



Precision Liquid Dispensing Technology

Liquid Dispensing System
Since 1994



SUPRATEC SYNEO

Overview

Static Mixer Systems

Static mixer is the mixing device that can mix two or more liquids. Without any rotation part or motive power, just passing through the mixer is a continuous and equally mix. It's a very convenient and economical mixer.

Mixing Principle

1) Flow division 2) Rotational circulation 3) Radial mixing
these 3 of actions perfectly mix the two liquids.

1) Division of flow

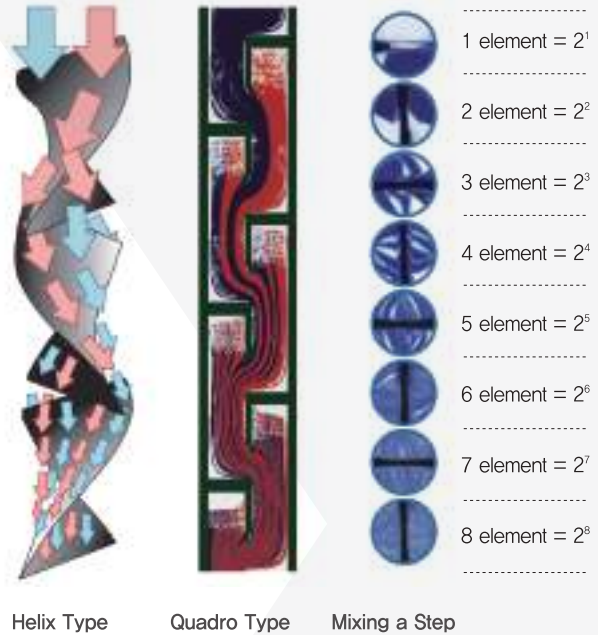
Each time liquid passed through an element, it becomes divided into two equal parts.
Number of divided is S, number of elements is n and then $S=2^n$. That is, the liquid that passed through the 8 elements is divided into 256

2) Rotational circulation

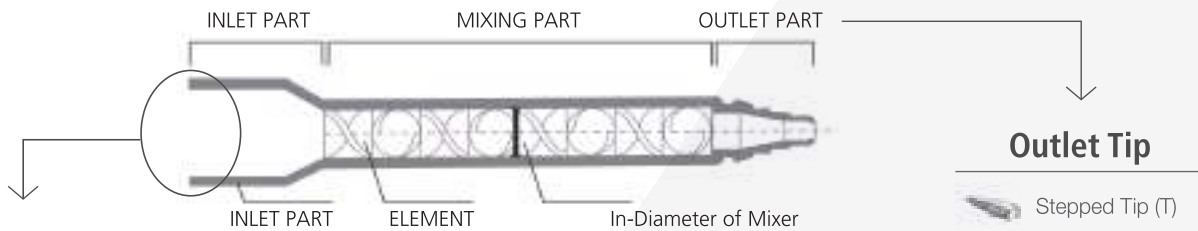
Rotational circulation is induced by left-and right-twisting helical elements.

3) Radial mixing

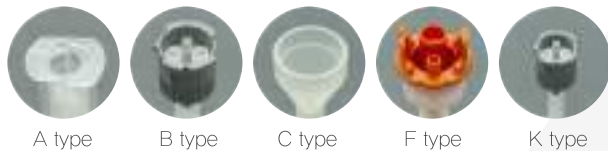
Flowing from the center to the wall and from the wall to the center along the twisted side of the element



Structure



Inlet type



Needle Adapter

A needle adapter can be inserted into models with T-shaped dispensing tip.

* Application :



	Element Nominal Diameter Ø5 ~ Ø6	LA 05-00 WHITE
	Element Nominal Diameter Ø6 ~ Ø8	LA 06-08 WHITE
	Element Nominal Diameter Ø10	LA 10-00 BLACK

PDP-500

FRESH HARDNER

 TAEHA

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MIXPAC™ A-System

Mixer Helix for System A/Q, 1:1/2:1
 Mixer Helix for System A/Q, 4:1/10:1 (X type)
 Mixer Quadro for System A/Q

	ID	Article	Number of Elements	Inner Diameter Ø mm/inch	Waste Volume (mL)	Units/Box	Outlet Tip				Accessoires					
							Stepped Tip (T)	Straight Tip (D)	Luer Slip Tip (L)	Tapered Tip (S)	BRT 205-10	IOT 406-15	IOT 506-15	LA 05-00		
1:1/2:1 MAH	102361	MAH 03-07S	7	3.0/0.118	0.24	15000			✓							
	102362	MAH 03-13S	13	3.0/0.118	0.36	12000			✓							
	102364	MAH 03-17S	17	3.0/0.118	0.34	10000			✓							
	102366	MAH 04-13S	13	4.0/0.157	0.60	10000			✓							
	102367	MAH 04-17D	17	4.0/0.157	0.75	7000		✓				✓				
	102368	MAH 04-17S	17	4.0/0.157	0.75	7500			✓							
	102369	MAH 05-07T	7	5.4/0.213	0.80	10000	✓									✓
	102370	MAH 05-13D	13	5.4/0.213	1.36	7000		✓			✓		✓			
	102371	MAH 05-13T	13	5.4/0.213	1.36	6500	✓									✓
	102360	MAH 0517-0413T	17 +13	5.4/0.213 4.0/0.157	2.07	4000	✓									✓
	102372	MAH 05-17T	17	5.4/0.213	1.68	4000	✓									✓
	102373	MAH 05-21T	21	5.4/0.213	2.01	3000	✓									✓
	102377	MAH 06-12T	12	6.3/0.248	2.08	4500	✓									
	102378	MAH 06-17T	17	6.3/0.248	2.94	3000	✓									
	102379	MAH 06-21L	21	6.3/0.248	3.33	4000			✓							
	102380	MAH 06-21T	21	6.3/0.248	3.57	2500	✓									
	4:1/10:1 MAHX	102535	MAHX 04-17S	17	4.0/0.157	0.75	7500			✓						
102536		MAHX 05-17T	17	5.4/0.213	1.68	4000	✓									✓
1:1/2:1/4:1/10:1 MAQ Colour	300028	MAQ 05-16L	16	5.3/0.209	1.30	5000			✓							✓
	300026	MAQ 05-24L	24	5.3/0.209	1.90	3000			✓							✓
	300391	MAQ 05-16L-12 *	16	5.3/0.209	1.30	5000			✓							
	300405	MAQ 05-16L-13 *	16	5.3/0.209	1.30	5000			✓							





* different colour

Matching dispensers

	ID	Article	Flange		Ratio					Force
			A		1:1	2:1	4:1	10:1	(kN)	
DMA dispenser manual	101875	DMA 51-00-10	✓		✓	✓				1.2
	101883	DMA 54-00-10	✓		✓	✓	✓			1.2
	112790	DMA 59-00-10	✓		✓	✓		✓		1.2
	111746	DMA 75-00-10	✓		✓					1.2
DP dispenser pneumatic	151780	DP2 50-16-100	✓		✓	✓				1.6
	153098	DP2 75-16-100	✓		✓	✓	✓	✓		1.6

MIXPAC™ B-System




Mixer Helix for System B, 1:1/2:1
 Mixer Helix for System B, 4:1/10:1 (X type)
 Mixer Quadro for System B
 Mixer Quadro for System B, 4:1/10:1 (X type)

	ID	Article	Number of Elements	Inner Diameter Ø mm/inch	Waste Volume (mL)	Units/Box	Outlet Tip				Accessoires							
							Stepped Tip (T)	Straight Tip (D)	Luer Slip Tip (L)	Tapered Tip (S)	LA 05-00	LA 06-08	BRT 205-10	IOT 406-15	IOT 506-15	IOT 212-20	IOR 209-20	
1:1/2:1 MBH	116457	MBH 03-12D	12	3.2/0.126	0.49	8000	✓											
	116458	MBH 03-12S	12	3.2/0.126	0.49	8000				✓								
	116459	MBH 03-16D	16	3.2/0.126	0.63	8000	✓		✓				✓		✓		✓	
	116460	MBH 03-16L	16	3.2/0.126	0.63	7000			✓									
	116461	MBH 03-16S	16	3.2/0.126	0.59	8000				✓								
	 116462	MBH 04-12D	12	4.2/0.165	0.84	7000	✓							✓				
	116463	MBH 04-16D	16	4.2/0.165	1.04	5000	✓							✓				
	116464	MBH 04-16S	16	4.2/0.165	1.04	5000				✓								
	116575	MBH 05-06T	6	5.4/0.213	0.94	8000	✓				✓							
	116465	MBH 05-12D	12	5.4/0.213	1.52	5000		✓					✓			✓		
	116466	MBH 05-14D	14	5.4/0.213	1.91	4000		✓					✓			✓		
	116467	MBH 05-16T	16	5.4/0.213	1.91	4000	✓				✓							
	116468	MBH 05-20T	20	5.4/0.213	2.29	3000	✓				✓							
	116469	MBH 06-11D	11	6.5/0.256	2.28	4000		✓					✓			✓		
	116470	MBH 06-16T	16	6.5/0.256	3.14	3000	✓						✓					
	116471	MBH 06-20T	20	6.5/0.256	3.76	2000	✓						✓					
	116472	MBH 07-11D	11	7.5/0.295	3.05	4000		✓										
	4:1/10:1 MBHX	116473	MBHX 03-16S	16	3.2/0.126	0.60	7000				✓							
		116474	MBHX 04-16D	16	4.2/0.165	1.05	6000	✓						✓				
116576		MBHX 04-16S	16	4.2/0.165	1.05	5000				✓								
116475		MBHX 05-12D	12	5.4/0.213	1.52	5000		✓					✓	✓	✓			
116476		MBHX 05-16T	16	5.4/0.213	1.91	4000	✓				✓							
 116477		MBHX 05-20T	20	5.4/0.213	2.07	3000	✓				✓							
116478		MBHX 06-16D	16	6.5/0.256	3.14	3000	✓						✓					
116480		MBHX 06-16T	16	6.5/0.256	3.04	3000		✓					✓			✓		
116481	MBHX 06-20T	20	6.5/0.256	3.79	2000	✓						✓						
1:1/2:1 MBQ	114144	MBQ 05-16L	16	5.3/0.209	1.88	3000			✓		✓							
	154801	MBQ 05-16L-12	16	5.3/0.209	1.88	3000			✓		✓							
	 114145	MBQ 05-24L	24	5.3/0.209	2.60	3000			✓		✓							
4:1/10:1 MBQX	116063	MBQX 05-16L	16	5.3/0.209	1.72	3000			✓		✓							
	 116062	MBQX 05-24L	24	5.3/0.209	2.37	3000			✓		✓							

* different colour

MIXPAC™ B-System

Matching dispensers

	ID	Article	Flange		Ratio				Force (kN)
			B 50	B S50	1:1	2:1	4:1	10:1	
DMA/DMB dispenser manual 	101875	DMA 51-00-10	✓		✓	✓			1.2
	116795	DMB 50-04-01	✓				✓		1.2
	116794	DMB 50-10-01	✓					✓	1.2
DS dispenser manual 	101934	DS 53-01-00		✓	✓	✓			1.2
	109146	DS 51-04-00		✓			✓		1.2
	101929	DS 51-10-00		✓				✓	1.2
	115676	DS 75-10-00		✓				✓	1.2
	110938	DS 77-01-00		✓	✓				1.2
DP dispenser pneumatic 	151780	DP2 50-16-100	✓		✓	✓			1.6
	153094	DP2 50-16-400	✓				✓	✓	1.6
	151886	DP2 50-16-300		✓				✓	1.6
	153098	DP2 75-16-100	✓		✓				



PDP-1000
#1 프로펌프

PDP-1000
#2 프로펌프

 TAEHA

 SUPRATEC SYNEO

Source: 3-Component Industry Ltd

MIXPAC™ C-System

Mixer Helix with bell inlet for System C/Q, 1:1/2:1
 Mixer Helix with bell inlet for System C/Q, 4:1/10:1 (X type)
 Mixer Quadro with bell inlet for System C/Q

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	ID	Article	Number of Elements	Inner Diameter Ø mm/inch	Waste Volume (mL)	Units/Box	Outlet Tip				Accessoires								
							Stepped Tip (T)	Straight Tip (D)	Luer Slip Tip (L)	Tapered Tip (S)	BSD 10-25	BSD 10-40	LA 05-00	LA 06-08	LA 10-00				
1:1/2:1 MCH	102414	MCH 05-18T	18	5.0/0.197	2.10	3000	✓												
	102415	MCH 05-24T	24	5.0/0.197	2.00	2000	✓												
	102416	MCH 05-32T	32	5.0/0.197	2.60	2000	✓												
	102417	MCH 06-18T	18	6.0/0.236	3.60	2000	✓												
	102418	MCH 06-24T	24	6.0/0.236	4.20	2000	✓												
	102419	MCH 06-32T	32	6.0/0.236	5.00	1700	✓												
	102421	MCH 08-18T	18	8.0/0.315	6.70	2000	✓												
	102424	MCH 08-24T	24	8.0/0.315	8.50	1500	✓												
	102425	MCH 08-32T	32	8.0/0.315	10.90	1200	✓												
	102427	MCH 1008-18S	18	8.0/0.315	10.20	1000				✓									
	102429	MCH 10-18T	18	10.0/0.394	12.30	1400	✓												
	102430	MCH 10-20D	20	10.0/0.394	12.60	1200		✓			✓	✓							
	102432	MCH 10-24D	24	10.0/0.394	15.30	1000		✓			✓	✓							
	102431	MCH 10-24T	24	10.0/0.394	14.60	1000	✓												
	102433	MCH 10-32T	32	10.0/0.394	17.70	900	✓												
	102434	MCH 13-12T	13	10.0/0.394	14.70	1400	✓												
	102435	MCH 13-18T	18	13.0/0.512	21.00	1000	✓												
	102437	MCH 13-24T	24	13.0/0.512	27.30	800	✓												
	102438	MCH 13-32T	32	13.0/0.512	25.70	600	✓												
	4:1/10:1 MCHX	102440	MCHX 08-18T	18	8.0/0.315	6.40	1800	✓											
102443		MCHX 08-24T	24	8.0/0.315	9.30	1500	✓												
102444		MCHX 10-12T	12	10.0/0.394	9.60	2000	✓												
102445		MCHX 10-18T	18	10.0/0.394	11.90	1400	✓												
102446		MCHX 10-24T	24	10.0/0.394	16.20	1000	✓												
102447		MCHX 13-12T	12	13.0/0.512	11.60	1200	✓												
112498		MCHX 15-12-30	12	15.0/0.591	27.00	1000	✓												
1:1/2:1 MCQ	300002	MCQ 05-24L	24	5.3/207	3.46	1500			✓				✓						
	300006	MCQ 07-24T	24	7.5/295	6.19	1000	✓												
	300455	MCQ 08-24T	24	8.7/0.343	8.44	1300	✓												
	300375	MCQ 08-32T	32	8.7/0.343	10.37	900	✓												
	300377	MCQ 10-32T	32	10.7/0.421	18.45	600	✓												
	300496	MCQ 10-24T-01	24	10.7/0.421	14.04	800	✓												
1:1/2:1/4:1/10:1 MGH	102480	MGH 08-06S	6	8.0/0.315	3.67	1500				✓									

Matching dispensers



	ID	Article	Volume mL		Ratio				Force (kN)
			200	400	1:1	2:1	4:1	10:1	
DM dispenser manual	114413	DM 200-01	✓		✓	✓			5.2
	114425	DM 200-04	✓				✓		5.2
	114535	DM 200-10	✓					✓	5.2
	114399	DM 400-01		✓	✓	✓			6.4
	114400	DM 400-04		✓			✓		6.4
	114401	DM 400-10		✓				✓	6.4
DP dispenser pneumatic	114780	DP 200-70-01	✓		✓	✓			2.2
	114664	DP 200-70-04	✓				✓		2.2
	114539	DP 200-70-10		✓				✓	2.2
	114781	DP 400-85-01		✓	✓	✓			3.2
	114782	DP 400-85-04		✓			✓		3.2
	114783	DP 400-85-10		✓				✓	3.2
	114466	DP 400-100-01		✓	✓	✓			4.5
	114559	DP 400-100-04		✓			✓		4.5
	114465	DP 400-100-10		✓				✓	4.5
DB dispenser battery	152603	DB2 400-50-100		✓	✓				5.0
	152605	DB2 400-50-200		✓		✓			5.0
	152607	DB2 400-50-300		✓			✓		5.0
	152609	DB2 400-50-400		✓				✓	5.0

MIXPAC™ F-System

Mixer Helix for System F, 1:1/2:1
 Mixer Helix for System F, 4:1/10:1 (X type)
 Mixer Quadro for System F, 1:1/2:1
 Mixer Quadro for System F, 4:1/10:1 (X type)




	ID	Article	Number of Elements	Inner Diameter Ø mm/inch	Waste Volume (mL)	Units/Box	Outlet Tip			Accessoires												
							strpped Tip(T)	Straight Tip (D)	Luer Slip Tip (L)	TA 10-ET	TC 10-ET	LA 05-00	LA 06-08	LA 10-00	BSD-08-50	BSD-10-25	BSD-10-40	BSD-13-50	BSDQ-08-38			
1:1/2:1 MFH 	102466	MFH 06-18T	18	6.0/0.236	4.36	1700	✓															
	102467	MFH 06-24T	24	6.0/0.236	5.40	1400	✓															
	166542	MFH 06-24L	24	6.0/0.236	5.40			✓														
	116040	MFH 06-32T	32	6.0/0.236	6.65	700	✓															
	102468	MFH 08-18T	18	8.0/0.315	7.40	1400	✓															
	102469	MFH 08-24T	24	8.0/0.315	9.30	1200	✓															
	102470	MFH 08-32T	32	8.0/0.315	11.85	900	✓															
	102471	MFH 10-18T	18	10.0/0.394	13.09	1000	✓		✓	✓												
	102472	MFH 10-24T	24	10.0/0.394	16.89	900	✓		✓	✓												
	110583	MFH 10-32T	32	10.0/0.394	21.94	500	✓		✓	✓												
	151603	MFH 13-18T	18	13.0/0.512	20.56	800	✓															
	151604	MFH 13-24T	24	13.0/0.512	26.31	600	✓															
	4:1/10:1 MFHX 	102473	MFHX 06-18T	18	6.0/0.236	4.16	1700	✓														
		102474	MFHX 06-24T	24	6.0/0.236	5.20	1400	✓														
166540		MFHX 06-24L	24	6.0/0.236	5.20			✓														
113275		MFHX 06-32T	32	6.0/0.236	6.56	1200	✓															
102475		MFHX 08-18T	18	8.0/0.315	7.28	1400	✓															
102476		MFHX 08-24T	24	8.0/0.315	9.14	1200	✓															
112720		MFHX 08-32T	32	8.0/0.315	11.55	900	✓															
102477		MFHX 10-18T	18	10.0/0.394	12.96	1000	✓		✓	✓												
102478		MFHX 10-24T	24	10.0/0.394	16.70	900	✓		✓	✓												
113250		MFHX 10-32T	32	10.0/0.394	21.22	500	✓		✓	✓												
151605		MFHX 13-18T	18	13.0/0.512	20.73	800	✓															
151606		MFHX 13-24T	24	13.0/0.512	26.48	600	✓															
1:1/2:1 MFQ 		116032	MFQ 05-16L	16	5.3/0.209	2.90	2500			✓												
		116033	MFQ 07-24T	24	5.3/0.209	3.52	2000		✓		✓											
	116034	MFQ 07-24T	24	7.5/0.295	6.11	1500	✓															
	115959	MFQ 08-24T	24	8.7/0.343	14.75	750	✓															
	116035	MFQ 10-24T	24	10.7/0.421	14.75	600	✓															
	116734	MFQ 08-32D	32	8.7/0.343	11.10	800		✓														
4:1/10:1 MFQX 	116036	MFQX 05-16L	16	5.3/0.209	3.07	2500		✓														
	116037	MFQX 05-24L	24	5.3/0.209	3.69	2000		✓														
	116038	MFQX 07-24T	24	7.5/0.295	6.28	1500	✓															
	116039	MFQX 08-24T	24	8.7/0.343	8.89	750	✓															
	116044	MFQX 10-24T	24	10.7/0.421	14.92	600	✓															
	116735	MFQX 08-32D	32	8.7/0.343	11.10	800		✓														

Matching dispensers

	ID	Article	Ratio				Force (kN)
			1:1	2:1	4:1	10:1	
DM dispenser manual 	114413	DM 200-01	✓	✓			5.2
	114425	DM 200-04			✓		5.2
	114535	DM 200-10				✓	5.2
DP dispenser pneumatic 	114780	DP 200-70-01	✓	✓			2.2
	114664	DP 200-70-04			✓		2.2
	114539	DP 200-70-10				✓	2.2

MIXPAC™ F-System



Matching dispensers

	ID	Article	Ratio				Force (kN)
			1:1	2:1	4:1	10:1	
DM dispenser manual 	114399	DM 400-01	✓	✓			6.4
	114400	DM 400-04			✓		6.4
	114401	DM 400-10				✓	6.4
DP dispenser pneumatic 	114781	DP 400-85-01	✓	✓			3.2
	114466	DP 400-100-01	✓	✓			4.5
	114782	DP 400-85-04			✓		3.2
	114559	DP 400-100-04			✓		4.5
	114783	DP 400-85-10				✓	3.2
	114465	DP 400-100-10				✓	4.5
DB dispenser battery 	152603	DB2 400-50-100	✓				5.0
	152605	DB2 400-50-200		✓			5.0
	152607	DB2 400-50-300			✓		5.0
	152609	DB2 400-50-400				✓	5.0

MIXPAC™ K-System


Mixer Helix for System K, 1:1/2:1

Mixer Helix for System K, 4:1/10:1 (X type)

	ID	Article	Number of Elements	Inner Diameter Ø mm/inch	Waste Volume (mL)	Units/Box	Outlet Tip				Accessoires	
							Stepped Tip (T)	Straight Tip (D)	Luer Slip Tip (L)	Tapered Tip (S)	IOT 212-20	IOR 209-20
1:1/2:1 MKH 	114252	MKH 02-08D	8	2.5/0.098	0.14	9000	✓				✓	✓
	114246	MKH 02-08S	8	2.5/0.098	0.19	9000			✓			
	114253	MKH 02-12D	12	2.5/0.098	0.23	8000	✓				✓	✓
	117249	MKH 02-12S	12	2.5/0.098	0.23	8000				✓		
	115686	MKH 02-16S	16	2.5/0.098	0.27	7000				✓		
	114254	MKH 03-12D	12	3.2/0.126	0.39	6000	✓				✓	✓
	114250	MKH 03-12S	12	3.2/0.126	0.39	6000				✓		
4:1/10:1 MKHX 	114260	MKHX 02-08D	8	2.5/0.098	0.19	9000	✓				✓	✓
	114255	MKHX 02-08S	8	2.5/0.098	0.19	9000				✓		
	114261	MKHX 02-12D	12	2.5/0.098	0.23	8000	✓				✓	✓
	114256	MKHX 02-12S	12	2.5/0.098	0.23	8000				✓		
	114257	MKHX 02-16S	16	2.5/0.098	0.27	7000				✓		
	114262	MKHX 03-12D	12	3.2/0.126	0.39	6000	✓				✓	✓
	114258	MKHX 03-12S	12	3.2/0.126	0.39	6000				✓		
	114259	MKHX 03-16S	16	3.2/0.126	0.49	4000				✓		



Substrato 3-Componente Indústria 19

 **TAEHA**




 **SUPRATEC SYNEO**

MIXPAC™ Machine Mixers

Overview

Series Industrial

Mixers

Series	ID	Article	Number of Elements	Inner Diameter Ø mm/inch	Length (mm)	Units/Box	max. Operating Pressure	Outlet tip			
								Stepped Tip (T)	Straight Tip (D)	Luer Slip Tip (L)	Threaded Tip
ME Machine Mixer PP 	102455	ME 1012-0832T	12+32	1.3/0.52	409.0	700	22.0	✓			
	102458	ME 1312-1032T	12+32	1.3/0.52	499.0	500	17.0	✓			
	102457	ME 10-32T	32	10.0/0.394	355.0	800	22.0	✓			
	102460	ME 13-24T-02	24	13.0/0.512	350.0	500	17.0	✓			
	102459	ME 13-24T	24	13.0/0.512	293.0	700	17.0	✓			
	102462	ME 13-32T-02	32	13.0/0.512	453.0	400	17.0	✓			
	102461	ME 13-32T	32	13.0/0.512	378.0	500	17.0	✓			
	102448	ME 05-24T	24	5.0/0.197	149.0	2000	33.0	✓			
	102449	ME 05-32T	32	5.0/0.197	188.0	2000	33.0	✓			
	102450	ME 06-24T	24	6.4/0.252	189.0	2000	30.0	✓			
	102451	ME 06-32T	32	6.4/0.252	235.0	1700	30.0	✓			
	102452	ME 06-48T	48	6.4/0.252	334.0	1000	30.0	✓			
	102453	ME 08-24T	24	8.0/0.331	223.0	1500	27.0	✓			
	102454	ME 08-32T	32	8.0/0.331	289.0	1200	27.0	✓			
	102456	ME 10-24T	24	10.0/0.394	276.0	1000	22.0	✓			
MS Machine Mixer PP 	113743	MS 13-12G	12	13.0/0.512	159.0	1000	17.0				✓
	102517	MS 13-18G	18	12.8/0.504	223.0	800	17.0				✓
	102519	MS 13-24T-02	24	13.0/0.512	350.0	500	17.0	✓			
	102518	MS 13-24T	24	13.0/0.512	293.0	700	17.0	✓			
	102522	MS 13-32G-01	32	13.0/0.512	373.0	400	17.0				✓
	102521	MS 13-32T-02	32	13.0/0.512	453.0	400	17.0	✓			
	102520	MS 13-32T	32	13.0/0.512	378.0	500	17.0	✓			
	102510	MS 08-24T	24	8.0/0.331	223.0	1500	27.0	✓			
	102511	MS 08-32T	32	8.0/0.331	289.0	1200	27.0	✓			
	102513	MS 10-18T	18	10.0/0.394	214.0	1400	22.0	✓			
	102514	MS 10-24T	24	10.0/0.394	352.0	1000	22.0	✓			
	102515	MS 10-32T	32	10.0/0.394	352.0	800	22.0	✓			
	102503	MS 05-24T	24	5.0/0.197	149.0	2000	33.0	✓			
	102504	MS 05-32T	32	5.0/0.197	188.0	2000	33.0	✓			
	102505	MS 06-24T	24	6.4/0.252	186.0	2000	30.0	✓			
	102506	MS 06-32T	32	6.4/0.252	235.0	1700	30.0	✓			
	102507	MS 06-48T	48	6.4/0.252	334.0	1000	30.0	✓			
	102509	MS 06-56L	56	6.4/0.252	38.0	800	30.0				✓
	102508	MS 06-56D	56	6.4/0.252	378.0	800	30.0				✓
	102512	MS 1012-0832T	12+32	1.3/0.052	409.0	700	22.0	✓			
102516	MS 1312-1032D	12+32	1.3/0.052	499.0	500	17.0				✓	
MSR Rotary Mixer PP 	102499	MSR 06-12T	12	6.4/0.252	111.5	2000	30.0	✓			
	102500	MSR 08-12T	12	8.0/0.331	130.0	1500	27.0	✓			
	102501	MSR 10-12T	12	10.0/0.394	155.0	1500	22.0	✓			
	102502	MSR 13-12T	12	13.0/0.512	197.0	1000	17.0	✓			

For safety reasons, MIXPAC™ shrouds must be used at all times.