

Bio-Stack™ Microplate Stacker

Automation

Overview:

The Bio-Stack™ Microplate Stacker is the result of BioTek's years of experience in microplate automation. Through its compatibility with a range of detection and liquid handling systems, the Bio-Stack offers life science laboratories increased throughput for a variety of applications in genomics, proteomics, drug discovery and clinical diagnostics. Speed, ease of use and walk away automation are guaranteed for any routine microplate process.

When used with the [ELx405™ Microplate Washer](#) or [µFill™ Microplate Reagent Dispenser](#), the Bio-Stack's small footprint fits easily in standard laboratory hoods without the need for a computer. As a batch processor for the [PowerWave™](#) or [Synergy™ HT](#) Microplate Reader, the Bio-Stack interfaces seamlessly with BioTek's [KC4™ Data Analysis Software](#). Up to two Bio-Stacks can be integrated to the [Precision™ Microplate Pipetting System](#) for unattended plate replication, bulk reagent dispensing or a number of other liquid handling operations. The Bio-Stack Microplate Stacker is a simple and cost-effective solution for bench top automation of BioTek's microplate components.

Features:

- Automates routine laboratory procedures
 - Adds stacking capability to Bio-Tek's microplate instrumentation:
 - [ELx405™ Microplate Washer](#)
 - [µFill™ Microplate Reagent Dispenser](#)
 - [PowerWave™ Microplate Spectrophotometer](#)
 - [Synergy™ HT Multi-Detection Microplate Reader](#)
 - [Precision™ Microplate Pipetting System](#)
 - 30 microplates per interchangeable stack
 - Simple to use for all laboratory personnel
 - Restacking capability
 - Variable microplate input
 - Small footprint conserves precious benchtop space
 - Universal design compatible with all supported Bio-tek instrumentation
 - Designed for heavy use with aluminum precision-ground base
 - Linear mechanisms built around proven Bio-Tek technology
 - Quiet operation with cams activated by stepper motors
 - No moving parts to wear within motors
 - Gripper incorporates rack and pinion drive for synchronistic movement
 - Gripper spring pre-loaded to close in the event of a power failure and remains fixed in space for no spillage
 - Reliable transport with microplate addressed from below
 - Easy removal and placement with convenient alignment mechanism
 - Onboard self diagnostics ensures trouble-free operation
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Models:

BIOSTACK

Bio-Stack™ Microplate Stacker

Accessories Included:

- 2 storage stacks - each with 30 microplate capacity
- One instrument integration kit
- USB cable
- Serial cable: null modem, 9-pin male to 9-pin female
- Operator's manual
- Microplate pedestal
- Maintenance kit

Optional Accessories:

- Barcode Scanner
- ELx405™ Integration Kit
- µFill™ Integration Kit
- PowerWave™ Integration Kit
- Synergy™ HT Integration Kit
- Precision™ Integration Kit
- [Product Qualification Package](#)

Specifications:

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| Microplate types | 96- and 384-well standard microplates |
| Microplate orientation | Landscape |
| Microplate capacity | 30 Society for Biomolecular Screening (SBS) standard height 96-/384-well microplates; 30 microplates per stack; Removable and interchangeable storage stacks |
| Processing speed | 8 seconds to deliver or retrieve a microplate |
| De-lidding capability | No |
| Low Profile Microplates | No |
| Deep Well Microplates | No |
| Pipette Tip Racks | No |
| Power | Instrument powered by universal input (100-240 V _{AC} , 50-60 Hz) switching 24 V _{DC} power supply |
| Weight | 24 lbs (10.9 kg) |
| Dimensions | 18.5" D x 7" W x 23" H (46.9 cm D x 17.8 cm W x 58.4 cm H) |
| Compatible BioTek Instruments | ELx405™, µFill™, PowerWave™ HT, PowerWave™ XS, Synergy™ HT |
| Regulatory | For in-vitro diagnostic use (Except in the European Union). All BioTek microplate instrumentation is CE and ETL marked. For details on approvals and standards compliance, please contact BioTek. |