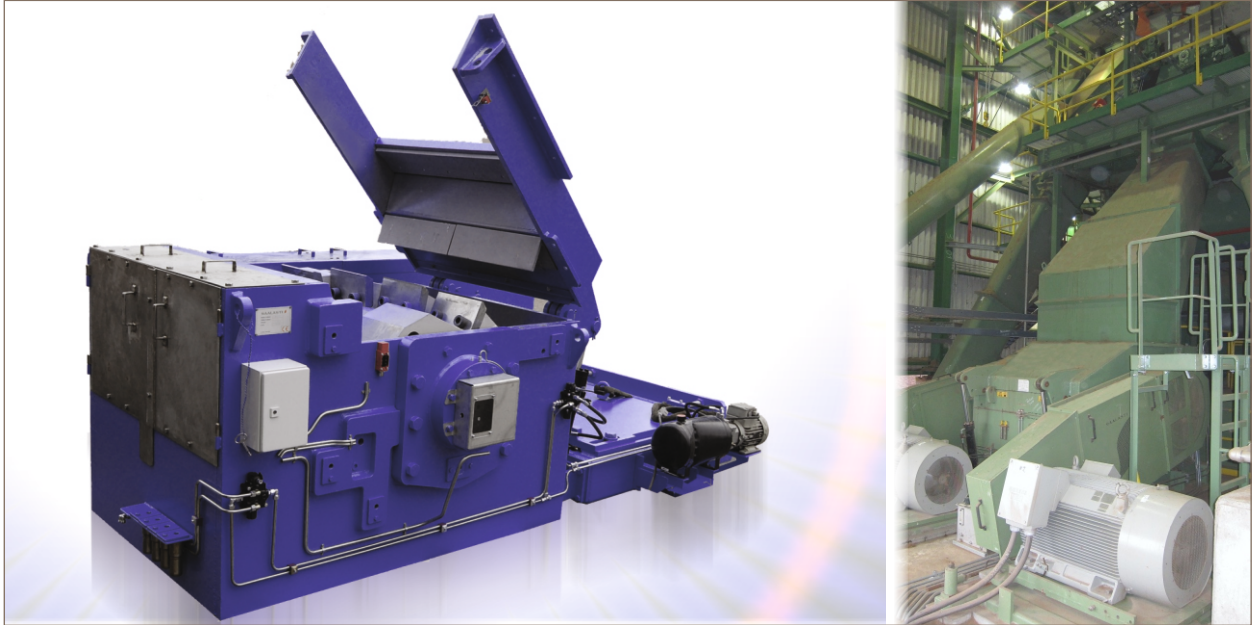


Saalisti Cutter V-series

Vertical cutter for hard-to-process bark



Saalisti Cutter V-series: size reduction of most demanding bark

The Saalisti Cutter V-series is a tailored version of Saalisti Crush V-series. It is designed specifically to cut demanding biomasses, such as bark from eucalyptus and acacia, as well as several agro-biomasses. With one moving part, a solid steel rotor, Saalisti Cutters are probably the most robust and reliable vertical cutters available, in all their simplicity, as the vast base of cutter operating all around the world proves.

Operation

The operation of Saalisti Cutter V is based on knives attached to the heavy inertial rotor. Biomass entering the process zone is first hit by a cutting knife against countering surface. After that the pieces receive repeated cutting blows, until they reach the desired size and exit through a grating underneath the cutter rotor. Knives are easy to recondition and sharpen. Maintenance costs are low as proven at reference sites.

Safe

Saalisti Cutter V is protected against overload situations and incidents of foreign matter - metal, rocks, etc. - entering the cutting zone. The simple and effective protection solution is based on shear pins. In case of overload, the anvil and the grate will open and let unwanted material fall through. All movements are internal. The power is simultaneously cut by limit switches attached to the hatches held up by shear pins. Returning from safety system deployment to normal operation is a simple matter of replacing the shear pins.

Rebuildable wear parts

The wearing parts of the machine are the anvil, grate and cutter knives, all of which can be refurbished or sharpened for prolonged service. . Apart from designated wearing parts, the overall structure of Saalisti Cutters is resilient enough to withstand decades of operation without noticeable wear and tear. The parts that need to be periodically replaced are easy to access through hydraulically operated hatch.

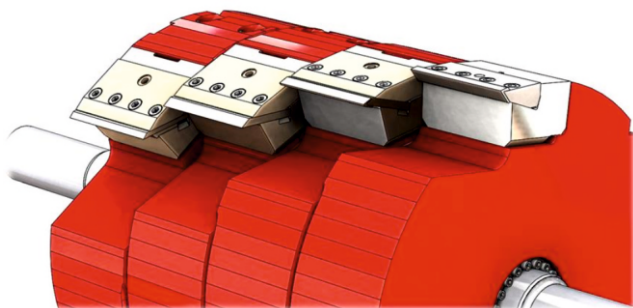
Technical data

Long tool life, excellent cut

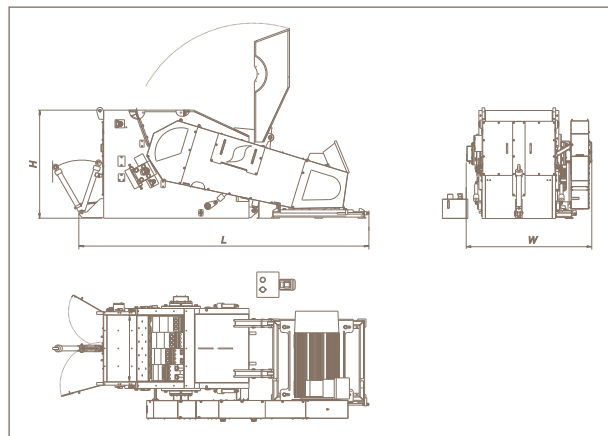
Saalasti Cutter is available in many sizes for different material flow rates, well over 300 loose-m³/h. The prime feature to make Saalasti Cutter suitable for demanding bark size reduction, and especially for eucalyptus bark, is the specially designed cutting tool. The overall cutting process is optimized for uniform cutting precision. Eucalyptus bark processed with Saalasti Cutter V minimizes the "fluffy" wool-like characteristic, that can cause severe problems in material handling, combustion process, etc.

Before and after:

Eucalyptus bark is cut to uniform particle sizes with precision - fraction of "fluffy" bark is negligible.



Solid steel rotor is equipped with choice of cutting tools, matched for different materials and operating parameters. All cutting knives and bars can be refurbished and sharpened.



Saalasti Cutter		0906	0909	0912	0915	1212	1215	1218
Rotor diameter	mm	900	900	900	900	1200	1200	1200
Rotor width	mm	600	900	1200	1500	1200	1500	1800
Length, overall	mm	4890	4890	4890	4890	5870	5870	5870
Width, overall	mm	1840	2140	2230	1530	2240	2540	2540
Frame width	mm	712	1010	1308	1606	1308	1606	1906
Height, overall	mm	1290	1290	1290	1290	2000	2000	2000
Infeed opening width	mm	620	918	1216	1514	1216	1514	1814
Infeed opening height	mm	695	695	695	695	875	875	875
Outfeed opening width	mm	620	918	1216	1514	1216	1514	1814
Outfeed opening length	mm	1870	1870	1870	1870	2320	2320	2320
Overall weight (without motor)	kg	8000	10000	11500	13500	21000	26300	29600
Motor power, spruce bark	kW/1500 rpm	160	200	250	315	400	500	630
Motor power, eucalyptus bark	kW/1500 rpm	200	250	355	450	800	1000	1260
Rotor rotating speed	rpm	900	900	900	900	700	700	700
Particle size		P45 - P63 →				P63 - P100 →		
Capacity, spruce bark	m ³ , l-vol/h	60	100	135	170	250	300	350
	t/h, fresh	15	25	33	40	55	65	78
	t/h, dry	5	9	11	14	19	23	27
Capacity, eucalyptus bark	m ³ , l-vol/h	32	56	80	104	184	232	280
	t/h, fresh	11	20	28	37	63	80	97
	t/h, dry	4	7	10	13	23	29	35

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