



Our static mixers give you inline, continuous mixing and processing with no moving parts, no maintenance, and no external power.

Mixing Technologies' static mixers utilize process specific elements in a housing for continuous flow applications. The elements use the energy from the process stream to provide blending and dispersion with minimal pressure (energy) loss. The KMR-SAN allows for blending or dispersing liquids, gases or solids in a short length of pipe, while uniformly and quickly heating or cooling ingredients as required.

Clean in place (CIP) models will be installed with flow vertically downward or with the mixer at an angle greater than 45° to the horizontal to be fully 3A compliant. If a clean out of place (COP) model is acceptable, a horizontal installation is possible and is still 3A compliant.

Numerous applications in the food and pharmaceutical industry have built Kenics mixers' reputation for cleanliness and cleanability. A broad range of continuous mixing, dispersion and cooling applications have yielded considerable improvements in achieving efficient process results.

### Benefits

- No moving parts
- Clean in place
- Sanitary construction

### Standard Features

- Material of construction is 316L stainless steel
- Grooved ferrules are compatible with hygienic clamps
- Elements polished to a #4 sanitary finish. Housing is 16 gauge polished sanitary tubing (14 gauge for 4" units)
- Elements are removable

### Typical Applications

#### Blending

- Fruit Juice Concentrates
- Corn Syrup
- Flavorings
- Colorants
- Ice Cream
- Yogurt
- Cheese
- Peanut Butter

#### Dispersion

- Vegetable Oil/Acid
- CO<sub>2</sub> /Liquid Beverages
- H<sub>2</sub> /Vegetable Oil
- NaOH/Cotton Seed Oil
- Vegetable Oil/Water

#### Heating/Cooling

- Chocolate
- Corn Syrup
- Milk
- Fruit Juice
- Cheese
- Starch Solutions
- Margarine
- Salad Dressing

## Kenics Sanitary Mixer



KMR-SAN removable sanitary static mixer



Mixing Technologies is 3A  
compliant to mixer/blender  
standard 35-04

## Sanitary Mixer Models

### 6-Element Model

### 12-Element Model

Size	Model Number	O.A.L. (L)	Model Number	O.A.L. (L)
0.75"	3/4-KMR-SAN-6	6.375"	3/4-KMR-SAN-12	11.875"
1"	1-KMR-SAN-6	9"	1-KMR-SAN-12	18"
1.5"	1 1/2-KMR-SAN-6	14.5"	1 1/2-KMR-SAN-12	29"
2"	2-KMR-SAN-6	19"	2-KMR-SAN-12	38"
2.5"	2 1/2-KMR-SAN-6	22"	Consult Factory	
3"	3-KMR-SAN-6	27"		
4"	4-KMR-SAN-6	36.5"		

Kenics static mixers provide precise blending and dispersion of all flowable materials, without utilizing moving parts. Mixing is achieved by redirecting the flow patterns already present in empty pipe. Our static mixers are currently being used in numerous processing applications, in order to reduce overall cost and significantly improve efficiency, speed and control. Kenics static mixers can be found in a wide range of markets including chemicals, refining, polymers, plastics, food and beverage, pulp and paper, cosmetics, healthcare and water and wastewater treatment.



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