

BOREMA PET flattener, type R-1200 F, yoc 2013, for PET bottles of 0,3 to 2,5 l and HDPE packages up to 3 l, throughput rate approx. 3 t/hour



Due to the chassis, the PET flattener can be moved into the feed chute of your baler as required, thus ensuring residual emptying, venting and pre-compaction of the fed bottles and canisters. When the material is changed, the PET flattener is simply moved out of the feed chute again and paper, cardboard, film, etc. can now be pressed further without using the flattener.

Technical data of the PET bottle flattener (successor of the PET bottle perforator):

Manufacturer BOREMA Umwelttechnik AG

Type R-1200 F (with trolley for retracting and extending)

Year of manufacture 2013

Drive power 11 kW

Connected load 15 kW

Rated current 32 A

Back-up fuse 40 A

Type of construction Continuous system

Function Double rotor press system

Rotor pretension pneumatic approx. 16 t

Overload protection by anti-blocking system

Input material PET disposable and returnable empty bottles 0.3 to 2.5 L capacity

Input material HDPE bottles and canisters up to 3 l capacity

Throughput capacity approx. 3 t/hour, corresponding to approx. 85,000 bottles/hour, depending on size

Required compressed air output G1/2", 8 bar, 40 L/minute

Compression ratio 1:3

Flange dimensions inside 972 x 1,220 mm (L x W)

Feed opening 565 x 1,280 mm (L x W)

Weight approx. 2,500 kg

Possible applications:

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When the material is changed, the PET flattener is simply moved out of the feed chute again and paper, cardboard, film, etc. can now be pressed further without using the flattener. The undercarriage is available, but the pneumatic cylinders for extending and retracting are not included.

Process of the BOREMA PET flattener:

The plastic packages are drawn in by two rotating shafts. One of the rotating shafts is pneumatically pretensioned by two air bellows and presses the PET bottles with 16 t of pressure against the second rotating shaft. In the process, the closed plastic bottle is squeezed together, caused to burst and vented. Residual liquids run out and the material falls into the baler in a precompressed state. When impurities are introduced, the pneumatically pre-tensioned shaft deflects to the side and the impurities are channeled through.

Significant advantages compared to conventional PET perforators with punching mandrels or knives:

The BOREMA process is much more efficient and less subject to wear than conventional PET perforators with punching mandrels or knives. The biggest advantage is that any foreign matter such as metal parts, stones, bottles with frozen contents and pieces of wood are passed through the pneumatically deflecting rotor shaft without stopping the operation of the system or causing any major damage. With conventional perforators, mandrels or blades sometimes break off or become so jammed with the interfering material that the plant has to be shut down and repaired at great expense.

Remarks:

The documentation (BA, CE, electrical/hydraulic circuit diagram) is complete. An inspection is possible by arrangement. We do not assume any liability for the technical data and possible errors.

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