AMPCO APPLIED PRODUCTS

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 requring 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)*

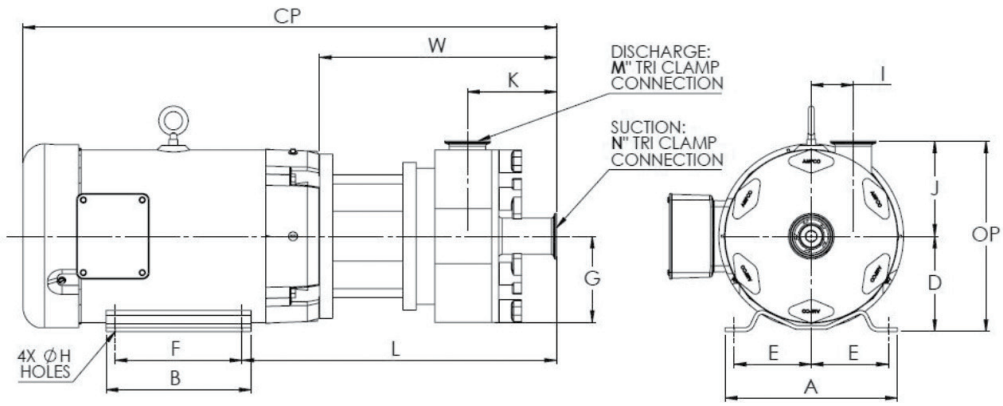
- Relies on a high differential pressure and velocity across the screen to create high hydraulic shear and break down of liquid droplets
- Flow restriction is not recommended for this workhead
- Lowest mechanical shear, will not break down hard solids
- Workhead is available as standard emulsion or fine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