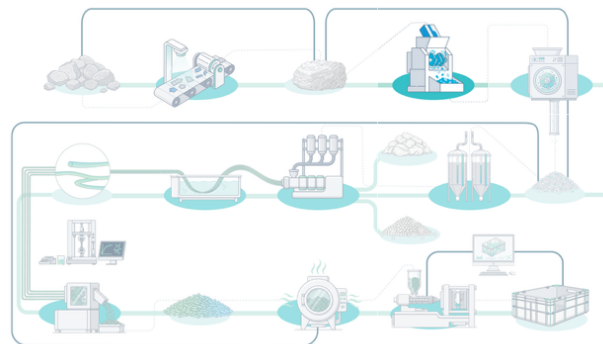


Name:

Shredder



What is it?	The shredder is the primary size-reduction equipment. Unlike a standard granulator mill (which cuts with high-speed blades), the shredder operates via a high-torque, low-speed mechanism. The main operating features of the shredder are as follows: • It is equipped with one or two heavy rotating shafts featuring hard steel cutting teeth. Its aim is to break, tear, and reduce large PP parts into small pieces, typically ranging between 20 mm and 80 mm in size, regardless of the thickness of the starting material. • At the bottom, it features a perforated screen. Shredded pieces rotate inside the shredding chamber until they are small enough to pass through the mesh holes and fall into the next stage, where they will be reduced to the desired size using granulator mills.
What is it for?	To break, tear, and reduce large polypropylene (PP) objects into coarse pieces measuring between 20 mm and 80 mm, regardless of initial wall thickness.
At what stage of the recycling process is it located?	At the primary size-reduction stage, situated immediately after optical sorting and before secondary granulation.



