



DE-GROOT LABORATORY EQUIPMENT LTD.
דה-גרוט ציוד מעבדות בע"מ

48 Pin Multi-Blot Replicator



48 Pin Tools for 48 well Microplates on 13.68 mm centers

VP 480

48 stainless steel pins in an anodized aluminum base. Compatible with many 48 well plates. The pins transfer ~2 ul liquid to liquid, and ~.2 ul liquid to membrane (hanging drop). Also for use in transferring liquids to agar plates. Pin diameter = 1.58mm, pin length = 21.8mm, center to center spacing = 13.68 mm



Check the center to center spacing on your plate very carefully as this varies between manufacturers. Also the location of the matrix (position of the A1 well) varies between manufacturers.

If you are transferring DNA, cDNA or other materials in hydrophobic solutions you will find that by using our new V&P Pin Cleaning Solution you will greatly increase the precision of delivery. For an explanation see the [FAQ page](#) and the [V&P Pin Cleaning Solution page](#).

Technical Documents:

[Care and use of Multi-Blot Replicator](#)

48 Pin Tools for 48 well Microplates on 13 mm centers

VP 481-P12

48 stainless steel pins in an anodized aluminum base. Compatible with Falcon # 3078, Greiner 677180 CellStar 48W and Costar 48 well plates. The pins transfer ~1.5 ul liquid to liquid, and ~0.75 ul liquid to membrane (hanging drop). Also for use in transferring liquids to agar plates. Pin diameter = 2.36mm, pin length = 21.8mm, center to center spacing = 13.08 mm



Check the center to center spacing on your plate very carefully as this varies between manufacturers. Also the location of the matrix varies between manufacturers. Nunc 48 well plates are on 13.5 mm centers.

If you are transferring DNA, cDNA or other materials in hydrophobic solutions you will find that by using our new V&P Pin Cleaning Solution you will greatly increase the precision of delivery. For an explanation see the [FAQ page](#) and the [V&P Pin Cleaning Solution page](#).

Technical Documents:

[Care and use of Multi-Blot Replicator](#)

VP 481M

48 Magnetic stainless steel pins in an anodized aluminum base. Compatible with Greiner (#677180) CellStar (48W), Falcon (#3078) and Costar 48 well plates (#3548). Although designed to remove stir elements from 48 well microplates, the pins will also transfer ~1 ul liquid to liquid, and ~0.2 ul liquid to membrane (hanging drop). Also for use in transferring liquids to agar plates. Pin diameter = 1.58mm, pin length = 21.8mm, center to center spacing = 13.08 mm

Check the center to center spacing on your plate very carefully as this varies between manufacturers. Also the location of the matrix varies between manufacturers. Nunc 48 well plates are on 13.5 mm centers.

If you are transferring DNA, cDNA or other materials in hydrophobic solutions you will find that by using our new V&P Pin Cleaning Solution you will greatly increase the precision of delivery. For an explanation see the [FAQ page](#) and the [V&P Pin Cleaning Solution page](#).

Technical Documents:

[Magnetic Stirrer Loader & Unloader Manual](#)



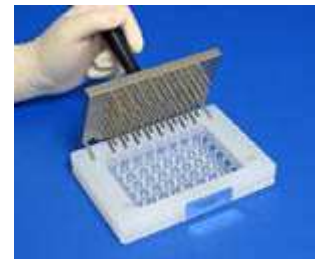
VP 481-P13

48 stainless steel pins in a Ni-Lube coated aluminum base.

Compatible with Greiner (#677180) CellStar (48W), Falcon (#3078) and Costar 48 well plates (#3548). Although designed to remove stir elements from 48 well microplates, the pins will also transfer ~1 ul liquid to liquid, and ~0.2 ul liquid to membrane (hanging drop). Also for use in transferring liquids to agar plates. Pin diameter = 3.18mm, pin length = 21.8mm, center to center spacing = 13.08 mm.

Check the center to center spacing on your plate very carefully as this varies between manufacturers. Also the location of the matrix varies between manufacturers. Nunc 48 well plates are on 13.5 mm centers.

If you are transferring DNA, cDNA or other materials in hydrophobic solutions you will find that by using our new V&P Pin Cleaning Solution you will greatly increase the precision of delivery. For an explanation see the [FAQ page](#) and the [V&P Pin Cleaning Solution page](#).



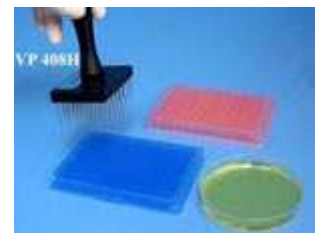
48 Pin Tools for 96 and 384 well Microplates on 9 mm centers

VP 408H

The VP 408H is very convenient for inoculating 85 mm diameter Petri dishes and membranes with yeast or other microorganisms. Also for use in colony to colony transfers on agar or other surfaces. It is also compatible with 384 well microplates. It is made with 48 stainless steel pins of the same length pressed into an anodized aluminum base to facilitate a flat contact. It can be alcohol flame sterilized or autoclaved. The pins are on 9 mm centers, (96 well format) 1.58mm in diameter, 22mm long and carry a hanging drop of ~250 nl

Technical Documents:

[Care and use of Multi-Blot Replicator](#)



VP 408HA

The VP 408HA is very convenient for inoculating 85 mm diameter Petri dishes and membranes with yeast or other microorganisms. Also for use in colony to colony transfers on agar or other surfaces. It is also compatible with 384 well microplates. It is made with 48 stainless steel pins of the same length pressed into an anodized aluminum base to facilitate a flat contact. It can be alcohol flame sterilized or autoclaved. The pins are on 9 mm centers, (96 well format) 1.58mm in diameter, 57mm long and carry a hanging drop of ~250 nl

Technical Documents:

[Care and use of Multi-Blot Replicator](#)



VP 407AH

The VP 407AH is the preferred pin tool for Yeast researchers who want to inoculate larger volumes (~3 ul) onto an agar Petri dish. Also for use in colony to colony transfers on agar or other surfaces. The pins are spaced to fit into half of a 96 well microplate yet are small enough to inoculate a 85 mm Petri plate. It is made with 48 stainless steel pins of the same length pressed into an anodized aluminum base to facilitate a flat contact. It can be alcohol flame sterilized or autoclaved. The pins are on 9 mm centers, (96 well format) 3.15mm in diameter, 22mm long and carry a hanging drop of ~3 ul

Testimonial from postdoctoral fellow at a major university: "...regarding the product VP 407AH. I have been using this pin tool and I think it is fantastic."

See our [floating pin tools](#) for transferring yeast and bacteria to agar Omni Trays.

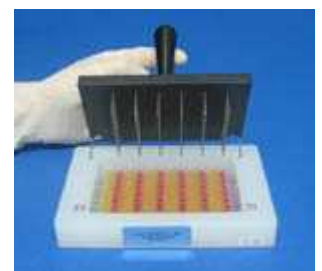
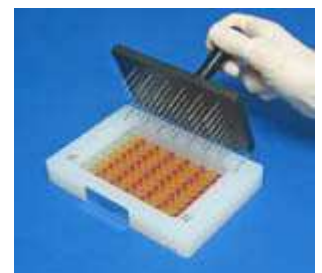
Technical Documents:

[Care and use of Multi-Blot Replicator](#)



VP 409-48

The Replicator to the right is a VP 409 with every other column filled with pins. This design allows the customer to inoculate only one half the plate at a time. The other half of the plate can be addressed by merely taking the VP 381 Library Copier off and rotating it 180 degrees. What ever your purpose, assay or control well scheme is - we have a solution for you.



Blot Type Replicators

VP 404A

48 stainless steel bolts on 9 mm centers (96 well format) with an anodized aluminum base. The bolts pick up liquid in the threads, transferring up to ~10 ul of liquid in the bolt threads (depending on the depth of submersion of the bolts). **Not for use in transferring liquids to agar plates or membranes, or colony to colony transfers on agar due to the irregularity in bolt length.** Bolt length = ~17.7mm, bolt diameter = 3.4mm



[Click here to see more varieties of Bolt Replicators](#)

Technical Documents:

[Care & Use of Bolt Replicators](#)

Floating Pin Replicators

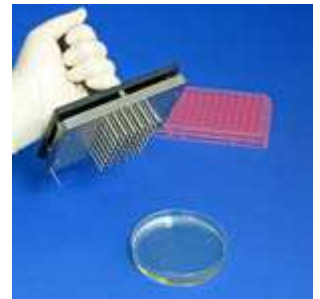
AFIX48FP13M

The AFIX48FP13M was designed to transfer yeast or bacterial cultures from a 96 well microplate to an agar petri dish.

FP13 pins sold separately
Flat tip, 3.18 mm diameter
Exposed pin length = 22 mm
Overall pin length = 27 mm
Solid pin hanging drop = ~3 ul

BMPM-E-CLIP

Manual mounting plate and handle sold separately



AFIX48FP

The AFIX48FP was designed to make wounds in tissue culture monolayers grown in 48 well microplates. Each of the pins float the fixture and has a silicone rubber gasket to press against to keep all the pins at the same level.

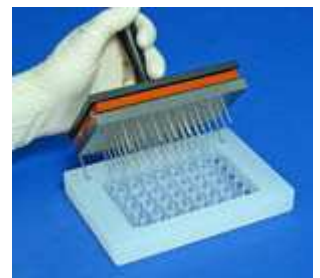
FP pins sold separately
Pointed tip, 0.38 mm diameter at the tip with a 1.58 mm diameter shaft.
Exposed pin length = 22 mm
Overall pin length = 34 mm

BMPM-E-CLIP

Manual mounting plate and handle sold separately.

BMPM-PAD

silicone rubber gasket sold separately



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