

# SECONDARY BATTERY APPLICATION GUIDE BOOK

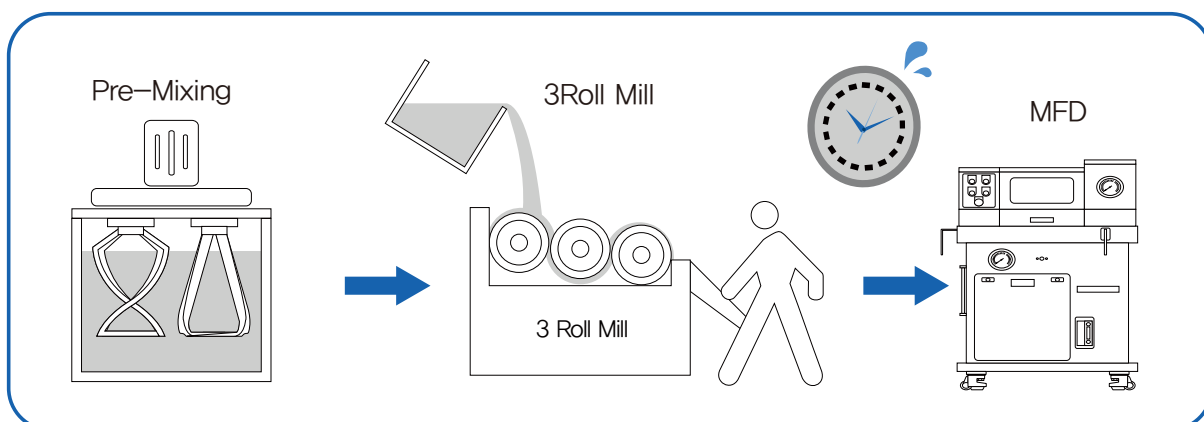


## Secondary battery manufacturing process



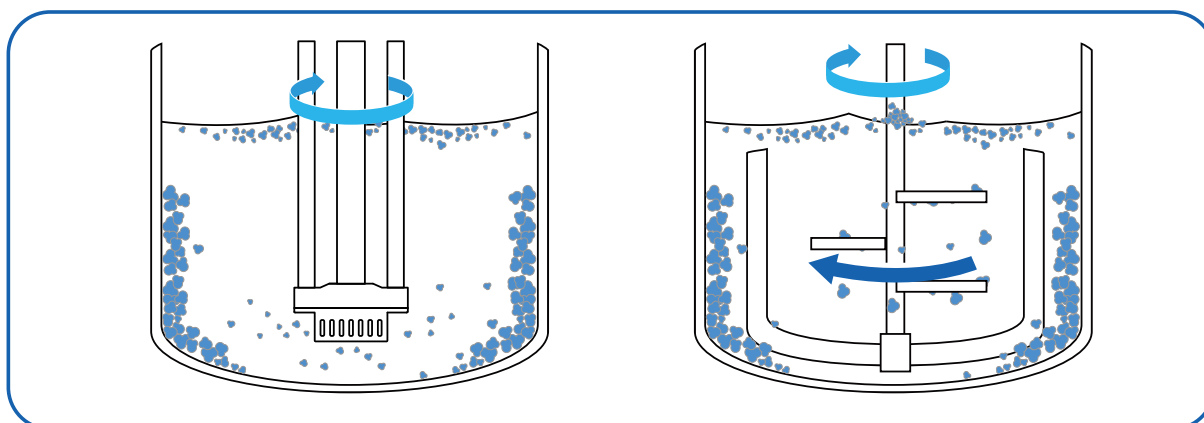
### Problems with the existing process

1) Production of anode material and cathode material binder The process of dissolving PVDF powder in NMP, which is mainly used for the production of cathode material binders, and the dissolving of water and CMC, which are mainly used for the production of cathode material binders, are an important part of the process. However, with a regular stirrer, the process of dissolving these powders into the liquid takes a long time and the quality of the dissolution is poor. Therefore, in order to obtain the desired quality, additional processes such as 3-roll mill or MFD (Microfluidizer) must be carried out, so the process time is quite long.



### 2) Conductive material production

Recently, in the conductive material manufacturing industry, graphene or CNT (Carbon nanotube), which exhibits superior charge conductivity with a smaller amount than carbon black, is attracting attention. However, only when the conductive material is well dispersed, the coating becomes smooth and the electrical conductivity increases. Therefore, in order to efficiently use graphene or CNT as a conductive material, precise dispersion has become essential.



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