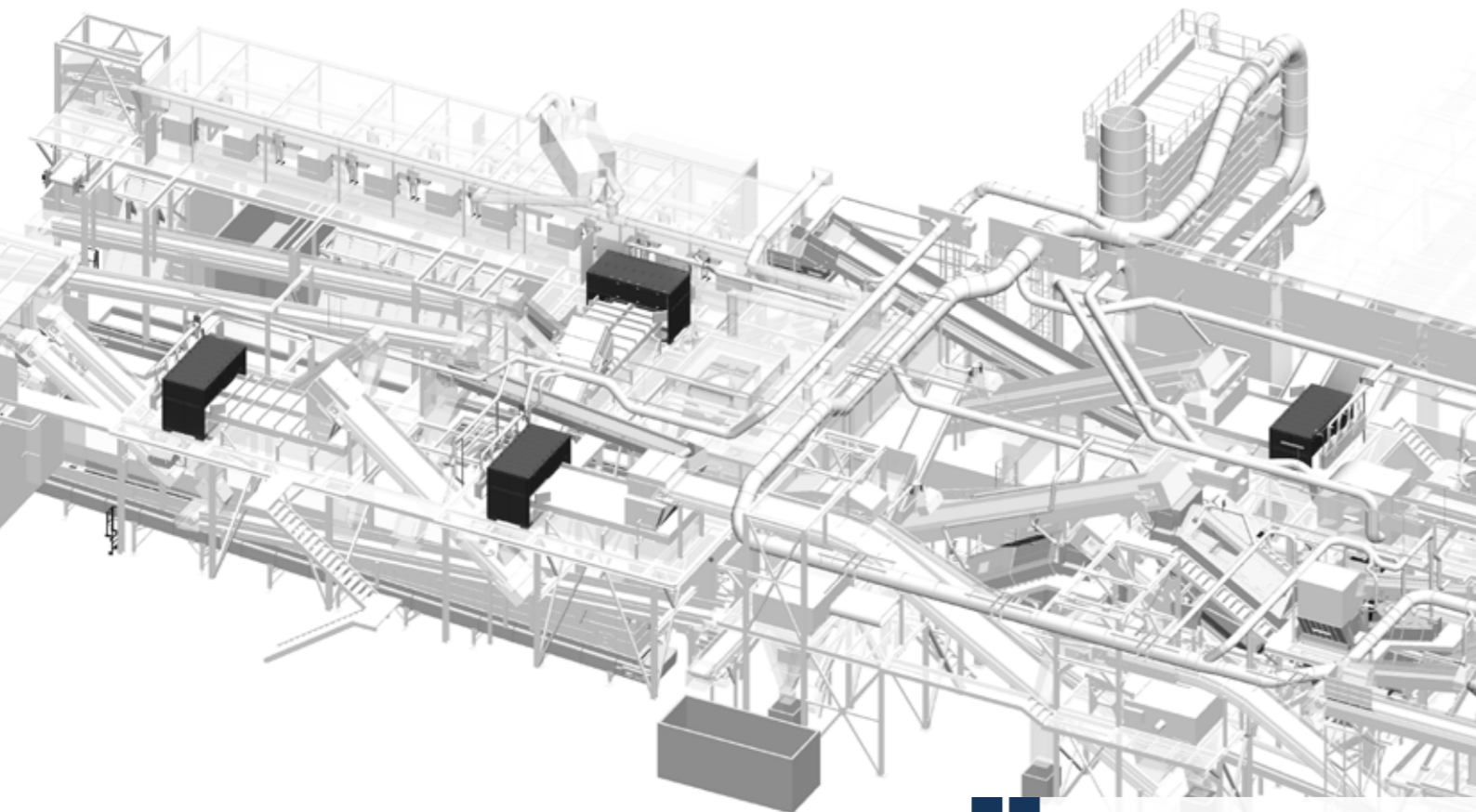




REDWAVE NIR-MODULAR
PLASTICS SORTING
Modular Technology instead of
a complete system

RECYCLING



” Rethinking Integration – Precisely Engineered

REDWAVE NIR-MODULAR

Modular Technology instead of a complete system

WHY INVEST IN EVERYTHING

when you only need the core?

Not every application requires a complete sorting system. In many cases, the real added value lies in the sorting technology itself.

REDWAVE NIR Modular delivers exactly that: high-precision sensor technology combined with advanced valve systems – perfectly matched and flexibly integrated.



” Your plant – your brand: No third-party branding. Seamless integration into your design. Fully customisable.



CONCEPT & HIGHLIGHTS

More sorting performance. Streamlined system.

- » Industrial-grade NIR technology
- » Optional: camera-based and metal detection systems
- » 2-way sorting – maximum performance with minimal complexity
- » Short return on investment

REDWAVE NIR Modular is designed for companies that take control of their processes and deliberately move away from turnkey solutions. The unit integrates high-precision sensor and valve technology into both existing and new installations – exactly where sorting performance is required.

Who is this technology designed for?

For users who go beyond standard solutions and demand full control over their systems:

- » **Plant manufacturers and system integrators** developing proprietary solutions and enhancing them with precision sorting technology (conveyor belt and discharge unit optional)
- » **Technically experienced operators** with existing infrastructure looking to upgrade or expand efficiently
- » **Companies with specific requirements** where complete systems are too rigid or oversized
- » **Scalable projects** where individual components are integrated and optimised step by step



Technical Specifications

- » Nominal width: 1000 – 2800 mm
- » Valve pitch: 25 mm
- » Sensor systems: NIR hyperspectral imaging, RGB prism line camera, metal detector
- » Machine configuration: 2-way system
- » Nominal power consumption: 2.5 – 6 kW including control cabinet and operator terminal
- » Compressed air supply: 8 bar
- » Typical applications: packaging waste, plastics, paper and cardboard, household waste, refuse-derived fuels (RDF)

Your Benefits

- » **Maximum flexibility**
Full freedom in conveyor design, discharge configuration and plant layout
- » **Targeted investment**
Focus on the key performance drivers of sorting
- » **Seamless integration**
Easy incorporation into existing and new plant concepts
- » **Rapid implementation**
Reduced project timelines thanks to minimal integration effort
- » **Future-proof scalability**
Modular expansion tailored to your requirements
- » **Optimised system performance**
Sensor and valve technology perfectly calibrated for maximum precision

BT-Systems is an international mechanical engineering and automation company and offers system integrations for innovative, cost-efficient industrial solutions. From planning and commissioning through to service, we operate worldwide in the following areas:

AUTOMATION

CONVEYOR

INTRALOGISTICS

QUALITY

RECYCLING