



IMT

BALLISTIK
SEPARATOR

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IMT

**BALLISTIK
SEPARATOR**

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:



Light fraction

(generally 2-dimensional)

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.



Heavy fraction

(generally 3-dimensional)

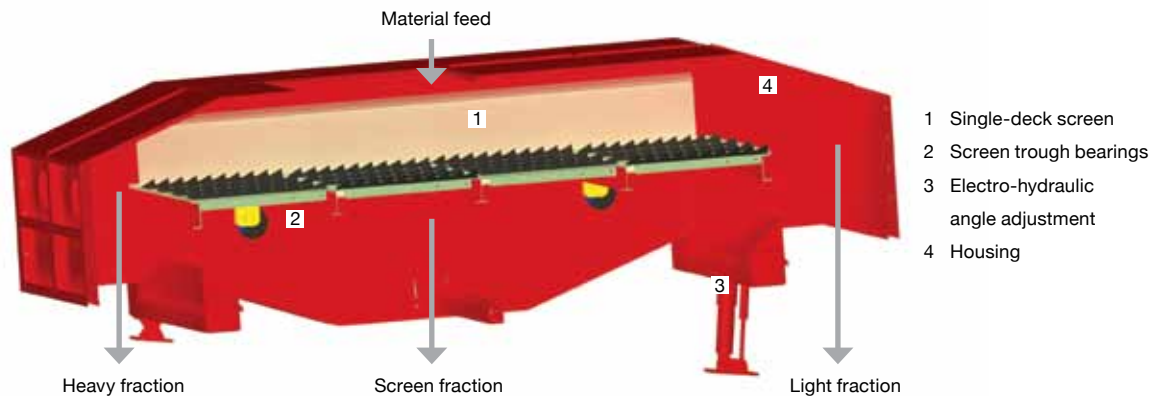
Heavy and round items such as bottles, cans, wood and ferrous metals are tossed by the movement of the screen and discharged backwards into the heavy fraction by the angle of the screen deck.



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.

IMT Separator 40

IMT Separator 80

IMT Separator 120

| | | | |
|---------------------------------|---|----------------------------|----------------------------|
| Volume weight of input | max. 500 kg/m ³ | max. 500 kg/m ³ | max. 500 kg/m ³ |
| Maximum throughput* | 40 m ³ /h | 80 m ³ /h | 120 m ³ /h |
| Electric drive | 13 kW | 13 kW | 18 kW |
| Voltage/frequency | 400 V +/- 5% / 50 Hz | 400 V +/- 5% / 50 Hz | 400 V +/- 5% / 50 Hz |
| Frequency transformer | yes | yes | yes |
| Screen speed | depends on material | depends on material | depends on material |
| Power transmission | low-maintenance drive mounted on outside of housing | | |
| Screen trough dimensions | 5000x1300 mm | 5000x2500 mm | 5000x4000 mm |
| Screen perforation size | to customer specs. | | |
| Machine length | 7600 mm | 7600 mm | 7600 mm |
| Machine width | 2700 mm | 4000 mm | 5500 mm |
| Machine height | 3000 mm at an angle of 12° | 3000 mm at an angle of 12° | 3000 mm at an angle of 12° |
| Tare weight | 5000 kg | 6500 kg | 9000 kg |
| Inclination adjustment | hydraulic 5°–12° | | |
| Manufacturing standard | machinery directive 2010 | | |

IMT Separator 40 light

IMT Separator 80 light

IMT Separator 120 light

| | | | |
|---------------------------------|---|----------------------------|----------------------------|
| Volume weight of input | max. 250 kg/m ³ | max. 250 kg/m ³ | max. 250 kg/m ³ |
| Maximum throughput* | 40 m ³ /h | 80 m ³ /h | 120 m ³ /h |
| Electric drive | 13 kW | 13 kW | 16 kW |
| Voltage/frequency | 400 V +/- 5% / 50 Hz | 400 V +/- 5% / 50 Hz | 400 V +/- 5% / 50 Hz |
| Frequency transformer | yes | yes | yes |
| Screen speed | depends on material | depends on material | depends on material |
| Power transmission | low-maintenance drive mounted on outside of housing | | |
| Screen trough dimensions | 5000x1300 mm | 5000x2500 mm | 5000x4000 mm |
| Screen perforation | to customer specs. | | |
| Machine length | 7600 mm | 7600 mm | 7600 mm |
| Machine width | 2700 mm | 4000 mm | 5500 mm |
| Machine height | 3000 mm at an angle of 12° | 3000 mm at an angle of 12° | 3000 mm at an angle of 12° |
| Tare weight | 4000 kg | 5500 kg | 7800 kg |
| Inclination adjustment | hydraulic 5°–12° | | |
| Manufacturing standard | 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

- **Electro-hydraulic angle adjustment**
- **Vibration and bearing monitoring system with data evaluation**
- **Control panel with colour display and programmable logic controller**
- **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**



3 sizes

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



Optional features

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



Classification

- Dry commingled household waste
- Industrial/commercial waste
- Light packaging waste
- Construction and demolition waste



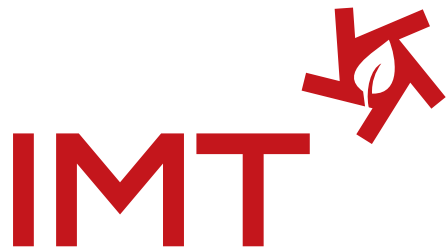
Recycling

- 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 Installation Technology**
- **IMT Spare Parts Shipment**
- **IMT Service**





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