PerMix
Perfect Mixing Technologies

WE OFFER

PERFECT MIXING TECHNOLOGIES



PERMIX CONICAL MIXERS:

PRECISION MIXING FOR EVERY INDUSTRY

WWW.PERMIX-MIXERS.COM



PerMix Conical Mixers & Conical Vacuum Mixers &Dryers

Precision, Performance, PerMix.

Mixing Action: How it Works

The conical mixer uses a screw agitator that rotates around its own axis while orbiting along the conical vessel wall. This dual-motion creates a three-dimensional mixing pattern:

- Material is lifted upward along the wall by the screw.
- Gravity pulls the material down into the center.
- Continuous circulation ensures **total batch homogeneity** in less time and with less energy than horizontal mixers.

In **single-shaft designs**, one screw provides gentle but complete mixing, even at low fill levels.

In **dual-shaft designs**, two screws move material simultaneously, accelerating mixing and making them ideal for cohesive powders or bulk batches.

In **vacuum mixer/dryers**, the same mixing action is combined with vacuum pressure and thermal jackets, which dry materials evenly without damaging delicate particles.



Advantages

Gentle Handling
Ideal for fragile powders, crystals, or sensitive materials like pharmaceuticals and nutraceuticals.

Minimal Heat Generation
Perfect for explosive or volatile compounds where friction must be avoided.

Flexibility
Mixes powders, pastes, or slurries in one machine.

Scalability
Proven performance from lab-scale (5 liters) to large-scale (30,000 liters and up).

Low Energy Consumption
Efficient circulation requires less power compared to high-intensity mixers.

Sanitary & Safe
Easy-clean design with CIP systems, retractable screws, and no confined-space entry needed.

Disadvantages

Every technology has limits—transparency builds trust:

Longer Cycle Times
Compared to high-shear mixers, conical mixers take more time when rapid dispersion is required.

Higher Cost per Unit
Precision construction and vertical screw systems are more complex than simple paddle or ribbon mixers.

Not for All Aplications
Extremely viscous pastes or sticky dough-like products may require other PerMix solutions such as sigma mixers.

Despite these tradeoffs, the **versatility and safety advantages** outweigh the drawbacks for most industries.



Where They Excel

Explosives
Spark-resistant designs with explosion-proof drives ensure safe mixing of sensitive powders.

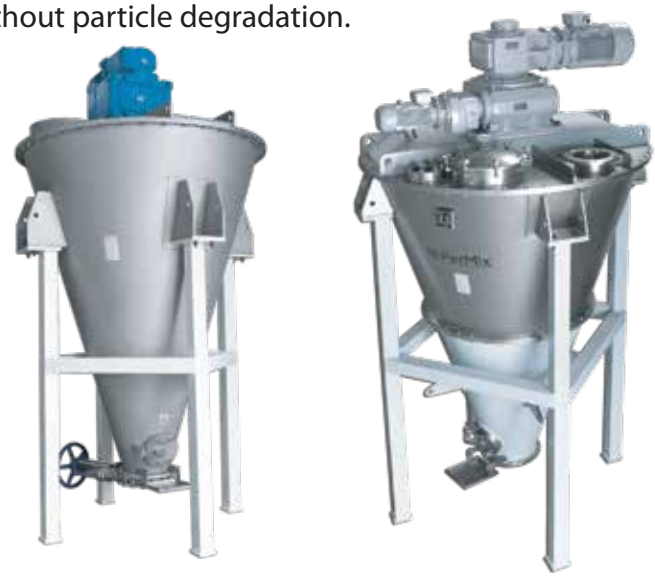
Abrasives
Hardox or ceramic linings extend the mixer's lifespan against aggressive wear.

Pharmaceuticals
High-precision blending meets cGMP requirements, with CIP for complete sanitation.

Food & Nutraceuticals
Uniform blending of proteins, seasonings, and nutritional additives.

Chemicals
Handles both free-flowing powders and corrosive formulations with specialty alloys.

Cosmetics
Achieves smooth creams, powders, and pigments without particle degradation.



Options & Special Features

PerMix leads the way by offering more customization, more standard features, and better pricing than competitors:

Load Cells
For precise batch weighing and process control.

CIP Systems
Spray nozzles, retractable screws, and automated wash cycles ensure fast, safe cleaning.

Vacuum Capability
Mix and dry in one unit, with condensate recovery options.

Gas Purge Systems
For inerting with nitrogen or other gases when handling explosives or oxygen-sensitive products.

Heating & Cooling Jackets
Tight temperature control for sensitive formulations.

PLC/HMI Controls
Recipe-driven automation for reproducible results every batch.

Material Choices
From 304/316 stainless steel to Hardox, Hastelloy, and titanium, PerMix builds for your process environment.





Why PerMix Leads the Industry

Most manufacturers stop at "standard." PerMix doesn't believe in standard.

Engineering Leadership
Designs that outperform legacy European brands at a fraction of the cost.

Global Footprint
Manufacturing in the US, Europe, and Asia ensures local service, shorter lead times, and global reach.

Best-in-Class Warranty
Industry-leading coverage to back our promise of durability and reliability.

Innovation in Cleaning
Cleaning: Confined-space entry is eliminated by our retractable agitator and CIP systems, setting a new industry benchmark for safety and hygiene.

Value Without Compromise
Advanced features included as standard where competitors charge extra.

Specifications

PerMix Paddle Mixer

Model	Total L	Useful L, 30%	Useful L, 70%	kW	RPM	L (mm)	W (mm)	H (mm)	KG
PTP-5L	5	1.5	3.5	1.1	365	900	400	600	110
PTP-10L	10	3	7	1.1	365	950	400	600	120
PTP-15L	15	4.5	10.5	1.1	280	1,050	450	620	140
PTP-20L	20	6	14	1.1	280	1,150	500	650	160
PTP-5L-CP	5	1.5	3.5	1.1	365	950	750	610	140
PTP-10L-CP	10	3	7	1.1	365	1,050	750	610	160
PTP-15L-CP	15	4.5	10.5	1.1	280	1,150	850	640	180
PTP-20L-CP	20	6	14	1.1	280	1,250	900	670	200
PTP-30	30	9	21	1.1	90	940	800	1,130	250
PTP-45	45	13.5	31.5	1.1	90	940	850	1,160	260
PTP-50	50	15	35	1.5	80	1,000	900	1,200	350
PTP-60	60	18	42	1.5	80	1,000	950	1,200	450
PTP-70	70	21	49	1.5	63	1,150	980	1,250	550
PTP-100	100	30	70	1.5	63	1,300	1,050	1,280	600
PTP-150	150	45	105	2.2	60	1,450	1,100	1,300	650
PTP-200	200	60	140	2.2	53	1,590	1,140	1,370	700
PTP-250	250	75	175	3	50	1,700	1,160	1,400	750
PTP-300	300	90	210	3	50	1,755	1,180	1,460	800
PTP-400	400	120	280	4	50	1,850	1,200	1,500	950
PTP-500	500	150	350	4	50	1,990	1,280	1,570	1,050
PTP-600	600	180	420	5.5	50	2,100	1,300	1,600	1,150
PTP-700	700	210	490	5.5	50	2,200	1,350	1,650	1,200
PTP-750	750	225	525	5.5	50	2,250	1,370	1,670	1,240
PTP-800	800	240	560	7.5	45	2,350	1,400	1,350	1,350
PTP-1000	1000	300	700	7.5	35	2,410	1,450	1,360	1,450
PTP-1200	1200	360	840	11	35	2,550	1,500	1,380	1,650
PTP-1500	1500	450	1050	11	35	2,780	1,590	1,410	1,850
PTP-2000	2000	600	1400	15	35	3,020	1,700	1,550	2,550
PTP-2500	2500	750	1750	18.5	35	3,100	1,800	1,700	2,800

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

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Headquarter

Adi 17940
Contact: Mr. Arie Srugo
Tel: +972-54-908-0144
Email: srugoa@permix-mixers.com
www.permix-mixers.com

Global Factory & Office

PerMix North America
Adi 17940
Contact: Mr. Arie Srugo
Tel: +972-54-908-0144
Email: srugoa@permix-mixers.com
www.permix-mixers.com

PerMix Europe
9900 Eeklo - Belgium
Contact: Mr. Dimitri Baeten
Tel: +32/9 376 76 11
Email: dimitri.eu@permix-mixers.com
www.permix-mixers.com

PerMix China
Shanghai, 201821, China
Contact: Mr. Aaron Huang
Tel: +86 133 911 68218
Email: aaron.h@permix-mixers.com
www.permix-mixers.com
www.permix.cn

PerMix India
Navi Mumbai, 400 708, India
Contact: Mr. Anant Wagh
Tel: +91 99304 69228
Email: india@permix-mixers.com
www.permix-mixers.com

PerMix UK
9900 Eeklo - Belgium
Contact: Mr. Dimitri Baeten
Tel: +32/9 376 76 11
Email: dimitri.eu@permix-mixers.com
www.permix-mixers.com

PerMix Ukraine
Kyiv, 02095, Ukraine
Contact: Mrs. Olga Baltaziuk
Tel: +380 50 351 94 45
Email: ua@permix-mixers.com
www.permix-mixers.com

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