

 RELIABILITY

 LOW OPERATING COSTS

 VERSATILE

 HIGH PRODUCTION CAPACITIES

 LOW ENVIRONMENTAL IMPACT



— CUSTOM

# MSW AND RDF PRODUCTION

## TREATMENT PLANT

### TURNKEY



SMART SOLUTIONS TO PRESERVE THE ENVIRONMENT

TAILOR-MADE SOLUTIONS



FOR REC's municipal and multi-material waste recycling plant consists of technologies that aim to separate and recover high quality recyclable materials suitable for market needs and energy valorization of the non-recyclable dry fraction (RDF).

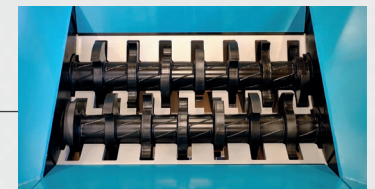
The line can have different sorting stages:

- **MANUAL:** The manual sorting line consists of a sorting platform where operators manually sort the different types of recyclables.
- **SEMI AUTOMATIC:** The semi-automatic sorting line involves mechanical work of the material before sorting.
- **AUTOMATIC:** The automatic sorting line includes optical separation equipment that separate the various types of waste. The plant drastically reduces the manual operations.



**AIR SEPARATOR**

The aeraulic separator uses a stream of air to separate light waste (such as plastic and paper) from heavier waste (such as glass or metals). The materials are lifted and carried by the air according to their weight and shape: the lighter ones (suitable for becoming RDF) are pushed further, while the heavier ones are sent to other types of recovery. This system helps to efficiently separate different types of Municipal solid waste.



**FR** OUTPUT

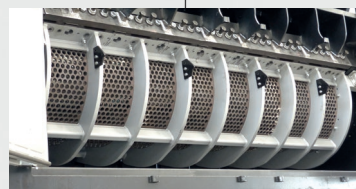
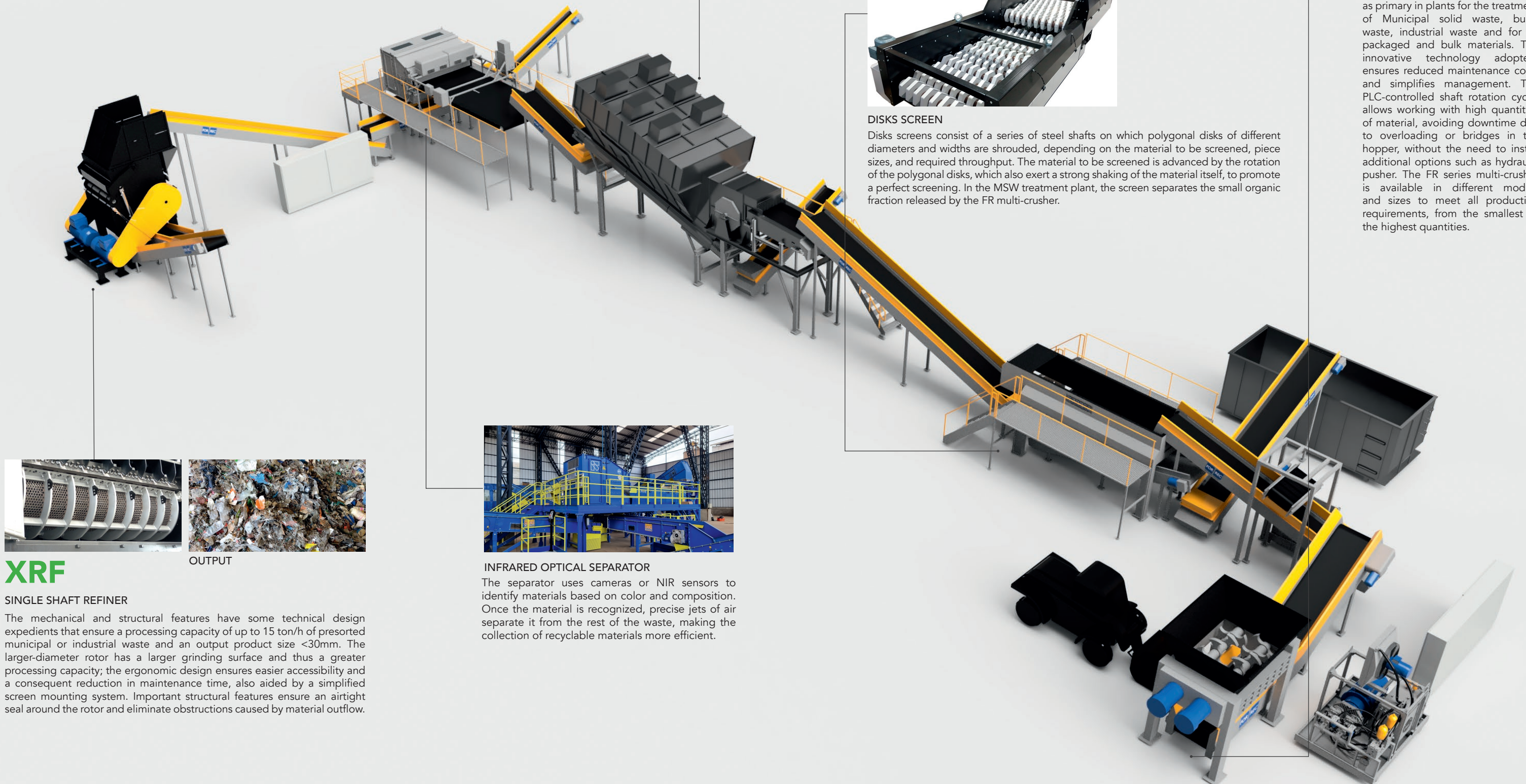
**MULTI-CRUSHER**

The FOR REC FR series multi-crusher is designed to be installed as primary in plants for the treatment of Municipal solid waste, bulky waste, industrial waste and for all packaged and bulk materials. The innovative technology adopted, ensures reduced maintenance costs and simplifies management. The PLC-controlled shaft rotation cycle, allows working with high quantities of material, avoiding downtime due to overloading or bridges in the hopper, without the need to install additional options such as hydraulic pusher. The FR series multi-crusher is available in different models and sizes to meet all production requirements, from the smallest to the highest quantities.



**DISKS SCREEN**

Disks screens consist of a series of steel shafts on which polygonal disks of different diameters and widths are shrouded, depending on the material to be screened, piece sizes, and required throughput. The material to be screened is advanced by the rotation of the polygonal disks, which also exert a strong shaking of the material itself, to promote a perfect screening. In the MSW treatment plant, the screen separates the small organic fraction released by the FR multi-crusher.



OUTPUT

**XRF**

**SINGLE SHAFT REFINER**

The mechanical and structural features have some technical design expedients that ensure a processing capacity of up to 15 ton/h of presorted municipal or industrial waste and an output product size <30mm. The larger-diameter rotor has a larger grinding surface and thus a greater processing capacity; the ergonomic design ensures easier accessibility and a consequent reduction in maintenance time, also aided by a simplified screen mounting system. Important structural features ensure an airtight seal around the rotor and eliminate obstructions caused by material outflow.



**INFRARED OPTICAL SEPARATOR**

The separator uses cameras or NIR sensors to identify materials based on color and composition. Once the material is recognized, precise jets of air separate it from the rest of the waste, making the collection of recyclable materials more efficient.



All systems made by FOR REC are modular and implementable according to specific customer needs.



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