

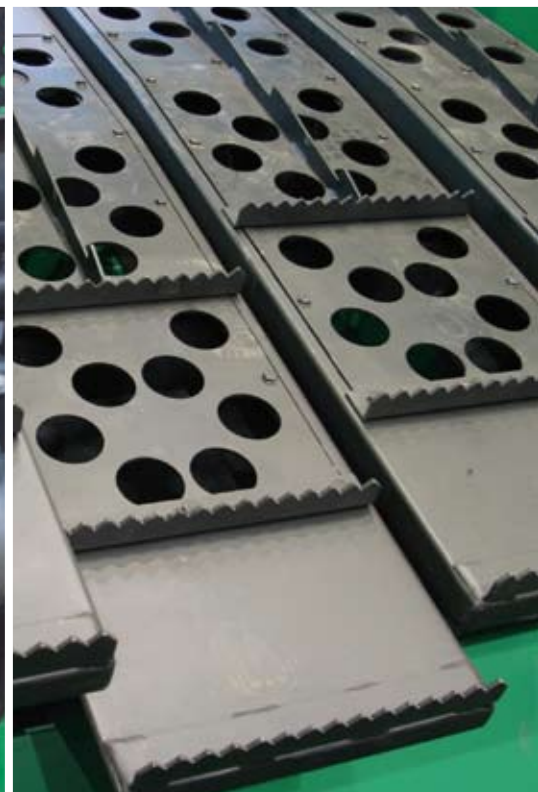


KOMPTECH[®]

Technology for a better environment

BRINI MK

Ballistic separator



BRINI MK



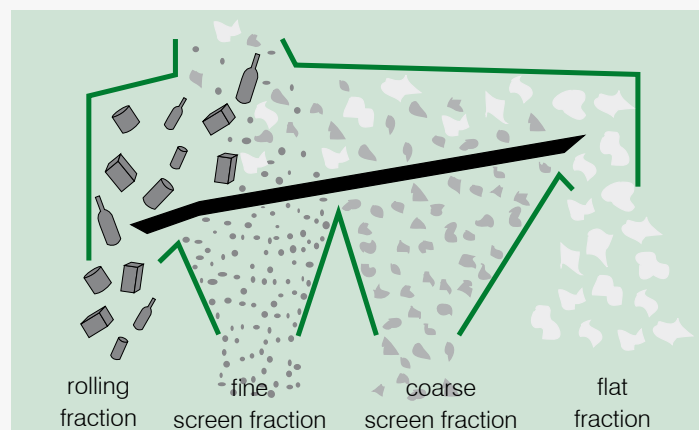
THE CONCEPT

BRINI separators are used to separate out the usable fractions and potential recyclables from waste. By combining ballistic separation with screening, separation into three or four fractions is performed in one operation give two- or three-dimensional, rolling, cubic and rigid, flat, soft and narrow, or undersized/oversized particles. With a choice of five sizes together with integrated design options, the BRINI separator can be configured to suit the individual application.

Range of applications

- Household waste, residual waste, compost
- Bulky waste, commercial waste
- Potentially recyclable mixtures
- Paper and cardboard waste

- wide range of applications – from municipal waste (household waste, commercial waste) to potential recyclables (packaging waste, waste paper) and construction & demolition waste
- High degree of selectivity with adjustment of separation angle
- proven, efficient drive design with low power requirement
- rugged design with long service life and low operating costs



TECHNICAL SPECIFICATIONS

BRINI MK	MK 41	MK 61	MK 81	MK 101	MK 121
Motor rating	5,5 kW	5,5 kW	2 x 5,5 kW	2 x 5,5 kW	2 x 5,5 kW
Machine dimensions					
Length 3 fraction machine:	7475 mm	7475 mm	7475 mm	7475 mm	7475 mm
Length 4 fraction machine:	8675 mm	8675 mm	8675 mm	8675 mm	8675 mm
Width 3 and 4 fraction machine:	2400 mm	3240 mm	4480 mm	5366 mm	6220 mm
Height: (machine only)	1930 mm	1930 mm	1930 mm	2010 mm	2010 mm
Weight 3 fraction machine:	4200 kg	5000 kg	6000 kg	6800 kg	7900 kg
Weight 4 fraction machine:	4700 kg	5600 kg	6700 kg	7500 kg	8700 kg
Screen					
Screen elements:	4	6	8	10	12
Screen elements L x W 3 fraction machine:	5600 x 422 mm	5600 x 422 mm	5600 x 422 mm	5600 x 422 mm	5600 x 422 mm
Screen elements L x W 4 fraction machine:	6800 x 422 mm	6800 x 422 mm	6800 x 422 mm	6800 x 422 mm	6800 x 422 mm
Screening area 3 fraction machine:	9,7 m ²	14,5 m ²	19,2 m ²	24,0 m ²	28,8 m ²
Screening area 4 fraction machine:	11,8 m ²	17,6 m ²	23,4 m ²	29,2 m ²	35,0 m ²
Throughput (dependent on material)	to 80 m ³ /h	to 120 m ³ /h	to 160 m ³ /h	to 200 m ³ /h	to 240 m ³ /h

Function in detail

The BRINI separator from Komptech works according to the ballistic principle and separates the feed material according to its physical properties.

Using an optional material distributor, the material mixture in the feed area falls onto rigid screen elements which are arranged lengthwise and slope upwards. The elements are mounted onto a crankshaft at each end and when rotated, the elements oscillate. The two-dimensional fraction comprises of smooth, flat, slender fragments which are cleansed of contaminants by the shaking and rotation as they are transported upwards by the screen elements.

The three-dimensional fraction comprises rigid, hard/heavy and cubic fragments which are not separated off by the screen holes selected. The movement causes this fraction to roll and drops it downwards, in addition the ascending material flow is separated into oversized and undersized fractions according to the selected screen holes.

Product characteristic

Selectivity

The rigid screen elements are arranged lengthwise and facilitate excellent turning of the material and hence a high degree of sorting. The separation threshold between the light and heavy fraction can be tailored to the material.

Sturdy design

The steel screen elements, with abrasion protection in the loading zone and at the side walls for extra wear protection, allow sharp and heavy materials to be handled easily. The sturdy drive mechanism comprises of an electronic motor, gearbox and robust, maintenance-friendly crankshafts. Doors/flaps for all machine areas provide easy access and simplify servicing and maintenance.

Low operating costs

The low power requirement of the simple yet efficient mechanics means energy costs are low – power consumption is in the range 3 - 7 kWh. Servicing costs are kept low thanks to well-proven technology, reinforcement in places subject to heavy loading and the fact that the number of moving parts has been reduced to a minimum.



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