

FOIL / TRIM WASTE / CP-6000

Enhancing Trim Handling and Recycling Efficiency for Global Label and Packaging Producer

CCL Label Dornbirn, a leading packaging solutions provider in Austria, faced challenges in managing foil trim waste from their slitting machines. With eight machines generating significant trim, they needed a more efficient and sustainable way to handle waste, reduce dust, and improve energy efficiency. Their existing system had served them well for years, but growing sustainability goals and operational demands called for an advanced solution.

THE CHALLENGE

CCL Label Dornbirn, a global leader in label and packaging solutions, faced a critical challenge in managing foil trim waste from their slitting machines. With eight machines producing significant amounts of trim, the company required an efficient and sustainable trim-handling solution that would enable material separation for recycling while maintaining a clean production environment.

The existing system in the old plant had served them for many years, but with evolving sustainability goals and efficiency demands, they needed an advanced solution to optimize trim handling, reduce waste, and improve air quality in the production area. The new system needed to integrate cutting, conveying, de-dusting, and trim handling to maximize operational efficiency while minimizing environmental impact.

- **Material processed:** Flexible packaging material foil with a thickness between 25–90 μm
- **Cutting speeds:** Up to 700 m/min
- **System functions required:** Cutting, conveying, de-dusting, trim handling
- **Challenges:** Material separation, waste reduction, air quality improvement



“The Matho system has significantly improved our trim handling efficiency. The ability to separate materials for recycling while maintaining a cleaner production environment has exceeded our expectations.”

— Bernd Schmidle, CCL Label Dornbirn

THE SOLUTION

Matho provided a fully integrated pneumatic conveying and trim-handling system tailored to CCL Label Dornbirn's needs. The solution consists of:

Primary Equipment:

- GR-160 cutters to process foil trim efficiently
- KU10000 separators for material separation
- Filter systems and a fan for air cleaning and return to the production area

The new system efficiently processes trim from eight slitting machines, transporting it via an air-powered system into a container compactor. Key features include:

- **Material Separation:** Operators can direct materials into two recycling streams.
- **Air Management:** Trim passes through a fan into the Matho KU10000 separator and filtration system, which removes dust before returning clean air to production.
- **Energy Optimization:** Electro-pneumatic flaps and frequency converters adjust fan speed based on real-time demand, reducing energy use.

THE RESULTS

Since the installation of the Matho system, CCL Label Dornbirn has achieved significant operational and environmental improvements:

- **Improved Recycling** – Effective material separation maximizes recyclable trim waste.
- **Cleaner Production** – Filtered air reduces dust, ensuring a healthier workspace.
- **Energy Efficiency** – Frequency converters and electro-pneumatic flaps optimize energy use.
- **Lower Maintenance** – Advanced filtration minimizes wear, reducing downtime and costs.
- **Sustainable Waste Handling** – Enhanced separation supports greener manufacturing practices.

