PerMix
Perfect Mixing Technologies

WE OFFER PERFECT MIXING TECHNOLOGIES



PHARMACEUTICAL

NUTRACEUTICAL

FOOD

CHEMICAL

BIO

HEALTH & BEAUTY

LUMP BREAKERS

What Is A Lump Breaker

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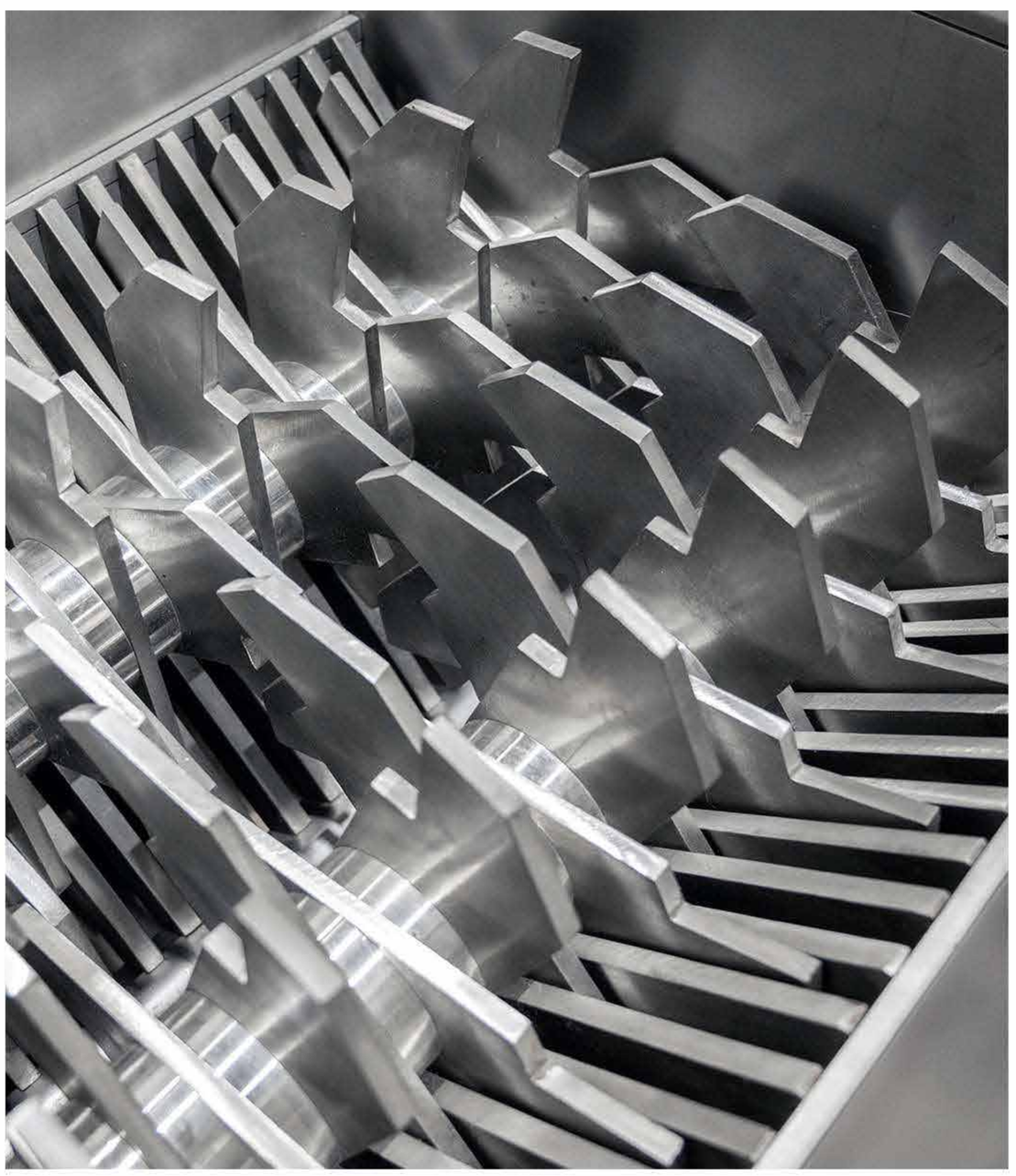
A lump breaker, also known as a lump crusher, de-lumper, or lump disintegrator, is a machine used to reduce the size of lumps or agglomerates in a variety of industries. It is designed to break down materials such as clumps, chunks, or blocks into smaller, more manageable sizes. This process is crucial for several reasons, including improving product quality and enhancing production efficiency. Typically, theses are used as a form of per-conditioning materials prior to entering a mixer. However, they can also be used in discharging product to ensure no lumps, bumps, or clumps remain in the mixture upon discharge.



When To Use A Lump Breaker

Lump breakers are commonly used in industries such as food processing, chemical, pharmaceutical, and mining, where materials often form agglomerates or lumps, bumps, or clumps form during storage or handling. These lumps can cause issues during further processing, such as uneven mixing, clogging, or inconsistent product quality. Therefore, it is essential to use a lump breaker when encountering such challenges.





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How A Lump Breaker Increases Quality And Production

Using a lump breaker in the process of mixing powders can have several advantages. Firstly, it helps to break down large lumps into smaller, more uniform particles, ensuring a homogeneous mixture. This, in turn, leads to improved product quality, as the ingredients are evenly distributed throughout the mixture.

Additionally, a lump breaker increases production efficiency by reducing processing time. By breaking down lumps before mixing, the powders can be blended more easily and quickly, resulting in increased throughput and overall productivity.

Furthermore, a lump breaker helps to prevent equipment damage and reduce downtime. Large lumps or agglomerates can cause blockages or jamming in processing equipment, leading to costly repairs and production interruptions. By employing a lump breaker, these issues can be mitigated, ensuring smooth operation and minimizing equipment downtime.

In conclusion, a lump breaker is a valuable tool in various industries, especially when it comes to mixing powders. Its ability to break down lumps, improve product quality, boost production efficiency, and prevent equipment damage makes it an essential component in many manufacturing processes. By investing in a reliable lump breaker, businesses can optimize their operations and achieve better results in terms of quality and productivity.



PerMix DE-LUMPER MODEL PLB-1

GENERAL DESCRIPTION

The PerMix de-lumper is a crucial part of pre-conditioning ingredients that have a characteristic of clumping & lumping while in storage. The dual shaft de-lumper with fixed blades/hammers easily break apart clumps & bumps prior to going into the mixer, creating a more efficient mixing experience and improving quality while decreasing batch time, which all leads to an increase in production. The blades/ hammers are reversible and also are removable for ease of cleaning. The all stainless construction features a hygienic design that is perfect for food, nutraceutical, and pharmaceutical applications.



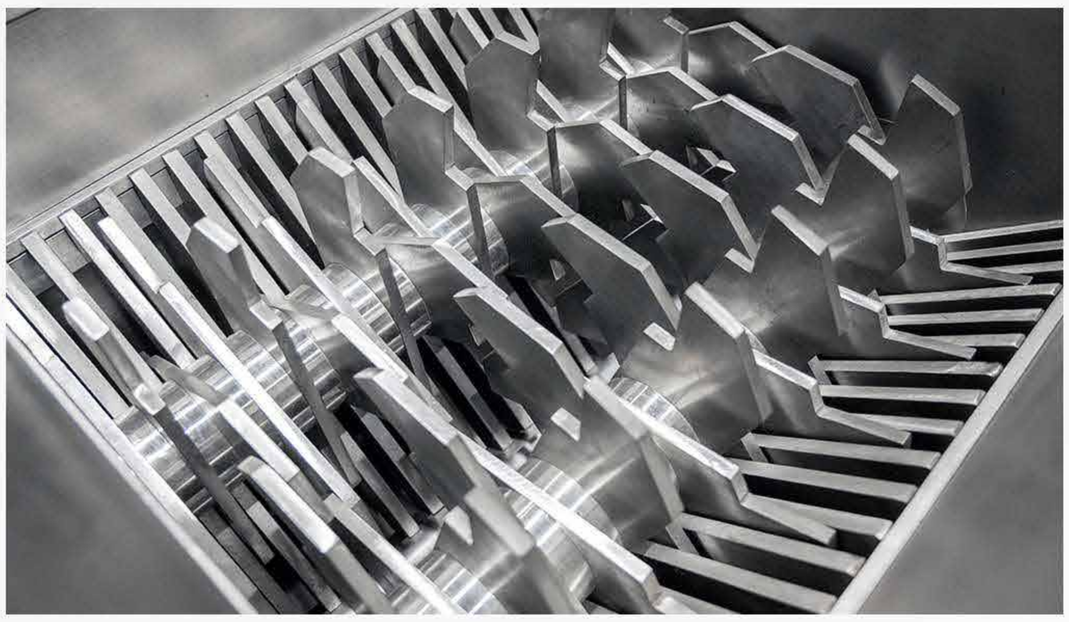
GENERAL FUNCTIONAL FEATURES

- 304 Stainless steel construction
- Dual shafts with static, fixed blades, reversible
- Powder chamber with flange connections
- Removable blades for ease of cleaning
- PTFE packings & seals
- Standard crushing area is 300mmx300mm
- TEFC motor with gear box
- Chain driven transmission

- 304 S/S Construction
- Removable blades/hammers
- Sanitary Construction W/ Removable/ Breakdown Of Parts

WARRANTY

- Labor: 1 year • Parts: 2 years
- Body & frame: 3 years



STANDARD EQUIPMENT

- Base unit as described with a 2.2kW TEFC motor 230/460v/50-60hZ/3ph
- 304 stainless steel
- Hygienic design

OPTIONAL EQUIPMENT

- Custom powder chamber size
- Ex/ATEX rating
- Various mount types
- Control panel
- 316 stainless option
- CIP ready option

SAFETY FEATURES

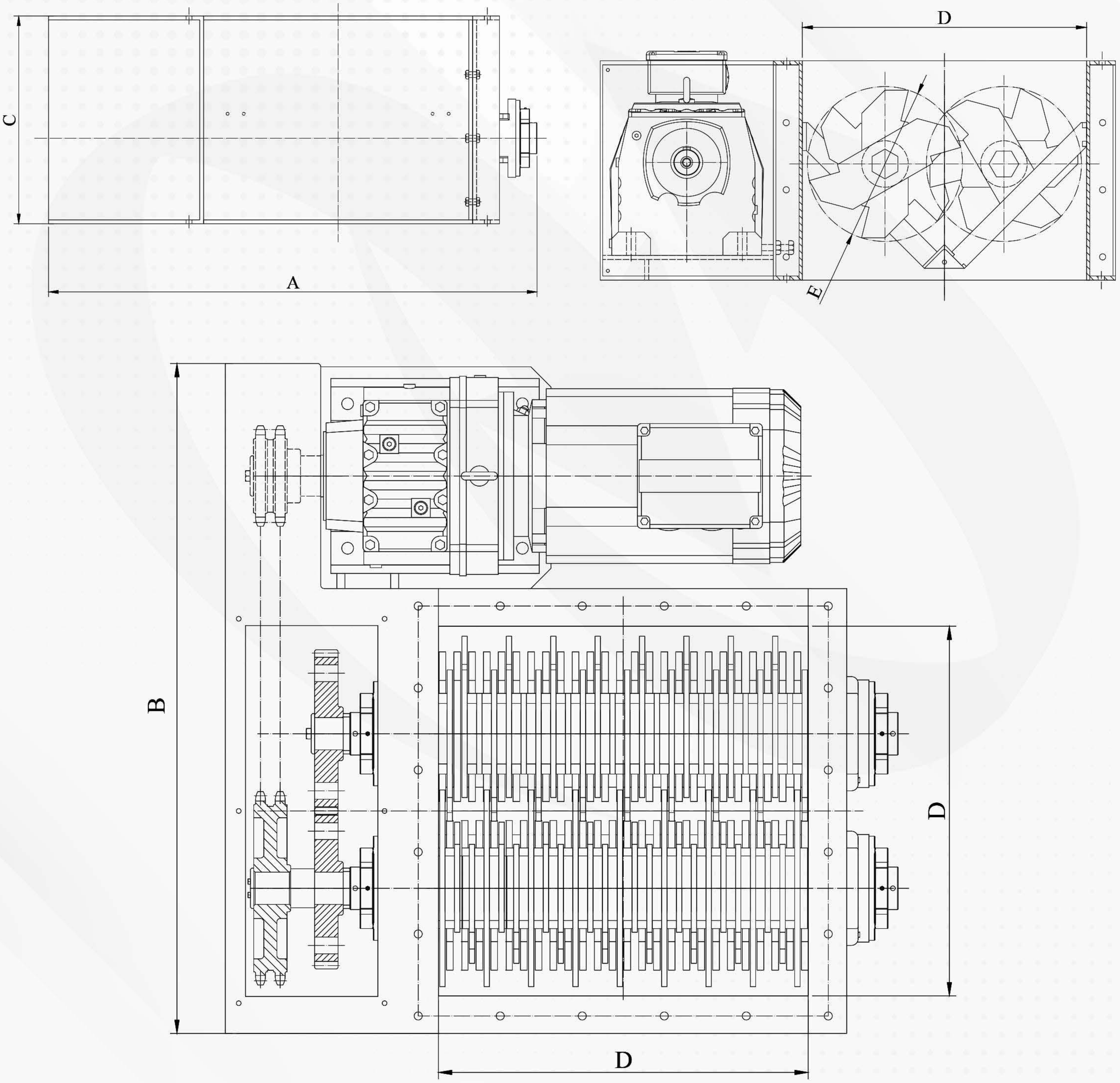
- Removable safety grate
- Overload protection
- Chain guard
- E-stop

CERTIFICATIONS

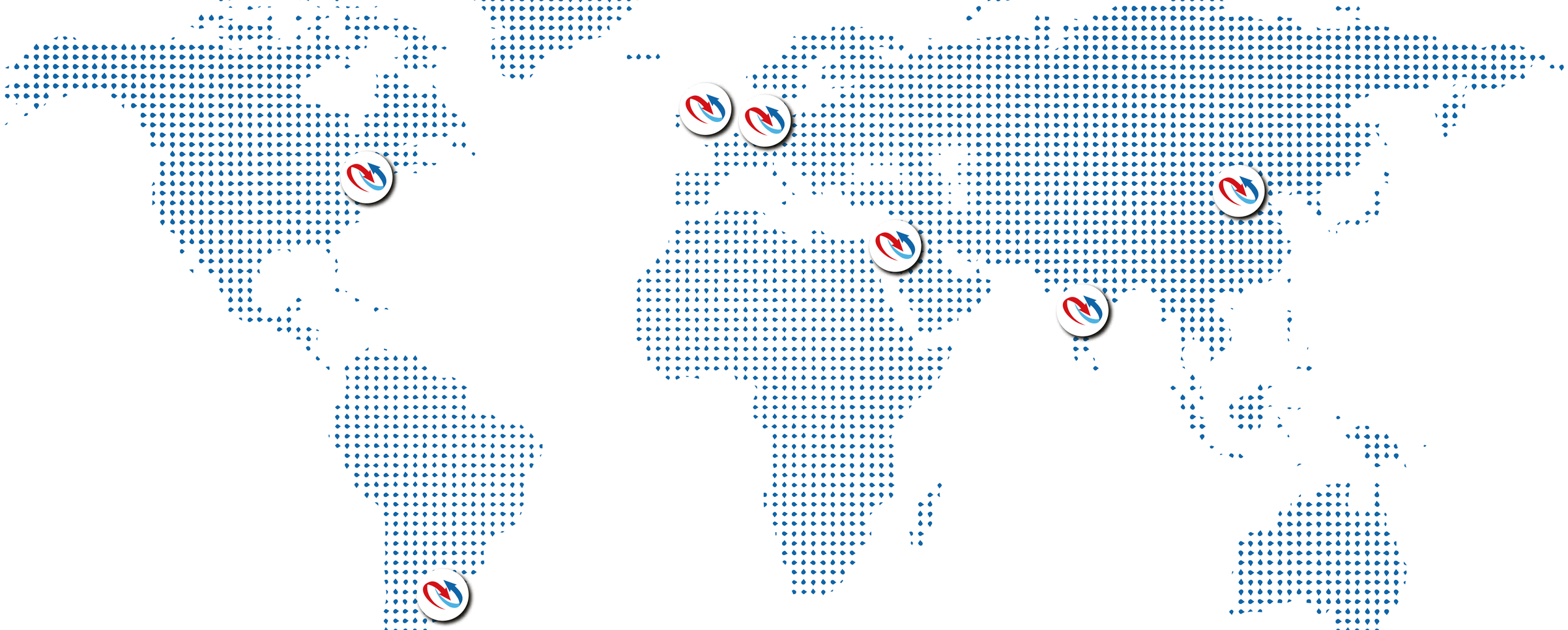
Product carries CE certifications as standard and UL, CSA, Ex, and ATEX are all optional

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Model	Capacity, M3/h	kW	RPM	A, mm	B, mm	C, mm	DxD, mm	E, mm	Weight, kg
PLB-1	15~35	2.2	70	685	660	260	300x300	160	250
PLB-2	25~45	5.5	70	880	845	350	450x450	250	350
PLB-3	30~50	7.5	70	1,000	1,000	425	550x550	300	420



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Along with our HQ, factories, and offices listed above, PerMix is proud to be a global company providing global sales & service to all regions. Please contact one of the above listed offices for sales & service in other regions.