

# Twin Dome Extruder

## Model TDG-110G

LCI's TDG-110G Twin Dome Granulator is a production scale twin screw extruder, which converts wetted powders into pellets of a controlled size and shape ideally suited for spheronization.

### Features

- Low pressure extrusion with negligible heat generation
- Screw transport ensures plug flow, first in first out
- Two 110 mm diameter screws
- Easy-to-clean clamshell design extrusion chamber for easy access to process parts
- Hydraulic clamping system for ease of disassembly
- Capable of producing 200-300 kg/hr
- Dome dies capable of producing 0.6-2.0 mm diameter extrudates
- 316 SS GMP design with high polish finish
- Caster mounted
- 10 hp inverter duty motor in 460 VAC/3/60
- Integrated controls on articulating arm / integrated electrical panel

### Operation

The wet mix, which is typically prepared in a high shear granulator, is metered into the feed hopper by a feeder. Twin screws transport the wet mix to the extrusion zone where it is then wiped through a dome die (screen) to produce well formed, cylindrical extrudates of a controlled diameter. The extrudates break off by their own weight and are collected for the next processing step.



*The patented hemispherical shaped dies result in evenly distributed extrusion forces.*



*Integrated controls are mounted on an articulating arm.*



*Left: The extrusion chamber with clamshell design opens quickly for easy cleaning and screen changing.*

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# Twin Dome Granulator TDG-110G and Control Panel Dimensions (shown in mm)

**Weight:** 900kg

