Thin Film Manufacture

Thin film manufacture using the spin-coating technique. The equipment available offers the possibility of depositing controlled thickness (nanometres and micrometres) thin films of materials in their liquid state (resins, photoresists and polymers, etc.).

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Technological Offers type

Technological scientific services

Research and innovation areas

- Bioeconomy, Biotechnology and Food Systems
- Science For Engineering and Architecture
- Social Innovation, Open Science, Governance, and Education Science

ODS

Available from: 2021

Where?

Center for Biomedical Technology Photonic and Biophotonic Optics Group (GOFB)

Keywords: | coating | Manufacturing | micro fabrication | nano fabrication | spin-coating | thin sheets

Scientific and technology services

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KEY WORDS: thin film, spin-coating, coating, nano and micro manufacture

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Description of the services offered

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Needs requested and applications

There are many reasons for making thin film deposits: give a material a specific finish, make use of the optical properties offered by thin films, surface coatings, etc.

Sector or area of application

Micro and nano manufacture

Differential skills

Given the versatility of the available manufacturing equipment, it makes innovation possible with many materials. Furthermore, by complementing the equipment with the other optical profiling instruments, manufacture can be supervised at all times.

Equipment description

Spin-coating machine made by Laurell. Within its technical specifications, the equipment can reach revolutions of up to 6,000 rpm. The parameters for spin speed and acceleration time and curve are programmable. Apart from this, the entire manufacturing process is carried out in a clean room and a chemical fume hood to extract the evaporated solvents generated by the process.

Request for service

Contact by e-mail, putting ¿PROVISION OF SERVICE¿ in the subject, and the service in question with an approximate description of what

is required and the time line in the body of the e-mail.
Contact e-mails: info.gofb@gmail.com or betxu.santamaria@upm.es