



RECYCLING OF PLASTIC WASTE

Shredding, cutting, washing, drying, separation, conveying, storage



HOSOKAWA ALPINE

Process technologies for tomorrow.

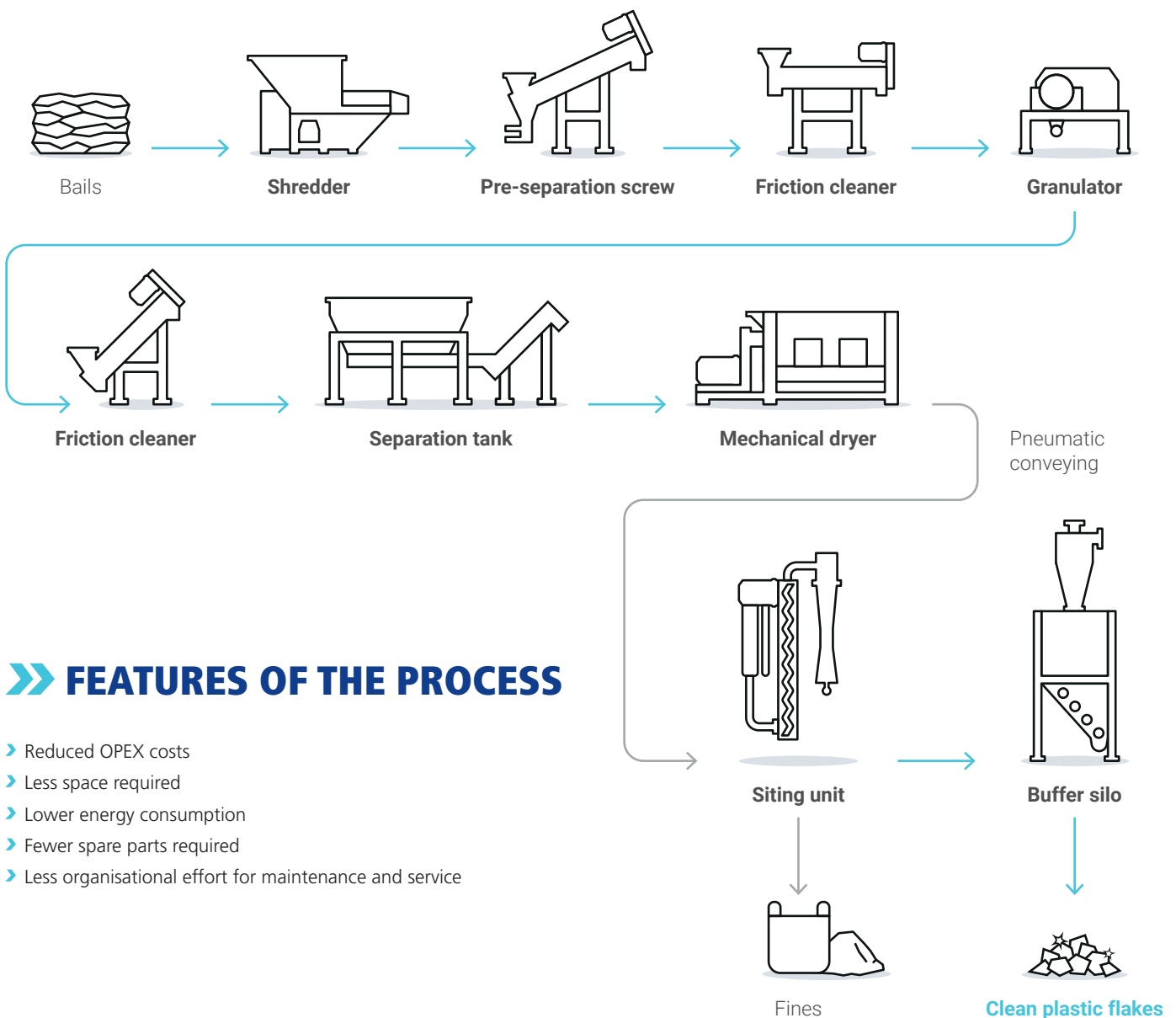
POST CONSUMER RECYCLING (PCR)



Making plastic waste usable again

Shampoo bottles and cosmetics packaging, sausage and cheese packaging, plastic bags, cling film - they all end up in the recycling bin or are delivered directly to recycling centres. The aim is to recycle as much of this packaging waste as possible and return it to the cycle. If this waste comes from private households, the process is referred to as post-consumer recycling (PCR). The recycling of waste from production

residues in the manufacture of plastic packaging or products, on the other hand, is known as post-industrial recycling (PIR). A new process from Hosokawa Alpine now ensures that the plastics from this packaging waste can be reused as post-consumer recycle. The shredding, washing, separating and drying steps produce washed and dried flakes that can be used to manufacture new plastic products.



FEATURES OF THE PROCESS

- Reduced OPEX costs
- Less space required
- Lower energy consumption
- Fewer spare parts required
- Less organisational effort for maintenance and service

» ROTOPLEX GRANULATOR

Granulator

- › Size reduction to the desired size
- › Suitable for wet & dry application
- › Capacity up to 8,000 kg/h
- › Unique cross scissor cut and open rotor design for economical operation



» FRICTION SEPARATOR

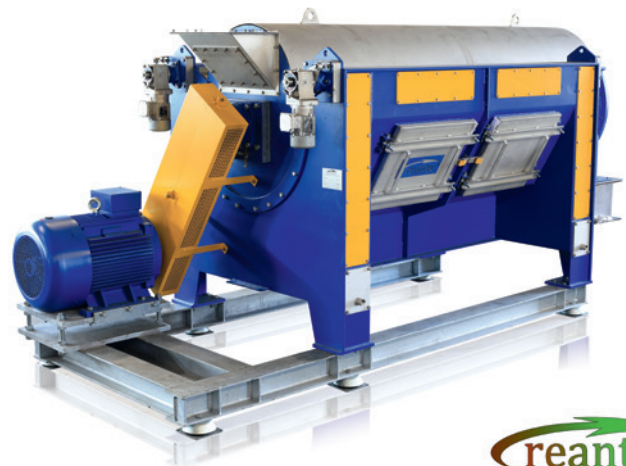
Washing & dewatering prior to drying of plastic flakes

- › Installation horizontally or up to an angle of 40 degrees
- › Special sealing and bearing of the shaft for a tight design
- › Very durable thanks to wear-protected bearings

» MECHANICAL DRYER

Moisture reduced to a minimum for further processing

- › Innovative self-cleaning system
- › Minimum wear of rotoblades and screen segments due to improved conveying design
- › Easy blade replacement
- › Access to complete rotor chamber





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Any questions? Just call – we are happy to help.



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