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CMX 2000/04 (PROCESS-Pilot)

/// Data Sheet

The CMX 2000 inline mixer is designed to effectively incorporate powders into liquids and maintains consistent mixing during the batch process, which is crucial for producing high-quality electrode slurries. The homogeneity of these slurries directly influences battery performance and life span.

Multi-level design and unique pumping stage facilitate processing high viscosity products without needing additional aggregates. The CMX system can be supplied with a solid material dosing feeder and mixing containers as separate components for more controlled material flow into the mixing system. As a result, the process achieves the necessary slurry homogeneity while providing flexibility to scale operations across diverse battery production capacities.



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Applications

Mixing a diverse array of battery slurry compositions that incorporate materials utilized across various battery technology platforms.

Ideal for handling high-viscosity substances or materials that require persistent blending to achieve better integration to achieve uniformity in electrode slurries, directly impacting quality and durability.

Particularly beneficial in production processes where repeatable mix quality is essential for maintaining homogeneity in large-scale battery manufacturing operations.



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Technical Data

Typical batch sizes	20 - 250 l
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Circulation rate	5000 l/h
Circulation rate	5000 l/h
Diffusion of solids max.	1300 kg/h
Diffusion of solids max.	1300 kg/h
Motor power	4 kW
Motor power	4 kW
Rotor rotational speed	8050 rpm
Rotor rotational speed	8050 rpm