# MK Group Recycling & Recovery Solutions



Reliable and efficient high quality products for maximum productivity















### **Yorwaste**

Yorwaste handle over a million tonnes of waste each year, recycle 903,934 tonnes of material and have over 10MW of green electricity of electricity generating capacity.

M&K were awarded the contract to design, manufacture, commission & support Yorwaste's new Commercial & Industrial Waste (C&I), Municipal Solid Waste (MSW) & Construction & Demolition (C&D) Recycling Operation in Harewood after being nominated Yorwaste's preferred supplier through Yorwaste's comprehensive & rigorous tendering process.

Some of the tendering process measurement criteria included;

- process knowledge,
- system design,
- service & maintenance contracts,
- health & safety considerations
- & user training capabilities.

As part of the tendering process Yorwaste visited several reference sites and visited M&K's new technology centre in Dungannon.

#### **Application**

- Commercial & Industrial Waste (C&I)
- Municipal Solid Waste (MSW)
- Construction & Demolition Waste (C&D)

#### Yorwaste's Problem(s)

- poor reliability of previous system
- poor throughput of previous system
- need to increase efficiencies and flow of materials
- boost the output of saleable reclaimed materials

M&K designed, manufactured, installed, commissioned & support a recycling system that combines a number of Separating, Recovery & Shredding modules namely;

- FBS1200 Feeder c/w variable speed
- STS1225 Trommel c/w fines collection system + fe recovery
- 7 bay recovery system c/w Enviro Cabin & Air Purification System
- Shredder
- STS1225 Trommel
- MK Electrical Panel
- + a number of link conveyors.

Due to the high quality of the M&K system, Yorwaste were able to maximise the utilisation of their new building by positioning the recovery system outside, therefore maximising the floor space for feedstock & recovered material storage.

#### **Customer Benefits**

- greater throughput
- improved recycling rates
- reduced landfill costs
- reduced operating costs
- increased revenues
- increased profitability



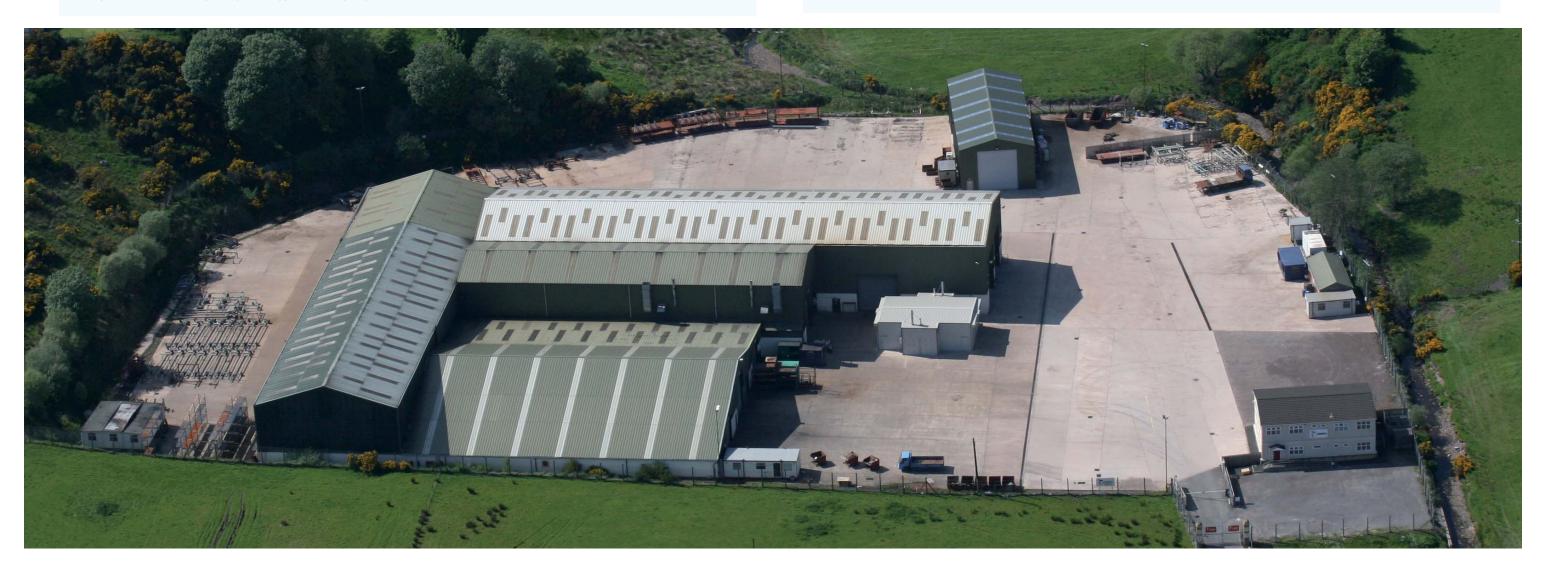
## M&K Group

M&K have been pioneers in the design, manufacture, installation and support of innovative material handling and resource recovery solutions for over 30 years. Our innovative turnkey solutions & life cycle services offering's represent the lowest sustainable cost per ton solutions available on the market.

Our key markets are recycling, energy & quarrying

# Long term commitment to provide our customers with sustainable value

Substantial investments in Engineering, Manufacturing & Customer Service support our commitment to provide our customers with high quality, reliable & efficient products and service.



Globally M&K products & systems are synonymous with excellent reliability, service, parts availability, long life and excellent value.

M&K offer turnkey systems for MSW, C&D, C&I, Waste to Energy, Co Mingled & Organics Processing Solutions.

M&K supply Shredders, MRFs, Screens, Ballistic Separators, Trommels, Magnets, Eddy Currents, Air Density Separators, Conveyors, Feeders & Optical Sorting equipment.

#### Infrastructure

Site: 3 Hectares (7.5 Acres) Industrial Buildings: 5500 sq Metres (60000 Sq. Feet)

Spare Parts: 325 Sq Metres (3500 Square Feet)

Office Accommodation: 325 Sq Metres (3500 Square Feet)

#### Facilities (Industrial)

- Laser Cutting
- Fabrication
- Surface Treatment
- Subassembly
- Final Assembly
- Research & Development
- Testing/Quality Control
- Warehousing
- Global Distribution Centre

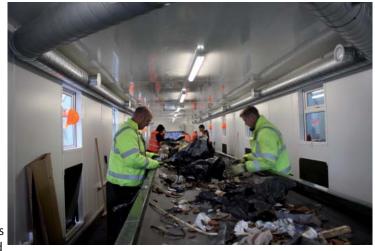
#### **Facilities (Non Industrial)**

- Mechanical Engineering
- Electrical Engineering
- Hydraulic Engineering
- Technical Support
- Procurement
- Production Control
- Quality Control
- Project Management

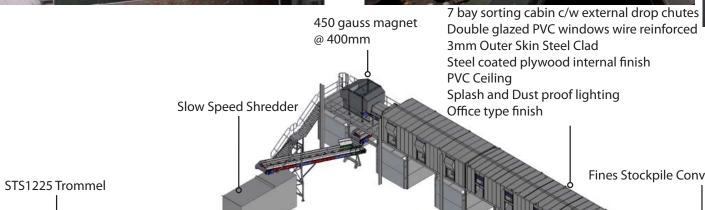






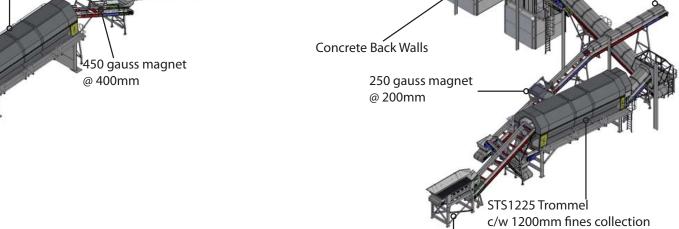


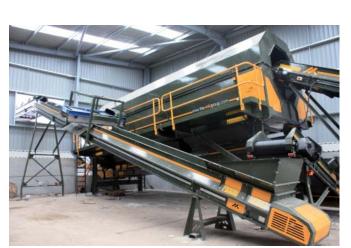












1200mm Belt Feeder c/w variable speed









**FBS1200 Feeder Module** 



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## **STS1225 Trommel Module**



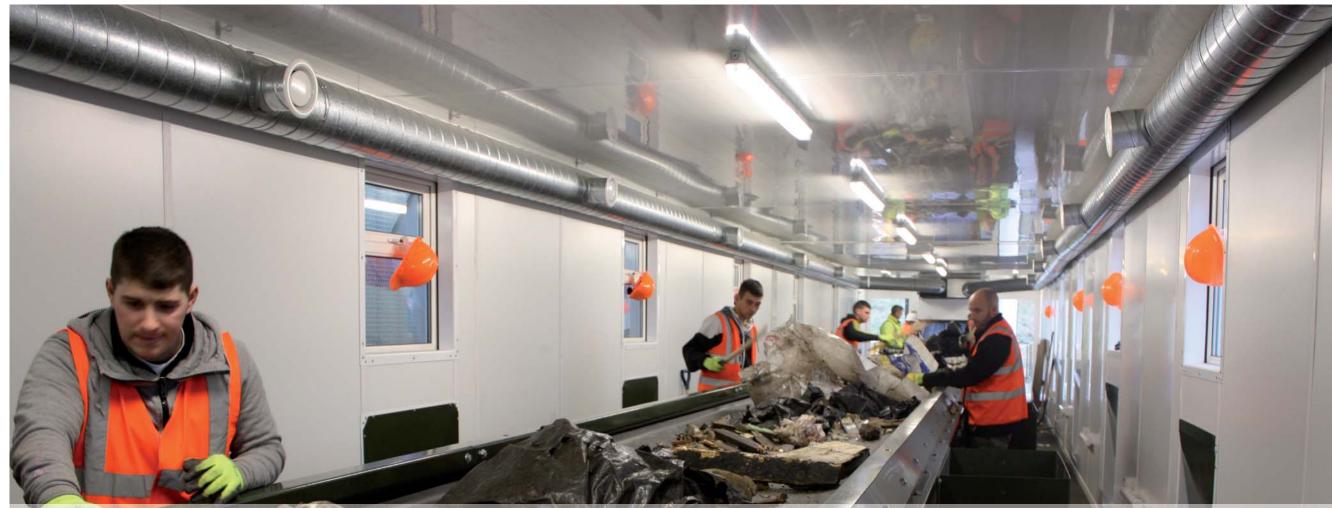
**Features** 

- Drum Size 11520mm x 3200mm
- Screening Size 8000mm x 2500mm
- Screening Area 62.8m2
- 4 x Nord 5.5 Kw electric drives (4 wheel drive)
- Dust encapsulation
- Removable screen plates (no need to change the entire drum to change mesh configuration)
- Removable bag opener knives
- Removable material lifters
- Automatic greasing
- Global aftermarket support, with standard stock parts to ensure minimum loss of production

- utilisation of quality, long-life components maximises system uptime &
  - reduces downtime (unit can operate on only 1 drive)
    reduced inventory holding via parts standardisation and compatibility (all mesh plates the same size)
- Environmentally friendly: low energy consumption and dust & noise control minimises the impact on the environment and improves working conditions.
- Proven technology developed over 30 years.

## **Recovery Cabin Module**

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## **Features**

- 3mm outer skin steel clad
- office type internal finish
- double glazed PVC windows
- anti vandal proof guards on windows
- heaters and electric sockets through out
- 25mm insulation to provide heat & noise insulation.
- external drop chutes
- Air Purification System
- picking conveyors designed so that the belt height and width do not require excessive reaching or bending.
- variable speed control picking conveyor to avoid undue operator stress & improve recovery rates /throughput.
- 1 x Nord 7.5 Kw electric drive
- Automatic greasing
- Global aftermarket support, with standard stock parts to ensure minimum loss of production
- welfare facilities available as an option

## Benefits

- safe, comfortable & productive working environment
- High quality external finish extends life expectancy and maximises residual value.
- external drop chutes maximise recycling capacity, facilitate flexibility & reduce ROI.
- maximum productivity
- Transfer points do not require operators to bend or twist excessively when taking items from the belt and placing it in the transfer chute.
- Proven technology developed over 30 years.

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## **Shredding Module**



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Process more material, minimise downtime, build profitability

