



SPC-75S PULPER

DESCRIPTION

GENERAL - The SOMAT® Pulper:

The main body of the Pulper is composed of the shell weldment and the slurry chamber, Figure 1 (A). A drive motor (B) is mounted to the underside of the slurry chamber weldment. The drive shaft is fitted with a mechanical seal (C) that prevents slurry liquid from leaking into the drive motor. Above the mechanical seal an impeller assembly (D) is keyed to the drive shaft. The impeller is surrounded by a perforated stainless steel sizing ring (E). This ring controls the particle size of the solids entering the slurry chamber. A stainless steel junk box (F) is located inside the Pulper shell. The entire Pulper assembly is supported by stainless steel legs (G) with threaded adjustable feet.

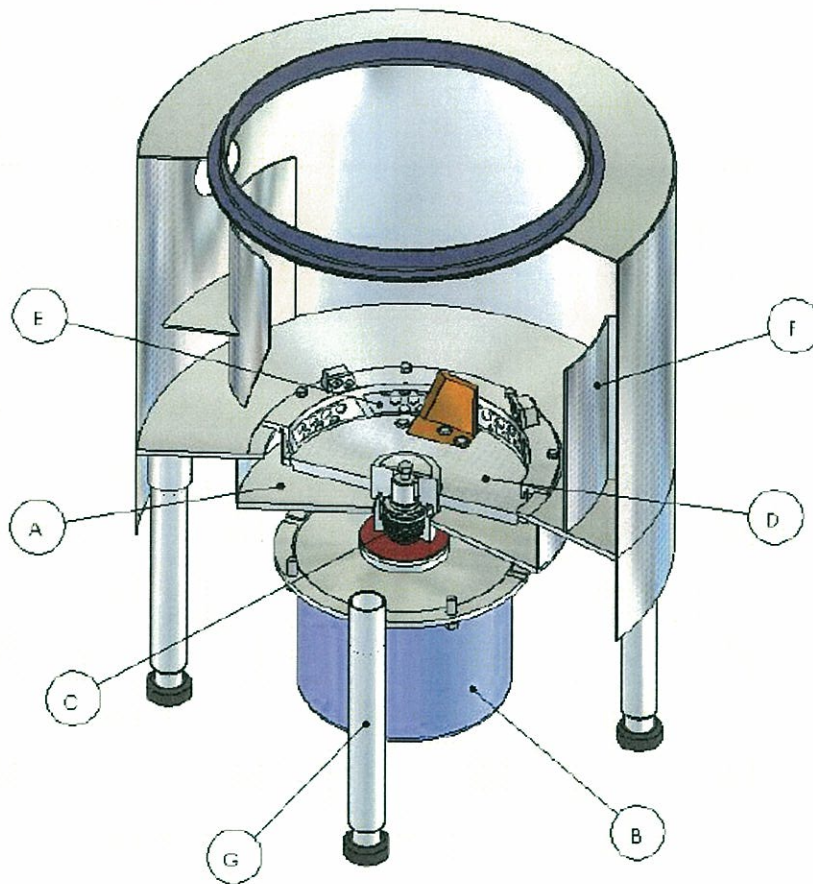


FIGURE 1. TYPICAL PULPER GENERAL ARRANGEMENT

COMPONENT REMOVAL AND REPLACEMENT - The following steps are required in the removal and replacement of major components, assemblies, or piece parts necessary for corrective action. **NOTE: Loctite #271 must be used during re-assembly on all hardware of the cutting mechanism assembly.**



SECURITY RING REMOVAL -

- Remove mounting nuts and lift Security Ring Assembly (8) out of machine.

REPLACEMENT OF SECURITY RING STATIONARY CUTTER BLOCK -

- Remove stationary cutter block mounting screws (10) and replace stationary cutter block (9). Shim if needed to a clearance of 0.005” to 0.010”.

IMPELLER REMOVAL -

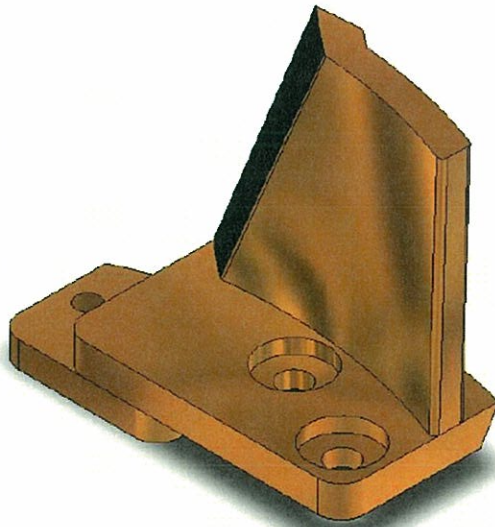
- Remove impeller hold down bolt (2) and carefully remove the impeller assembly (1) from the motor drive shaft with an impeller puller (Somat® P/N 84150). Remove key (5) from shaft.

IMPELLER CUTTER EAR REPLACEMENT -

- Remove three bolts (7) that hold impeller cutter ear (6) to impeller (1).
NOTE: Screws may be loosened by gently heating with a propane torch.

IMPELLER CUTTER EAR RE-SHARPENING-

Rotating blades may be re-sharpened as cutting efficiency decreases. Remove impeller as described above. Remove attaching hardware for cutting ears. Using a gloved hand, firmly grasp blade and with an angle grinder, grind a new edge on interior of blade only. Interior of blade will face center bolt of impeller. The picture below has the edge to be resurfaced highlighted in black. DO NOT grind on opposing side of blade as this will reduce or impair any cutting ability.



Grind ONLY on area highlighted in black