

RIPTOR®

THE (R)EVOLUTION IN BAG OPENING



BENEFITS AT A GLANCE

EFFICIENT AND FORCEFUL. FOR MAXIMUM OPENING RATES.

Our RIPTOR® shows its versatility by opening and emptying outer packaging material with an opening rate of >98% for waste bags and small packages ≥ 3 litres. In the process, the transfer of the output material to downstream sorting and processing equipment takes place continuously and at a controlled rate. With a bulk weight of 350kg/m^3 , delivery rates of up to 65t/h^* are possible, depending on the model of the RIPTOR and on the parameters of the input material.

This machine's innovative and robust design combines

the functionality of a classic bag opener with the power of a shredder. In addition, the separating and sorting results of the line can be improved with an optimal feed of the discharged material to downstream equipment.

The combination of ruggedness - with resistance to even large extraneous material, such as old tires, wooden pallets/beams or box spring mattresses - and our control technology with intelligent safety functions enables fully-automatic, 24-hour interruption-free operation of the RIPTOR with minimal maintenance.

SAFE:

Easy accessibility and maintenance via hydraulic front door (opens downwards)

POWERFUL:

Maximum power transfer at low speeds

FLEXIBLE:

Simple adaptation of the machine parameters to the material and application



EFFICIENT:

High-quality, frequency-controlled drives and planetary gears; power consumption between 10 and 50kW (depending on the model)

ROBUST:

Bearings and drives outside of the drum prevent damage to the drive system

INTELLIGENT:

Control unit with intelligent safety functions actively prevents material ragging and blockage

THE POWERHOUSE

PREVAILS. WITH NO IFS, ANDS, OR BUTS.

OPENING OF PACKAGED WASTE

- » Efficient tearing of waste bags and small packages to open without shredding or cutting them; opening rates >98%
- » Optimal preparation of the input material, e.g. by emptying outer packaging, for further processing in the line

DOSING

- » Continuous and controlled feeding of the material into the line
- » Optimization of separation/sorting results due to the continuous feeding of the discharged material to downstream equipment
- » Easy adaptation (mechanical and electronic) of output, opening rates and grain size

PROCESSING OF LARGE EXTRANEIOUS MATERIAL

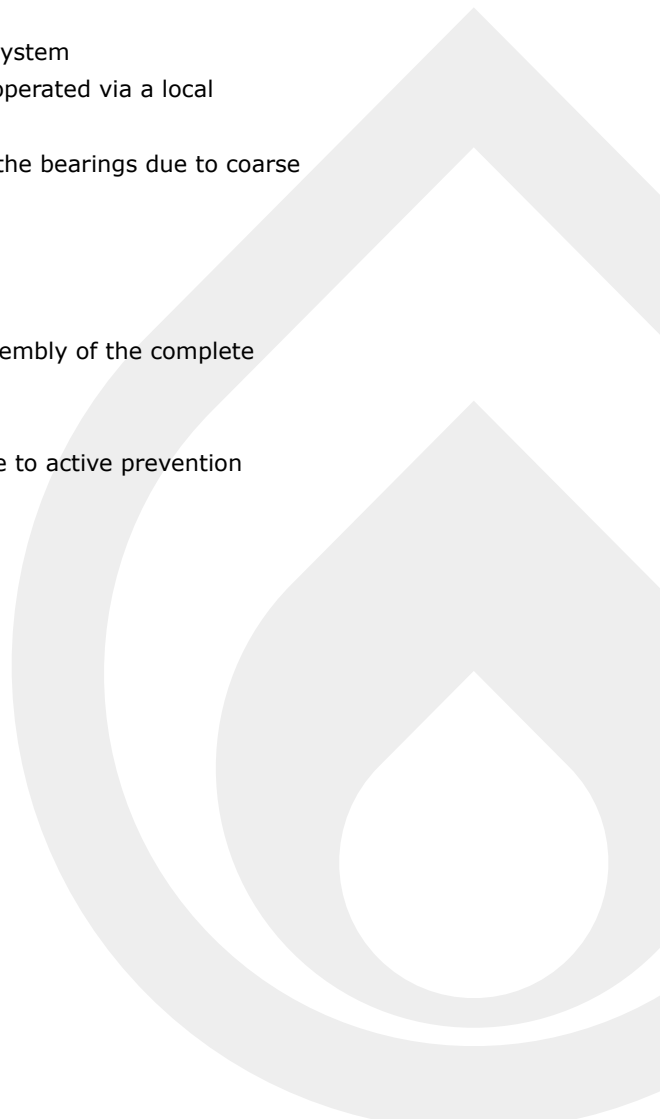
- » Chopping of extraneous material in the input material effectively prevents blockage and damage to the system

SAFE AND FLEXIBLE USE

- » Efficient monitoring and control of the drive: temperature, power consumption, speed, torque
- » Intelligent sensors to monitor the fill level in the loading hopper and the layer height on the drum
- » External bearings and electric motors prevent damage to the drive system
- » Manual maintenance mode: hydraulic front door and drums can be operated via a local control unit
- » Labyrinth seal for the drum prevents contamination and damage of the bearings due to coarse dirt; no fire hazard due to friction on the sides of the drum

LOW OPERATING AND MAINTENANCE COSTS

- » High efficiency (0.65 to 0.75kWh/t*)
- » Shaft replacement via hydraulic front door is possible without disassembly of the complete machine
- » Interchangeable teeth for drum and front door (optional)
- » Minimal plant downtime and effort for cleaning and maintenance due to active prevention of blockage and material ragging



THE INTELLIGENCE

INNOVATIVE CONTROL UNIT FOR FULLY-AUTOMATIC, FAULT-FREE OPERATION

The safe operation of our machinery has absolute priority. Combined with maximum user-friendliness, our RIPTOR models are used in the widest range of applications.

With our control unit designed in-house, intelligent monitoring and control of the drives are incredibly easy. The intelligent sensors monitor the fill level in the loading hopper and the layer height on the drum, in addition to monitoring various mechanical components. This guarantees safe, uninterrupted operation and flexible adaptation to changing parameters.

Blockages are actively prevented, thanks to the combination of drive monitoring and sensors, with automatic

reversal and restarting of the drum. Due to the hydraulically operated front door and the external bearings and electric motors, the drive system does not sustain any damage. A fully-automatic pivoting scraper arranged above the drum also ensures that accumulating material or wound material is removed when the drum reverses.

With the high-quality, frequency-controlled drives and mechanically adjustable distance between the drum and the counter teeth of the front door, our RIPTOR models can be optimally adapted to the input material. The RIPTOR, therefore, is entirely flexible in terms of output, opening rate, and grain size of the output material.

TECHNICAL DATA	RIPTOR 1800/...		RIPTOR 2500/...			RIPTOR 3000/...
	30	45	60	90	110	90
Working width	1800mm		2500mm			3000mm
Inlet dimensions (LxW)	1150 x 1800mm		1150 x 2500mm			1150 x 3000mm
Distance (drum and counter door teeth)	10 - 100mm					
Length (outside)	2225mm					
Width (outside)	3922mm		5400mm		5500mm	5900mm
Discharge height	approx. 3800mm					
Number of drives	1		2			2
Total drive output	30kW	45kW	60kW	90kW	110kW	90kW
Power-Pack output (front door hydraulic unit)	1.5kW					
Weight (excl. hopper and supports)	10.5t*	10.6t*	14t*	15t*	16t*	18t*
Speed range	5 - 14rpm	8 - 21rpm	8 - 22rpm	13 - 35rpm	16 - 43rpm	13 - 35rpm
Speed at 50Hz	9rpm	13rpm	14rpm	22rpm	27rpm	22rpm
Min. opening rate (outer package >=3L)	95%					
Max. delivery rate	45m³/h	63m³/h	97m³/h	148m³/h	185m³/h	179m³/h
Delivery rate at density 350kg/m³	16t/h*	22t/h*	34t/h*	52t/h*	65t/h*	62t/h*

*All data in metric tons.

The capacity depends on the parameters of the material input and can vary accordingly.

UNCOMPROMISING. FLEXIBLE. DURABLE.

RIPTOR APPLICATIONS

In addition to its primary area of application, which is the opening and emptying of waste bags and small packages, our RIPTOR can also be used in applications with large extraneous material in waste flows. Paper bales, tires, pallets, carpet and even box spring mattresses are shredded with ease.

The table below shows examples of the diverse applications for our RIPTOR.

INPUT MATERIAL

OUTPUT MATERIAL

Waste bags



Tractor tires



Box spring mattresses



Pallets



Paper bales



OUR ANAERGIA TECHNOLOGIES

We offer solutions for the following applications:

- » Pump Technology
- » Mixing Technology
- » Separation
- » Extrusion Technology
- » Screening & Sorting
- » Size Reduction
- » Organic Polishing
- » Conveyor Technology



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