

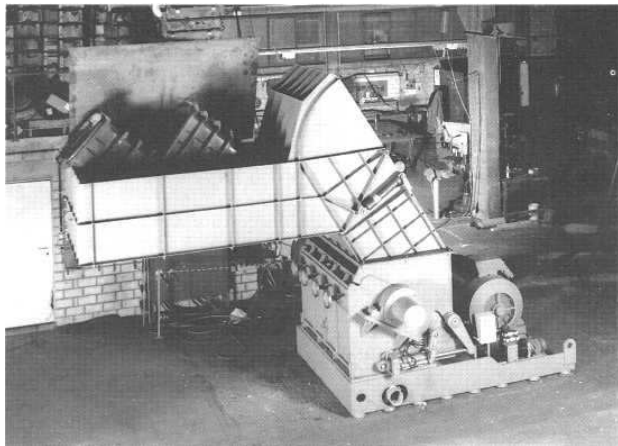
Feed-device for Standard Granulators



The feeding of voluminous pieces of material into size reduction units, e.g. garden furniture, oil tanks for heating units, large tubing or bundles of tubes, bundles of profiles (in crates) causes enormous problems.

In many cases, particularly where crates or packaging are used it is necessary to separate the material before it can be fed into the granulator. This increases the costs for personnel and reduces the throughput of the unit considerably.

A further problem is the feed-opening to the unit. Due to the size of the material there is often no safety device to prevent operating personnel from falling into the machine or to stop material fragments from getting thrown back out through the opening.



HERBOLD has developed a new type of feed device which solves these problems in a surprisingly simple manner. The material, fed in bundles is separated and fed into the granulator in portions. The grinding chamber is hermetically enclosed as soon as the feeding process commences.

The sketch (see Page 2 of this Information Sheet) shows all the details of this unit. A hinged feed container operated hydraulically is fitted to the slightly inclined feed hopper. The container can be fitted with a cover (optional). During the lifting process the material slides on to a baffle plate which has the same radius as the turning surface of the feed container. A corresponding baffle-plate on the hinged side ensures that the grinding chamber is sealed off prior to grinding. The feed angle of the container



depends on the material to be processed.

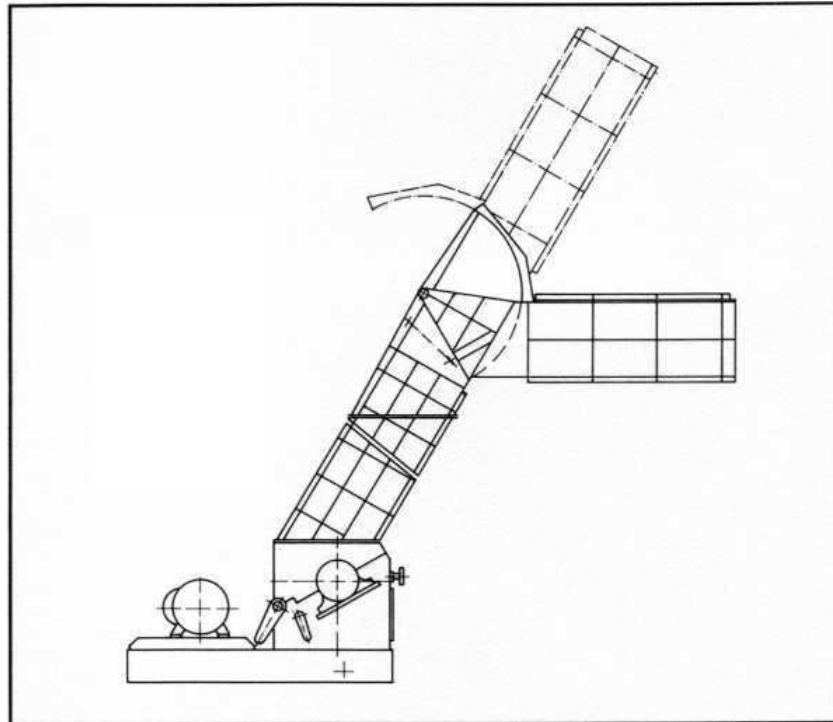
For material that can be separated, e.g. window profiles or garden furniture (table-tops), feeding to the granulator takes place in layers. The speed of the feeding process is determined by a control device fitted to the unit. The power consumption of the granulator motor regulates the movement of the feed container via the controller. Once a preset power consumption limit is reached, the container will automatically stop the feeding process. The process will be restarted again, as soon as the power consumption has dropped to a preset minimum value.

The feed container can be constructed to suit customer-specific crates, e.g. crates for profiles, so that the crates can be placed directly into the container without having to be emptied first.

Profiles and tubing are fed to the unit from the side, whereas waste from injection moulding and other voluminous material are fed from the front.

The height of the unit with this feed system is surprisingly low. The small and medium sized units can be operated at normal working height without the necessity of a pit.

If required a protective grid can be supplied for the area under the hinged feed container.



The advantages of the feed device described above:

- Saving of personnel costs since crates and packaging need not be handled manually, nor is a separation of the material necessary.
- High standard of safety because the feed opening is protected; no danger of a person falling into the granulator or of material being thrown back out.
- High throughput since the capacity does not depend upon the working speed of an operator.
- An optimum noise protection as the main source of noise (feeder opening) is completely sealed off during the granulating process.



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