



**NARA**

EXPERIENCE THE POWER OF NARA

# NARA Hybridization System (NHS)



Lab size machine (NHS-0) for R&D

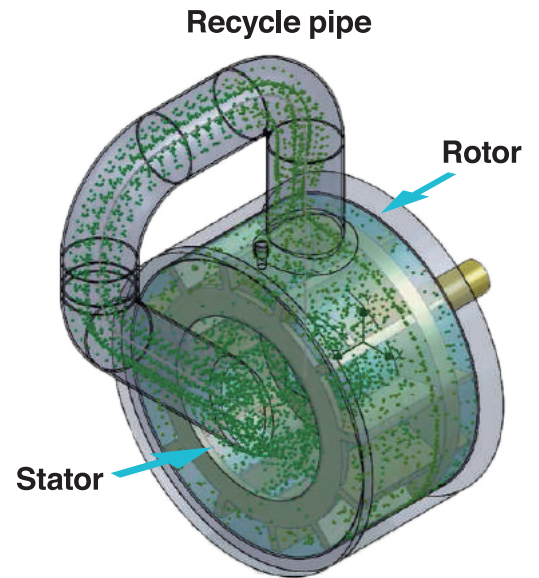
- ▶ The hybridization system (NHS) is a microparticle surface coating and spheronizing device, which is widely used in the case of graphite spheroidization for lithium ion battery anode, 3D printer, toner, etc.

## Specification

Model	Power (kW)	Feeding quantity (g/batch)	Rotor Dia. (mm)
NHS-0	2.2	50	118
NHS-1	11	400	230
NHS-2	22	800	330
NHS-3	45	1600	470
NHS-4	90	3200	670
NHS-5	185	6400	948

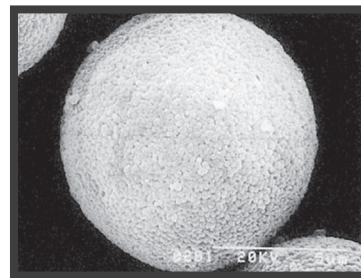
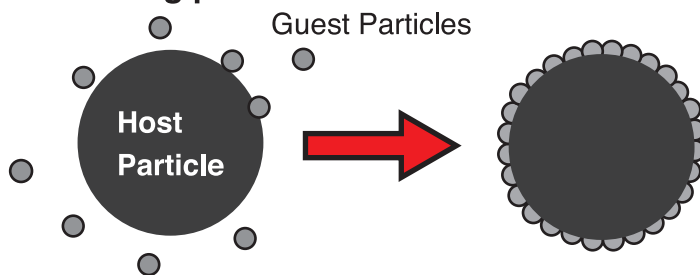
## Features

1. Fine particle coating in a highly dispersed state
2. Mechanical process in a dry method
3. Short process time (1-10 min)
4. Products from lab scale to production scale are available



## Surface Modification of Particles

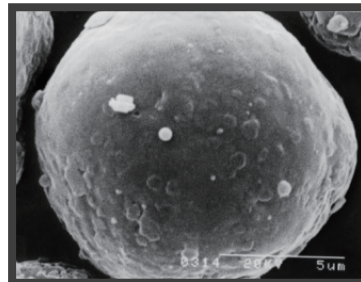
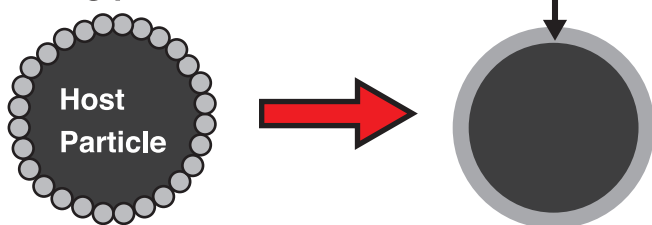
### Embedding process



Host  
▶ Nylon

Guest  
▶ TiO<sub>2</sub>

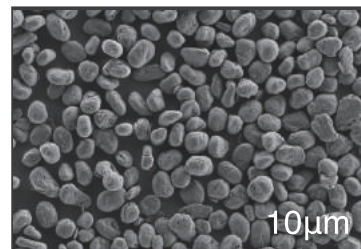
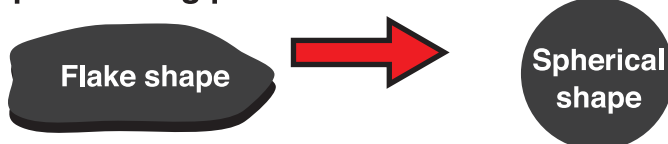
### Filming process



Host  
▶ Styrene resin

Guest  
▶ PMMA

### Spheronizing process



Graphite

## Application

Battery Materials  
3D printing materials  
Electroceramics

Cosmetics  
Toner  
Medical, Biomaterials

Polymer compounds  
Pharmaceuticals  
Food