demands.

This project is a clear example of how CRS NI's expert engineering and bespoke system design can help recycling operators maximise efficiency, recovery, and profitability.



Read the full case study here >  
**VC Cooke Improves Recycling Efficiency with CRS NI**



# CRS NI SHOWCASED SMART WASTE SOLUTIONS AT CANADA'S LEADING INDUSTRY EVENT

**C**RS NI was proud to exhibit at the W2RO Canadian Waste to Resource Conference 2025, held on June 17–18 at the Niagara Falls Convention Centre.

Representing Northern Ireland as part of the Invest NI delegation, our team connected with global industry leaders and decision-makers to explore opportunities in modern waste recovery. The two-day event brought together over 400 delegates and 60 expert speakers, highlighting innovations in C&D, C&I, MDR, WEEE, and gypsum recycling.

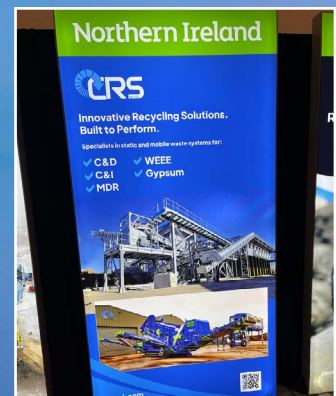
From AI-driven sorting systems to scalable modular plants, we shared how CRS NI supports facilities looking to increase efficiency, reduce labour dependency, and future-proof their operations.

> **Location:** Niagara Falls Convention Centre

> **Date:** June 17–18, 2025

> **Booth:** Invest Northern Ireland Pavilion

A big thank you to everyone who visited our stand — we're excited about the conversations started and the opportunities ahead as we continue expanding our presence in North America.



# Automated Machinery vs. Manual Picking: What's Right for Your Recycling Operation?

Every recycling plant faces the same pressure: improve recovery rates, reduce costs, and keep operators safe. But when it comes to sorting materials, is it better to invest in automated machinery — or stick with manual picking?



Here's a closer look at the key differences, and how to choose the right solution for your site.

## Automated Machinery: Efficient, Reliable & Consistent

**Automated machinery** designed to replace people in the picking station includes eddy current separators, optical sorters, and AI-powered robots. These systems are widely used in modern waste processing plants for their ability to work continuously with high precision.

### Key Benefits:

- **Efficient:** Increase throughput with minimal downtime
- **Reliable:** Run consistently with less maintenance
- **Consistent:** Deliver the same picking quality shift after shift
- Can operate all day and night without fatigue
- **Programmable:** Easily adjust to different materials or waste streams
- Big investment, but fast ROI due to performance and labour savings

At CRS NI, we can incorporate these technologies into tailored systems to meet your specific recovery and plant goals.

## Manual Picking: Control, Accuracy & Flexibility

While slower, manual picking allows for precision — especially for complex materials or when identifying contaminants that machines might miss. It also offers more flexibility for small-scale operations or facilities dealing with varied waste streams.

### Key Benefits:

- Accurate identification of tricky or unusual materials
- More affordable upfront investment
- Ideal for low-volume or niche applications
- Easy to reconfigure or retrain staff as needs change

CRS NI builds ergonomic, enclosed picking stations designed for safety, comfort, and operator efficiency.

## Make the Right Choice for Your Plant

Every facility has different goals, layouts, and material streams — so it's important to choose a solution that works for **your operation**. While automated systems offer clear advantages in speed, safety, and scalability, manual picking may still suit smaller plants or specific sorting needs.

The key is to weigh up:

- Your desired throughput
- Labour availability and safety requirements
- Types of materials handled
- Long-term operational costs and goals

At CRS NI, we help clients assess their current systems and recommend sorting solutions that align with their performance and profitability targets.

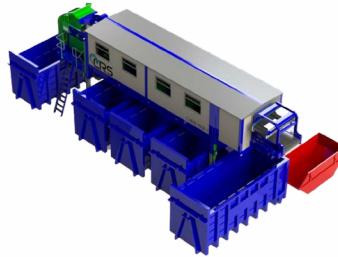
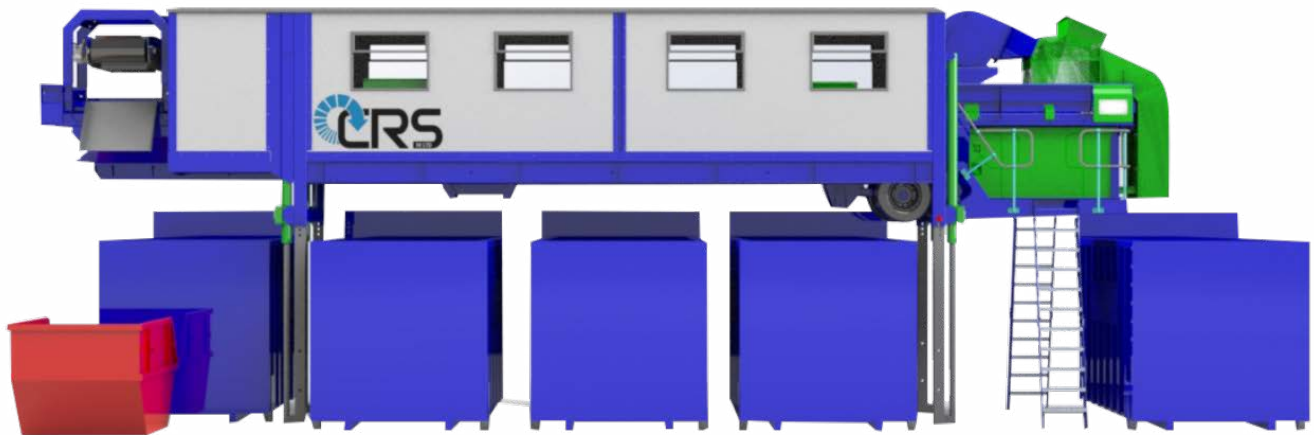
If you're unsure what setup is right for your plant, **talk to our team** — we're here to help you make a confident, informed decision.



Product Spotlight:

# CRS-021 SM Picking Station

## Engineered for Efficiency, Built for Flexibility



**T**he CRS-021 SM Picking Station is a compact, high-throughput sorting solution ideal for demanding waste recovery environments — from busy C&D sites to confined urban operations.

With its heavy-duty feed hopper, dual power options, and up to 8 recyclable output streams, this self-erecting station is designed for fast deployment, safe operation, and long-term productivity.

### Key Benefits:

- **Quick to Deploy:** Hydraulic jacking legs and low-loader mobility simplify transport and setup.
- **Operator-Focused Design:** Enclosed picking cabin includes lighting, heating, electrics, and touchscreen controls for safer, more comfortable working conditions.
- **Efficient Sorting:** Includes variable speed control, optional blowers, twin pole magnet, and 1200mm belt for handling a wide range of materials.
- **Dual Power Flexibility:** Runs on diesel-electric or mains power, with built-in genset.

### Ideal Applications:

- **C&D Waste Recovery:** Separate metals, plastics, wood, and aggregates.
- **Industrial & MRF Sites:** Grade and recover recyclables with precision.
- **Urban & Temporary Sites:** Compact footprint and fast setup make it ideal for flexible operations.

The CRS-021 SM delivers both performance and portability — making it a go-to solution for operators who need reliability and throughput without compromising flexibility.



+44 (0) 28 8076 0496  
[sales@crsni.com](mailto:sales@crsni.com)  
[www.crsni.com](http://www.crsni.com)

Office Address:  
 136 Termon Road, Carrickmore,  
 County Tyrone, BT79 9HW, N. Ireland