



GulfCarib

PICKING LINES

Safe and efficient manual sorting

Manual waste sorting can be highly effective in gathering recyclables, as well as removing unwanted materials from a waste stream. Whether or not a picking line is required is a function of the waste composition and the targeted separation.

The picking line can be fed by a bag opener and a drum feeder, ensuring optimum conditions for visual inspection and material selection. Picking lines may be located before or after a trommel screen, subject to the objectives of the picking bays. Another option is to located picking bays both before and after. The first set of picking bays would take out unwanted materials, such as bottles and bricks, the second set of picking bays would focus on recoverable materials.

Health and safety at work is a critical factor in the design and operation of a picking line. Protecting workers is an essential part of the waste management industry and this is no different when it comes to sorting stations. Every aspect of safe operation is addressed in the standard Organics picking line configuration, including stop facilities and safe working areas. Optionally, the picking line may be located in an air-conditioned room, also having facilities included for odour control.



KEY FEATURES

RANGE OF CAPACITIES AND DIMENSIONS TO SUIT APPLICATION

WIDE RANGE OF OPTIONS: ROOFING, LIGHTING, INSULATION, AIR CONDITIONING, WINDOWS, ENHANCED SAFETY.

VARIABLE SPEED CONVEYOR DRIVE TO OPTIMISE SEPARATION EFFECTIVENESS

MODULAR DESIGN FACILITATES ADDITION OF PRODUCT SPECIFIC BAYS

MATERIALS OF CONSTRUCTION CAN BE SELECTED TO SUIT DUTY



SPECIFICATION DATA

Single line mass flow rates available:
1.0 to 30 tonnes (wet) per hour

Availability:
Normal operation: 90%
Preventative maintenance: 95%

Suitable for domestic waste, landfill mined waste and industrial waste.

Robust and resistant to wear

Variable speed control

Secure walkways, handrails and access ladders

Feed by drum feeder or bag-opener

Emergency pull cords

TECHNOLOGY

A materials separation facility including picking stations can be capable of higher recovery rates than a purely automated separation line. This is primarily because the arrangement will ensure that one hundred percent of the waste stream will be subjected to the sorting process. By this means it can also target a greater number of materials for recovery or removal.

However, a facility that accepts mixed municipal solid waste can also prove to be more expensive to operate, simply because it is more labour-intensive.

Organics brings safety, effective separation, durability, ease of maintenance, sustainable picking practices and environmental enhancement to the design of a robust and reliable technology. With a wide range of options and the ability to design a final product Organics can also bring track record and experience to bear in the design.

APPLICATIONS

The design of a specific facility is subject to a detailed understanding of the feed-waste compositional range and the objectives of separation. For example, for low mass flow rates, where the objective is to recycle plastic, a two-station picking line may be adequate.

Where the product is a fuel for waste-to-energy, removal of plastics may not be necessary, apart from PVC. However, there may be other specific requirements that can only be addressed adequately with a picking line.



STANDARD UNITS†

	OPL1*	OPL5	OPL10	OPL20	OPL30
Working width (m)	2.0	2.5	3.0	3.3	3.3
Working length (m)	8.0	10.0	12.0	14.0	16.0
Working height (m)	2.8	2.8	2.8	2.8	2.8
Weight (tn)	5	6	8	10	12
Drive (kW)	5.5	11	15	22.5	27
Nominal MSW throughput (tph)	1.0	5.0	10.0	20.0	30.0

† For a complete listing of options please contact Organics
* Dimensions and weights may vary



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