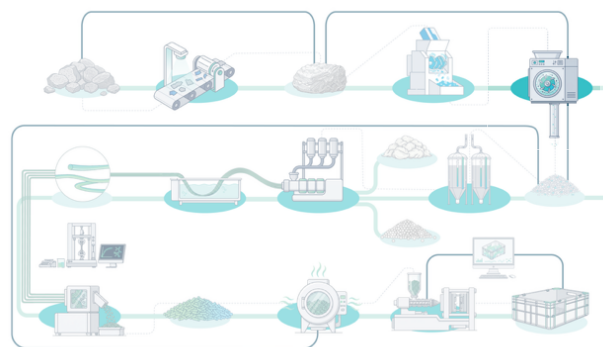


Name:

Mill / Granulator



What is it?	While the shredder relies on brute force to break down large PP parts, the granulator mill provides them with the final uniform geometry and size required for stable feeding and processing. Unlike the shredder (which works at high force and low speed), the granulator operates at high rotational speeds (between 400 and 1,000 RPM) using pure shear cutting.
What is it for?	This equipment receives the irregular PP pieces from the shredder into the cutting chamber, where a rotating rotor equipped with blades continuously slices the fed plastic into small, flat, individual flakes measuring between 4 mm and 12 mm. An interchangeable perforated metal screen located beneath the rotor acts as a sieve to determine the maximum permitted size. Only flakes that are small enough pass through the holes; larger pieces continue rotating in the cutting chamber until they reach the correct size.
At what stage of the recycling process is it located?	This milling process to obtain small, uniform PP flakes is a critical requirement for downstream steps, as it facilitates washing to remove labels, adhesives, or organic contaminants, and ensures constant feeding, as the compounding extruder's gravimetric feeder requires a continuous, blockage-free flow—something achieved only with uniform flakes or pellets.

