KOMPTECH
TECHNOLOGY FOR A BETTER ENVIRONMENT

BALLISTOR

STATIONARY BALLISTIC SEPARATOR
WIDE RANGE OF APPLICATION
SEPARATION INTO 3 TO 4 FRACTIONS
RELIABLE
LOW OPERATING COSTS

HIGHLIGHTS ⌃

» Wide range of applications – from municipal waste (household waste, commercial waste) to potential recyclables and construction and demolition waste

» High degree of selectivity with adjustable separation limit

» Efficient drive design with low power requirements

» Rugged design with long service life and low operating costs

BALLISTOR
BETTER SEPARATION

The Ballistor separates out usable fractions from waste and potential recyclables. By combining ballistic separation with screening, in just one pass-through the material stream is separated to the criteria 3/2-dimensional, rolling-cubic-rigid/flat-soft-narrow, and particle size.
This means that high-caloric fractions can be separated out of commercial or household waste and further processed into RDF in one operation.

Other methods like screening followed by windsifting involve a conveyor and take substantially more space and energy. The Ballistor's long-life components, readily replaceable wear elements, and excellent maintenance access further reduce operating costs.
With a choice of separation into three or four fractions, five sizes and many options, the Ballistor separator can be configured to suit the application.
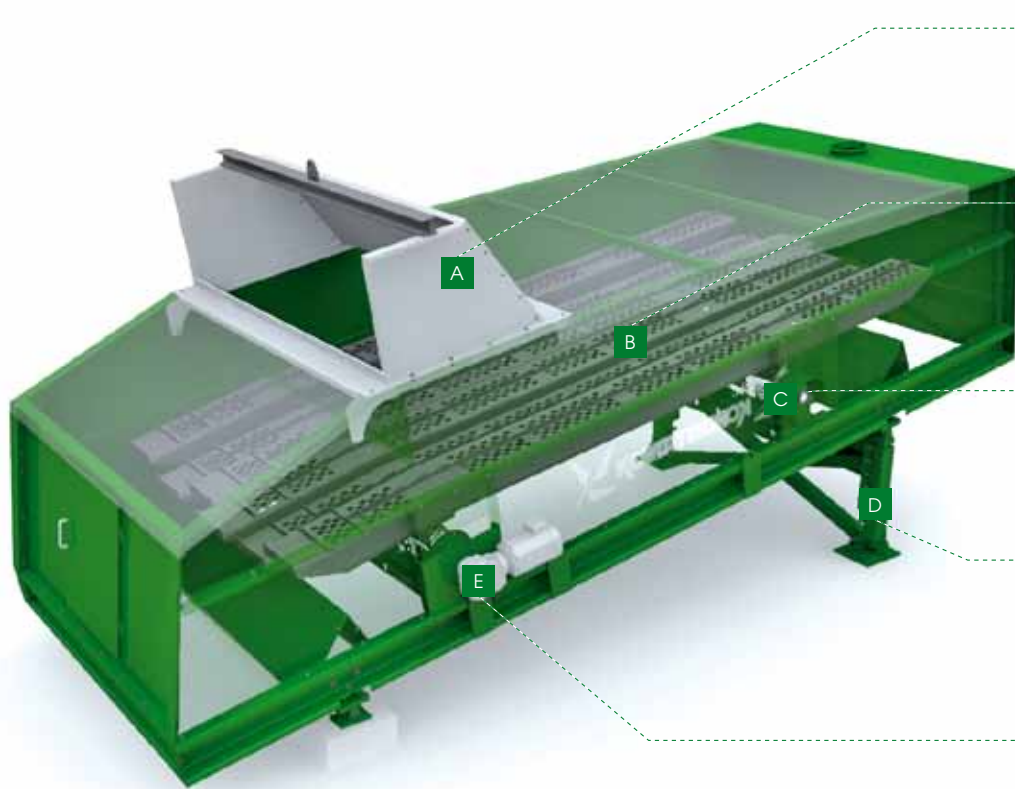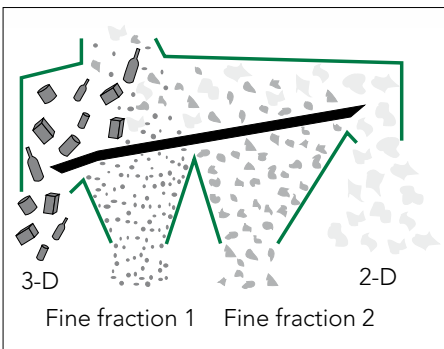
A
In-feed hood (option) and adjustable in-feed flap

B
Screen elements (different types, hole sizes and materials)

C
Elastic connecting link for crankshaft-screen element

D
Mechanical inclination adjustment

E
Crankshaft motor

3-D   2-D
Fine fraction 1   Fine fraction 2

01

02

03

Separation physics

The 2-dimensional fraction is shaken clean of impurities as it passes across the screen elements, and transported upwards. The 3-dimensional fraction is moved downwards by the ballistic movement, and removed. Variable hole sizes of the screen elements further sort the rising material to separate out the fine fraction.

Reliable

A new drive system using an electric motor, crankshaft, and elastic connecting link provides long service life. Automatic lubrication options combined with electronic monitoring make the machine dependable even under heavy-duty operation. The sturdy housing simplifies installation, gives better access to the screen elements, and reduces operating costs by making it easy to replace the wear elements.
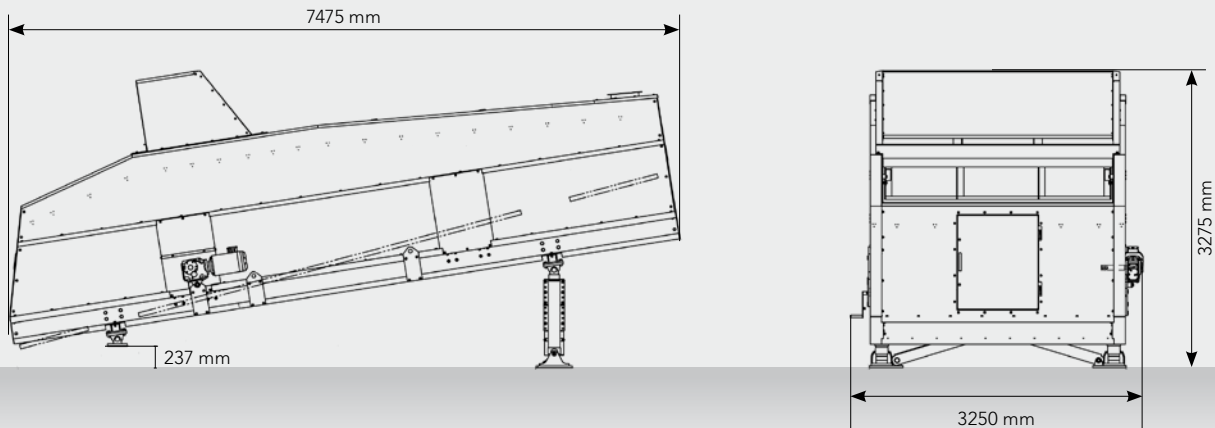
Low operating costs

The low power requirements of the simple yet efficient mechanism keep energy costs low, they are at 4 - 8 kW.
Three screen element designs and a choice of different materials lets the operator select the best configuration for the task, to reduce the wear and maintenance costs.

Ballistor 6300

7475 mm

3275 mm

237 mm

3250 mm

	4300	4400	6300	6400	8300	8400	10300	10400	12300	12400
Drive										
Power (kW):	5,5	5,5	5,5	5,5	11,0	11,0	11,0	11,0	11,0	11,0
Dimensions (mm)										
Length:	7475	8675	7475	8675	7475	8675	7475	8675	7475	8675
Width:	2400	2400	3250	3250	4100	4100	4960	4960	5810	5810
Height without inlet cap:	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930
Transport Width (pre-assembled machine, reduction by decomposition possible)	2150	2150	3000	3000	3940	3940	4800	4800	5650	5650
Screen										
Number of fractions:	3	4	3	4	3	4	3	4	3	4
Number of screening elements:	4	4	6	6	8	8	10	10	12	12
Length screening elements (mm):	5600	6800	5600	6800	5600	6800	5600	6800	5600	6800
Screening area (m²):	9,6	11,6	14,4	17,4	19,2	23,3	23,9	29,1	28,7	34,9
Weight										
Weight, machine only (t):	5,75	6,5	7,0	7,75	8,5	9,25	9,75	10,5	11,0	11,75
Throughput (dependent on material)										
Throughput performance (m³/h):	up to 60	up to 80	up to 100	up to 120	up to 130	up to 150	up to 160	up to 180	up to 200	up to 220
Options										

Screening plates in various designs, perforation (30/50/60/80 mm) and material texture, central lubrication crankshaft bearing, automatic grease cups connecting rod bearing, fixed or manual inclination, in-feed hood, tarpaulin cover and more