

Features and Benefits

- Cross-contamination eliminated by the use of disposable, single use, piercing lid
- Lid forms an effective temporary seal after piercing
- Piercing lid gives a wide opening for improved liquid handling compared to piercing with a pipette tip or fixed piercing pin
- Ideal use with disposable pipette tips to further minimize the cross-contamination risk
- No-washing and drying: fast cycle time
- Three Piercing devices:
 - EasyPiercer: Manual
 - UPP: Universal, semi-automated
 - APP: Automated, ideal for robotic integration
- Minimize pipette tip coating wear

Brooks offers researchers a choice of three Seal Piercing Devices for accessing sealed samples with REMP® Seal Piercing Lids:

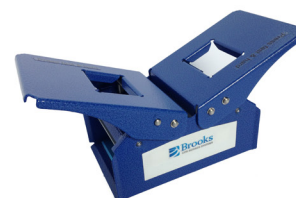
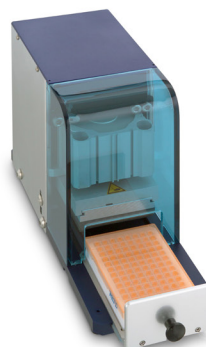
- EasyPiercer™: a manual device to pierce STBR96-300
- Universal Plate Piercer™ (UPP), with a pneumatic piercing action, but otherwise manual.
- Automated Plate Piercer™ (APP), an automated device for standalone operation or integration into a robotic system.

Each instrument uses the same disposable REMP Seal Piercing Lids:

- 1800055: Red: piercing lid for 96-well plates
- 1800054: Orange: piercing lid for REMP tubes: STBR96-300 and STBR96-900.
- 1800053: Clear: piercing lid for REMP tubes and plates: DTBR384 and MP384

REMP Seal Piercing Lids

	REMP piercing lids	Pierce with pipette tips	Pierce with fixed tip piercing unit
No washing of piercing tip required / Minimize carry over risk	Yes	No	No
Can use disposable pipette tips	Yes	No	Yes
Pierced hole bigger than pipette tip for accurate liquid handling	Yes	No	No
Temporary seal to pierced plate / tube rack	Yes	No	No



Automated Plate Piercer (APP)

The Brooks Automated Plate Piercer (APP) is an automated device ideal for low to high throughput piercing applications. It can be operated as a standalone device or integrated into an automated system through either a digital I/O port, for simple instrument control, or an RS232 serial port, which can be controlled via the Brooks ActiveX Device Interface Software. This versatile and efficient instrument is capable of piercing the seals of many different types of standard microplates and deepwell plates, as well as, REMP 384 and 96 Tube Racks, using any of the available REMP Seal Piercing Lids, and requires only an adapter change to accommodate the various microplate types. As part of the normal piercing cycle of the Brooks APP, the device is able to temporarily hold the Seal Piercing Lid so that the pierced microplate can be presented alone to the user. The same microplate can be placed back onto the device and the Seal Piercing Lid can be reapplied for use as a temporary seal for short-term storage.

Two models are available:

1800197 - APP for re-applying the piercing lid

1800334 - APP with lid disposal function



Technical Information

Performance:

- Cycle time: roughly 4s – 7s (depending on user-adjustable settings)
- No washing/drying of piercing pins with REMP Seal Piercing Lids

Operating Requirements:

- Electrical: 115/230VAC, 50/60Hz
- Air: 6 bar [87psi] – filtered, oil-less compressed air
- Integration: digital I/O or RS232 (controlled via REMP ActiveX Device Interface Software)

Technical Specifications:

- Dimensions: 444mm x 187mm x 468mm [17.5" x 7.4" x 18.4"] (LxWxH)
- Weight: 26kg [57lbs]

Options:

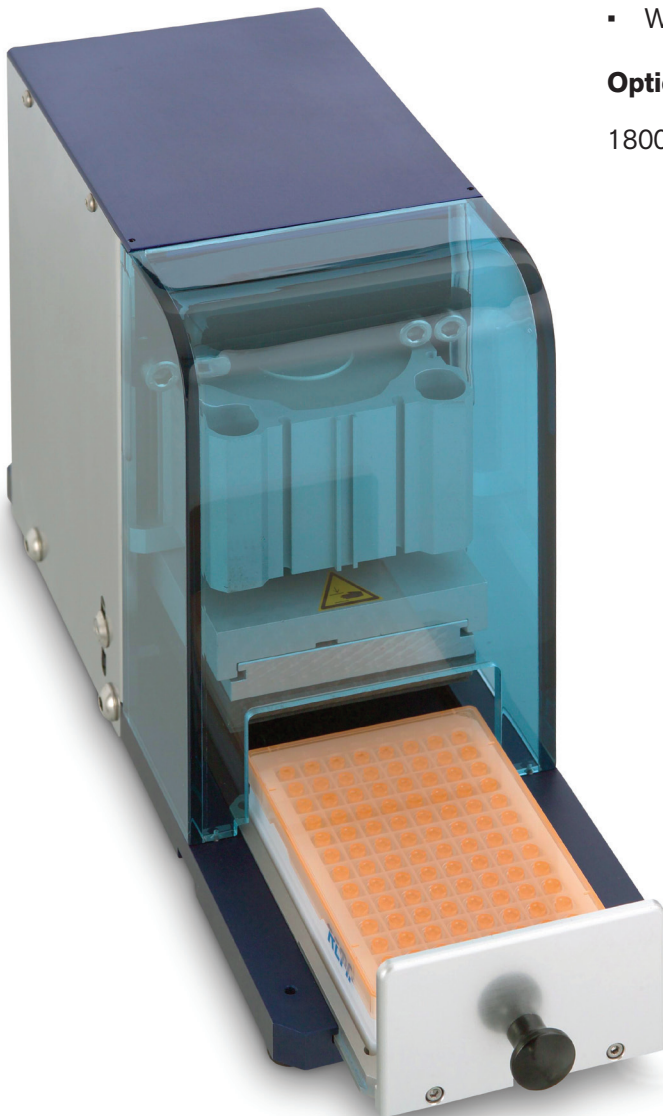
- | | |
|---------|-------------------------------------|
| 1800349 | APP adapter complete for DTBR384 |
| 1800079 | APP adapter complete for REMP MP384 |
| 1800080 | APP adapter complete for STBR96-300 |
| 1800237 | APP adapter complete for STBR96-900 |
| | Other adapters on request |

Universal Plate Piercer (UPP)

The Brooks Universal Plate Piercer (UPP) uses a pneumatic piercing action to ensure a repeatable pierce. The device can be adjusted to pierce sealed REMP 384 and 96 Storage Tube Racks, REMP storage plates and also most microplates and deepwell plates. It operates through a simple push button control at the rear of the device or it can be optionally controlled by a foot pedal. The Brooks Universal Plate Piercer is compact and easy-to-use, requiring only compressed air to operate.

Two models are available:

- 1800021: UPP for DTBR 384 (REMP delivery tube racks) and microplates (384 and 96 way)
- 1800151: UPP for REMP STBR-96-300 and REMP STBR 96-900 tube racks



Technical Information

Performance:

- Cycle time: roughly 1s – 5s (depending on the user)
- No washing/drying of piercing pins with REMP Seal Piercing Lids

Operating Requirements:

- Electrical: NONE
- Air: 6 bar [87psi] – filtered, oil-less compressed air

Technical Specifications:

- Dimensions: 364mm x 135mm x 226mm [14.3" x 5.3" x 8.9"] (LxWxH)
- Weight: 10kg [22lbs]

Option:

1800221 Foot Pedal

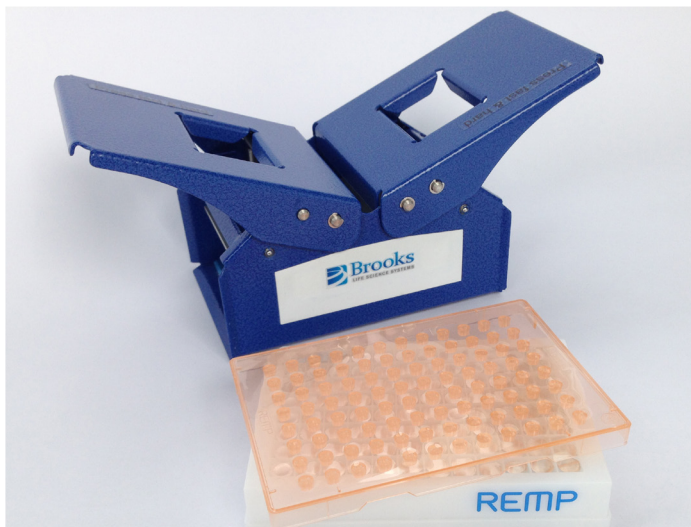
EasyPiercer

The Brooks low cost EasyPiercer is available as standard for REMP STBR96-300 format tubes and is used with 1800054, orange 96-way piercing lids.

It is designed for the specific requirements of biobanking, (storing aqueous solutions) and their typically distributed workflows.

Its simple lever-actuated design allows for precise and controlled piercing on every plate and is easy to operate.

The EasyPiercer requires minimal space to operate and does not require any electrical or air connections.



Technical Information Features and Benefits

- Manual, lever-actuated operation is simple and easy-to-use
- Compact, portable bench-top design
- Requires no electrical or air connections
- Uses disposable REMP Seal Piercing Lids (96-way, orange) to pierce the seals on REMP STBR96-300 format tube racks.

Performance:

- Cycle time: roughly 1s – 5s (depending on the user)
- No washing/drying of piercing pins with REMP Seal Piercing Lids

Operating Requirements:

- Electrical: NONE
- Air: NONE

Technical Specifications:

- Dimensions: 230mm x 100mm x 100mm [9" x 4" x 4"] (LxWxH)
- Weight: 0.8kg [1.75lbs]



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