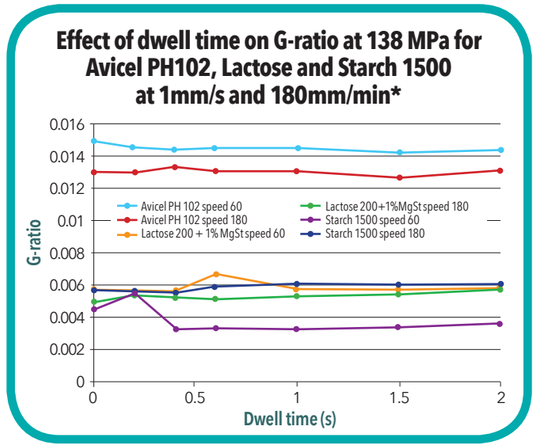
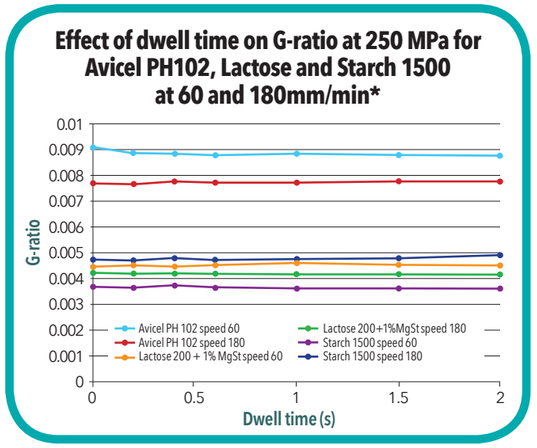
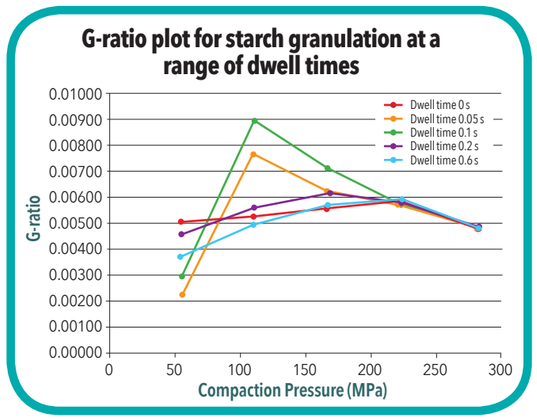
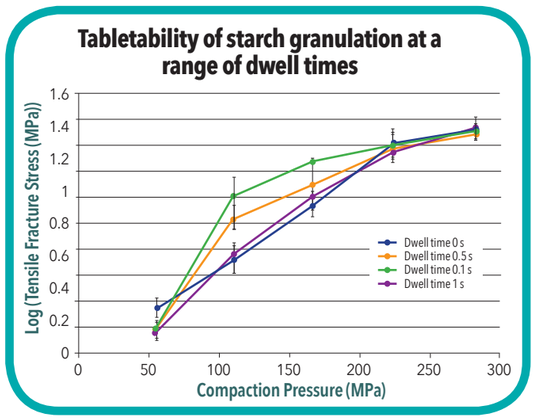



*Speed 60 = 1mm/s Speed 180 = 3mm/s

## D SERIES SPECIFICATION

| | |
|---|---|
| **Tablet punch size** | 2 – 15 mm diameter |
| **Material capacity of the die** | 2 – 400 mg |
| **Compaction rate** | 0.01 – 3 mm/s |
| **Data capture rate** | 10-1000 Hz |
| **Maximum load** | 500 kg |
| **Load cell travel** | 30 mm |
| **Test height** | Depends on pillar extension length. Maximum extension of 300 mm |
| **Detachment System punch size range** | 3-6 mm |
| **Load selection** | User selected by computer interface |
| **Load cell resolution** | 1:5000 |
| **Calibration** | Dead weights in kg or proving ring |
| **Power requirements** | 90-240 VAC 3.15A |
| **Instrument dimensions** | 310 x 270 x 375 mm |
| **Instrument weight** | 16 kg |
| **Shipping size** | 390 x 350 x 390 or 460 x 430 x 480 mm |
| **Shipping weight approx** | 20 kg |

## Have a question? Like a quotation? Want to see a demonstration?

Then email **info@inos.in** or call us now on **+91-9099-028296**

Inos Technologies Pvt. Ltd. 452/3/4/5, C Block, Sobo Center, Gala Gymkhana Road, Off S.P.Ring Road, South Bopal, Ahmedabad - 380058, Gujarat, India. PH: +91-2717-408296

**www.inos.in**

31/01/17

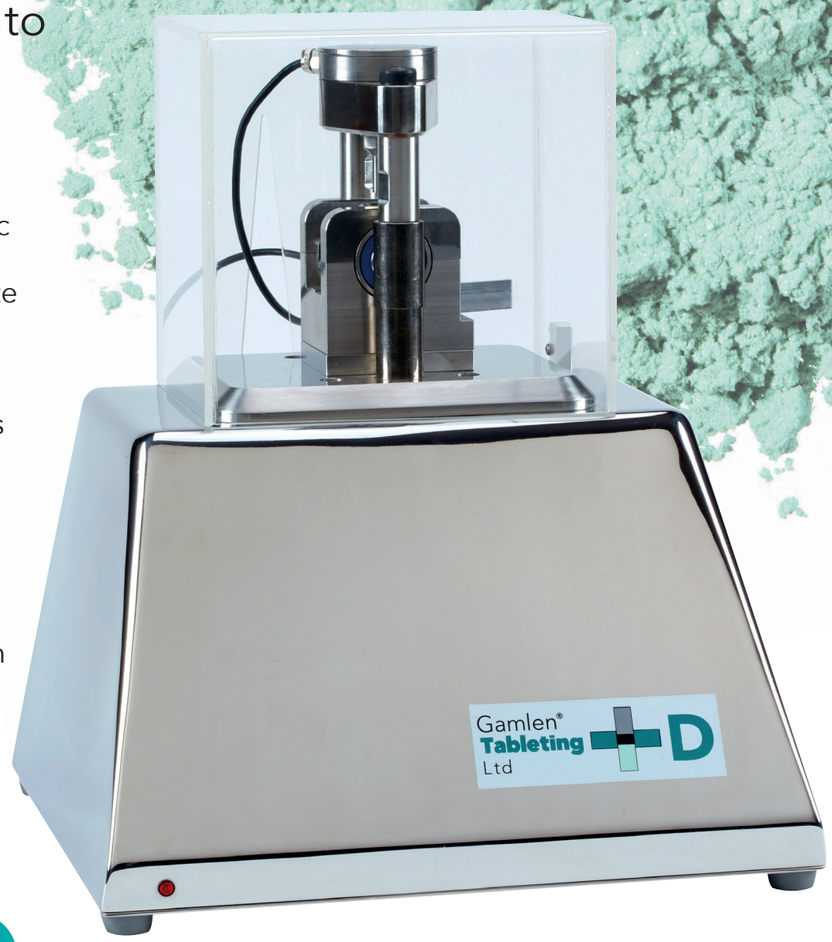
Gamlen® Instruments

inos™ Technologies *Life Science Simplified*

# Advanced tableting research with affordable in-die dynamic compaction analysis for industry and academic professionals

See the effect of tablet formulation and process variations prior to manufacturing

- Includes in-die and out-of-die analysis software with Dynamic Powder Compaction capability for complete material testing
- Dwell time control: 100 ms - 60 s in 10 ms increments
- Tablet detachment and ejection with full profiles
- Benchtop compaction analysis including in-die and out-of-die measurements with dwell time control




**Gamlen D series**

# Speed up formulation development and process optimisation with Gamlen® D series

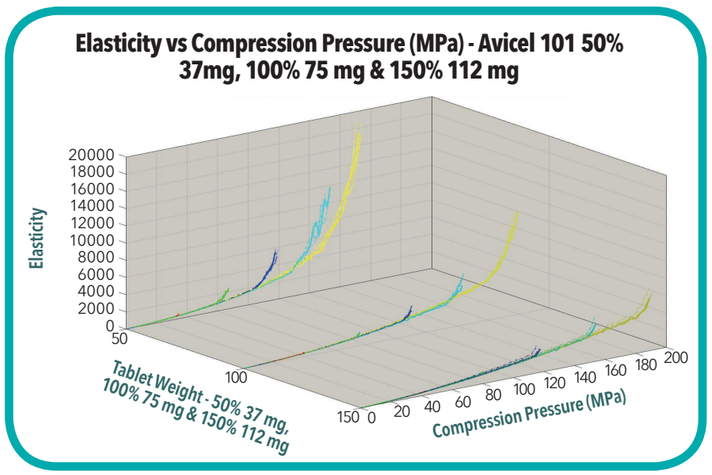
The Gamlen® D series provides complete analysis of the compaction process using an affordable benchtop system. It measures compaction force, punch position, and ejection force. Compaction rate is 0.01-3 mm/s with 100 ms - 60 s dwell time. Also available with optional fully integrated detachment force measurement for punch and die sets from 3-6 mm.

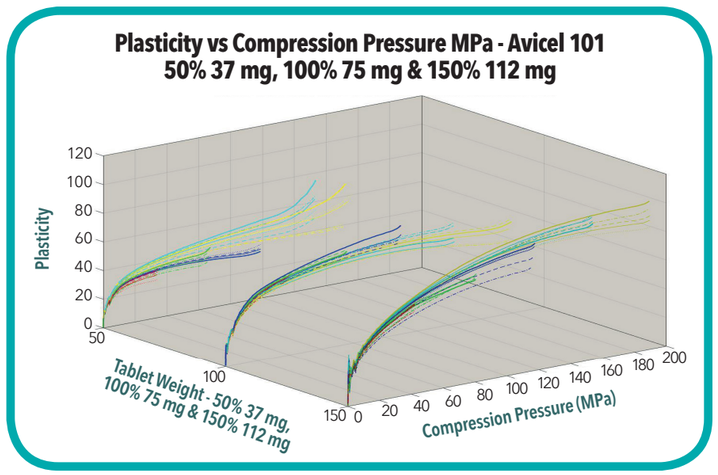
Benchtop compaction analysis including in-die and out-of-die measurements with dwell time control

Now you can see the effect of formulation and process variations on tablet compaction prior to manufacturing. The Gamlen® D series automatically generate tablet tensile fracture stress, compactibility, compressibility and tabletability plots with no user input needed when used with the Gamlen® Tablet Tensile Analyzer. You can also generate Kawakita and Heckel plots with 1 µm displacement accuracy.

## Dynamic Powder Compaction Analysis

Using our unique data capture system you can actually see what is happening during the compaction process. Our software measures material plasticity and elasticity for each compaction event.



TABLET TENSILE ANALYZER

LAPTOP WITH ANALYTICAL SOFTWARE

ANALYTICAL BALANCE


ELECTRONIC MICROMETER

## OVERVIEW

The Gamlen® D series includes the Gamlen® Powder Compaction Analyzer and Tablet Tensile Analyzer (TTA).

## INTEGRATED DETACHMENT FORCE MEASUREMENT

The new rotatable die system simplifies operation and generates important new data at the same time. The operational sequence is completed entirely on the instrument using the load cell to detach the tablet from the lower punch as well as eject it. The result is detailed measurement of tablet compaction, detachment and ejection behaviour.

## TABLET TENSILE ANALYZER

The TTA comes with a 4-figure analytical balance and electronic micrometer. The included software runs on a laptop and displays all data for automatic analysis via a spreadsheet.

The Tablet Tensile Analyzer has been specially developed to simplify the evaluation of tablet samples made on the Gamlen® D series.

Tablet fracture is performed at slow speed to generate true tensile fracture stress measurements. The computer control system captures all data and transfers it to a spreadsheet for automatic analysis.

## Tablet measurements

Weight
Thickness
Diameter
Breaking strength

## Calculated values

Tablet density
Tablet tensile fracture stress
Solid fraction
G-ratio