A Fraction of the Cycle Time

Charles Ross & Son has designed its patented MegaShear ultra-high-shear inline rotor/stator mixer for high-volume and high-throughput de-agglomeration, emulsification and homogenization requirements. According to the company, the MegaShear additionally grants:

- The ability to generate complex flow patterns by running the rotor at tip speeds over 11,000 FPM, subjecting the material to thousands of intense mechanical and hydraulic shearing events in a single pass.
- High-velocity pumping vanes and precisely machined semi-cylindrical grooves in which the product splits into different streams and collide at high frequency before exiting the mix chamber.
- The capability to produce very fine emulsions and dispersions at a fraction of the cycle time.
- A mix chamber that can withstand a 150-PSIG internal pressure at 250°F.
- A cartridge-type double mechanical seal with a barrier system.
- The avoidance of clogging, sensitivity to viscosity changes, time-consuming cleanups and intensive maintenance.
- 316 stainless steel wetted parts polished to a 150-grit finish.
- Availability of 3-, 6- and 9-inch (dia.) rotors.
- Suitability for a range of applications, from food sauces and condiments to juices and flavors to pharmaceutical emulsions and cosmetics to nanocomposites and chemicals to inks and coatings to adhesives, polymers and lubricants.

- Optional gas seals, sanitary connections, clean-in-place features and heating/cooling jackets.

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