

In Line Recycling of Scrap on Film Production Units

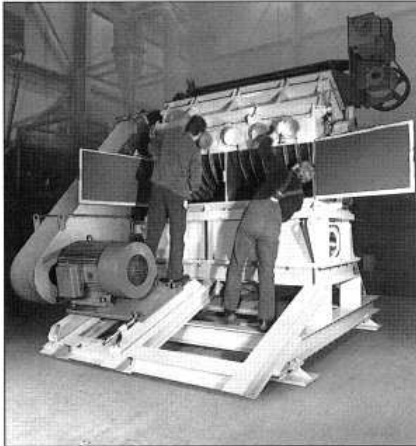


HERBOLD has developed a new concept for the recycling of production scrap.

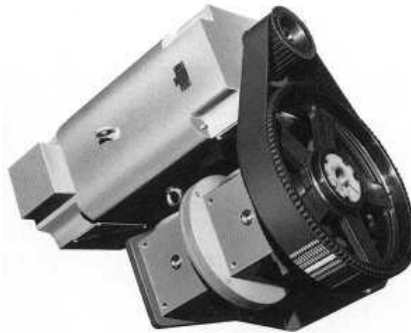
This involves the collection of the scrap at the machine where it is being created, automatic size-reduction and storage of the film flakes in silos. Then it is possible to dose the flakes directly back into the production line or to feed them to a regranulating unit for processing.

The main advantage of this form of in line recycling: it is not necessary to store the scrap film, it will not get dusty or soiled - and this ensures that the flakes are absolutely clean. Even scrap from the thinnest biaxially stretched film can be re-fed into the production process.

This new method of recycling is also very economical. As opposed to systems employed in the past - complicated winding up of the reject film, cutting up and manual dosing into the recycling line - in line recycling enables great savings to be made on personnel costs, power and space.



Granulator opened



Nip roll drive

The speed of the nip roll drive is synchronized with the film production line. Blockages and tearing that could effect the film production line are avoided.

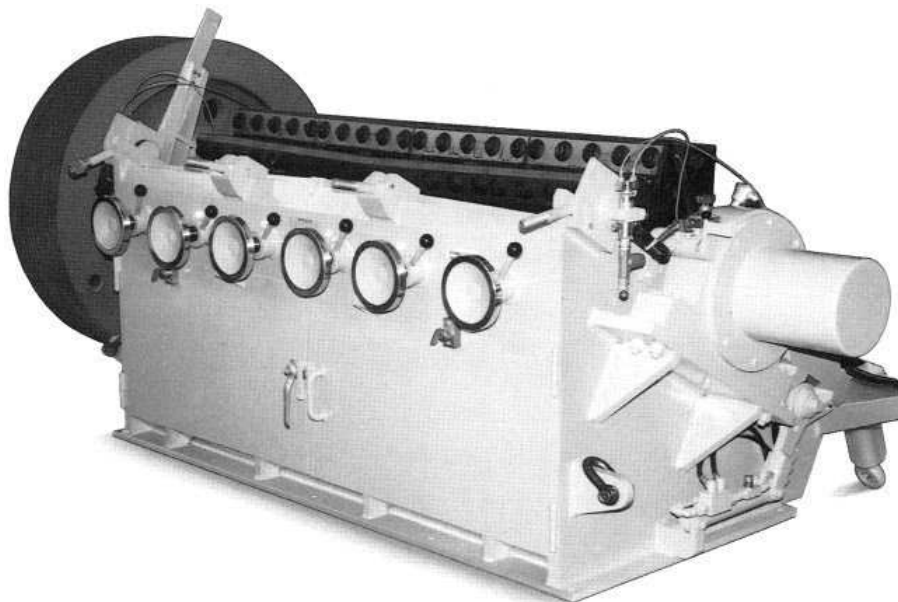


Nip roll device

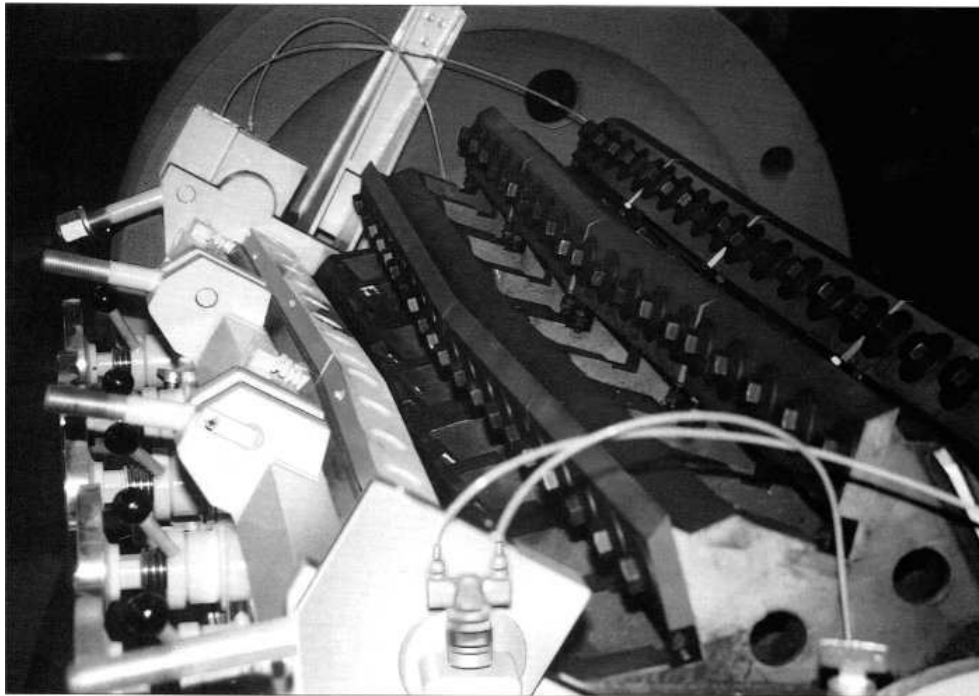
The illustrations show the nip roll device and its drive.

The rollers which are constructed to ensure that the edge trim is gripped firmly during in line operation are clearly visible.

The pulling forces from the cutting chamber are compensated for by the rollers.



Granulator housing (lower section)



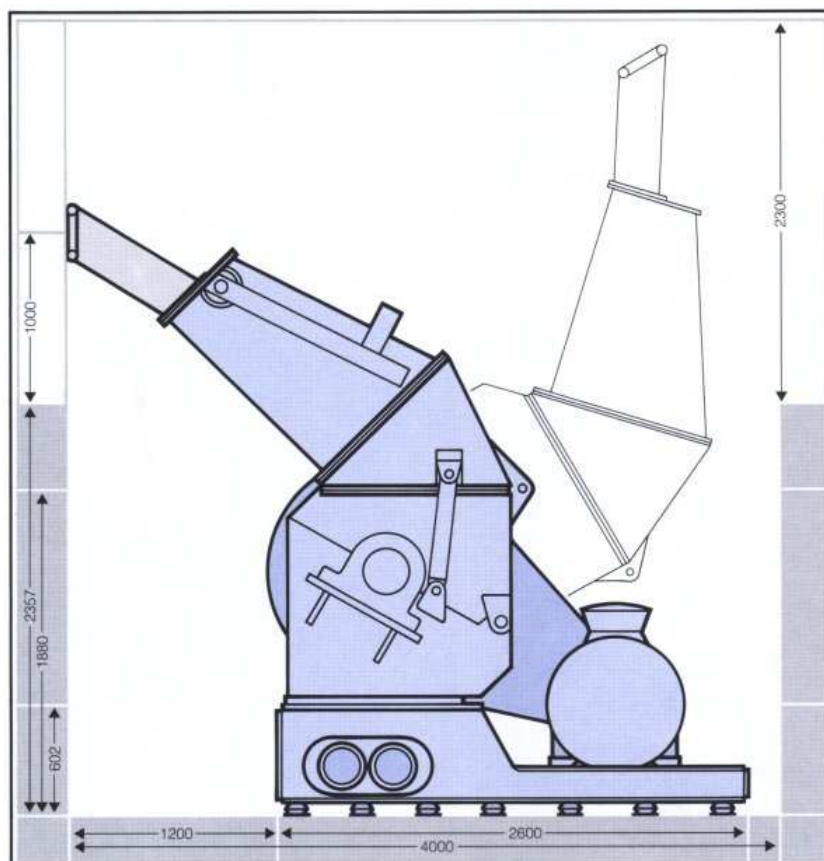
View into the cutting chamber with the rotor

In the past, the unfavourable snatch characteristic of the rotor when continuous film is being fed into the granulator prevented the development of an in line concept. HERBOLD has been able to solve this problem with the development of a new type of cutting geometry. This allows for a non-snatch "gentle" feed which is an important feature of these granulators. Even very thin film can be fed directly into the granulator without the fears of tearing and thus reducing the risk of an accident.

The SMS granulators are the largest in line granulators that have ever been built. A throughput of 5000 kg/h can be achieved on a unit with a working width of 2000 mm. HERBOLD supplies the SMS model 80/200 granulator complete with pneumatic conveyors, silos, extract air filtration and feed device.



Hopper



Layout drawing SMS 80/200

Summary of SML models

Type	Feed opening* height x width mm	Rotor-Ø mm	Drive kW	Weight** appr. kg	Throughput*** appr. kg/h
SML 45/120	600 x 1154	450	22 - 75	4800	1500
SML 60/100	750 x 980	600	22 - 75	4600	1800

The model in bold print is manufactured as a standard and can be supplied at short notice.

* Flange dimensions - upper section ** Basic machine without suction unit or sound protection *** Throughput dependant on type of film, its thickness and the screen size of the machine.

Summary of SMS models

Type	Feed cross section* height x width mm	Rotor-Ø mm	Drive kW	Weight** appr. kg	Throughput*** appr. kg/h
SMS 80/120	940 x 1154	800	75 - 200	9000	3000
SMS 80/200	940 x 1960	800	90 - 200	15000	5000

The model in bold print is manufactured as a standard and can be supplied at short notice.

* Flange cross section - upper section of housing ** Basic unit *** Throughput dependant on type of film, its thickness and the screen size of the machine.

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