

Benchtop Granulator™



TECHNICAL BULLETIN

Another low pressure extrusion research tool from LCI

TB-GR-101

The LCI Benchtop Granulator is a small table-top device that provides the researcher and new product developer a means to quickly evaluate the effectiveness of fine-granulation by extrusion. It can also be used for initial formulation development. In either case, time and money is saved because the product generated is indicative of that produced in a full-scale production system.

The laboratory granulator conserves valuable resources. Only a small amount of research material, sometimes only 100 grams per batch, is needed to obtain a good evaluation. Larger scale pilot plant testing, which can consume 5 to 10 kgs. per batch, can be deferred until additional information or more product samples are needed.

Operation

Prepared material is manually fed into a perforated basket which also serves as the extrusion screen. The material is forced through the screen by rotating blades. Blade speed and gap can be adjusted. The fine granules produced collect in a polished stainless steel receiving pan.

The Benchtop Granulator sets up quickly, ready for immediate use. All process wetted parts are made of stainless steel and disassemble easily for cleaning.

The LCI Benchtop Granulator includes four screens with 0.6, 0.8, 1.0 and 1.2 mm diameter holes. Other screens are available.



The Benchtop Granulator allows the researcher to quickly evaluate formulation viability.

