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HB100 today

# Huxley Bertram

Cambridge, UK

## Compaction Simulators using **servo-hydraulic** technology

### HB100

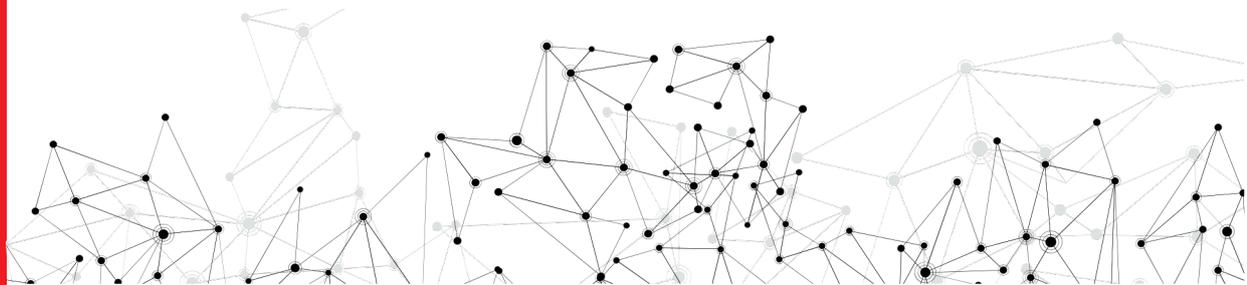
Full featured  
high-performance  
simulator

with integrated  
power pack



#### HB100 Performance Data:

Double Ended rated force	50kN or 130kN
Max rated punch speed	1000mm/s each actuator
Dwell time	< 1ms using V profiles
Data Acquisition	100kHz per channel simultaneous
Position resolution	1 micron
Force resolution	< 1N
Cycle rate (single layer)	8 tablets per minute, automatic fill
Footprint	1405 X 1250mm (plus screen)



# HB100

## Full featured high-performance simulator

with integrated  
power pack

### HB100 Features:

- High Speed press for simulation of high speed production
- Optional containment to <math><100\text{ng}/\text{m}^3/\text{TWA } 8\text{h}</math>; containment ready configuration is available
- Larger frame to accommodate a high force option (up to 130 kN) and tri-axial
- Hiestand testing options
- Optional lower actuator lock for single ended high speed tests
- 50 kN servo-hydraulic versatile double ended tablet press simulator
- Configurable work space for tablet compaction, tri-axial, or capsule filling tests
- Position controlled press simulation or research profiles
- Load controlled material characterisation profiles and initial set-up studies
- Hybrid control mode allows simulation of load limiting production presses such as Courtoy or simple load limited position controlled tests
- Single ended tests or double ended press simulation compaction tests
- Upper and Lower force measurement loadcells
- Optical encoder punch position measurement
- One or two programmable electric feeder drives
- Gravity, stirred or paddle wheel feeder options
- Uses standard press tooling or an extensive range of instrumented tooling
- Low power consumption from 3-phase power supply
- Comprehensive data analysis software, export graphs or peak data to excel readable TSV file if required
- Automated analysis calculations
- Automated multi-layer set-up
- Select test profiles from a library of production tablet presses or production roller compactors
- Sophisticated and simple test set-up software routines
- CE certified and complies with UL requirements

### Simulator range:



**HB10**  
Semi-automated simulator



**HB50**  
Versatile, high-performance  
simulator



**HB100**  
Full-featured, contained,  
high-performance simulator

# Huxley Bertram

Huxley Bertram Engineering  
Cambridge CB25 9QP  
England

Tel: +44 (0)1223 203160  
Email: [info@huxleybertram.com](mailto:info@huxleybertram.com)

[huxleybertram.com](http://huxleybertram.com)  
[powdercompaction.com](http://powdercompaction.com)



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Cambridge, UK

## Compaction Simulators using **servo-hydraulic** technology

### HB50

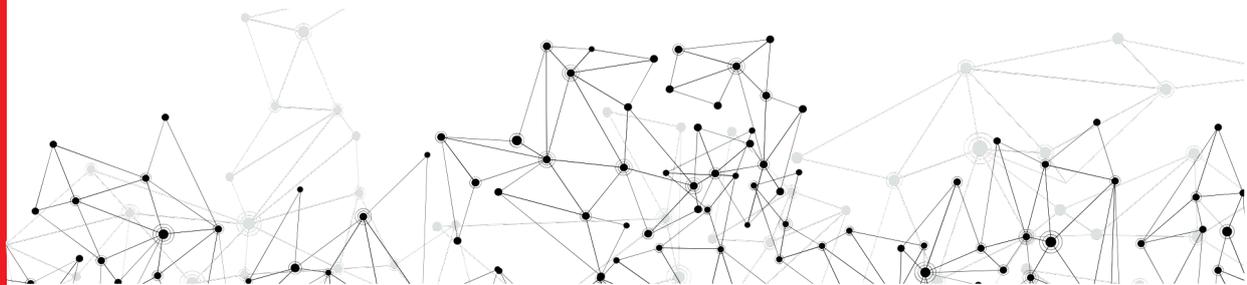
High-performance  
simulator

with integrated  
power pack



#### HB50 Performance Data:

Double Ended rated force	50kN
Max rated punch speed	500mm/s each actuator
Dwell time	< 1ms using V profiles
Data Acquisition	100kHz per channel simultaneous
Position resolution	1 micron
Force resolution	<5N
Cycle rate (single layer)	8 tablets per minute, automatic fill
Footprint	1100 x 795 mm



# HB50

## High-performance simulator

with integrated power pack

### HB50 Features:

- 50 kN servo-hydraulic versatile double ended tablet press simulator
- Configurable work space for tablet compaction or capsule filling tests
- Position controlled press simulation or research profiles
- Load controlled material characterisation profiles and initial set-up studies
- Hybrid control mode allows simulation of load limiting production presses such as Courtoy or simple load limited position controlled tests
- Single ended tests or double ended press simulation compaction tests
- Upper and Lower force measurement loadcells
- Optical encoder punch position measurement
- One or two programmable electric feeder drives
- Gravity, stirred or paddle wheel feeder options
- Uses standard press tooling or an extensive range of instrumented tooling
- Low power consumption from 3-phase power supply
- Comprehensive data analysis software, export graphs or peak data to excel readable CSV file if required
- Automated analysis calculations
- Automated multi-layer set-up
- Select test profiles from a library of production tablet presses or production roller compactors
- Sophisticated and simple test set-up software routines
- CE certified and complies with UL requirements

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Semi-automated simulator



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