The Dispersion Technology of Nanoparticle by High Speed Jet Processing E. Zhao, T. H. Chou, C. C. Su, S. Y. Hsu, C. H. Lai, 黃國饒 Mechanical Engineering Engineering kjhuang@chu.edu.tw

Abstract

The high speed jet processing equipment, designed by MSL/ITRI, is used for the dispersion of nanoparticles, including yellow pigment or zinc oxide, in the slurry,

Through the high speed jet processing, the nanoparticles dispersion technology is not only verified as effective, but also has mass production potential for the dispersion of organic and imorganic particles in solution. Nunerical calculation is also employed for the analysis of flow pattern in the micro channels of the equipment.

Keyword: High speed jet, Dispersion, Nanoparticle, Pigment, Zine exide