

# SHEAR-max

## High Shear Inline Mixer

**The ultimate in high shear mixing and dispersing**, meeting the tight tolerances required in high shear applications while maintaining extremely efficient flow.

**The curved wedge rotor and stator design** of the SHEAR-max make it one of the most efficient and hygienic designs on the market.

**Machined from 316L stainless steel bar stock** this mixer is built to last. Wash-down and CIP capability with optional chemical duty designs offered. Available in 7 model sizes with single and dual stage workhead combinations to meet application demands.



### WORKHEAD OVERVIEW

#### **SLOTTED WORKHEAD** – *(Standard Option)*

- High flow and high shear rate
- Most robust workhead for large solids or abrasive applications
- Ideal workhead for dispersions requiring high shear and disintegration of elastic and fibrous materials (polymers, and plant or animal tissue)
- This workhead is available with Standard Slots, Fine Slots or Knife Edge Slots.

#### **SQUARE SCREEN WORKHEAD** – *(Ideal for milling and grinding small solid particles)*

- Creates the highest amount of mechanical shear for particle size reduction
- Throttling the discharge in certain applications can increase the particle size reduction per pass
- Great for certain emulsions

#### **EMULSION WORKHEAD** – *(Designed to emulsify immiscible liquids)*

- Relies on a high differential pressure and velocity across the screen to create high hydraulic shear and break down of liquid droplets
- Flow restriction is not recommended for this workhead
- Lowest mechanical shear, will not break down hard solids
- Workhead is available as standard emulsion or fine emulsion

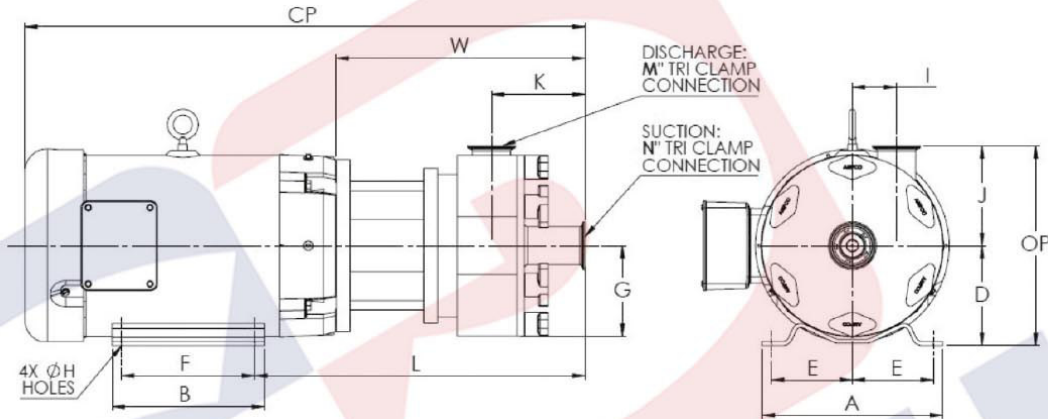
#### **GENERAL PURPOSE WORKHEAD** – *(High flow medium shear)*

- Excellent for dissolving and dispersing powders in liquids
- Allows some larger solids to pass through for some product identity
- Ampco offers other lower cost solutions to perform the same duties as the General Purpose workhead.



## PRODUCT SPECIFICATIONS

Model	Flow Rate (GPM)	Motor HP	Motor Speed	Rotor Tip Speed
SM1300	1 - 40	1-5	3,600	47 FPS
SM1437 / SM2437	30 - 150	5 - 10	3,600	69 FPS
SM1575 / SM2575	100 - 400	20 - 40	3,600	90 FPS
SM1700 / SM2700	300 - 800	50 - 100	3,600	110 FPS



MODEL	TEFC MOTOR			DIMENSIONS IN INCHES (For Reference Only)																Approx Weight (lbs)
	HP	RPM	FRAME	A (typ)	B (typ)	D	E	F	G	ØH	I	J	K	L	W	CP	OP	M	N	
SM1300	3	3500	145TC	6.5	6	3.5	2.75	5	3.75	0.343	1.57	4.35	4.51	13.51	10.63	22.67	7.85	1.5	1.5	127.8
SM1437/ SM2437	10	3500	213TC	9.5	8	5.25	4.25	5.5	4.75	0.406	2.32	5.25	4.91	17.35	13.08	29.44	10.5	2	2	215
SM1575/ SM2575	30	3500	286TC	12.75	12.84	7	5.5	11	6	0.531	2.81	7.20	6.18	18.5	14.75	37.89	14.20	3	3	565
SM1700/ SM2700	75	3500	365TSC	17	15	9	7	12.25	6.5	0.65	0	8.75	7.3125	22	16.1	43.69	17.75	4	4	1115

\* Weights represent fluid end + motors with SS enclosure



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