



**IMT**

BALLISTIK  
SEPARATOR



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## SEPARATION TECHNIQUE

In the IMT Separator material is separated according to the differing trajectories and ballistic properties of the individual elements found in the commingled material fed into a rotating screen. The IMT Separator separates the materials into the three distinctive fractions:



### 2D-fraction

Lightweight and flat material such as paper, plastics, films and textiles are tossed a short distance upwards and transported forward towards the light fraction outlet by the rotary movement of the screen.



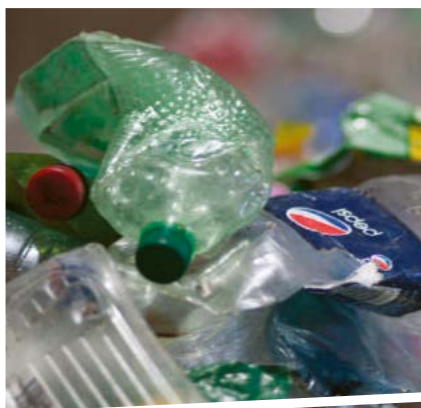
### 3D-fraction

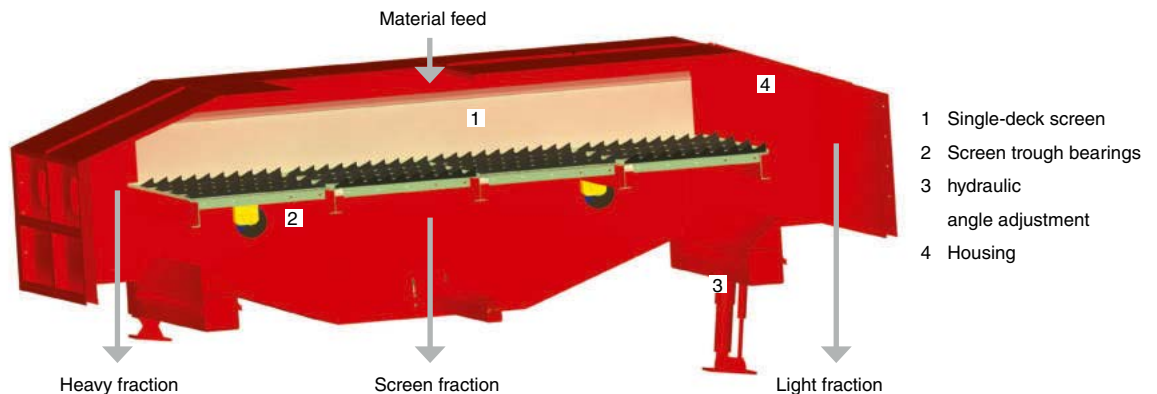
Heavy and round items such as bottles, cans, wood and ferrous metals are tossed by the movement of the screen and discharged backwards into the heavy fraction by the angle of the screen deck.



### Screen fraction

The surface of the screen deck is perforated (hole size to customer's specifications). As a result, a screened fraction is generated simultaneously during the separation process.





## TECHNICAL SPECIFICATIONS

The IMT Separator's screening accuracy can be set by adjusting the rotary speed and angle of the screen trough.

TYP	IMT Separator 40	IMT Separator 80	IMT Separator 100	IMT Separator 120
volumetric weight Input	up to 500 kg/m <sup>3</sup>	up to 500 kg/m <sup>3</sup>	up to 500 kg/m <sup>3</sup>	up to 500 kg/m <sup>3</sup>
Maximum capacity	up to 40 m <sup>3</sup> /h	up to 80 m <sup>3</sup> /h	up to 100 m <sup>3</sup> /h	up to 120 m <sup>3</sup> /h
electric drive	400 V +/- 5% / 50 Hz	400 V +/- 5% / 50 Hz	400 V +/- 5% / 50 Hz	400 V +/- 5% / 50 Hz
voltage/frequency	yes	yes	yes	yes
rotation speed - screen	depending upon material	depending upon material	depending upon material	depending upon material
power transmission	service reduced drive	service reduced drive	service reduced drive	service reduced drive
dimensions screen deck	5.000x1.300 mm	5.000x2.500 mm	5.000 x 3.000 mm	5.000x4.000 mm
perforation screen	customer request	customer request	customer request	customer request
equipment - length	7.600 mm	7.600 mm	7.600 mm	7.600 mm
equipment - width	2.700 mm	4.000 mm	4.700 mm	5.500 mm
equipment height	3.000 mm - inclination 12°	3.000 mm - inclination 12°	3.000 mm - inclination 12°	3.000 mm - inclination 12°
tare weight	5000 kg	6500 kg	8.700 kg	10.000kg
inclination adjustment	Hydraulic hand pump from 5 up to 12°	Hydraulic hand pump from 5 up to 12°	Hydraulic hand pump from 5 up to 12°	Hydraulic hand pump from 5 up to 12°
manufacture standard	machinery directive 2010	machinery directive 2010	machinery directive 2010	machinery directive 2010

TYP	IMT Separator 40 light	IMT Separator 80 light	IMT Separator 100 light	IMT Separator 120 light
volumetric weight Input	up to 250 kg/m <sup>3</sup>	up to 250 kg/m <sup>3</sup>	up to 250 kg/m <sup>3</sup>	up to 250 kg/m <sup>3</sup>
Maximum capacity	up to 40 m <sup>3</sup> /h	up to 80 m <sup>3</sup> /h	up to 100 m <sup>3</sup> /h	up to 120 m <sup>3</sup> /h
electric drive	400 V +/- 5% / 50 Hz	400 V +/- 5% / 50 Hz	400 V +/- 5% / 50 Hz	400 V +/- 5% / 50 Hz
voltage/frequency	yes	yes	yes	yes
rotation speed - screen	depending upon material	depending upon material	depending upon material	depending upon material
power transmission	service reduced drive	service reduced drive	service reduced drive	service reduced drive
dimensions screen deck	5.000x1.300 mm	5.000x2.500 mm	5.000 x 3.000 mm	5.000x4.000 mm
perforation screen	customer request	customer request	customer request	customer request
equipment - length	7.600 mm	7.600 mm	7.600 mm	7.600 mm
equipment - width	2.700 mm	4.000 mm	4.700 mm	5.500 mm
equipment height	3.000 mm - inclination 12°	3.000 mm - inclination 12°	3.000 mm - inclination 12°	3.000 mm - inclination 12°
tare weight	4.000 kg	5.500 kg	8.200 kg	9.000 kg
inclination adjustment	Hydraulic hand pump from 5 up to 12°	Hydraulic hand pump from 5 up to 12°	Hydraulic hand pump from 5 up to 12°	Hydraulic hand pump from 5 up to 12°
manufacture standard	machinery directive 2010	machinery directive 2010	machinery directive 2010	machinery directive 2010

\* dependent on the material being processed





## ADVANTAGES

over multi-paddle separators

- Single-deck system
- No risk of music/video tapes or plastic film etc. wrapping with drive components
- External drive components and bearings eliminate contact with processed material
- Easy configuration to suit various types of material
- Low maintenance requirement
- Low purchase price and low running costs
- Ready for connection, coming complete with electrical control system

## STANDARD FUNCTIONS

- Hydraulic angle adjustment
- Flexible sealing around fixed base frame on customer's premises

## FURTHER OPTIONS

- Automatic hydraulic angle adjustment
- Positive air support/separation system
- Automatically regulated bearing lubrication
- Control panel with colour display and programmable logic controller



### 4 sizes

- Machine width 2700 mm
- Machine width 4000 mm
- Machine width 4700 mm
- Machine width 5500 mm



### Optional features

- Positive air support/separation system
- Fully automatic height adjustment
- Automatic lubrication
- Control cabinet



### Classification

- Dry commingled household waste
- Industrial/commercial waste
- Light packaging waste
- Refuse Derived Fuel



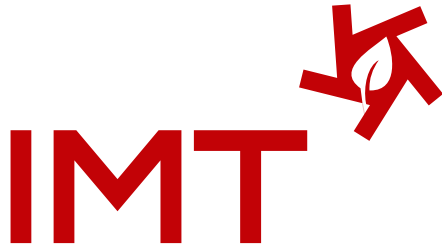
### Recycling

- Plastic containers (PET bottles, ...)
- Films (Refuse-derived fuels, ...)
- Paper and cardboard
- Metals



### Separation guarantee (separation accuracy)

- Light fractions contain no more than 8% heavy particles by mass
- Heavy fractions contain no more than 8% light particles by mass (except containers such as foamed plastics and cans.



INNOVATIVE  
MASCHINENTECHNIK

*... working for  
tomorrow*

IMT Innovative Machine Technology, based in Austria, develops, manufactures and sells separation systems for waste disposal and waste management companies. The company combines years of experience in the field with cutting edge technical developments. With this forward-thinking company structure, a dynamic management team and state-of-the-art design IMT anticipates tomorrow's demands today.

**Our motto is simple and the result of much hard work: We provide products and service that are always one step ahead.**

## OTHER CORPORATE DIVISIONS

- **IMT Environmental Technology**
- **Special-purpose Machine Engineering**
- **IMT Spare Parts Shipment**
- **IMT Service**





# IMT



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