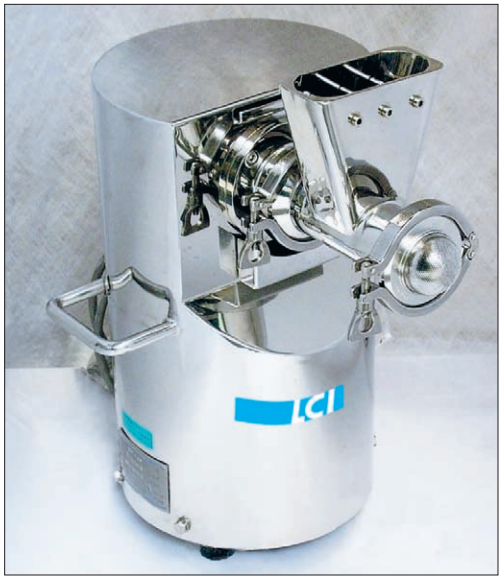
Laboratory MultiGranulator™

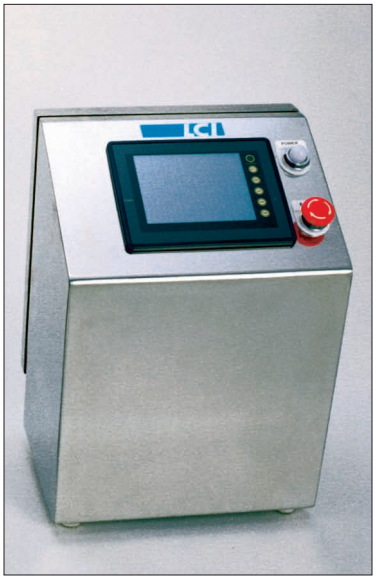
Model MG-55

TECHNICAL BULLETIN

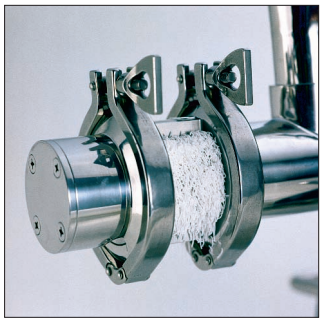
A versatile low pressure extrusion tool from LCI

The LCI Multi Granulator is a bench-top device that allows formulation researchers and new product developers to readily evaluate the best of three different types of low pressure granulation techniques—dome, radial, and axial extrusion—and determine which one suits their product. The Multi Granulator's size and unique design allow it to evaluate batches as low as 200 grams, saving time and money, yet generating product that is indicative of a full scale production system.





The LCI Multi Granulator is supplied with a touch screen control panel.



Three types of extrusion—axial, radial, and dome—can be evaluated by simply changing the extrusion head.

Features

- Single screw extruder with variable speed (10-90 rpm)
- Easily converts into a dome, radial, or axial extruder
- Capable of extruding granules from 0.3 mm to 8.0 mm diameter: axial from 2.0 mm to 8.0 mm diameter; radial from 0.6 mm to 1.2 mm diameter; dome from 0.3 mm to 2.0 mm diameter
- GMP design with 316SS contact parts; die is 304SS
- 1.0 hp 230 VAC/3/60 variable speed drive for extrusion screw
- Sanitary clamps allow for quick disassembly, cleaning, and conversion to any of the three extrusion configurations. No tools required.
- Separate stainless steel control panel with motor starter

Operation

The Multi Granulator is easy to setup and assemble with any of the three extrusion configurations for immediate use. A wet mixture is separately prepared manually or in a small batch mixer, also available from LCI. The extruder is fitted with the appropriate die (or screen). The prepared wet material is manually fed through the feed hopper. The wet mass is transported to the extrusion area by a single feed screw. The wet material is gently wiped through the die (screen) yielding well formed extrudates.

LCI Corporation is the exclusive distributor for Fuji Paudal Company, Ltd. in the Americas.

Laboratory Multi Granulator and Control Panel Dimensions (shown in mm)