

# STADLER®

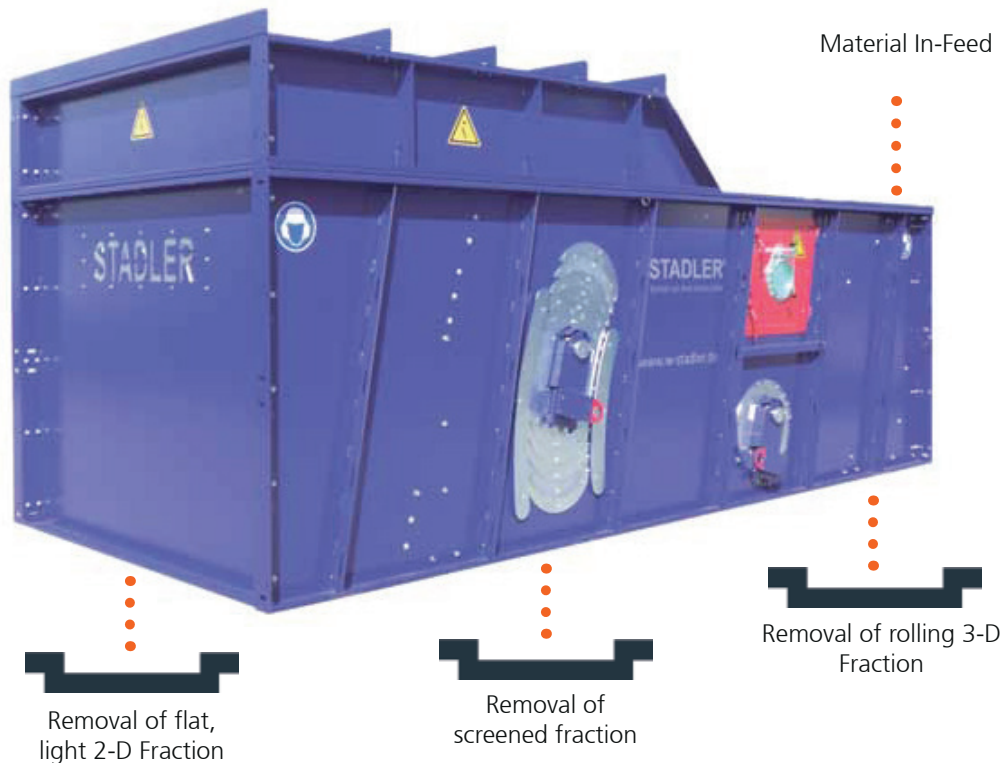
Engineering at its best



## Ballistic Separators

## The Ballistic Separator

Input Material Types	Typ
Paper, Cardboard	<b>PPK2000</b>
Light packaging, mixed paper and cardboard, film, drinking and detergent bottles	<b>STT2000</b>
Non-hazardous Industrial Waste, Construction and Demolition waste, Organic separation from Domestic Waste, Processing of Bulky Waste.	<b>STT5000</b>



Separated materials:	
<b>Flat and light 2D:</b>	Film, Paper, Cardboard, Textiles and fibrous materials
<b>Fines:</b>	The material will be separated dependant on the particle size and the diameter of the paddle perforations
<b>Rolling and heavy 3D:</b>	Plastic Containers, Bottles, Stone, Wood, Cans and Ferrous materials

## Our Ballistic Separators

Type	STT2000	STT2000_102	STT2000_103
Processed material	Light packaging material, mixed paper and cardboard, film, and plastic containers		
Position	Directly after the in-feed of material		
Separating Levels	1 Level	2 Levels	3 Levels
Aim	Separation of the material stream into 3 fractions: 3D rolling, fines and 2D flats	Separation of the material stream into 4 fractions : 3D rolling, fines and 2D flat: 2 fractions	Separation of the material stream into 5 fractions: 3D rolling, fines and 2D: 3 fractions
Results	3 extracted fractions: <ul style="list-style-type: none"> <li>• 3D: different plastic containers, ferrous and non-ferrous materials</li> <li>• fines: materials which are smaller than the paddle perforations</li> <li>• 2D: paper, cardboard and film</li> </ul>	4 extracted fractions: <ul style="list-style-type: none"> <li>• 3D: different containers</li> <li>• fines: shredded materials</li> <li>• 2D: 2 different fractions according to the diameter. The smallest could be used as RDF</li> </ul>	5 extracted fractions: <ul style="list-style-type: none"> <li>• 3D: different containers</li> <li>• fines: shredded materials</li> <li>• 2D: 3 different fractions according to the diameter. The 3rd level achieves better separation results</li> </ul>
Type	STT5000_101	STT5000_102	PKK2000
Processed material	Non-hazardous Industrial Waste (Shredded or Unshredded) Bulky waste, Demolition waste, Domestic waste with organic separation		Paper and Cardboard
Position	<ul style="list-style-type: none"> <li>• After the infeed (shredded or unshredded)</li> <li>• Fraction after the trommel screen in the volume flow &lt; 300mm</li> </ul>		Directly after the first material infeed
Separating levels	1 Level	2 Level	1 Level
Ziele	Material into 3 fractions: 3D rolling, fines and 2D flat	Material into 4 fractions: 3D rolling, fines and 2D flat: 2 fractions	Separation of the cardboard (>DIN A4) from the material stream mixed paper
Results	3 extracted fractions: <ul style="list-style-type: none"> <li>• 3D rolling, heavy: plastic containers or different metals, stones, wood</li> <li>• fine: materials with a smaller granulation than the diameter of the paddle perforations.</li> <li>• 2D: paper, cardboard, film and textiles</li> </ul>	4 extracted fractions: <ul style="list-style-type: none"> <li>• 3D rolling and heavy: different containers</li> <li>• fine: mixed materials with a smaller granulation than the diameter of the paddle perforations</li> <li>• 2D: 2 fractions according to size</li> </ul>	2 extracted fractions: <ul style="list-style-type: none"> <li>• cardboard</li> <li>• Mixed paper</li> </ul>

# The Ballistic Separator STT2000

**STADLER®**

### Paddles for Separation

With perforations in various sizes and forms according to your requirements



### Variability

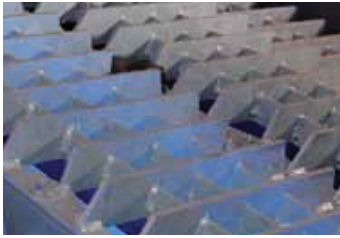
Possible to combine up to 3 Ballistic Separators to achieve separation into various different sizes

Type STT2000									
	L x W x H	Drive output	Working area	Weight	Angle adjustment	Screen perforation	Material density	Grading	volume/mass flow
STT2000_101	5.5 x 2.5** x 2.5 m	4 kW 400 V	8.8 m <sup>2</sup>	6t	0° - 25°	45 x 45	50 kg / m <sup>3</sup>	<220 mm	60 m <sup>3</sup> /h* 3t/h
STT2000_102	5.5 x 2.5** x 4.60 m	2 x 4 kW 400 V	2 x 8.8 m <sup>2</sup>	12t	0° - 25°	Above: 120 x 120 Below: 45 x 45	65 kg / m <sup>3</sup>	Refuse bags <120 l	90 m <sup>3</sup> /h* 6t/h
STT2000_103	5.5 x 2.5** x 6.94 m	3 x 4 kW 400 v	3 x 8.8 m <sup>2</sup>	18t	0° - 25°	Above: 120 x 240 Middle: 120 x 120 Below: 45 x 45	80 kg / m <sup>3</sup>	Refuse bags <120 l	125 m <sup>3</sup> /h* 10t/h

\* The values given are reference values and may vary according to grain size distribution, screen perforation sizes and material composition  
Throughput rates can be calculated exactly based on tests carried out in our Technology Centre (Please see next page)  
\*\* Widths without motor

## The Ballistic Separator STT5000

# STADLER®



### Screening paddle

The paddles are made of 10 mm special steel plates

### Maintenance Door

Easy access to the inside of the separator for maintenance and cleaning



### Hydraulic Adjustment

Easy Adjustment of the angle of the Paddles

### Steel Structure

Extremely robust materials and construction

### Type STT5000\_101

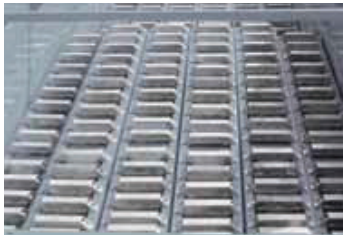
L x W x H	Drive output	Working area	Weight	Angle adjustment	Material	Screen perforation	Material density	Grading	Volume/mass flow
5.8 x 2.5** x 2.7 m	11 kW 400 V	10.9 m <sup>2</sup>	13 t	7.5° - 25°	Co-mingled	50 x 50	100 kg / m <sup>3</sup>	Refuse bags < 120 l	70 m <sup>3</sup> /h* 7t/h
					Industrial waste	50 x 50	180 kg / m <sup>3</sup>	< 300	80 m <sup>3</sup> /h* 15t/h
					Industrial waste (pre-shredded)	130 x 130	200 kg / m <sup>3</sup>	< 300	140 m <sup>3</sup> /h* 28t/h

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Throughput rates can be calculated exactly based on tests carried out in our Technology Centre (Please see next page)

\*\* Widths without motor

# The Ballistic Separator PPK2000

**STADLER®**



**Screen Area**

Wide screening area with steel paddles



**Characteristics**

Special paddle adaption gives optimized Cardboard separation



**Maintenance Door**

Easy access to the inside of the separator for maintenance and cleaning



**Type PPK2000**

L x W x H	Drive output	Working area	Weight	Angle adjustment	Material	Screen perforation	Material density	Grading	Volume/ mass flow
6.5 x 2.5** x 2.0 m	4 kW 400 V	12.6 m <sup>2</sup>	6,5t	-	Mixed paper	300 x 250 mm	200 kg/m <sup>3</sup>	Material ≤ DIN A1	56 m <sup>3</sup> /h* 15t/h

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 \*\* Widths without motor