

PMZX 系列混合泵

PMZX series mixing pump



乳化、均质、细化、混合、
可调节、多任务、粉液混合的解决方案
Solution for emulsifying, homogenizing, refining,
mixing, adjusting, multi-tasking, powder and
liquid mixing.



PM系列是一款多功能料液混合泵，它具有混合、剪切、乳化、均质、分聚、细化、破碎、物料质量改善等功能。该泵相比传统生产工艺更加简单方便和经济，提高了生产效率、提升被处理物料的质量。

主要应用于：食品、饮料、乳制品、添加剂、个人护理、生物制药、增稠剂、工业应用等。

The PM series mixing pump is for mixing material and liquid with multi-functions ,such as mixing, shearing, emulsifying, homogenizing,dispersing, refining, crushing and material improvement. Compared with the traditional production process, the pump is more simple, convenient and economical, which improves the production efficiency and the quality of treated materials.

Mainly used in: food, beverage, dairy products, additives, personal care, biopharma, thickeners, industrial applications, etc.



A=液环式自吸泵 Liquid ring type self-priming pump
B=均质混合泵 Homogeneous mixing pump

技术参数 Technical Specifications

粉体最大处理量 Max capacity of powder	9000kg/h
增稠剂类最大处理 Max capacity of thickeners	3000kg/h(取决于物料粘度和浓度Depends on the viscosity and concentration of the material)
最高温度 Max temperature	130℃
材质 Material	304 /316L,1.4301/1.4404,ASME BPE 316L ,1.4435 BN2 Fe≤0.5%
表面处理 Surface treatment	≤ Ra0.8 μ m, ≤ Ra0.6 μ m, ≤ Ra0.4 μ m
机封 Mechanical seal	单机封和双机封 Single and double mechanical seals
机封组合 Mechanical seal combination	详见配置表See configuration table
进/出口连接 Inlet/Outlet connection	螺纹、卡箍、法兰、无菌法兰 Thread, Clamp, Flange, Aseptic flange
认证 Certification	3-A-02-11(N.O.1579); MD/06/42-EC (N.O.70521616101-00); FDA 177.2600; USP CLASS-II; EG/VO1935/2004;

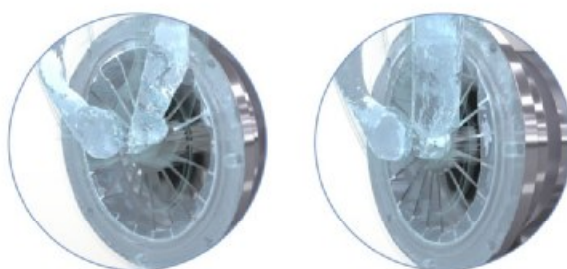
PMZX 系列混合泵 PMZX series mixing pump

DJ-CIP 系列自吸泵 DJ-CIP series self priming pump



CIP系列液环式自吸泵具有超强的自吸能力负压达(0.8bar), 将配料罐中的粉体和液体吸入腔室中预处理, 并输送至乳化均质泵。

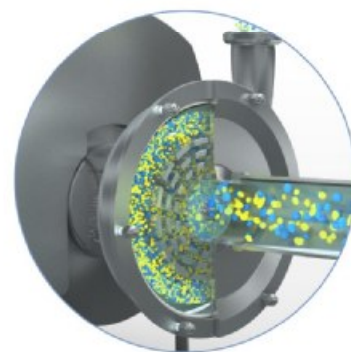
CIP Series liquid ring type self-priming pump has super strong self-priming ability, and negative pressure can reach 0.8bar, the powder and liquid are sucked into the chamber from the dosing tank for pretreatment, and then they're transported to emulsification homogenization pump.



DJ-JZ1 乳化均质泵 DJ-JZ1 Emulsification homogenization pump

JZ1系列泵可对各种复杂的成分如稳定剂、增稠剂、胶体、香精、糖和其他各种添加剂等物料进行, 乳化、均质、细化、分散、破碎、混合等功能。其强大的混合能力使物料达到高度的一致性, 且提高物料质量。

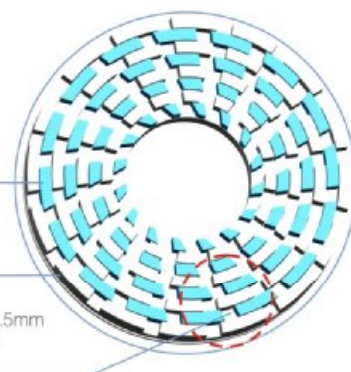
JZ1 Series pumps can be used for emulsifying, homogenizing, refining, dispersing, crushing and mixing of various complex components such as stabilizers, thickeners, gels, flavors, sugars and other additives. And the strong mixing ability makes the materials reach high consistency and improves the quality of materials.



定子 Stator

转子 Rotor

定子和转子之间的间隙 0.5mm
Gap between stator and rotor is 0.5mm



典型应用行业 Typical applications



食品饮料 Food & beverage

果汁、果酱、冰淇淋、乳制品、食品添加剂、茶饮料、巧克力、豆奶、香精、沙拉酱、辣椒酱、蛋黄酱、番茄酱、芥末、酸奶、酸奶油、风味奶、布丁等工种物料。

Juice, jam, ice cream, dairy products, food additives, tea drinks, chocolate, soymilk, essence, salad dressing, chili sauce, mayonnaise, tomato sauce, mustard, yogurt, sour cream, flavored milk, pudding and other types of materials



添加剂和增稠剂 Additives and thickeners

阿斯巴甜、非脱脂奶粉、盐、柠檬酸、糖、鸡蛋粉、乳清蛋白浓缩物、碳酸钙、蜂蜜、粉末香精等添加剂，胶体、果胶、合成增稠剂、淀粉、明胶等各种增稠剂。

Aspartame, non-skimmed milk powder, salt, citric acid, sugar, egg powder, whey protein concentrate, calcium carbonate, honey, powder essence and other additives, gels, pectin, synthetic thickeners, starch, gelatin and other thickeners.



涂料和油墨 Coating & ink

印刷油墨、油漆、乳胶漆、涂料、纳米涂料、光固化涂料、涂料阻剂、炭黑分散、釉、膨润土、染料化合物等。

Printing ink, oil paint, emulsion paint, coating, nano-paint, photocurable coating, coating adhesive, carbon black dispersion, glaze, bentonite, dye compounds etc.



日用化工 Daily chemical

液体洗涤剂、洗手液、洗面乳、硅油乳化、日用香精、护肤品、化妆品、乳霜、洗发水、沐浴露等。

Liquid detergent, liquid soap, facial cleanser, emulsified silicone oil, fragrance compound, skin care product, cosmetics, cream, shampoo, shower gel, etc.



石油化工 Petrochemical industry

润滑油、重油乳化、柴油乳化、改性沥青、催化剂、蜡乳剂等各种工业石油化工所需均质和乳化的介质。

Lubricant, heavy oil emulsification, diesel oil emulsification, modified asphalt, catalyzer, wax emulsion etc. Which media need to be emulsified and homogenized.



农药 Pesticide

杀虫剂、除草剂、农药乳油、肥料、农药助剂等各种农药所需乳化均质混合的介质。

Insecticide, herbicide, pesticide missible oil, fertilizer, inert ingredient etc which media need to be emulsified and homogenized.



生物制药 Bio-pharmaceutical

注射剂、抗生素、药乳液、药乳膏、保健品、微胶囊乳化、洗剂、细胞组织破碎等各种。

Injection, antibiotic, medicine emulsion, medicine emulsifiable paste, health care products, microcapsule emulsification, lotion, cell tissue smash etc.



精细化工 Fine chemical engineering

颜料、染料、塑料助剂、纺织助剂、胶粘剂、树脂乳化、热熔胶、密封胶、胶水、浆料、整理剂、表面活性剂、均染剂、炭黑分散、防粘剂、织物整理剂、光亮剂、皮革助剂、颜料膏等各种化工类所需的乳化和均质及混合物料等。

Pigment, dyestuff, plastic additive, textile assistant, adhesive, resin emulsification, hot melt adhesive, sealant, glue, sizing agent, finishing agent, surfactant, dye leveller, carbon black dispersion, anti-sticking agent, textile finishing agent, brightener, leather auxiliaries, pigment paste etc. Which media need to be emulsified and homogenized.



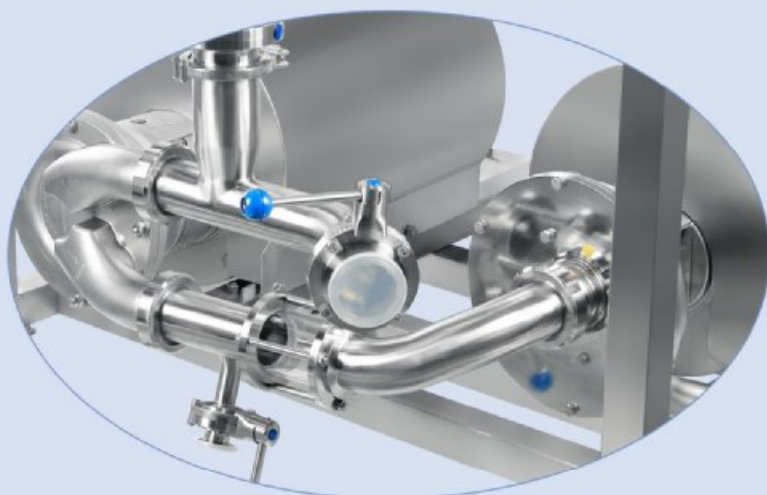
半导体 Semiconductor

纳米材质分散、解聚等。

Dispersion & depolymerization of nanometer materials etc.

PMZX 系列混合泵

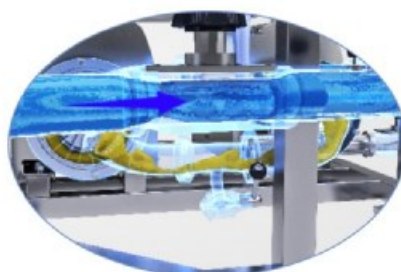
PMZX series mixing pump



简单、灵活、
经济、高效
Simple, flexible,
economical, efficient



粉体和液体被强力吸入泵腔
Powder and liquid are strongly sucked
into the pump chamber



物料被均质混合中
The material is
being homogeneously mixed



均质混合物被输送到罐设备中
The homogeneous mixture is transported
to the tank equipment

非常简单清晰的管路布局

- 多任务的处理；
- 配置粉体和液体比例可调节；
- 粉体进口设计有阀门，可通过阀门控制粉体被吸入的量，阀门可选择手动或气动；
- 液体进口设计有阀门，可通过阀门控制液体被吸入的流量；
- 料斗侧面设计有震动器，防止粉体堆积结块；
- 料斗上可配置音叉传感器，自动工作时防止粉体溢出料斗和粉体量过低导致混合物比例不相符。

Very Simple And Clear Piping Layout

- Multiple tasks can be handled simultaneously.
- Ratio between liquid and powder is adjustable.
- The powder inlet is designed with a valve that controls the amount of powder inhaled. The valve can be manual and pneumatic.
- The liquid inlet is designed with a valve that controls the flow of liquid inhaled.
- The side of the hopper is designed with a vibrator to prevent the powder from accumulating and agglomerating.
- The hopper can be configured with tuning fork sensor. when work automatically, the sensor can prevent mixture ratio from inconsistent caused by low amounts of powder, and also can prevent the powder from overflowing.



简单、灵活、经济
Simple, flexible, economical



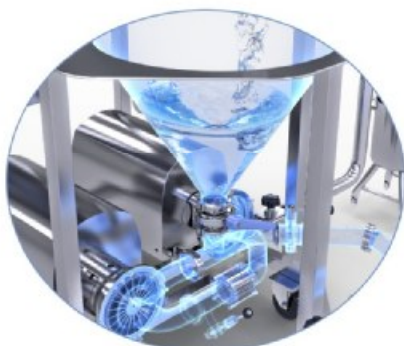
传感器 Sensor



震动器和阀门
Vibrator and valve



清洗液体灌入料斗
Cleaning liquid is poured into the hopper



清洗管路和料斗
Cleaning pipes and hopper



开启最低排放阀，排干清洗液
Open bottom discharge valve to drain the cleaning solution

非常简单清晰的电器控制布局

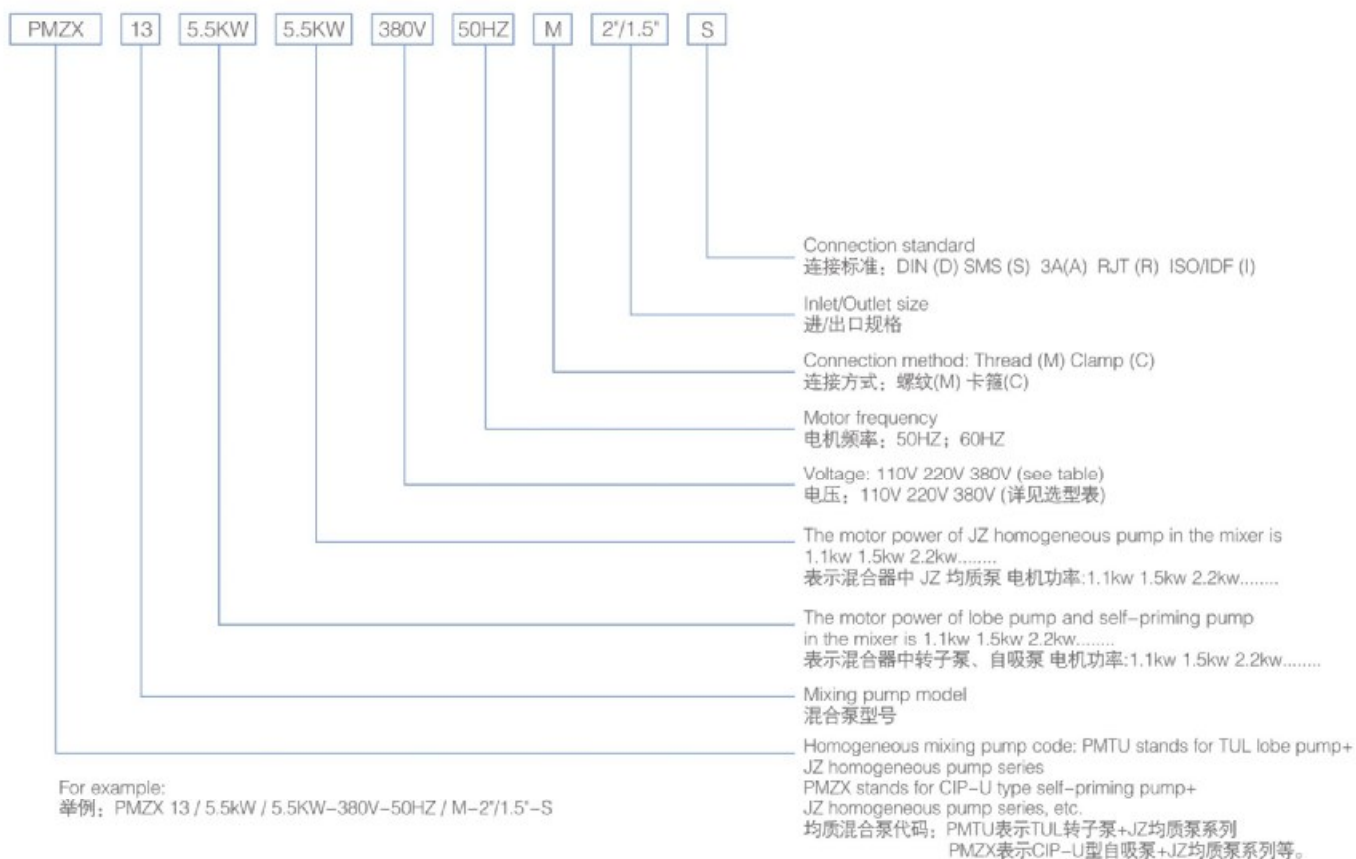
- 自吸泵，可通过变频器控制转速达到控制流量目地；
- 均质泵，可通过变频器控制转速，达到均质和混合的效果，同时控制流量目地；
- 控制箱，设计有电机过载保护电器，防止电机被烧毁；
- 控制箱，外壳设计工作指示灯，可通过灯分辨工作状态。

Very Simple And Clear Electrical Control Layout

- Self priming pump, can control speed by frequency inverter to achieve the purpose of controlling the flow.
- Homogeneous pump, can control speed by frequency inverter to achieve the effect of homogenization and mixing, meanwhile control the flow.
- Console, designed with motor overload protection to prevent motor from being burned.
- Console, the shell is designed with work indicator, can distinguish working condition through the light.

PMZX 混合泵型号说明

PMZX mixing pump model description



PMZX 混合泵选型表

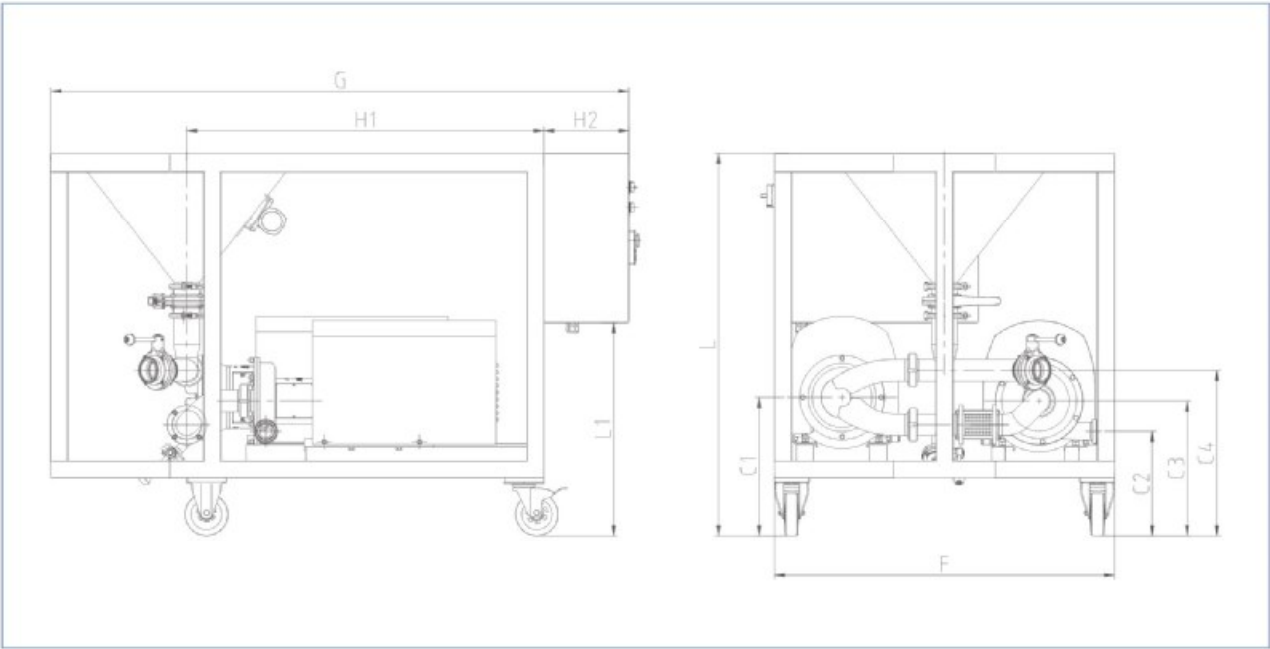
PMZX Mixing pump selection table



均质混合泵 Homogeneous mixing pump	自吸泵 Self-priming pump		乳化均质泵 Emulsifying homogenizing pump		粉体处理量(kg/h) Powder processing capacity			进口 Inlet	出口 Outlet	加料斗 容量 Hopper capacity (L)	重量 Weight (kg)
	转速 Rotate speed (1450-MIN)		转速 Rotate speed (2950-MIN)		砂糖类 Sugar class	脱脂牛奶 蛋白粉类 Skim milk Protein powder class	增稠剂粉末(例如, 果胶钠酪蛋白酸盐, 取决于等级和浓度) Thickener powder (for example, pectin sodium caseinate, depends on grade and concentration)				
	自吸泵 (型号) Self-priming pump (Model)	功率 Power (KW)	均质泵 (型号) Homogeneous pump (Model)	功率 Power (KW)							
型号 Model											
DJ-PMZX-13	CIPU-10	5.5	JZ1-10	5.5	500	450	100-200	2"-DN50	1.5"-DN40	45	537
DJ-PMZX-15	CIPU-10	5.5	JZ1-15	7.5	1000	900	200-400	2"-DN50	1.5"-DN40	45	560
DJ-PMZX-17	CIPU-10	5.5	JZ1-20	11	1800	1600	300-500	2"-2.5"-DN50-65	2"-DN50	45	611
DJ-PMZX-19	CIPU-20	7.5	JZ1-30	15	3500	3200	600-1200	DN65-3"-DN80	2"-2.5"-DN50-65	65	640
DJ-PMZX-21	CIPU-20	11	JZ1-35	18.5	5000	4500	1200-2000	DN65-3"-DN80	2.5"-DN65	65	732
DJ-PMZX-24	CIPU-30	11	JZ1-240	22	10000	9000	1500-3000	4"-DN100	DN65-3"-DN80	65	784

PMZX 混合泵数据图

PMZX Series mixing pump data chart



系列 Model	外形安装尺寸 Assembly Dimension									
	C1	C2	C3	C4	F	G	H1	H2	L	L1
DJ-PMZX-13	355	278.5	355	485	1050	1750	1050	300	1011	624
DJ-PMZX-15	355	257	355	485	1050	1750	1050	300	1011	624
DJ-PMZX-17	355	283.5	384	514	1050	1750	1050	300	1011	624
DJ-PMZX-19	355	256.5	384	514	1050	1750	1050	300	1011	624
DJ-PMZX-21	355	243	384	514	1050	1750	1050	300	1124	624
DJ-PMZX-24	383	243	404	514	1050	1750	1050	300	1124	624

注意：以上数据图相关尺寸不作为实物最终依据，东正保留对于数据更新权限不再另行通知。
Note: The relevant dimensions of the above data diagrams are not regarded as the final basis of the actual object.
DONJOY reserves the right to update the data without further notice.