

# BIOSAMPLE PUNCHERS

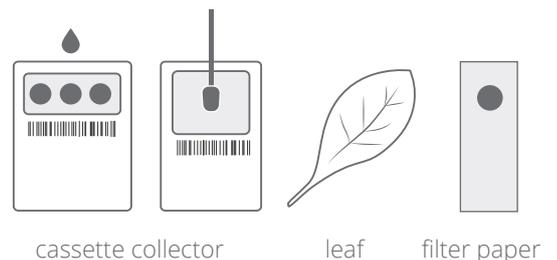
## What are biosample punchers?

BSD® Punchers are designed to automate laboratory sample preparation and tracking for life science applications. They are used to punch dried biosamples into microtitre plates for subsequent analysis such as biochemical or molecular assays. Plate maps are prepared using the BSD software for flexible configuration to suit specific assay requirements. Sample barcodes are scanned and saved as a record of each punch run and may be exported in a variety of formats for use by LIMS software.

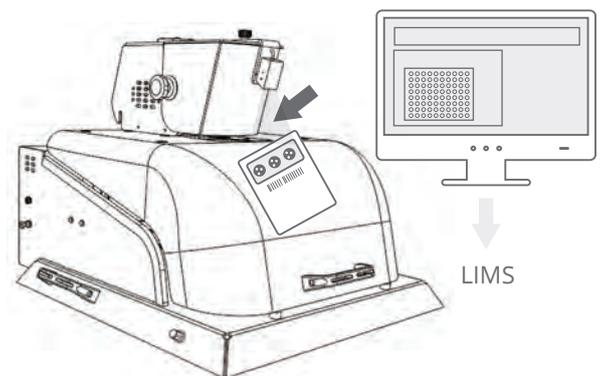
## Benefits

- Increase Laboratory Throughput
- Reduce Sample Preparation Errors
- Reduce Repetitive Strain Injuries
- Automate Sample Tracking & Traceability
- Ensure compliance with validated protocols

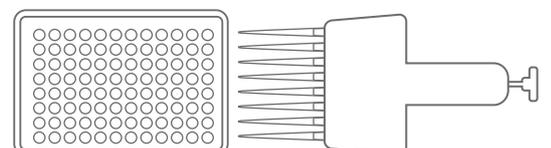
### 1. COLLECT SAMPLES



### 2. SCAN, PUNCH & TRACK with BSD



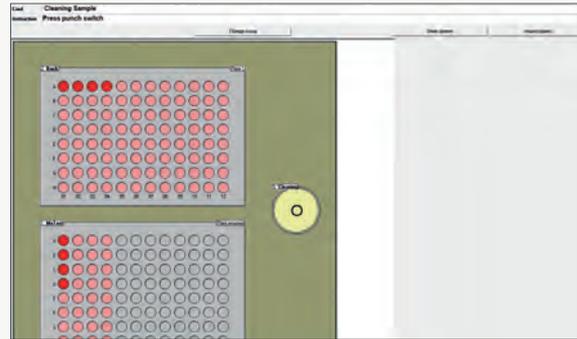
### 3. ANALYSES



# FEATURES

## TRACEABILITY

- Generates output files for sample tracking and traceability.
- Work list file import function.
- Sample and plate barcode scanning and tracking to output files.
- Sample delivery into the well is confirmed by an optical sensor and disk detectors.



BSD Software screen showing wells being filled as disks are punched.

## RELIABILITY

- Programmable cleaning punch function with separate waste container.
- Dust extraction system vacuums paper dust from the punching area.
- Inert air humidifier system for static reduction.



Light targeting assists with disk selection.

## FLEXIBILITY

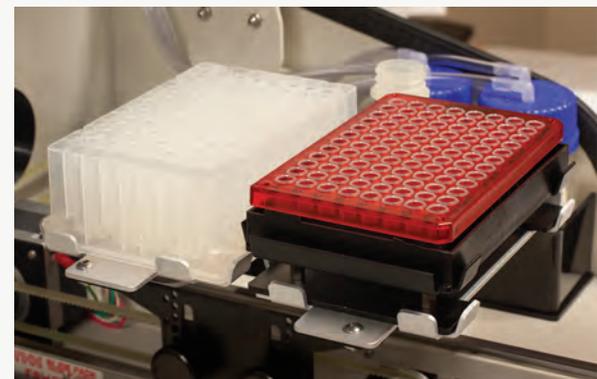
- Customizable punch sizes available from 1.0mm to 6.0mm.
- Dual punch head with pattern punching feature (assisted by light targeting system).
- Flexible software with live view of plate maps and punching parameters.



Aside from paper-based samples, other biomaterials such as plant leaves may also be punched.

## COMPATIBILITY

- Compatible with 96-well standard and deep well microplates or tube racks.
- Work with a wide range of sample collectors, cassettes and filter paper.
- Optional tray adapters are available to allow combinations of plate heights and tube adapters in the same test run.



Deep well plate compatible, different plate heights possible with adapter.

# MODELS

## BSD 100

- 2 plate capacity
- Lower throughput, simple test runs
- Single punch size
- Manual (footswitch) punch activation
- Sample barcode reader
- Air humidifier system
- 96 well standard or deep well types, PCR plate or 96 tube adapters
- USB connection
- 575 W x 600 D x 500 H (mm)



MODEL 1001A

BASE MODEL

## BSD 600PLUS



MODEL 6003A

- 2 plate capacity
- Dual punch sizes
- Semi-automated punch activation
- Light targeting system
- Programmable punch pattern
- Sample barcode reader
- Air humidifier system
- 96 well standard or deep well types, PCR plate or 96 tube adapters
- USB connection
- 575 W x 600 D x 500 H (mm)

SEMI-AUTOMATED

## GALAXY 9

- 9 plate capacity
- Dual punch sizes
- Semi-automated punch activation
- Light targeting system
- Programmable punch pattern
- Sample barcode reader
- Air humidifier system
- 96 well standard microplate
- Integrated touch screen
- 7500 W x 565 D x 320 H\* (mm)

\* Note: Height with touch screen detached.



NEWBORN SCREENING

## Punching Media

- \* Unframed Filter Paper
- \* Dried Blood Cassettes
- \* FTA Collectors
- \* Plant Leaf Samples

## Applications

- \* Newborn Screening
- \* Molecular Biology
- \* HID and DNA Databanking
- \* Genomics and Paternity
- \* HIV and Malaria Diagnostics
- \* Pharmacokinetics

## Software

- \* Flexible plate configuration
- \* Selectable output file formats
- \* Real-time plate map and punch sites
- \* Work file import function
- \* Multiple plate handling



Fast and easy barcode scanning and punching with a newborn screening sample card.

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