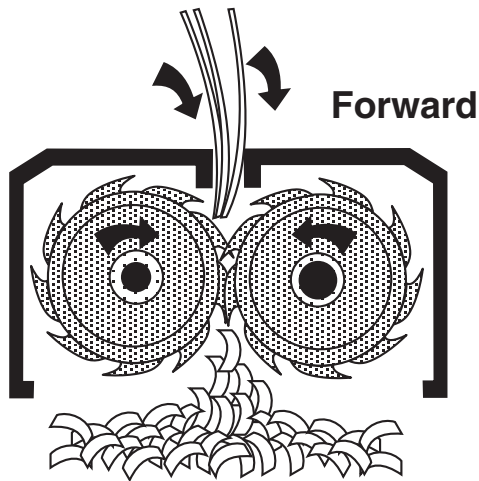
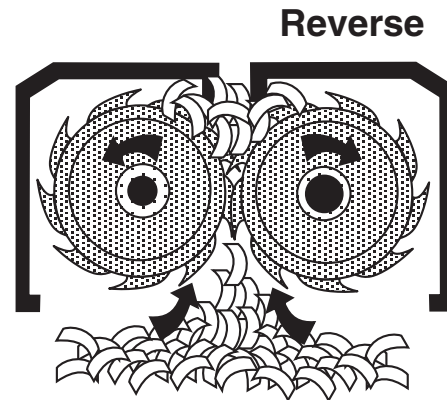


Traditional Cross-Cut Engines

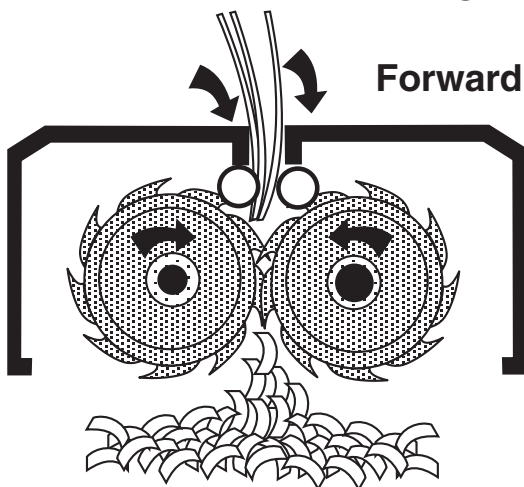


Paper is fed through the shredder opening. The shreds fall into and pile up inside basket. Ultimately high enough to touch the cutting blades.

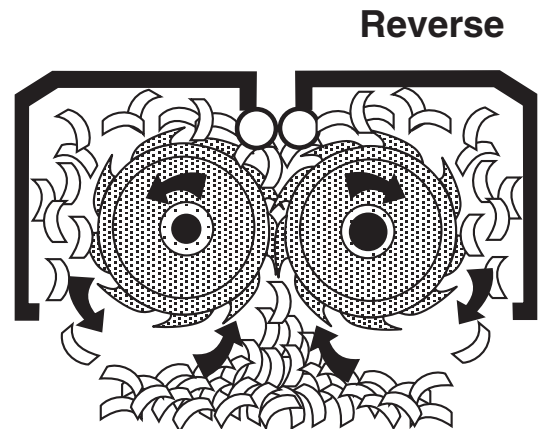


If a jam occurs, the engine rotation must be placed in reverse manually. The blades grasp the shreds from the basket and pull them back up blocking the shredder opening, which must be cleaned before normal shredding can resume.

ROYAL's Patented Jam Free/ Clog Free Cross-Cut Engine with Smart Chip Technology



Paper is fed through the shredder opening. The clog free rollers open to let the paper pass through into the cutting blades.



If a jam occurs, the engine rotation reverses automatically. The clog free rollers remain closed which block the shredder opening. As the blades pull the shreds from the basket, the rollers divert the shreds around the top of the blades and force them back down the return chambers and back into the basket. This keeps the shredder opening clean and clear for the next shredding operation.