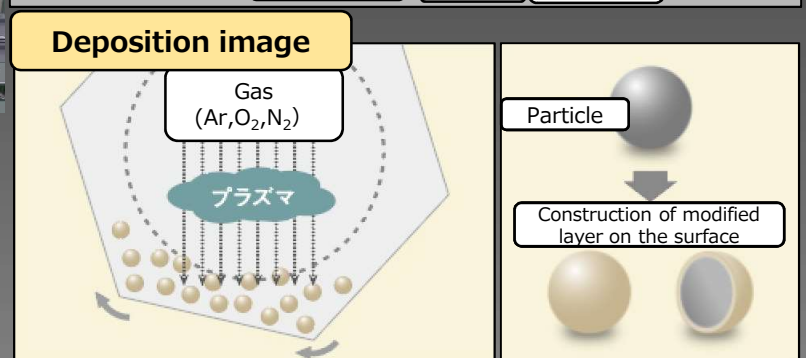
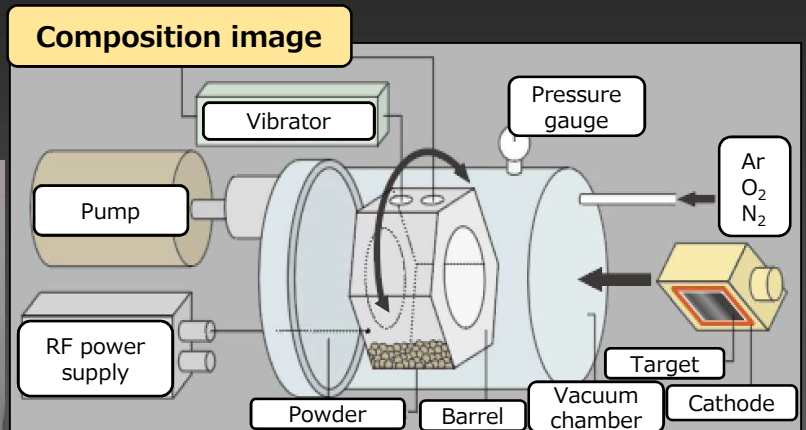


Contract powder coating

Powder sputtering is a technique specialized to perform sputtering on fine particles, which is generally done only for plate-like samples, large bulk, etc. By applying powder as a base material in polygonal barrel and forming the film while rotating it, powder is coated uniformly and efficiently. Powder coating is used for various applications such as catalysts, cosmetic raw materials, decorative materials, ceramics raw materials, etc. In recent years, it has attracted attention as a technology for manufacturing lithium ion battery materials. After cooperative research with Professor Abe of Toyama University, we started trial production of powder coating (sputtering / surface modification).

< External / internal image of equipment >



<Reference case>

Coating LiNbO_3 on $\text{LiNi}_{0.33}\text{Co}_{0.33}\text{Mn}_{0.33}\text{O}_2$ (NCM111)

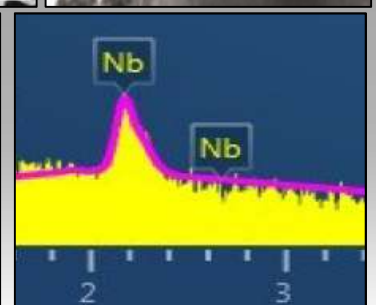
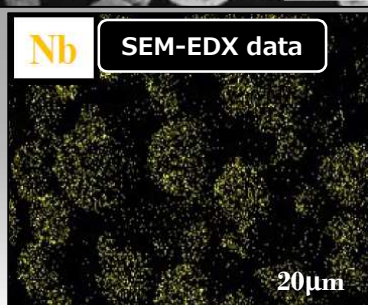
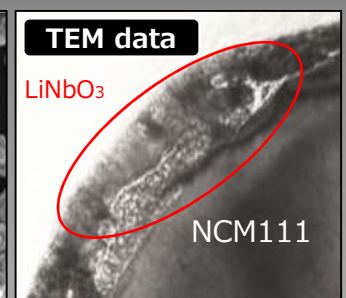
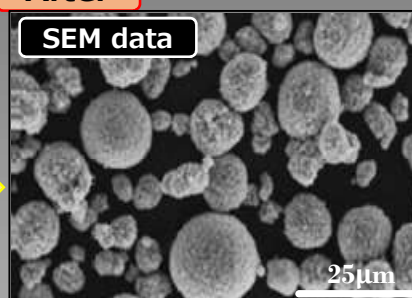
Before



Material: $\text{LiNi}_{0.33}\text{Co}_{0.33}\text{Mn}_{0.33}\text{O}_2$ powder

LiNbO_3 coating

After



We have many other achievements. Please feel free to contact us for anything.

TOSHIMA Manufacturing Co., Ltd.
Materials system division

Toshima Manufacturing Co., Ltd.
1414 Shimonomoto, Higashi-Matsuyama,
Saitama, 355-0036 Japan
TEL: +81-493-24-6774
URL: <http://www.material-sys.com/global/>