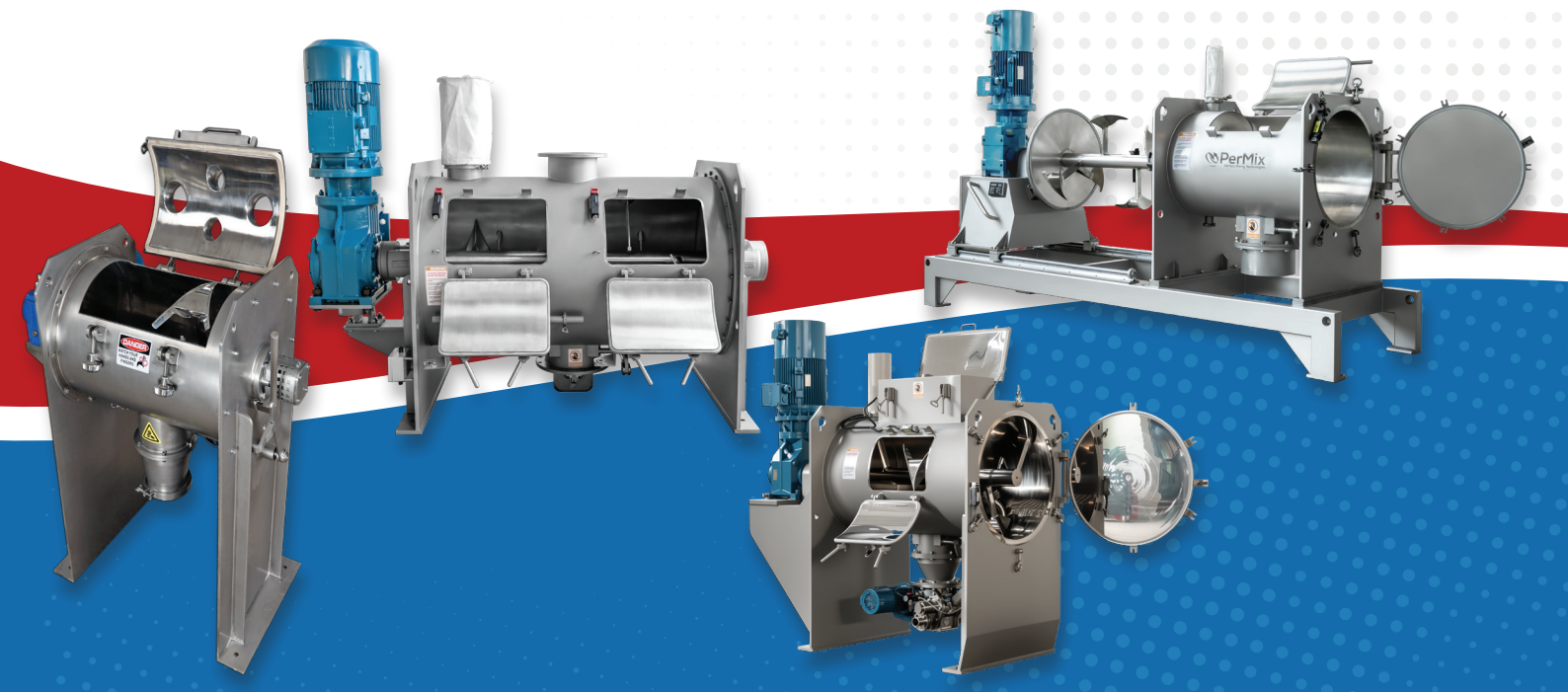
PerMix
Perfect Mixing Technologies

WE OFFER

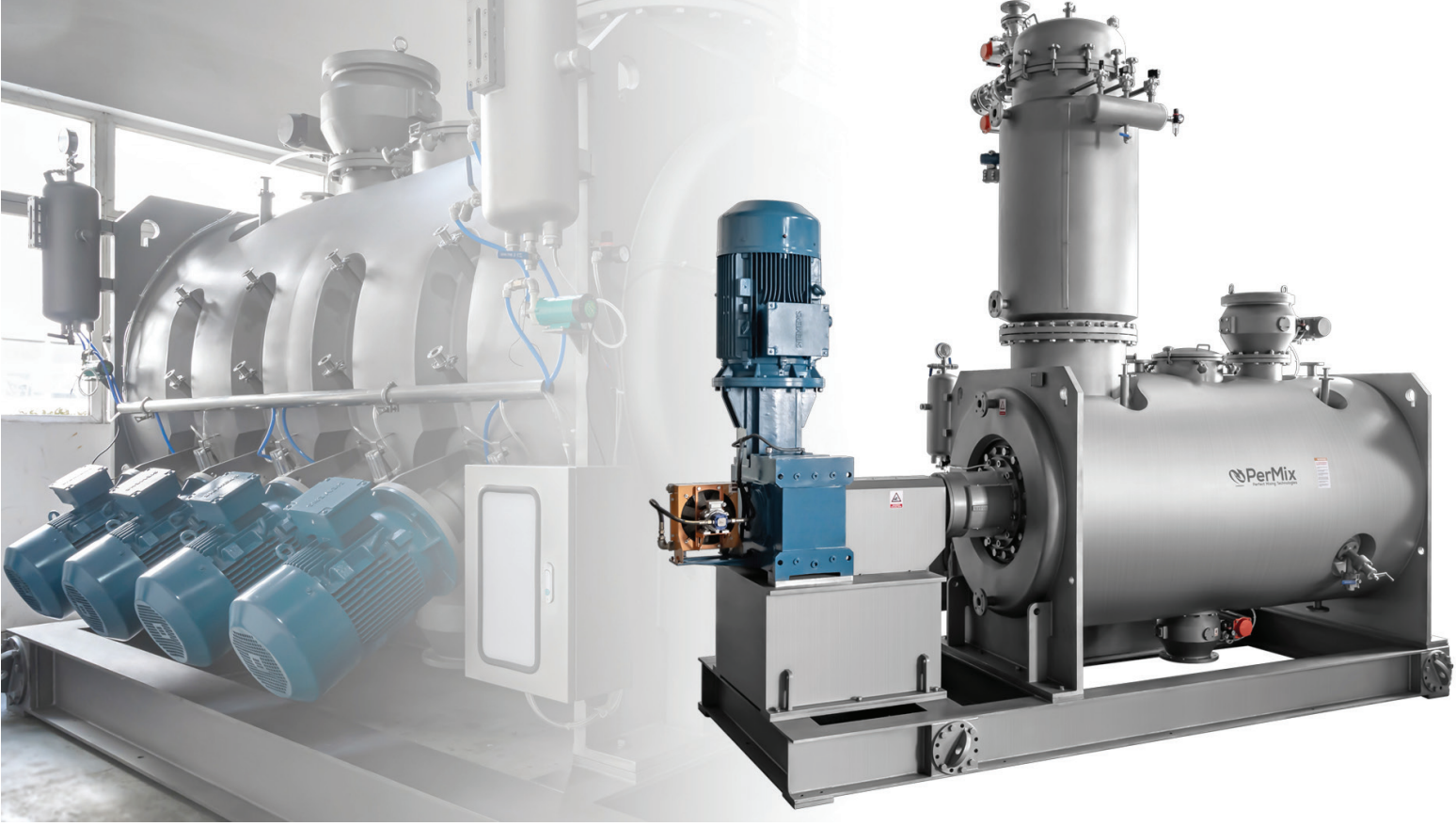
PERFECT MIXING TECHNOLOGIES



PERMIX PLOW SHARE MIXERS:

PRECISION MIXING FOR EVERY INDUSTRY

www.permix-mixers.com



PerMix Plow Share Mixers & Vacuum Plow Share Mixer-Dryers

What is a Plow Share Mixer?

A Plow Share Mixer is an intensive, high-speed batch mixer designed for blending powders, from free-flowing to slightly cohesive. It features plow-shaped tools mounted on a horizontal shaft that rotate at high speeds to create a "Three-Dimensional Mechanical Fluidization" action, lifting and throwing materials in a centrifugal motion for uniform mixing in very short times. Ideal for applications where rapid homogenization and excellent dispersion are critical, plow share mixers are often used in food, nutraceuticals, pharmaceuticals, and other industries that require sanitary, uniform mixing.

Why Choose a Plow Share Mixer?

Plow Share mixers are selected for applications where:

- Intensive, high-speed mixing is required.
- Excellent dispersion of liquids into powders is needed.
- Free-flowing to slightly cohesive powders are present.
- Agglomerates need to be broken down (using optional high-speed choppers).
- Sanitary design is required for food or pharma applications.



Plow Share Mixers Vs. Ribbon & Paddle Mixers

Compared to ribbon and paddle mixers, plow share mixers operate at higher rotational speeds, offering a much more aggressive and faster blending action. They excel in applications where very short mixing times and intensive dispersion are key, though they are less forgiving than paddle mixers for highly abrasive materials or very sticky, heavy pastes.



Applications & Industries

Food
Cereals, Soup Powders, salad mixes, spices & seasoning, ready meals, Cocoa and Coffee mixes.

Pharmaceuticals
Vitamins, powdered APIs, sensitive blends

Nutraceuticals
Protein powders, functional blends, botanicals

Cosmetics
Mineral powders, exfoliants, clays

Pet Food
Supplements, custom formulations

Chemical
Additives, polymers, detergents, Building Materials, Batteries Materials

Introducing PerMix Vacuum Plow Share Mixer-Dryers

PerMix Vacuum Plow Share Mixer-Dryers combine the intensive mixing capabilities of plow share mixers with the power of vacuum drying. They feature full vacuum-rated construction, ASME-certified jackets for heating and cooling, and optional condensate recovery systems. Integrated choppers, spray nozzles, and CIP systems enhance their versatility.

Key Design Features & Options

Capacities from 5 to 30,000 liters and up

Construction Materials: 304 / 316L Stainless Steel, Carbon Steel, Hardox, Titanium, Hastelloy

Cip Ready and Easy Clean Design for Sensitive Materials

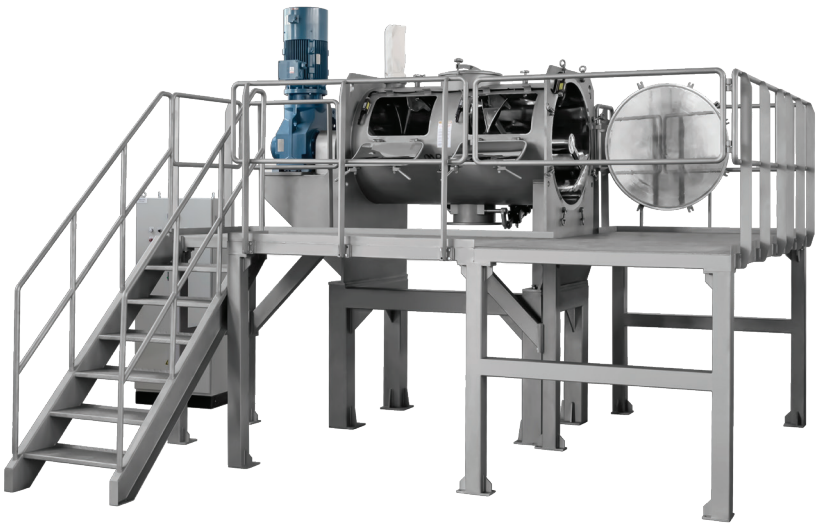
ASME/PED Heating & Cooling Jackets

Vacuum & Pressure Rated Designs

Integrated Choppers & Spray Nozzles for Liquid Additives

Steam Injection Capability

PLC/HMI Controls with Recipe Management & Load Cells



Applications & Industries

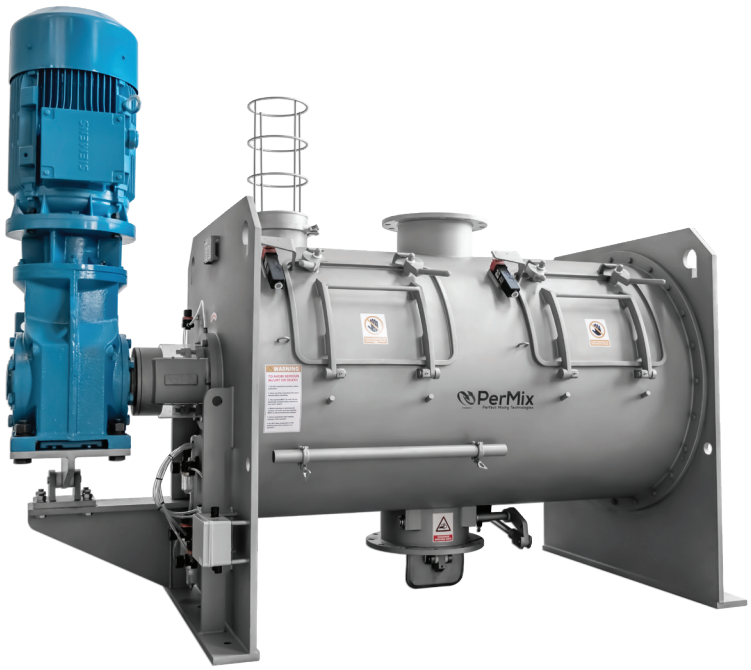
High Shear Mixing for cohesive and fiverous materials

Highly uniform mixing with low energy consumption

Compatible with liquids and solids

Broad customizations options

Robust design for continuous operation



Considerations & Disadvantages

Not suitable for aggresive mixing or agglomerate breaking

The PerMix Advantage

Precision Engineering for Every Batch Size

Global Manufacturing - Local Support

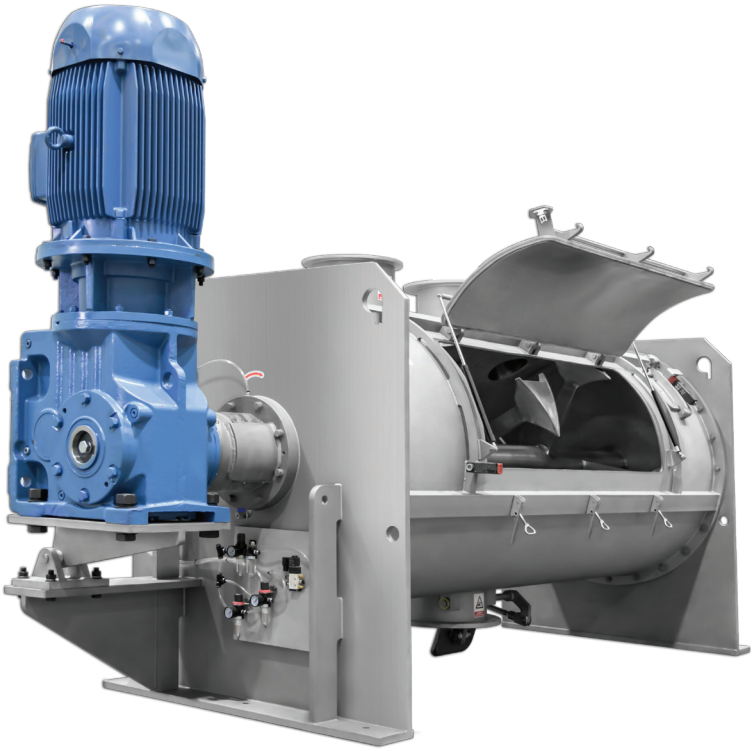
Best-in-Class Warranty - Up to 5 Years

Advanced Sanitary Design - Meets FDA & GMP Requirements

Built to Handle Today's Products and Tomorrows's Innovations

Let's Create the Perfect Plow Share mixer for Your Process

Whether you're drying botanical powders or blending prepared meals, PerMix's Plow Share Mixer and Vacuum Plow Share Mixer-Dryer solutions are built to meet your exact specifications and industry requirements. From lab-scale to full production, we offer unmatched customization, quality, and value.



Specifications

PerMix Plow Share Mixer

Model	Total L	Useful L, 30%	Useful L, 70%	kW	RPM	L (mm)	W (mm)	H (mm)	KG
PTS-5L (*)	5	1.5	3.5	1.1	365	900	400	600	110
PTS-10L (*)	10	3	7	1.1	365	950	400	600	120
PTS-15L (*)	15	4.5	10.5	1.1	280	1050	450	620	140
PTS-20L (*)	20	6	14	1.1	280	1150	500	650	160
PTS-5L-CP (*)	5	1.5	3.5	1.1	365	950	750	610	140
PTS-10L-CP (*)	10	3	7	1.1	365	1050	750	610	160
PTS-15L-CP (*)	15	4.5	10.5	1.1	280	1150	850	640	180
PTS-20L-CP (*)	20	6	14	1.1	280	1250	900	670	200
PTS-30	30	9	21	2.2	210	940	820	1130	270
PTS-45	45	13.5	31.5	2.2	210	940	880	1160	280
PTS-50	50	15	35	3	190	1000	900	1200	380
PTS-60	60	18	42	3	190	1000	950	1200	480
PTS-70	70	21	49	4	175	1150	1055	1250	570
PTS-100	100	30	70	5.5	175	1360	1065	1280	680
PTS-150	150	45	105	7.5	170	1550	1100	1300	700
PTS-200	200	60	140	7.5	155	1635	1160	1370	790
PTS-250	250	75	175	11	150	1750	1250	1400	850
PTS-300	300	90	210	11	150	1840	1380	1460	910
PTS-400	400	120	280	18.5	140	1950	1450	1500	1150
PTS-500	500	150	350	18.5	140	2120	1500	1570	1280
PTS-600	600	180	420	22	135	2300	1600	1650	1400
PTS-700	700	210	490	22	135	2350	1610	1650	1460
PTS-750	750	225	525	22	127	2370	1610	1680	1510
PTS-800	800	240	560	22	127	2400	1630	1350	1580
PTS-1000	1000	300	700	22	121	2450	1650	1360	1620
PTS-1200	1200	360	840	30	121	2600	1750	1380	1850
PTS-1500	1500	450	1050	30	115	2830	1860	1415	2000
PTS-2000	2000	600	1400	37	110	3175	1910	1550	2730
PTS-2500	2500	750	1750	37	102	3300	1960	1700	2900

- Mixers can be made to have a total volume of up to 30,000 L.

Specifications



PerMix Continuous Plow Share Mixer

Model	Total L	Working L, 50%	kW	RPM	L	W	H	KG
PTSC-80	80	40	5.5	175	1900	700	700	550
PTSC-100	100	50	7.5	175	1920	850	750	780
PTSC-150	150	75	11	170	1950	950	800	1000
PTSC-200	200	100	11	155	1960	1065	830	1300
PTSC-250	250	125	15	150	2200	1150	850	1340
PTSC-300	300	150	15	150	2400	1200	880	1380
PTSC-400	400	200	22	140	2510	1250	920	1500
PTSC-500	500	250	22	140	2800	1250	1010	1600
PTSC-600	600	300	30	135	2845	1290	1010	1700
PTSC-700	700	350	30	135	2900	1380	1050	1750
PTSC-750	750	375	30	127	2980	1400	1080	1950
PTSC-800	800	400	30	127	3200	1410	1100	2200
PTSC-1000	1000	500	30	121	3320	1430	1120	2400
PTSC-1200	1200	600	37	121	3500	1450	1200	2600
PTSC-1500	1500	750	37	115	3750	1470	1230	2900
PTSC-2000	2000	1000	45	110	4030	1650	1360	3100
PTSC-2500	2500	1250	45	102	4500	1680	1400	3500
PTSC-3000	3000	1500	45	102	4710	1700	1410	3800
PTSC-4000	4000	2000	55	96	5155	1910	1550	5200
PTSC-5000	5000	2500	75	85	5500	1940	1680	6000
PTSC-6000	6000	3000	75	75	5745	1960	1780	6200
PTSC-7000	7000	3500	90	75	6100	2080	1850	7500
PTSC-8000	8000	4000	110	67	6315	2160	1900	8100
PTSC-9000	9000	4500	132	67	6600	2200	1980	8900
PTSC-10000	10000	5000	160	60	6905	2230	2000	9200

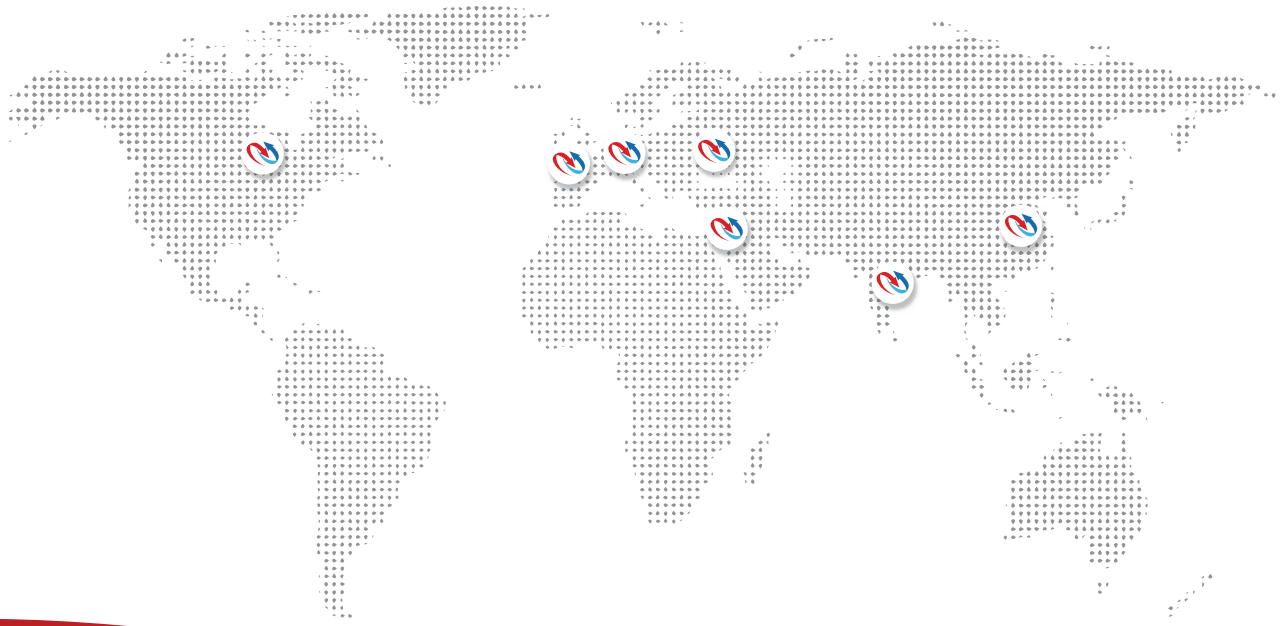
Specifications

PerMix Vacuum Plow Share Mixer & Dryer

Model	Total L	Useful L, 30%	Useful L, 70%	kW	RPM	L (mm)	W (mm)	H (mm)	KG
PTSD-5L (*)	5	1.5	3.5	1.1	256	900	520	600	140
PTSD-10L (*)	10	3	7	1.1	256	950	520	600	160
PTSD-15L (*)	15	4.5	10.5	2.2	196	1,050	550	620	180
PTSD-20L (*)	20	6	14	2.2	196	1,150	600	650	210
PTSD-5L-CP (*)	5	1.5	3.5	1.1	256	950	900	610	180
PTSD-10L-CP (*)	10	3	7	1.1	256	1,050	900	610	210
PTSD-15L-CP (*)	15	4.5	10.5	2.2	196	1,150	1,000	640	230
PTSD-20L-CP (*)	20	6	14	2.2	196	1,250	1,050	670	260
PTSD-30	30	9	21	4	126	1,030	920	1,130	350
PTSD-45	45	14	32	4	126	1,030	980	1,160	360
PTSD-50	50	15	35	5.5	114	1,100	1,000	1,200	490
PTSD-60	60	18	42	5.5	114	1,100	1,050	1,200	620
PTSD-70	70	21	49	7.5	105	1,270	1,155	1,250	740
PTSD-100	100	30	70	11	105	1,500	1,165	1,280	880
PTSD-150	150	45	105	15	102	1,710	1,200	1,300	910
PTSD-200	200	60	140	15	93	1,800	1,260	1,370	1,030
PTSD-250	250	75	175	18.5	90	1,930	1,350	1,400	1,110
PTSD-300	300	90	210	22	90	2,020	1,480	1,460	1,180
PTSD-400	400	120	280	30	84	2,150	1,550	1,500	1,500
PTSD-500	500	150	350	30	84	2,330	1,600	1,570	1,660
PTSD-600	600	180	420	37	81	2,530	1,700	1,650	1,820
PTSD-700	700	210	490	37	81	2,590	1,710	1,650	1,900
PTSD-750	750	225	525	37	76	2,610	1,710	1,680	1,960
PTSD-800	800	240	560	37	76	2,640	1,730	1,350	2,050
PTSD-1000	1000	300	700	45	73	2,700	1,750	1,360	2,110
PTSD-1200	1200	360	840	45	73	2,860	1,850	1,380	2,410
PTSD-1500	1500	450	1050	45	69	3,110	1,960	1,415	2,600
PTSD-2000	2000	600	1400	55	66	3,490	2,010	1,550	3,550
PTSD-2500	2500	750	1750	55	61	3,630	2,060	1,700	3,770

- Mixers can be made to have a total volume of up to 30,000 L.

PerMix
Perfect Mixing Technologies





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Perfect Mixing Technologies

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Besides, PerMix has been building a network of agents located in Southeast Asia, Australia, Russia, Middle East, Africa, and other countries & regions.