



Extrusion & Spheronization

LCI Corporation offers an extensive range of low pressure extruders and spheronizers for pharmaceutical and industrial applications.

Development Tools

Benchtop devices for evaluating extrusion and spheronization



MG-55

MG-55 Laboratory Multi Granulator™

Allows evaluation of three types of low pressure extrusion techniques—dome, radial, and axial—to determine which one best suits a product. Batch sizes as small as 200 grams. Capable of extruding granules from 0.6 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 0.6 mm to 2.0 mm diameter.

Benchtop Granulator™

Can evaluate batch sizes as small as 200 grams. Capable of extruding granules from 0.6 mm to 2.0 mm diameter.

QJ-230T Laboratory Marumerizer®

One liter nominal batch size. Batch operation with manual discharge valve.

BR-150 Basket Granulator™

Can evaluate small batch sizes. Capable of extruding granules from 0.6 mm to 2.0 mm diameter.

KDRJ-2 Batch Kneader™

For mixing powders and liquids to produce homogeneous mixtures suitable for low pressure extrusion. 1.2 liter batch size.

Dome Extruders

Production scale twin screw extruders available in cabinet style or flat bed models



TDG-80A

TDG-80 Twin Dome Granulator™

Capable of producing 100 to 150 kg/hr. Dome dies capable of producing 0.6 to 2.0 mm diameter extrudates.

TDG-110 Twin Dome Granulator™

Capable of producing 200-300 kg/hr. Dome dies capable of producing 0.6 to 2.0 mm diameter extrudates.

***TDG-220 Twin Dome Granulator™**

Capable of producing 800-1200 kg/hr. Dome dies capable of producing 1.0 to 2.0 mm diameter extrudates.

Radial Extruders

Production scale twin screw extruders available in cabinet style or flat bed models



EXD-180

EXDS-60G Xtruder™

Capable of producing 30-50 kg/hr. Capable of extruding granules from 0.6 to 2.0 mm diameter.

EXDS-100G Xtruder™

Capable of producing 100-300 kg/hr. Capable of extruding granules from 0.6 to 2.0 mm diameter.

EXDS-130G Xtruder™

Capable of producing 200-500 kg/hr. Capable of extruding granules from 0.6 to 2.0 mm diameter.

***EXDS-180 Xtruder™**

Capable of producing 500-1200 kg/hr. Capable of extruding granules from 0.6 to 2.0 mm diameter.

*Non-pharma applications

Radial extruders can be provided with axial discharge for large extrudates (2.0 - 8.0 mm)



Extrusion & Spheronization

LCI Corporation offers an extensive range of low pressure extruders and spheronizers for pharmaceutical and industrial applications.

Basket Extruders

Production scale extruders which use gravity feed rather than screw feed for extremely low pressure extrusion



BR-200

BR-200 Basket Granulator™

Capable of producing 50-100 kg/hr. Screen sizes from 0.6 to 2.0 mm.

BR-450 Basket Granulator™

Capable of producing 150-750 kg/hr. Screen sizes from 0.6 to 2.0 mm.

BR-600 Basket Granulator™

Capable of producing 750-1500 kg/hr. Screen sizes from 0.6 to 2.0 mm.

Spheronizers

Production scale spheronizers



QJ-700TWG

QJ-400TG Marumerizer®

4 liters nominal batch size. Batch operation with manual discharge valve.

QJ-700TG Marumerizer®

20 liters nominal batch size. Batch operation with automatic discharge valve.

QJ-700TWG Twin Bowl Marumerizer®

20 liters nominal batch size per bowl. Two separate bowls for large-scale production. Batch operation with automatic discharge valve.

***QJ-1000 Marumerizer®**

50 liters nominal batch size. Batch operation with automatic discharge valve.

***QJ-1000TWG Twin Bowl Marumerizer®**

50 liters nominal batch size per bowl. Batch operation with automatic discharge valve. Two separate bowls for large-scale production.

*Non-pharma applications