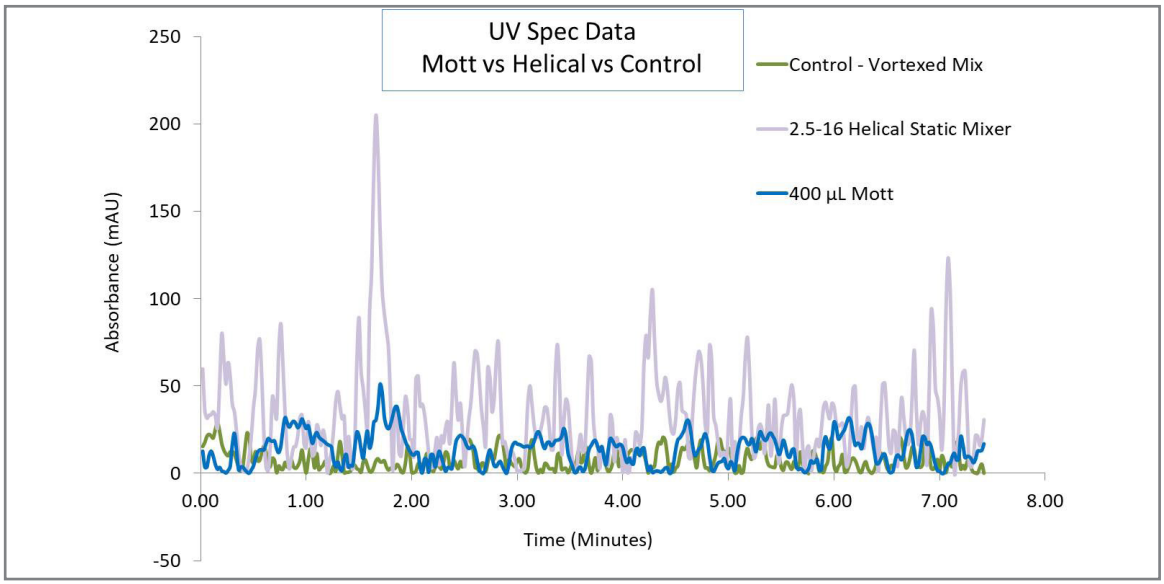
CUSTOMIZABLE IN-LINE STATIC MIXERS WITH PROVEN PERFORMANCE FOR BIOPROCESSING

mott
MISSION CRITICAL PRECISION

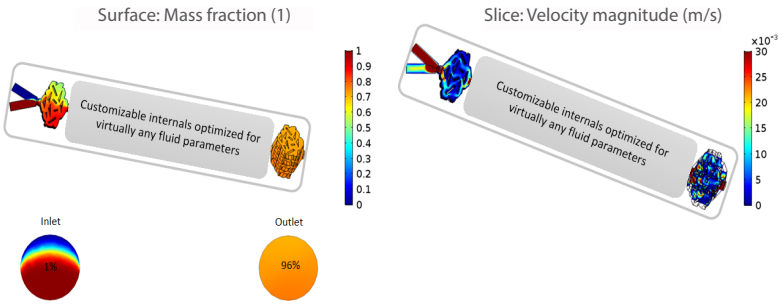
Mott proprietary and customizable **3D PRINTED STATIC MIXERS** outperform traditional helical static mixers in bioprocessing and other pharmaceutical applications **UP TO 3X MORE EFFICIENT WITH LOWER RESIDENCE TIME AND INTERNAL VOLUME**



Test Parameters:

1. Dye-containing water solution with blue food coloring (UV absorbance: 615 nm) at a ratio of 1:39 (dye:water) at rate of 0.1 mL/min
2. Aqueous solution of 1.25% (w/w) 250kD carboxy-methyl cellulose (CMC) with a viscosity of 800cP at a rate of 0.4 mL/min
3. Comparison Mixer - 2.5-16 style helical mixer
4. Mott Mixer 400 µL at 5" length

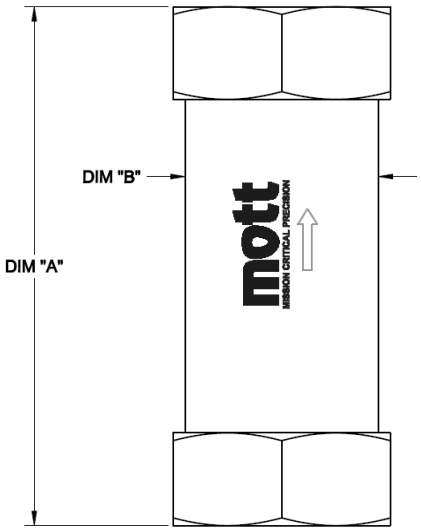
Mott uses CFD (Computational Fluid Dynamics) and State-of-the-Art Rapid Prototyping to meet your most challenging design and performance requirements quickly. For complete confidence in mixing streams with different flows, proportions and viscosities, you can count on Mott to get the job done right. Customized solutions are our speciaity!

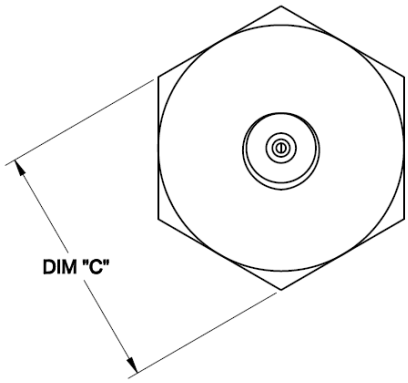


Example: Mott 250 µL Static Mixer

CUSTOMIZABLE PRODUCT SPECIFICATIONS

Internal Volume Range*	25 µL up to 2 mL
Material of Construction*	Passivated 316(L) SS, Titanium
Pressure Rating	Up to 20,000 PSIG / 1379 bar
Connection Type*	Female Compression, Single (Standard) or Dual Inlet
Connection Size*	Varies (Custom)
Dim "A" Range	1.35" / 34.29 mm up to 10.0" / 254 mm
Dim "B" Range	0.50" / 12.70 mm up to 2.0" / 50.8 mm
*Custom internal volume, material and connections available upon request	





BUILDING BLOCKS TO ENGINEER YOUR STATIC MIXER

We will work with you to engineer the best solution for your process requirements.

Mixing Solution Specifications
Material of Construction
Internal Volume
Connection Type
Flow Rate
Pump Specifications (if required)
Pressure Rating and Backpressure Limits
Mixing Efficiency Measurement Method