

VACUUM TWEEZERS FOR ULTRA CLEAN HANDLING

技术咨询与报价

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VIRTUAL
INDUSTRIES, INC.



Virtual Industries Will Launch Two New Vacuum Handling Systems at productronica

COLORADO SPRINGS, CO — October 2015 — Virtual Industries Inc., a leading supplier of manual vacuum handling solutions, today announced that it will exhibit in Hall A3, Booth 443 at the productronica International Trade Fair, scheduled to take place Nov. 10-13, 2015 at the Messe München exhibition center in Munich, Germany. Company representatives will demonstrate the TWEEZER-VAC® Elite and ADJUST-A-VAC® Elite

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The TWEEZER-VAC Elite (TV-1500-ELITE) was developed in response to customer concerns about firmly grasping critical components and not dropping them due to a vacuum leak. This vacuum tweezer uses an integrated ten segment bar-graph display that visibly shows the vacuum level present during operation. Additionally, the vacuum port integrates a user replaceable inlet filter that protects operation of the tool from dust particles. The TWEEZER-VAC Elite is available in various kits depending on your handling application. Kits are available in 110 or 220 volt operation.

The ADJUST-A-VAC Elite (AV-5000-MW8) was developed in response to customer concerns about manual handling of very thin/delicate substrates, wafers, MEMS devices and other very fragile components. This vacuum tweezer allows the operator to adjust the vacuum level from just below atmospheric pressure to up to ten inches of mercury, depending on the fragility of the part being handled. An integrated ten segment bar-graph-display visibly shows the vacuum level present during handling operations. Like the TWEEZER-VAC Elite, the system features an integrated bar-graph display and replaceable inlet filter that protects operation of the tool from dust particles. The TWEEZER-VAC Elite is available in various kits depending on your handling application. Kits are available in 110 or 220 volt operation.



About Virtual Industries Inc.

Founded in 1987, Virtual Industries Inc. is headquartered in Colorado Springs, Colo. For more than 20 years, Virtual Industries has been a leading provider of vacuum handling solutions to the world's high tech industry. It is used by CLASS I clean room personnel, electronics assemblers, semiconductor manufacturers, Universities and scientists globally. Virtual Industries provides innovative manual vacuum handling tools and pick up devices. We receive customer feed back. These tools provide customer specific solutions that make assembly and processing operations more productive and ergonomic. For more information, visit the company at www.virtual-ii.com.

TWEEZER-VAC® ELITE Vacuum Tweezer Kits

TWEEZER VAC® ELITE Kits

The TWEEZER-VAC® ELITE was developed as a result of customer concerns about firmly grasping critical components and not dropping them due to a vacuum leak. This vacuum tweezer uses an integrated ten segment bar-graph-display visibly shows the vacuum level present during operation. The bar graph will show minimum vacuum pressure until a part is grasped and then when a part is grasped the bar graph displays the vacuum level presented to the part being handled. Additionally, the vacuum port integrates a user replaceable inlet filter that protects operation of the tool from dust particles.

- 5 feet of coiled vacuum hose (VCH-2.5MM-5-BLK).
- A set of ten vacuum tips (VCS-10-PUR).
- Five vacuum tip holders on top of tool.
- A vacuum pick-up handle (VVP-200-2.5MM).
- Bar graph power-on and vacuum-level indicator.
- Rubber no-skid feet.
- ESD ground connection is by three wire power cord included.
- Produces vacuum of up to ten inches of mercury.
- Whisper-quiet operation.
- Long-life pump.
- Optional: Foot switch for component release. See below.

TV-1500-PUR10-110 The TWEEZER-VAC® ELITE 110 or 220 volts models come complete with the following accessories/features: 5 feet of coiled vacuum hose (VCH-2.5MM-5-BLK), a set of ten PUREACLEAN™ blue, non-marking vacuum cups (VCS-10-PUR), ESD ground connection is by three wire power cord, and a push-button release vacuum pick-up handle (VVP-200-2.5MM).

\$ 399.00 price each



TV-1500 TWEEZER VAC® ELITE

ADJUST-A-VAC Vacuum Tweezer Kits

ADJUST-A-VAC Kits

The ADJUST-A-VAC was developed as a result of customer concerns about manual handling of very thin/delicate substrates, wafers, MEMS devices and other very fragile components. This vacuum-tweezer allows the operator to adjust the vacuum level from just below atmospheric pressure to up to ten inches of mercury depending on the fragility of the part being handled. An integrated ten segment bar-graph-display visibly shows the vacuum level present during handling operations. The bar graph will show minimum vacuum pressure until a part is grasped and then the bar graph displays the vacuum level presented to the part being handled. Additionally, the vacuum port integrates a user replaceable inlet filter that protects operation of the tool from dust particles.

- Adjustable knob for vacuum level.
- 5 feet of coiled vacuum hose (VCH-2.5MM-5-BLK).
- A set of ten vacuum tips (VCS-10-PUR).
- Five vacuum tip holders on top of tool.
- A vacuum pick-up handle (VVP-200-2.5MM).
- Bar graph power-on and vacuum-level indicator.
- Rubber no-skid feet.
- ESD ground connection is by three wire power cord included.
- Produces vacuum of up to ten inches of mercury.
- Whisper-quiet operation.
- Long-life pump.
- Optional: Foot switch for component release. See below.

AV-5000-PUR10-110 The ADJUST-A-VAC 110 or 220 volts models come complete with the following accessories/features: 5 feet of coiled vacuum hose (VCH-2.5MM-5-BLK), a set of ten PUREACLEAN™ blue, non-marking vacuum cups (VCS-10-PUR), ESD ground connection is by three wire power cord, and a push-button release vacuum pick-up handle (VVP-200-2.5MM).

\$ 463.00 price each



AV-5000 ADJUST-A-VAC

Foot Switch With Vacuum Pen For Use With The TWEEZER VAC® Elite and ADJUST-A-VAC

Includes a foot switch and a vacuum pen with no control hole. This product requires a continuous vacuum source.

VFS-2.5 Foot switch and a vacuum pen with no control hole.

\$ 57.20 price each



TV-1000 TWEEZER VAC® Kits

This compact unit will handle a wide variety of parts used in industry today. The long-life diaphragm vacuum pump generates up to 10 inches of mercury with an open air flow of 2.3 lpm. The unit connects to ground automatically with a three-wire power cord. The TV-1000 comes complete with the following features:

- Lighted On/Off switch.
- Whisper-quiet operation.
- Long-life pump.
- A set of seven PUREACLEAN™ vacuum tips, (VCS-7B-PUR).
- A push-button release vacuum pick-up handle, (VVP-200).
- 5 feet of coiled vacuum hose, 1/16" diameter, (VCH-1/16-5).
- Rubber no-skid feet.
- Side mounted handle holder.
- Foot print measures 7-1/4" X 3" X 2-1/2" (185mm X 76mm X 64mm).

TV-1000-PUR-110

The TWEEZER-VAC® 110 or 220 volts models come complete with the following accessories/features: 5 feet of coiled vacuum hose 1/16" diameter (VCH-1/16-5), a set of seven PUREACLEAN™ blue, non-marking vacuum cups (VCS-7B-PUR), and a push-button release vacuum pick-up handle (VVP-200).

TV-1000-PUR-220

\$ 250.20 price each



TV-1000-PUR-110 and TV-1000-PUR-220

TV-1000 TWEEZER VAC® Kits With Small Parts Tips

This compact unit will handle a wide variety of parts used in industry today. The long-life diaphragm vacuum pump generates up to 10 inches of mercury with an open air flow of 2.3 lpm. The unit connects to ground automatically with a three-wire power cord. The TV-1000 comes complete with the following features:

- Available in 110 or 220 volt models.
- Lighted On/Off switch.
- Whisper-quiet operation.
- Long-life pump.
- Push-button release vacuum pick-up handle (VVP-200).
- A set of eight Delrin small parts tips (VSPT-KIT-8-BD).
- A set of seven PUREACLEAN™ vacuum tips, (VCS-7B-PUR).
- Vacuum tips holder with sixteen locations (VTH-16).
- Produces vacuum of up to 10 inches of mercury.
- Rubber no-skid feet.
- Side mounted handle holder.
- Foot print measures 7-1/4" X 3" X 2-1/2" (185mm X 76mm X 64mm).

TV-1000-SP8-PUR-110

The TWEEZER-VAC® 110 or 220 volts models come complete with the following accessories/features: 5 feet of coiled vacuum hose 1/16" diameter (VCH-1/16-5), a push-button release vacuum pick up handle (VVP-200), a set of seven PUREACLEAN™ blue, non-marking vacuum cups (VCS-7B-PUR), a set of eight Delrin small parts tips (VSPT-TIPS-8-BD), and a 16 position tip organizer/holder (VTH-16).

TV-1000-SP8-PUR-220

\$ 491.20 price each



TV-1000-SP8-PUR-110 and TV-1000-SP8-PUR-220

Replacement Bent Vacuum Tip Kits

This kit contains seven bent probes with 1/8" (3.18mm), 3/16" (4.76mm), 1/4" (6.35mm), 3/8" (9.53mm), 1/2" (12.70mm), 5/8" (15.88mm), and 3/4" (19.05mm) cups.

VCS-7B-PUR

Replacement bent probe/cup PUREACLEAN™ blue, non-marking vacuum cups

\$ 41.30 price each



SMD-VAC™-HP Vacuum Tweezer Kits

SMD-VAC™-HP

SMD-VAC™-HP, runs on 12 VDC @ 500mA w/ solenoid. With a precision pump and motor that generates up to 15 inches of mercury; this tool provides additional pick-up power for handling small to very large size components. The compact tower design takes up a very small footprint on the bench. An electric eye pen holder on the side automatically shuts the unit off when the vacuum pen is placed in it. A jack on the rear of the V8100A series allows use of the optional foot switch to control vacuum during pick and place operations. The SMD-VAC™-HP comes complete with the following features:

- Quiet operation.
- 5 feet of coiled vacuum hose, (VCH-1/16-5).
- A set of seven PUREACLEAN™ vacuum tips, (VCS-7B-PUR).
- A vacuum pick-up handle, (VVP-200).
- 12 volt DC power source.
- Lighted power on indicator.
- Automatic vacuum pump ON/OFF control.
- Rubber no-skid feet.
- Grounding connection on rear of unit.
- Produces vacuum of up to fifteen inches of mercury.
- Auto voltage switching DC power supply.
- Replaceable intake filter on front of unit.

V8100A-PUR

SMD-VAC™-HP for 110 or 220 Volts

\$ 462.10 price each

V8100A-FS-PUR

SMD-VAC™-HP with foot switch, for 110 or 220 Volts

\$ 510.50 price each



V8100A-PUR and V8100A-FS-PUR

SMD-VAC™-HP Small Parts Kit

SMD-VAC™-HP, runs on 12 VDC @ 500mA w/ solenoid. With a precision pump and motor that generates up to 15 inches of mercury; this tool provides additional pick-up power for handling small to very large size components. The compact tower design takes up a very small footprint on the bench. An electric eye pen holder on the side automatically shuts the unit off when the vacuum pen is placed in it. This kit includes 5 feet of coiled vacuum hose 1/16" diameter (VCH-1/16-5), a set of seven PUREACLEAN™ vacuum tips (VCS-7B-PUR), a push-button release vacuum pick-up handle (VVP-200), Foot Switch (VFS-1), a set of eight Delrin small parts tips (VSPT-TIPS-8-BD), a 16-position tip organizer/holder. (VTH-16), and a wall power supply for operation.

- Quiet operation.
- 5 feet of coiled vacuum hose, (VCH-1/16-5).
- A set of eight Delrin small parts tips (VSPT-KIT-8-BD).
- A set of seven PUREACLEAN™ vacuum tips, (VCS-7B-PUR).
- Vacuum tips holder with sixteen locations (VTH-16).
- A vacuum pick-up handle, (VVP-200).
- 12 volt DC power source.
- Lighted power on indicator.
- Automatic vacuum pump ON/OFF control.
- Rubber no-skid feet.
- Grounding connection on rear of unit.
- Produces vacuum of up to fifteen inches of mercury.
- Auto voltage switching DC power supply.
- Replaceable intake filter on front of unit.

V8100A-SP8-PUR

SMD-VAC™-HP Small Parts Kit without foot switch, for 110 or 220 Volts

\$ 655.80 price each

V8100A-FS-SP8-PUR

SMD-VAC™-HP Small Parts Kit with foot switch, for 110 or 220 Volts

\$ 710.70 price each



V8100A-SP8-PUR and V8100A-FS-SP8-PUR

Intake Replacement Filters

This is a replacement for the hose-barb feed-thru filter. Just unscrew the hose-barb feed-thru on the front of the unit and replace the filter.

VF-FT-FILTER-40M

Feed-Thru Filter 40 Micron, includes a set of five replaceable filters.

\$ 40.00 price each



Photos are not to scale. Prices subject to change without notice.