



**LCI**

Part of the Nederman Group



# Extrusion & Spheronization

World Leading Technology and Process Expertise.



## LCI Corporation

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## From Powder to Pellet

LCI Corporation provides a wide variety of wet extrusion and spheronization technologies serving the pharmaceutical and chemical industries. LCI's patented extruders and spheronizers are manufactured by Fuji Paudal of Osaka, Japan, a world leader in powder agglomeration technology. For the past 35 years, LCI has been Fuji Paudal's exclusive distributors in the Americas.

The LCI Extrusion / Spheronization team is composed of engineers with years of highly specialized process experience, specifically in this area of agglomeration. Team members handle every aspect of the business – initial assessment, product testing / scaleup, quotations, project management, commissioning, and post-sale support. The LCI team can provide technology for all applications from laboratory scale to production, as individual components or full integrated systems.



LCI Continuous Drug Pelleting System

## Applications

### Chemical / Agrochemical

- Herbicides / Insecticides / Fungicides
- Catalysts
- Flavors
- Neutraceuticals

### Pharmaceuticals / Food

- Controlled Release Pellets
- Multi-Particulate Systems
- Sustained Release Polymer Coated Pellets
- Enteric Coated Pellets



## Extruders

LCI offers four types of low pressure extruders.

Extruder selection depends mainly on desired final product characteristics.

### Extrusion / Spheronization Process Benefits

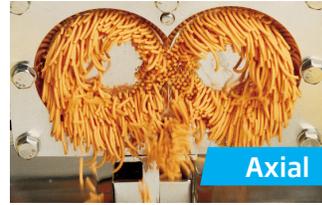
- Excellent product flowability
- Easy scale-up
- High yield
- Narrow particle size distribution
- Excellent process repeatability

LCI Extruders and Spheronizers are manufactured to general chemical industry standards and cGMP standards for pharmaceutical applications.

## Spheronizers

LCI offers a variety of spheronizers, known by the trade name Marumerizer®.

Single bowl, twin bowl, and cascade systems are available.



Axial



Radial



Basket



Dome

Twin



Single

# Development & Testing

LCI offers benchtop devices that allow formulation researchers and developers to evaluate various low pressure extrusion and spheronization techniques with their products.

The LCI Test Center is fully staffed and equipped with laboratory and pilot scale extruders, spheronizers, mixers, and feeders. Our test engineers can arrange laboratory and pilot-scale tests to evaluate customer products and develop processes. LCI also provides short-term equipment leases to allow clients a chance to evaluate the equipment at their facilities.



## Representative Client List

Akzo Nobel	Dupont	Merck & Co.
Amgen	DSM Pharmaceuticals	Monsanto
Apotex	Evonik	Mylan Pharmaceuticals
BASF	FMC Corporation	Paddock Laboratories
Bayer	Gowan	Pfizer
Boehringer Ingelheim	IFF	Stepan
Catalent	Inica	Syngenta
Colorcon	KV Pharmaceutical	Upsher-Smith
Covidien	Lilly	Van Diest

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