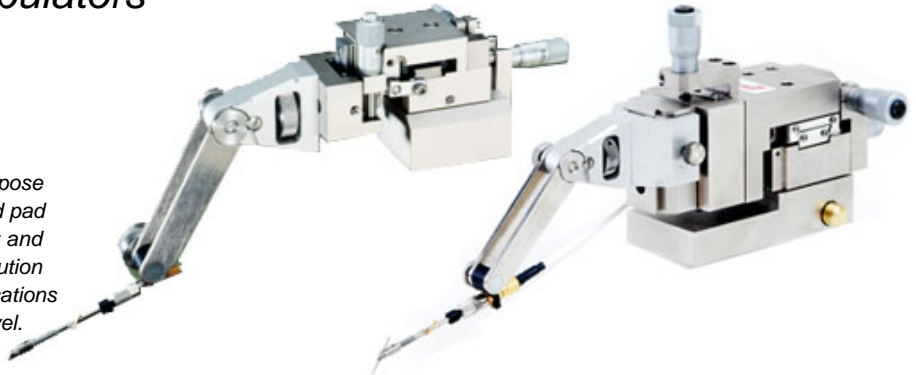


PVX 400 and PVX 500

Manual Linear Motion Manipulators

PVX 400 (left) is a general purpose XYZ manipulator ideal for bond pad and large feature size probing; and PVX 500 (right) is a high resolution XYZ manipulator ideal for applications such as DC, RF, and low level.



Flexible for Many Applications

PVX 400 manual linear motion manipulator for Wentworth Aspect, PML and Pegasus Series probers delivers a highly versatile solution for applications such as direct current (DC), radio frequency (RF) and low level. PVX 400's small footprint is also ideal for applications utilizing a large number of manipulators or where platen area is at a premium.

PVX 500 manual linear motion manipulator for Wentworth PML and analytical probers delivers a highly versatile solution for applications such as direct current (DC), radio frequency (RF) and low level.

Precise and Accurate Positioning

PVX 400 and PVX 500 micrometer drives and re-circulating linear slides provide precise linear motion in all three axes. This allows for ease of positioning onto the finest geometries.

Featuring a choice of either magnetic or vacuum hold down, the PVX 400 and PVX 500 manipulators provide a rigid probing platform with a quick-release facility for fast, easy repositioning of the manipulator unit. Articulated front-end assemblies allow easy integration of the PVX 400 or PVX 500 onto most standard systems. A wide range of front ends assemblies and needle holders are available for the PVX 400 and PVX 500 manipulators.

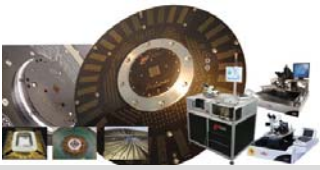
Features to Improve Performance

PVX 400

- Smooth precision positioning
- Micrometer driven
- Versatile – for a variety of applications
- Small footprint allows the placement of many PVX 400's on a single platform
- Easy and quick repositioning with magnetic or vacuum hold down

PVX 500

- Smooth precision positioning
- Micrometer driven
- Versatile - for a variety of applications
- Easy and quick repositioning with magnetic or vacuum hold down



Wentworth Laboratories offers vertical probe card solutions for both memory and logic applications, advanced cantilever probe cards, complete custom probe card design, and a full complement of probers for applications up to 300mm. For more about Wentworth's full turnkey solutions, please visit us on the web at <http://www.wentworthlabs.com>.

PVX 400 and PVX 500 Specifications

	PVX 400	PVX 500
Base Footprint	38 mm x 38 mm	45 mm x 93.5 mm
Height	62 mm	103 mm
Weight	0.4 kg	1 kg
	vacuum base, without front ends	vacuum base, without front ends
Travel	X = 5 mm, y = 5 mm, z = 5 mm	x = 10 mm, y = 10 mm, Z = 10 mm
Resolution	7 μm^0	4 μm^0
Hold Down	Vacuum or magnetic	Vacuum or magnetic
Drive	Micrometer head 60 TPI	Micrometer head 100 TPI

Manipulator Front Ends – PVX 400 and PVX 500

5-000-4711	Short nose articulated short arm front end for 4" and 6" probing
5-000-4722	Short nose articulated long arm front end for 4", 6" or 8" probing
5-000-4710	Long nose articulated short arm front end for 4", 6" or 8" probing
5-000-4721	Long nose articulated long arm front end for 4", 6" or 8" probing
5-000-8762	Pico probe holder to mount Pico probe onto existing articulated front ends
5-000-4714	Coax needle holder for 0.010" diameter shank needles
5-000-4717	Spring clamp needle holder for needles
5-000-4719	Coax needle holder for 0.010" diameter shank needles, length 3"
5-0004734	Guarded coax needle holder 0.010"
5-000-4735	Guarded coax needle holder 0.010", length 3"
5-000-4736	Guarded coax needle holder for large shank needles 0.020"
5-000-6401	Wire formed front end assembly
5-000-3711	Wire formed front end assembly

Manipulator Front Ends – PVX 400 only

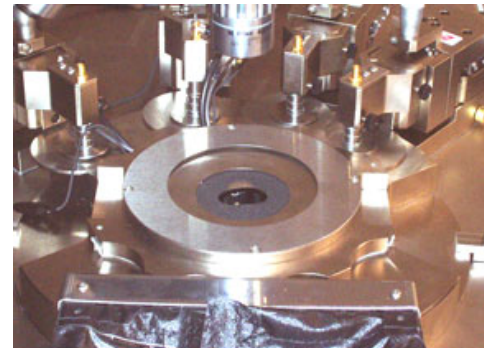
5-000-4729	Swivel arm adapter for articulated front ends
5-000-8679	Short nose articulated short arm Pico probe holder

Manipulator Front Ends – PVX 500 only

5-000-3843	Short nose double bend wire form front assembly. Includes: 5-000-3887, 1-040-0176, 5-000-3704. For 8" chuck use (195, 200 Series). Includes probe tip holder.
5-000-3848	Long nose wire form front end assembly. Includes: 5-000-3888, 5-000-3711, 1-040-0176. For 6" chuck use (195, 200 Series). Includes probe tip holder.
5-000-3849	Short nose wire form front end assembly, includes: 5-000-3887, 5-000-3711, 1-040-0060. For 4" chuck use (195, 200 Series). Includes probe tip holder.



PVX 500 manipulators with Wentworth's PML 8000 analytical prober



PVX 500 manipulators going through a micro access chamber used for low level probing

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Main Offices



Wentworth Laboratories, Inc.

500 Federal Road
Brookfield, CT 06804
USA

Tel: 203-775-9311
Fax: 203-775-6093

Wentworth Laboratories, Ltd.

1 Gosforth Close
Sandy, Bedfordshire
SG19 1RB
England
Tel: 44 (0) 1767 681 221
Fax: 44 (0) 1767 691 951

Wentworth Japan Co., Ltd.

1-33-4 Nakagawa Chuo,
Tsuzuki-ku
Yokohama, 224-0003
Japan
Tel: 81-45-912-8520
Fax: 81-45-912-8524