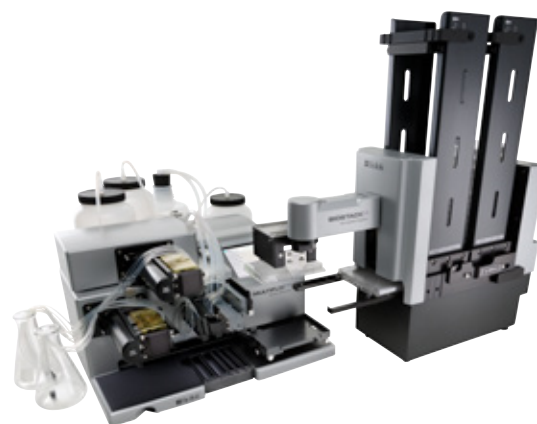


# BioStack™ Microplate Stacker



BioStack™ is a compact and versatile microplate stacker compatible with BioTek's washers, dispensers, readers and imaging systems. The unique plate carrier design of BioStack brings unprecedented transfer speeds to increase throughput and enhance productivity, accommodating assay workflows both with and without plate lids. BioStack 4 has a rotational gripper for ergonomically friendly instrument panel access. Automate washing and liquid handling processes with BioStack and the 405™ Touch, 405 LS, EL406™ or MultiFlo™ FX with 24-, 48-, 96-, 384- and 1536-well plates along with other formats up to 22 mm in height. The patented BioStack 4 offers plate de-lidding and re-lidding capability, ideal for sensitive cell-based assays.

Walk-away batch microplate reading is also easily accomplished with BioTek's Synergy™ line of multi-mode readers and Cytation™ Cell Imaging Multi-Mode Readers, along with the Epoch™ 2, Epoch™ and PowerWave™ HT microplate spectrophotometers, operating through Gen5™ PC software. The basic model BioStack can be integrated to MicroFill™ dispensers and Precision™ pipetting systems. BioStack models are available with 10, 30, or 50 microplate storage stacks, all removable and interchangeable to accommodate individual throughput needs. Faster processing and walk away automation means increased throughput and greater productivity!



## Features:

- <10 seconds plate exchange time
- Patented plate de-lidding and re-lidding (*BioStack 4*)
- Rotational gripper for ergonomic and compact integration
- Microplate formats including 6-, 12-, 24-, 48-, 96-, 384- and 1536- (*configuration dependent*)
- 10, 30, or 50 standard height microplates per interchangeable stack
- Optional barcode scanner
- Direct control through washer and dispenser interface or via LHC™ or Gen5 software



## Typical Applications:

- ELISA Automation
- Kinetic Studies
- Cell-based Assays
- Primary Screening Assays
- Colorimetric, Fluorometric and Luminescence Assays

## Configurations:

BIOSTACK4:	Microplate Stacker
BIOSTACK3WR:	Microplate Stacker
BIOSTACK2WR:	Microplate Stacker

## Optional Accessories:

- 10 Microplate Storage Stacks (set of 2)
- 30 Microplate Storage Stacks (set of 2)
- 50 Microplate Storage Stacks (set of 2)
- Barcode Scanner Kit
- Product Qualification Package
- Instrument Integration Kits

Protected under US patent 9,366,686.



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## Specifications:

	BioStack 4 (BIOSTACK4)	BioStack 3 (BIOSTACK3WR)	BioStack (BIOSTACK2WR)
General			
Microplate types:	ANSI/SLAS Standard and low profile 96-, 384- and 1536-well plates  24- and 48-well plates ( <i>configuration dependent</i> )  Maximum plate height 23.2 mm	ANSI/SLAS Standard and low profile 96-, 384- and 1536-well plates  Maximum plate height 14.6 mm	ANSI/SLAS Standard and low profile 96-, 384- and 1536-well plates  Maximum plate height 14.6 mm
Lidded plate handling:	<u>De-lidding capability:</u> (lids always removed during processing) 96- 384-, and 1536-well plates. Maximum height, including lids: 16.9 mm  <u>Nunc plates:</u> (lids can remain on plate during process, or can be removed) 6-, 12-, 24-, 48-well plates. Maximum height, including lids: 23.2 mm	n/a	n/a
Microplate capacity:	10-, 30- and 50-plate stacks are removable and interchangeable 96-/384-well: Up to 50 plates 1536-well: Up to 75 plates Lidded plates compatible only with 10- and 30-plate stacks		
Compatible instruments:	EL406, 405 Touch, 405 LS, MultiFlo FX, MultiFlo, PowerWave (except HT), Epoch 2, Epoch, Synergy and Cytation		EL406, 405 Touch, 405 LS, MultiFlo FX, MultiFlo, MicroFill, Precision, PowerWave, Epoch 2, Epoch and Synergy
Barcode scanner (option):	Landscape or portrait orientation, Code 39, Codabar, UPC/EAN, Code 128 compatible		
Processing speed (plate exchange time):	<20 seconds (with de-lidding)  <12 seconds (without lids)	<10 seconds	<33 seconds
Direct control:	Washers and dispensers with keypad interface can directly control BioStack		
PC software:	LHC for liquid handling instruments ( <i>optional</i> ) Gen5 for readers		
Physical Characteristics			
Power:	100 – 240 Volts AC. 50/60 Hz		
Weight:	<25 lbs (11.3 kg)		
Dimensions:	22" L x 8.3" W (54 x 21 x 40 cm)	20.7" L x 7.4" W (52.5 x 18.8 cm)	18.5" L x 7" W (46.9 x 17.8 cm)
	Overall height will vary depending on connected instrument and stacks used.		
Regulatory			
Regulatory:	CE and TUV marked, RoHS compliant.		

Performance values represent the average observed factory test values.  
\*Specifications subject to change.