

Reclaim Crusher

Cost cutting after production



- **Robust heavy duty design**
- **Split screws for easy maintenance**
- **Reclaim boards up to 4m in length**
- **Handles dry and wet boards**
- **Handles sticky and friable materials**
- **Static and rotating knives**
- **Easy change of knife arrangement**

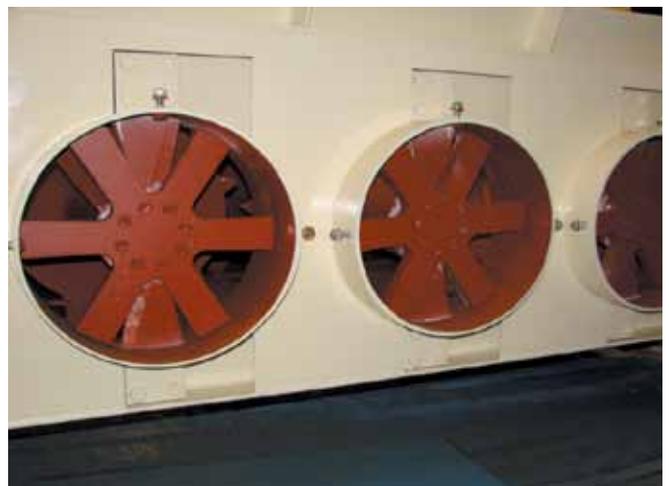
Proven technology to efficiently reclaim waste and reject wallboard

Recycling wallboard is now an every day part of cost reduction on many production lines. Claudius Peters offers a range of reclaim crushers specifically designed to process waste wallboard accumulated during the production line start-up. They consistently deliver board size reductions of < 100 mm for all types of material, including sticky and wet or friable and dry boards.

The crusher consists of a heavy duty housing in which a number of slowly counter-rotating screws are mounted. Each screw is driven by an electric motor through a shaft-mounted gear reducer. A PLC-based control system provides the flexibility to program a wide variety of screw operating sequences which control each screw independently.



Claudius Peters Reclaim Crusher with 4 screws.



Restrictors with fixed and rotating knives.

Reclaim Crusher

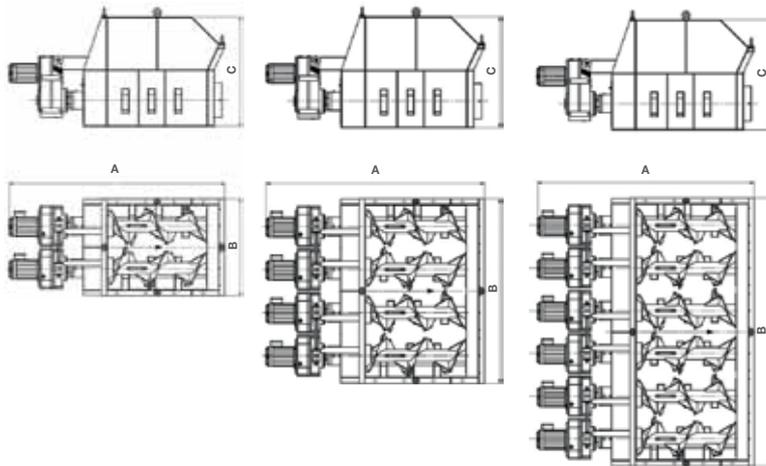
Waste material enters the top of the machine and is crushed by the screws as it moves toward and through the outlet restrictors located at the discharge end of each screw. The restrictors consist of a stationary knife and an additional rotating knife attached to the end of the screw shaft. The screws push the material through the restrictors where these knives slice and shred the material.

The Claudius Peters Reclaim Crusher has a receiving hopper capable of handling complete sheets of wallboard up to 4m in length (depending on the machine size). A series of toothed augers in the bottom of the hopper rip and tear the wallboard by turning slowly and periodically reversing. The reduced

wallboard pieces are then transported to the discharge outlets where the fixed and rotating knives further reduce the particle size and separate the gypsum from the paper.

The screw stops its forward movement when the transport volume is too high, when the resistance between the static and the rotating knives increases the motor load beyond a fixed point or when triggered by a timer within one of five feeding programs.

For ease of maintenance each screw is designed to be changeable in two pieces – the screw or the bearing unit. In this way it is possible to install and dismantle the screws without having to cut off or weld on the tears on the rips.



Claudius Peters is able to offer three different crusher sizes with the following technical data

Property		2 Screw Crusher	4 Screw Crusher	6 Screw Crusher
Capacity	[t/h]	5	10	15
Max. feed size	[mm]	1.500 x 1.200	1.500 x 2.400	1.500 x 4.000
Max. shredded output size	[mm]	< 100	< 100	< 100
Aggregate dimension A x B x C	[m]	3,5 x 1,6 x 2,0	3,5 x 3,0 x 2,0	3,5 x 4,4 x 2,0
Hopper opening dimension	[m]	1.9 x 1.5	1.9 x 2.9	1.9 x 4.3
Aggregate weight	[t]	7,4	14,8	22,2
Hopper volume	[m³]	3,7	6,4	10,8
Installed power	[kW]	37	74	111
Loading options		Front loader, fork lift and conveyor		
Screws, replacable		DN 530 Screws with cast rips and tears		
Knives		Series of fixed and rotating knives		



Discharge restrictor.



One geared motor for every screw.



Simple screw installation or removal.



Screw bearing unit.



Scrap wallboard.



Crushed wallboards.



A Langley Holdings Company

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