

QAnon's Biggest Booster: Truth Social

# Newsweek<sup>®</sup>

INTERNATIONAL



## HOOKED ON HYPE

**ANTIDEPRESSANTS  
WORK NO  
BETTER THAN SUGAR  
PILLS FOR MOST  
OF THE 43 MILLION  
AMERICANS  
WHO TAKE THEM**



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ISSN 2052-1081



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# Tsukishima Kikai provides equipment for the manufacture of LiB materials

Tsukishima Kikai's engineering capabilities allow us to provide integrated production facilities to produce LiB cathode active materials from precursors through to active materials.

Tsukishima Kikai is a machinery and plant manufacturer that has been providing its clients with chemical, steel and food instruments, as well as water and sewage facilities, throughout its 117-year history. In 2020, we acquired PRIMIX, a manufacturer of high-speed dispersion equipment, and have since been concurrently collaborating with them in the field of lithium-ion batteries (LiBs).

Our company has been deploying manufacturing plants for active anode and cathode materials, as well as electrolytic solutions, in Japan and overseas, vital materials used for LiBs in electric cars. We count on an excellent track record in crystallization, filtration, weighing and mixing technologies thanks to our in-house developed machinery. This allows us to maintain and ensure the quality of active

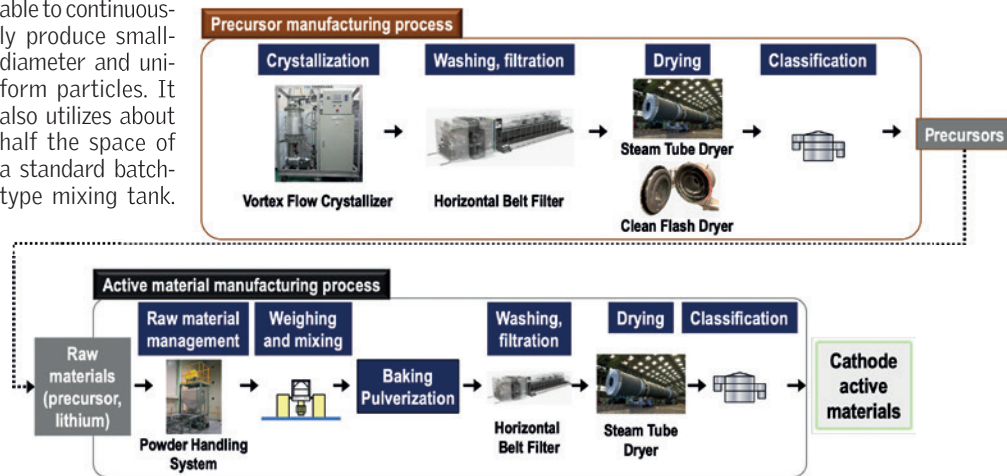
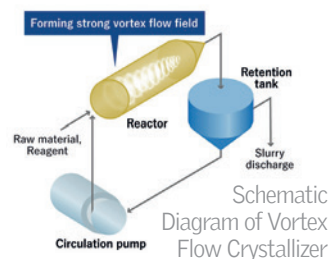
cathode materials, which can greatly impact the performance of LiBs.

Crystallization, in particular, requires precise particle production technology to generate small diameter and variation-free crystals. The Vortex Flow Crystallizer is able to continuously produce small-diameter and uniform particles. It also utilizes about half the space of a standard batch-type mixing tank.

Furthermore, manufacturing and wastewater facilities can also be seamlessly integrated into one single engineering operation.

Tsukishima Kikai will focus on expanding LiB manufacturing machinery sales and contribute to the decarbonization of our society.

**TSK**  
TSUKISHIMA  
KIKAI  
www.tsk-g.co.jp/en



## PRIMIX offering quality mixing solutions for a diverse range of industries

**PRIMIX**  
www.primix.jp/en

From cosmetics to batteries utilized in EVs, PRIMIX Corporation makes sure to offer the best mixing solutions to achieve high-quality products.

Since the early stages of our consumer-grade lithium-ion battery (LiB) production, PRIMIX Corporation has been the pioneer in triple-shaft planetary-type batch mixing technology, combining low-speed double rotating shafts with twisted blades with a high-speed rotating shaft into one single product; like the HIVIS DISPER MIX.

PRIMIX has also built up a track record for its electrode slurry production equipment. We first began development of our electrode slurry production instruments for EV batteries in the 2000s; and came up with the CDM Process (CDM: Continuous Dispersion Mixing), a continuous electrode slurry production process. The CDM Process is the core technol-

ogy behind FILMIX, a thin-film high-speed mixer. With this product we have simplified complicated processes with conventional batch mixers and thus have dramatically improved production efficiency.

With our expertise in manufacturing equipment we are able to cover our customers production processing needs with both the HIVIS DISPER MIX and the CDM process. Furthermore, additional research equipment can also be ordered in conjunction. We have also supplied countless customers with LiB manufacturing equipment, as well as with all-solid state battery research tools. We will continue to solve problems with battery manufacturing processes as manufacturing technologies progress.



FILMIX Model 252



FILMIX Model 40-L



HIVIS DISPER MIX Model 3D-2