

CMX Solid-Liquid Mixing System

IKA®

NEW!



designed
to work perfectly

CMX | Solid-Liquid Mixing in Batch Processes

The IKA® CMX 2000 is an inline mixer for rapid and homogeneous incorporation of powders into liquids. The circulation of fluid creates a powerful vacuum in the machine that draws in the powder. This ensures an agglomerate free integration of problematic powders that are not easily incorporated into the liquid phase. The multi-level design also enables a stable level of functionality even when working with high viscosities. Specific tools can be used to achieve the optimum dispersing quality.



Benefits

- > Considerable reduction of manufacturing times
- > Prevention of dust and solvent emissions due to enclosed system
- > Reliable prevention of agglomerates
- > Reduced raw material addition time through improved break down of raw materials
- > Prevention of deposits in the container
- > Self-regulating input of solids and liquids



Modular and flexible
Easily adapted to fit individual application requirements thanks to its modular design.



Clean in Place



Explosion proof

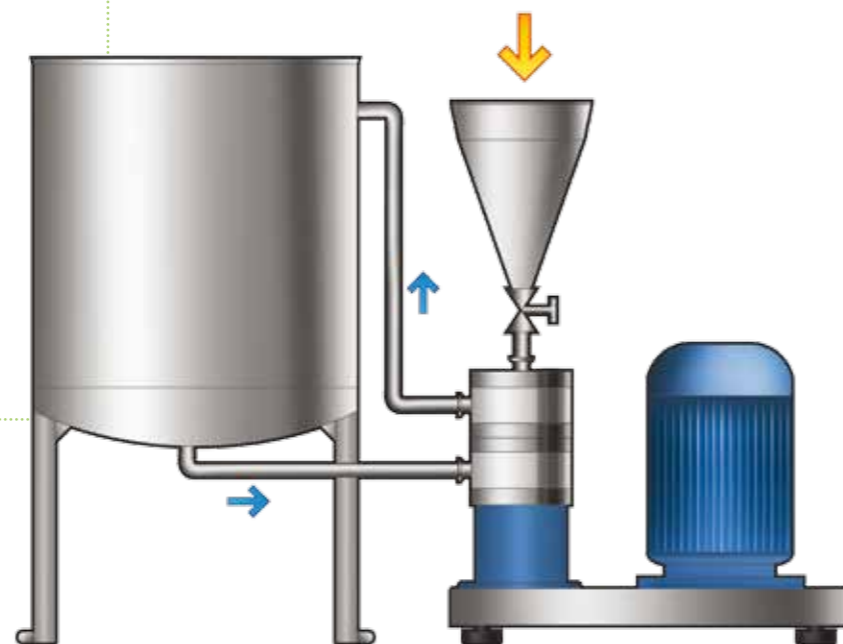


GMP-certified

One of a Kind

- > **The 2-stage execution with pump and dispersion stage guarantees stable, high-level circulation, even when working with increasing viscosity. This enables extreme suction rates and minimal production times to be achieved.**
- > **The CMX is easily adapted to fit installation and process requirements, can be installed horizontally or vertically, has a low installation height, and has constant circumferential speeds at varying power frequencies**
- > **Intelligent accessory components, such as a piston valve for isolating solids with a cleaning function and ability to automate the solid feed quantity**

The CMX is commonly used in a recirculation process. An appropriate quantity of solids is incorporated into a fixed volume of liquid using the inline device. The CMX offers a simple, functional and cost-efficient method of incorporating solids into liquids, without the need for additional powder dosing systems or pumps. In a highly efficient inline process, small volumes of powder are dispersed into a highly turbulent area free of agglomerates.



Depending on requirements, the solid material can be fed via a bulk bag unloader, a funnel, sack-emptying boxes or directly from the bag via a suction wand.



CMX | Technical Data

| Type | Typical batch sizes [l] | Circulation rate [l/h] | Max. diffusion of solids [kg/h] | Motor power [kW] | Max. viscosity of end product [mPas] |
|--------------------------------|-------------------------|------------------------|---------------------------------|------------------|---|
| CMX 2000/03 (magic LAB®) | 2 – 15 | 1,500 | 250 | 0.9 | 1 – 3,000, up to 200,000 with additional discharge pump |
| CMX 2000/04 (PROCESS-Pilot) | 10 – 250 | 5,000 | 1,300 | 4 | 1 – 5,000, up to 200,000 with additional discharge pump |
| CMX 2000/05 | 100 – 1,000 | 14,000 | 4,700 | 15 | 1 – 10,000, up to 200,000 with additional discharge pump |
| CMX 2000/10 | 200 – 2,500 | 32,000 | 8,900 | 30 | 1 – 10,000, up to 200,000 with additional discharge pump |
| CMX 2000/20 | 800 – 8,000 | 70,000 | 16,200 | 55 | 1 – 10,000, up to 200,000 with additional discharge pump |
| CMX 2000/30 | 3,000 – 15,000 | 110,000 | 25,500 | 110 | 1 – 10,000, up to 200,000 with additional discharge pump |
| CMX 2000/50 | > 5,000 | 200,000 | 46,000 | 200 | 1 – 10,000, up to 200,000 with additional discharge pump |

All figures are based on water and depend on the product attribute

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