

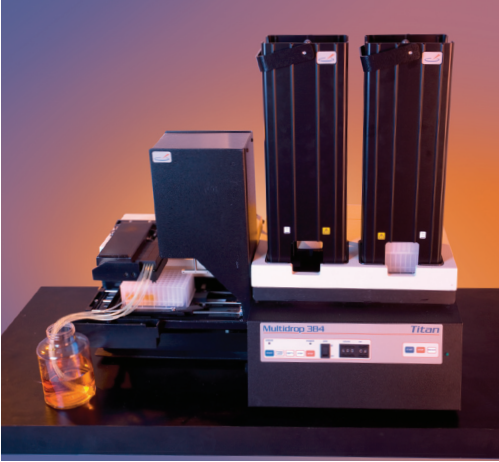
## The Titan Stacker

Simple Solutions for  
Increasing Throughput

**Titertek**

# The Titan Stacker by Titertek

Simple Solutions for Increasing Throughput



*The Titan Stacker provides reliable walk-away automation and serves as an excellent tool to automate tedious and routine microplate processes.*



*The only factor that may inhibit successful integration of the Titan Stacker is the microplate carriage design of the device to be integrated. Clear access for a robotic arm or other microplate transfer device is required.*

Titertek's Titan Stacker provides a simple and cost efficient way to significantly increase throughput in any life science or clinical laboratory in one easy step.

## Features of the Titan Stacker

- 30, 45 or 60 standard plate capacity interchangeable magazines
- 180 standard plates maximum capacity
- Compatibility with deep well, standard and thin plates, and automation friendly PCR plates
- Stand-alone and computer controlled versions
- Easy integration with a variety of peripheral devices
- Compatibility with a wide range of robotic arms
- Optional plate de-lidding

## Versatile

The Titan Stacker is available in a number of configurations to meet the most demanding requirements and can be easily upgraded to accommodate future developments.

The Titan Stacker allows for both right and left hand access. An additional Tag-Along option is available for dual-sided access.

The Titan Stacker can manage and store up to 60 standard microplates or 18 deep well plates in the two magazine version and 180 and 54 plates respectively in the four magazine version.

The four magazine version is capable of reshuffling plates between magazines and accessing plates in a specified order.

## Easy to Use

The Titan Stacker magazines are designed for easy loading.

The magazines can be easily removed from the stacker and refilled with a new batch of plates by simply placing the magazine over a stack of plates. This simplified loading procedure saves time and eliminates spillage and dropping plates.



## Flexible

The Titan Stacker is equipped with simple, user-friendly PC software that allows easy integration of a variety of instruments.

A compact yet flexible storage option, the Titan Stacker is compatible with a variety of microplate instruments, including but not limited to:

- microplate washers
- dispensers
- pipetting systems
- detection systems

### Small and Cost Efficient

The Titan Stacker has a small footprint and fits easily in most standard laboratory hoods.

The Titan Stacker is available with our unique P3 (Plate Pick & Place) microplate transfer device.

The optional P3 is a space saving and economical substitute for the robotic arm. The P3 places and retrieves plates from the integrated device, then feeds finished plates into the output magazine.

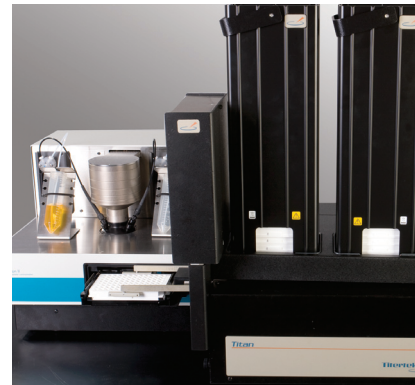
P3 performance matches and often exceeds the performance of a robotic arm in facilitating microplate transfer between the Titan Stacker and other equipment.

The Titan Stacker is a fourth generation unit. It is the result of many years of experience in microplate automation.

Available in both 2 and 4 magazine versions.

Both versions may be ordered as deep (up to 44 mm), standard (15 mm), and thin (11 mm) well plate compatible version, or standard and thin well plate compatible version.

Each version is available with 30, 45 and 60 standard plate capacity interchangeable magazines.



### Device Integration

Several factory pre-integrated options are available.

- Integrated with Orion II Luminometer
- Integrated with NanoScan FLT fluorometer
- Integrated with ALPs 3000 ABgene Microplate Sealer
- Integrated with Multidrop Dispenser
- Integrated with Multiskan® Ascent Reader

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## Lifetime Service and Support

Our experienced, customer-oriented technical team looks forward to assisting you with installation, training and inquiries.

Titertek Instruments offers worldwide support and service. Our goal is to ensure that your lab automation system will function reliably through its entire lifespan.

Titan offers simple solutions for the most demanding customer requirements.

## Technical Specifications

<b>Weight Titan 60/180</b>	38/52 lbs.	17.3/23.6 kg
<b>Dimensions:</b>		
Titan60/180	Width - 14.6 inches	37.08 cm
S30 magazine installed	Depth - 19/25 inches	48.3/63.5 cm
S60 magazine installed	Height - 24.35 inches	61.85 cm
	Height - 40.35 inches	102.5 cm
<b>Electrical:</b>		
<b>Mains Voltage</b>	115 volt $\pm$ 10 %, 60 Hz 30VA	230 volt $\pm$ 10 %, 50 Hz 30VA
<b>Mains Fuse</b>	3 amp for 115 volt	1.5 amp for 230 volt
<b>Plate Transport:</b>	Direct drive step motor with a positional resolution of 0.010 inch	Plate reach up to 14 inches
<b>Interface:</b>	RS232 using simple command set	
<b>Throughput:</b>		
<i>Titan 60</i>	7 seconds to deliver or retrieve a plate	
<i>Titan 180</i>	11 seconds to deliver or retrieve a plate	
<b>Magazines:</b>	30 or 60 standard plate capacity	60 plate magazine will hold 18 deep well plates
<b>Options:</b>		
<i>Titertek P3 Device Standard Extension</i>	Standard Extension is 8.024 inches	
<i>Titertek P3 Device Maximum Extension</i>	Maximum Extension range is 10.67 to 12.52 inches	

## Contacts:

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