



# GAMLEN PRODUCT RANGE

Get better tablets,  
products and processes  
with our world-leading  
powder compaction  
analysis instruments

Make It Better. Make It Gamlen.





# TAME YOUR POWDERS

## **GET A BETTER UNDERSTANDING OF HOW POWDERS WILL BEHAVE**

Accurate compaction data gives you certainty on how your APIs and excipients will behave during manufacture. Saving you time, saving you materials, saving you money.

Make It Better. Make It Gamlen.





# MAKE IT BETTER MAKE IT GAMLEN

## **MAKE IT FASTER**

Launch to market sooner. Get ahead of your competitors. Reduce clinical trial time lines. Save on development costs. Get the knowledge and understanding to make high quality products faster.

## **MAKE IT SMARTER**

Reduce waste. Protect valuable APIs. Select cheaper, more readily available excipients. Shorten development time. Make informed formulation decisions with accurate compaction data.

## **MAKE IT EASIER**

Ensure consistent tablet quality. Avoid tableting problems. Reduce press down time. Get USP <1062> compliant data. Use with very little training. Get results with minimal sample volumes.



# WORLD-LEADING INSTRUMENTS

Compaction analysers and tablet presses for tableting experts and novices

## GAMLEN D-SERIES



The Gamlen D-Series is our most advanced powder compaction analyser. Max compaction load for the D1000 is 1000 kg and 500 kg for the D500. The D500 is recommended for minitabs.

The D-Series was designed for fully automated compaction analysis for faster, smarter and easier testing.

## GAMLEN M-SERIES



The M (manufacture) series was designed as a portable benchtop tablet press for small scale tablet manufacture.

Two max. compaction load options are available:

- M500 max. load 500 kg (recommended for minitabs)
- M1000 max. load 1000 kg

## GAMLEN R-500



The ideal teaching tool, the R500 allows the student to learn first hand about the critical parameters in tablet compaction.

Its integrated measurement system allows compaction, ejection and fracture analysis on a single instrument without the need for additional specialist equipment.

## GAMLEN TTA



The Gamlen TTA (Tablet Tensile Analyser) measures tablet diameter and breaks tablets to measure tablet tensile fracture stress. Values are automatically captured by the Gamlen Dashboard software.

All calculations take tablet size and shape into account so data can be compared across different tooling types.



# SUPERIOR ACCESSORIES

Everything you need to make compaction analysis faster, smarter and easier

## THE GAMPETTE



The GamPette precision powder pipette enables the user to quickly dispense powder with a high degree of accuracy.

It comprises of a controller unit and handles which are interchangeable and adjustable. Powder is drawn into the tip under vacuum and expelled under light pressure.

The GamPette's ergonomic design make it ideal for glove boxes.

## GAMLEN SOFTWARE



The Gamlen Dashboard software quantifies compaction behaviour quickly and easily.

Designed for fully automated analysis, it can also be configured for manual data entry.

The software calculates all key compaction and lubrication parameters and compares these values with industry norms. This aids result interpretation, allowing even novice users to identify problem data.

## GAMLEN SAFE TAB



The SafeTab system provides operator protection for bench top operations needing safe containment of powders, aerosols or harmful agents.

It is suitable for the safe handling of OEL class 5 and cytotoxic materials. The SafeTab uses innovative flexible film technology combined with HEPA-in, HEPA-out filtration to provide equivalent containment to a hard-shell isolator.

## GAMLEN CHE



The CHE (controlled humidity environment) allows tablets to be made and tested under a specified humidity.

As humidity impacts the compaction of key pharma materials, understanding and controlling humidity effects is often essential to successful formulation.

- 0 and 98% RH range
- 0.7% RH control
- 0.1 °C temp. resolution
- Requires dry air supply



# PUNCH AND DIE OPTIONS

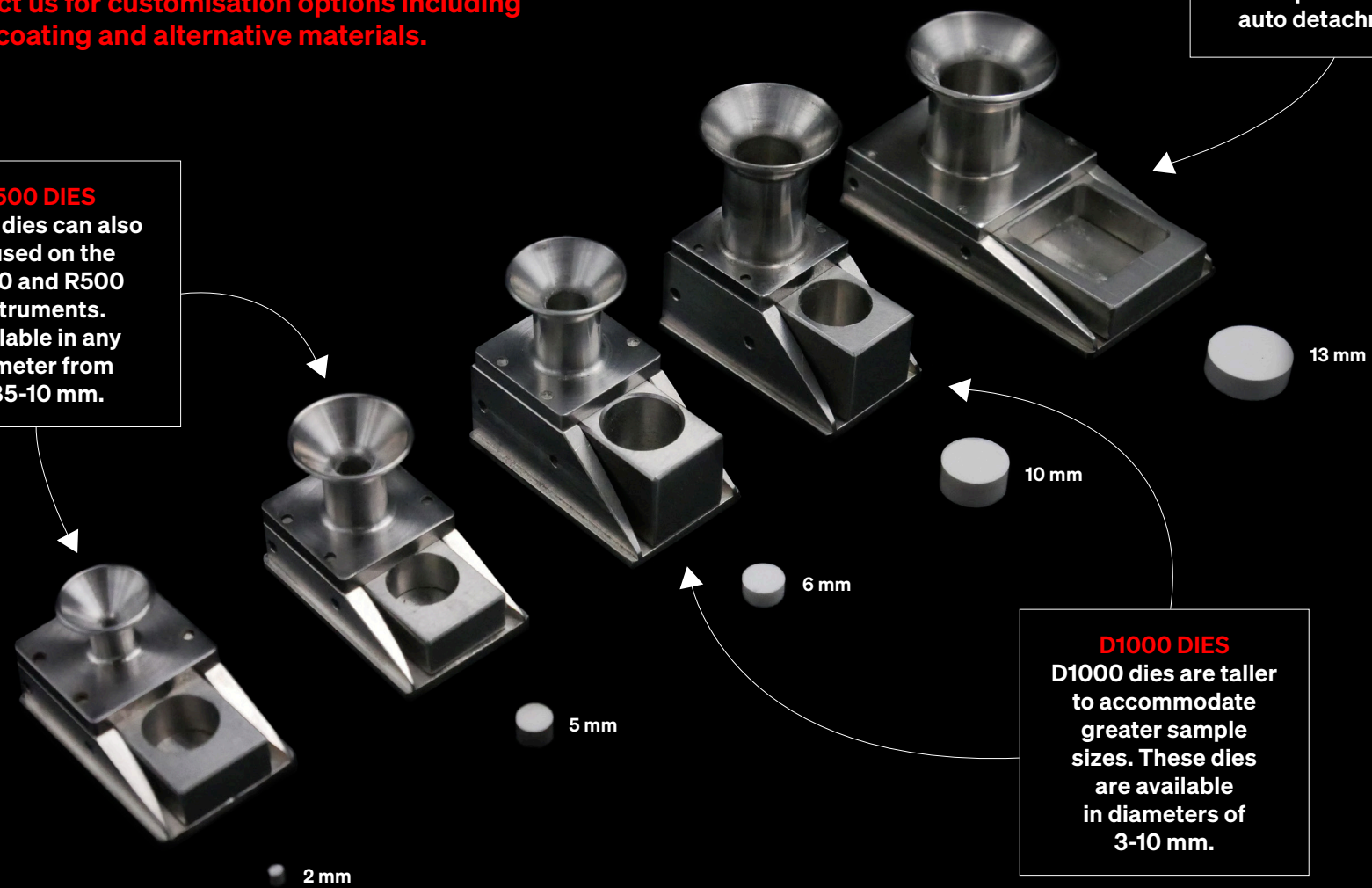
Punches and dies are supplied as matched sets and made to order

If you don't see a punch and die set to suit your needs contact us for customisation options including embossing, coating and alternative materials.

**LARGE DIES**  
Suitable for any Gamlen instrument our large dies range from 11-15 mm. These must be used with the large die adapter and are not compatible with auto detachment.

**D500 DIES**  
These dies can also be used on the M500 and R500 instruments. Available in any diameter from 0.85-10 mm.

**D1000 DIES**  
D1000 dies are taller to accommodate greater sample sizes. These dies are available in diameters of 3-10 mm.





# FIND THE GAMLEN D-SERIES PACKAGE THAT'S RIGHT FOR YOU



## GAMLEN D500

Best suited to minitab testing, can apply compaction loads up to 500 kg. Punch size range 0.85-10 mm. Auto detachment available for punch sizes 3-6 mm.



## GAMLEN D1000

The versatile D1000 has a max compaction load of 1000 kg. Punch size range 3-15 mm. Auto detachment available for punch sizes 3-10mm.

### BRONZE PACKAGE

- ✓ Gamlen D500 or D1000
- ✓ Manual Dashboard Software
- ✗ GamPette Powder Dispenser
- ✗ Gamlen Tablet Tensile Analyser (TTA)
- ✗ Automated Micrometer
- ✗ Automated Balance or Interface for Existing Balance

- Ideally suited to users with some experience of compaction analysis
- Data capture is not automated
- Tablet hardness tester required
- Generate USP <1062> data
- Measure detachment and ejection stress

### SILVER PACKAGE

- ✓ Gamlen D500 or D1000
- ✓ Manual Dashboard Software
- ✓ GamPette Powder Dispenser
- ✗ Gamlen Tablet Tensile Analyser (TTA)
- ✗ Automated Micrometer
- ✗ Automated Balance or Interface for Existing Balance

- Avoid time consuming powder weighing
- All the benefits of the bronze package with the addition of a GamPette precision powder pipette
- GamPette typically dispenses powder with 2% accuracy or better

### GOLD PACKAGE

- ✓ Gamlen D500 or D1000
- ✓ Automated Dashboard Software
- ✓ GamPette Powder Dispenser
- ✓ Gamlen Tablet Tensile Analyser (TTA)
- ✓ Automated Micrometer
- ✓ Automated Balance or Interface for Existing Balance

- Fast, fully automated compaction analysis
- Suited to compaction experts and novices
- Full USP <1062> and lubrication data
- Software aids data interpretation
- Requires minimal user input



# GAMLEN D-SERIES SPECIFICATIONS



## **GAMLEN D500**

Maximum load: **500 kg**  
Auto detachment punch size range: **3-6 mm diameter**  
Punch size range: **0.85 – 10 mm diameter**  
Compaction rate: **0.01 – 3 mm/s**  
Data capture rate: **200 Hz**  
Load cell travel: **30 mm**  
Load cell resolution: **1:5000**  
Calibration: **Dead weights or proving ring**  
Power requirements: **90-240 VAC 3.15A**  
Instrument dimensions: **310 × 270 × 375 mm**  
Instrument weight: **16 kg**  
Shipping size: **380 × 345 × 372 mm**  
Shipping weight approx: **20 kg**



## **GAMLEN D1000**

Maximum load: **1000 kg**  
Auto detachment punch size range: **3 – 10 mm diameter**  
Punch size range: **3 – 15 mm diameter**  
Compaction rate: **0.01 – 3 mm/s**  
Data capture rate: **200 Hz**  
Load cell travel: **40 mm**  
Load cell resolution: **1:5000**  
Calibration: **Dead weights or proving ring**  
Power requirements: **80-260 VAC 3.15A**  
Instrument dimensions: **320 × 285 × 388 mm**  
Instrument weight: **24kg**  
Shipping size: **390 × 350 × 470 mm**  
Shipping weight approx: **28kg**





**MAKE IT BETTER**

Request a demo at  
[gamlentableting.com/contact](http://gamlentableting.com/contact)

Contact us for a quote at  
[sales@gamlentableting.com](mailto:sales@gamlentableting.com)