

Silverson Inline Mixing Pump

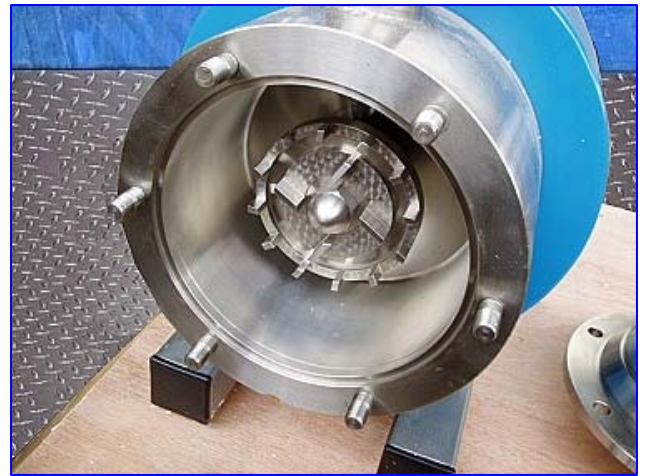
Mfg: Silverson

Model: 275/400MS

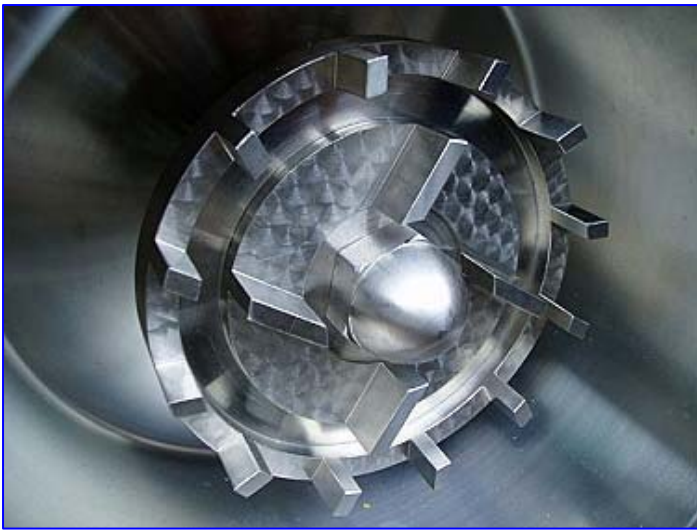
Stock No. DBBP3421.29

Serial No. 275/40B1007

Silverson Inline Mixing Pump. Model 275/400MS. S/N 40B1007. 230/460 V, 3 phase, 50/60Hz. Single mechanical seal. Baldor ID15H201-E adjustable speed drive controller. Motor: 10 hp, 3430 rpm, 209-230/460 V, 24/12 amps, 60 Hz, 3 phase. Inlets/outlets: 2 in. tri-clamp. (2) Rings of blades: 1st ring: 4 blades, 2nd ring: 12 blades. Inlet: from 2 in. 'S' line to 1-1/2 in., Outlet: 2 in. 'S' line. Overall dimensions (mixer): 28 in. L x 13 in. W x 16 in. H. Overall dimensions (speed drive): 8 in. L x 7 in. W x 14 in. H. Mixer emulsifies, homogenizes, solubilises, suspends, disperses and disintegrates solids. Can reduce cutting/processing times by up to 90%, improving quality, product consistency and process efficiency. Mixer requirements: 230/460 V, 60 cycles, 3 phase. Workheads, high shear screen, mesh size: 0.01 in. Configuration and fine internal tolerances stator provide exceptionally high shear rates ideal for rapid size reduction of soluble and insoluble granular solids. Also suitable for preparation of emulsions, gels and thickeners, and fine colloidal suspensions.

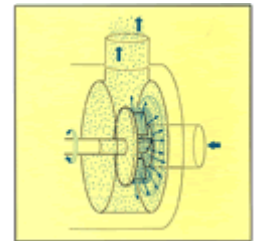
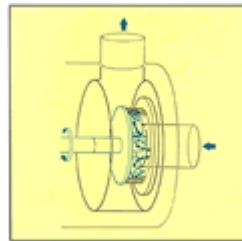
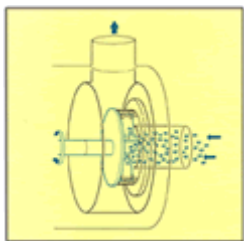






Stage 1.

The high-speed rotation of the rotor blades within the precision machined mixing workhead exerts a powerful suction, drawing liquid and solid materials into the rotor/stator assembly.



Stage 2.

Centrifugal force then drives the materials towards the periphery of the workhead where they are subjected to a milling action in the precision machined clearance between the ends of the rotor blades and the inner wall of the stator.

Stage 3.

This is followed by intense hydraulic shear as the materials are forced, at high velocity, out through the perforations in the stator, then through the machine outlet and along the pipework. At the same time, fresh materials are continually drawn into the workhead, maintaining the mixing and pumping cycle.