



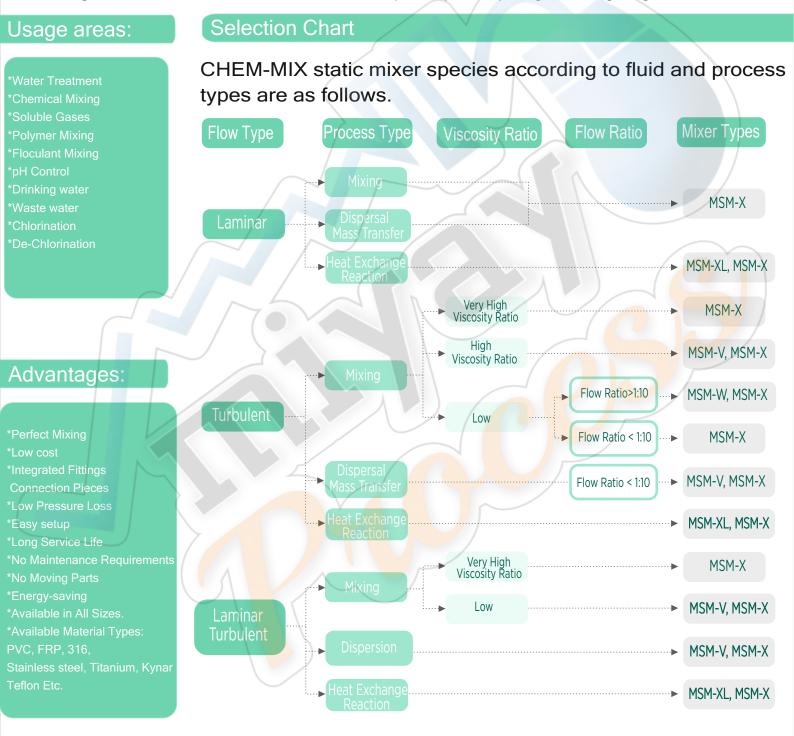
CHEM-MIX PROCESS EQUIPMENT MIXTURE AND REACTION TECHNOLOGIES

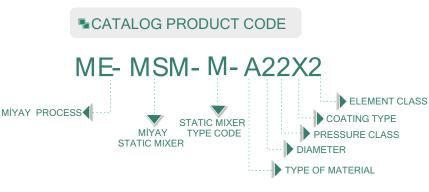
STATIC MIXER GENERAL CATALOG

CHEM-MIX PROCESS EQUIPMENT

MSM - STATIC MIXER

MIYAY CHEM-MIX static mixers; It is designed in accordance with customer needs in terms of innovative and high process efficiency. Delivery times are short. These mixers are produced with PTFE and PFA coating in accordance with carbon steel, stainless steel, polyethylene and special chemistry processes. MIYAY static mixers offer significant advantages in the mixtures of difficult to mix liquid-liquid, liquid-gas and gas-gas chemicals.

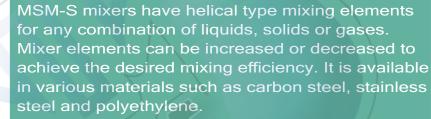


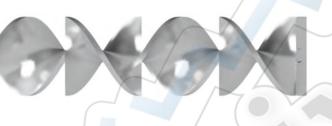


	MATERIAL D	NAMETER PI	RESSURE CLASS (COATING TYPE	NUMBER OF ELEMENTS
	A- Carbon Steel	1- DN 80	1- PN 10	X- No	1-1 Element
	B- AISI 304L	2- DN 100	2- PN 16	Y- PTFE	2-4 Elements
3	C- AISI 316L	3- DN 125	3- PN 25	Z- PFA	3-6 Elements
	D-AISI 904L	4- DN 150	4- PN 40	T- PP	4-8 Elements
	E- Polyurethane	5- DN 200	5- Special Product	K- Special	5-12 Elements
	K- Special Produc	ct 6- DN 250	Product	9- Special	
		7- DN 300			Product
		9- Special P	roduct		

MSM-S







	INDUSTRY	SCOPE OF APPLICATION	PROCESS		
	Water Treatment	Concentrated Acid Dilution	Liquid/Liquid Mixing		
	Oil and Natural Gas	Extreme Temperature Loop Reactors	Liquid <mark>/Gas Mix</mark> ing		
	Petrochemical	Acid Solvent Stripping	Liqui <mark>d Mixing Difficult t</mark> o Mix		
	Water Treatment	Disinfection Control	Liquid <mark>/Liquid Mixing</mark>		
	Chemical	Acid Mixing Reactors	Liquid <mark>/Liqu</mark> id Mixing		

MSM-V

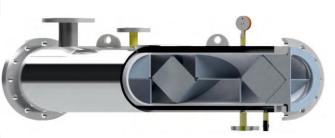


The MSM-V mixer is made of corrugated plates that form open intersecting channels through which the flow is divided into many sub-streams. The MSM-V mixer is especially used in turbulent and transitional flow regime to intensify mass transfer between immiscible fluids.



INDUSTRY	SCOPE OF APPLICATION	PROCESS		
Food	Pasteurization of Raw Cocoa Mass	Liquid/Gas Mixing		
Petrochemical	Stripping Gas Condensation with Methanol	Liquid Mixing		
Petrochemical and Gas	Glycol Gas Drying	Liquid/Gas Mixing		
Paper	Pulp Density Control	Liquid/Solid Mixing		

MSM-Q





and depending on process requirements the system can have a completely sterile coating. Removable mixer elements allow cleaning from the outside. It is very practical in processing high viscosity materials. Injectors and heating cooling jackets are also available.

MSM-Q mixers are easy to clean in a single CIP cycle

INDUSTRY	SCOPE OF APPLICATION	PROCESS			
Food	Yogurt/Fruit Blending Solid/Gel Mixing				
Brewing	Aeration of Wort	Gas/Liquid Mixing			
Pharmaceutical	pH Control of Fermentation Broth	Liquid/Pulp Mixing			
Soft Drinks	Carbonation of Drinks	Gas Dispersion			

MSM-W mixers are vortex mixers which designed for fully turbulent flow. Typically these are two mixing elements configured with an empty tube section between them, designed to form two large counterrotating vortices that provide intense mixing with very low pressure drop.

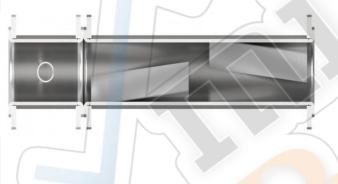
INDUSTRY	SCOPE OF APPLICATION	PROCESS		
Wastewater	pH Control/Flocculation	High/Low Viscosity Mixing Gas/Liquid Mixing		
Water Treatment	Ozonation/Oxidation			
Desalination	Re-Ca <mark>rbon/</mark> Chlorinati <mark>o</mark> n	Gas/Liquid-Liquid/Liquid Mixing		
Chemical	Acid Mixing Reactors	Liquid/Liquid Mixing		

The MSM-C mixer is for fully turbulent flow. It is designed for mixing small quantities of additive into the bulk stream at a very short mixing distance. This mixer can be installed between two flanges of a pipeline and has a single mixing element.

INDUSTRY	SCOPE OF APPLICATION	l PROCESS	
Water Treatment	Coagulation/Flocculation	High/Low Viscosity Fluid Mixing	
Wastewater	pH Control/Flocculation	High Viscosity Sludge Mixing	
Swimming Pool	Ozonation/Disinfection	Gas/Liquid Mixing	

MSM-W



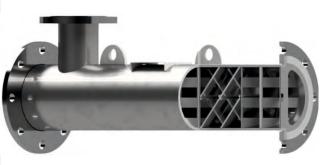


MSM-C





MSM-X

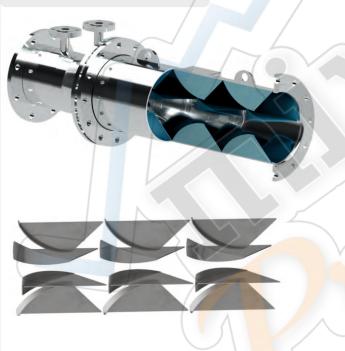


The MSM-X mixer has a grid of curved bars that successively divides the componets into layers and spreads them over the entire cross section of the pipe. It is used in very large flow feeds, products with extremely high viscosity and mixtures of chemicals with complex rheological product behavior.



INDUSTRY	SCOPE OF APPLICATION	PROCESS		
Synthetic Fibers	Thermal Homogenization/Polymer Exchangers	High Viscosity Liquid Mixing		
Polymer Production	ABS/SAN/LLDPE Reaction-Resin Production	High Viscosity Laminar Flow Mixing		
Food	Solids Addition/Starch Cooking	High Viscous Flow Mixing		





The MSM-Y mixer consists of a tube equipped with four blades, each strategically placed. The vanes create eddies and multiple intersecting turbulent zones to produce optimum mixing. Its unique geometry protects the mixer from contamination.

INDUSTRY	SCOPE OF APPLICATION	PROCESS		
Water Treatment	Coagulation/Flocculation	High/Low Viscosity Fluid Mixing		
Wastewater	pH Control/Flocculation	High Viscosity Sludge Mixing		
Swimming pool	Ozonation/Disinfection	Gas/Liquid Mixing		
Oil <mark>-Natu</mark> ral <mark>G</mark> as	Acidic pH Control Tasks	Low Viscosity Fluid Mixing		

REQUEST A QUOTE

You can request a quote via www.miyay.com or satis@miyay.com by contacting our sales department.

Static Mixer Request Form

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Customer Con	tact intor	matioi	<u>n</u>			R	evision Number:	: REV01
Company Name:_				Custor	ner Referen	nce Number:		
Contact: _				Addres	ss:	-		
Phone: _				Fax:		-		
Email: _				Date:		-		
Mixing or Disp	persion							
	Units	Proc Mair	cess Data nstream	Stream	m-1	Stream 2	St	tream 3
Component Name		1,141						
Flowrate	(m ³ /h)							
Density	(kg/m³)							
Dinamic Viscosity	(mPa.s)							
Tempearature	(C°)		/					
Pressure	[bar(g)]							
Liquid/Gas/Solids								
Heating/Coolir	ng							
	Specific	gravity	Temp (in)	Temp (out)	Viscosity	Specifi <mark>c Heat</mark>	The <mark>rm</mark> al Cond.	. Flowrate
Process Fluid) [/			
Heating/Cooling Flu	id							
Allowable Pressure de	rop	Jacket		Tube				
Mechanical Da	ata 🔪							
Materials of construction	on		Existin	n <mark>g line size</mark>		Max ler	ngth allowable:	
Design Tempertaure:			Design	n Pressure:		Integral	Injection	
End Connections	Plain	Thi	readed	Flanged	Type	e:	Class:	
ATEX applicable?	☐ Ye	s	No					
Requried Tests:	Hydostat					raphic Test		Sandblasting
	Magnetic	Particle 7	Γests		Dye Per	netrant Tests		Picklink
Any other information								











TRAINING
Operation and Maintenance with
the Operator
Personnel Trainings



SPARE PARTS
Machine Spare Parts Stock
and Supply



SERVICE AGREEMENTS
Preventive Maintenance
Service Contracts



PROCESS OPTIMIZATION Process Optimization Services



LAB AND ON-SITE TESTS Laboratory Testing Services

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