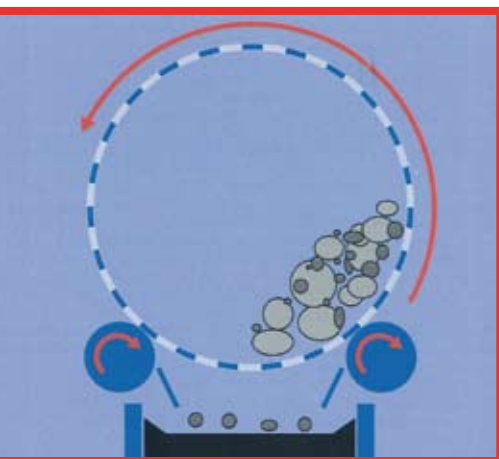


# **Machiniefabriek Emmen B.V.**

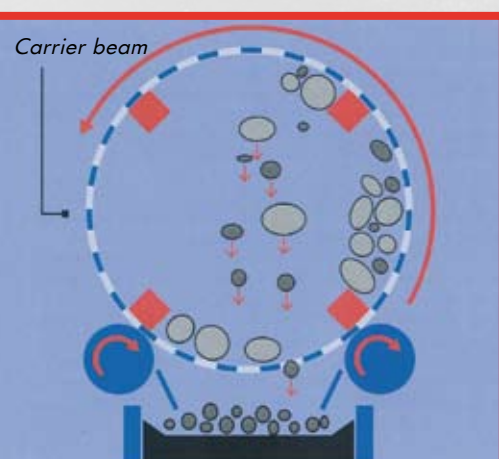


***The  
Machiniefabriek Emmen  
Trommel Screen***

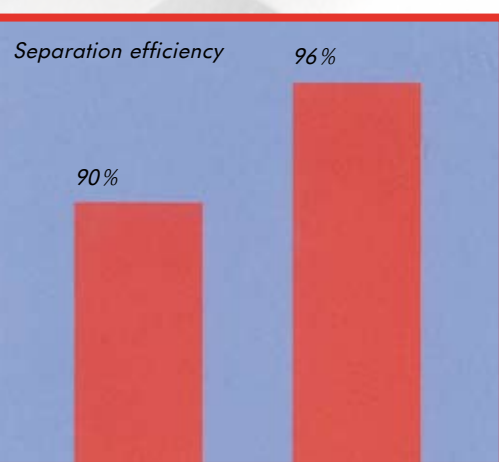
# The MFE Trommel Screen



Conventional Trommel Screen



MFE Trommel Screen



Conventional Trommel Screen

MFE Trommel Screen

Screens are used in almost every waste recycling solution. Often they are crucial for the efficiency of the downstream separation process. Screening is one of the core technologies of Machinefabriek Emmen. So we have developed a range of trommel screens that have gained an international reputation providing durable and versatile grading with very high separation efficiencies.

## Trommel screen

The trommel screen is almost always an integral part of a comprehensive solution.

The device is used in the separation processes of municipal solid waste, commercial and industrial waste, construction and demolition waste and compost. It can handle both pre-shredded and untreated inputs at capacities up to 65 tonnes/hour.

The MFE Trommel Screen is unique for its aggressive separation. The combination of high rotation speeds (up to 20 RPM) and carrier beams, inside the trommel, lifts the material to the top of the trommel and then drops it onto the screen deck. The utilization of the gravitational downforce enhances separation performance in comparison to conventional trommel screens. The MFE Trommel Screen can also incorporate internal bag opening spikes when handling untreated MSW. This prevents the need for an additional unit for this function. To see the MFE Trommel Screen, go to [www.machinefabriekemmen.nl](http://www.machinefabriekemmen.nl)

## Trommel screen types

Machinefabriek Emmen offers a complete range of industry specific trommel screens. This range covers the full spectrum of input materials, material densities, input capacities and screening sizes.



**Deformation body**  
Dynamic stress simulation and calculation.

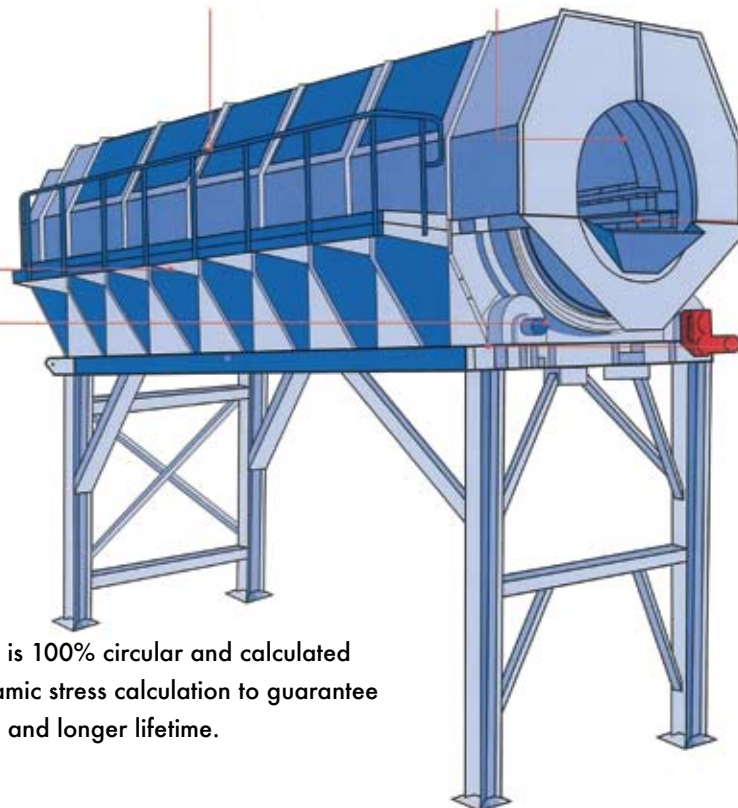


Bearing runner is 100% circular and calculated through a dynamic stress calculation to guarantee lower vibration and longer lifetime.

Inspection hatches

Bag opening spikes (optional)

Carrier beams



Vulcanized tread

## MFE Trommel Screen types

Pre-shredded MSW, C&I of C&D input, 0-300mm					Compost 0-200mm	
Hole diameter	Ø40	Ø80	Ø120	Ø150	Ø10	Ø20
Trommel diameter / length						
2000 / 5000	12-20	15-30	16-33	20-40	7	11
2000 / 6250	14-22	17-32	18-37	18-44	8	12
2500 / 6250	18-28	21-36	22-43	23-50	9	14
2500 / 7500	20-31	24-40	25-47	26-55	10	16
2500 / 8750	22-36	26-45	28-54	29-60	11	18

Untreated MSW, C&I or C&D input, 0-1000mm				
Hole diameter	Ø40	Ø80	Ø150	Ø200
Trommel diameter / length				
3200 / 7500	17-24	22-32	26-40	32-45
3200 / 8750	20-27	25-35	30-45	35-50
3200 / 10000	22-30	27-40	32-50	40-55

Capacities (tonnes/hour)





**Address:**

Ph. Foggstraat 35  
NL-7825 AK Emmen  
The Netherlands

P.O. Box 2031  
NL-7801 CA Emmen  
The Netherlands

Telephone: +31 (0)591 630888  
Fax : +31 (0)591 632024  
E-mail : info@mfemmen.nl  
www.machinefabriekemmen.nl

## ***Benefits***

- High separation efficiency up to 96%.
  - Carrier beams enhance the screening efficiency.
- Increased capacity through high rotation speed (up to 20 RPM compared to 10 to 12 RPM for conventional trommel screen).
- Relatively small footprint
- Adjustable rotation speed for different feedstocks:
  - Prevents the formation of entangled materials ('waste sausage'), which reduces screen efficiency.
- Optional integrated bag opening spikes for handling untreated MSW.
- Longer lifetime, due to:
  - Optimal size-weight ratio prevents unnecessary stress forces and vibrations;
  - Special tread lined driving wheels prevent vibration and metal fatigue.
- Lower energy consumption:
  - Low vibrations due to 100% circular bearing runner.

## ***A look at the facts***

- Capacities up to 65 tonnes/hour.
- Processes a variety of input streams: MSW, C&I waste, C&D waste and compost:
  - Untreated: 0-1000mm;
  - Pre-shredded: 0-300mm.
- Low cost of ownership:
  - Low on maintenance;
  - Few wearable parts;
  - Low energy consumption.

## ***5 Years warrantee***

The MFE Trommel Screen has a longer lifetime due to its optimal size-weight ratio. To demonstrate this, Machinefabriek Emmen is the only supplier of trommel screens on the market with a standard warrantee period of 5 years on trommel- and support frame.

