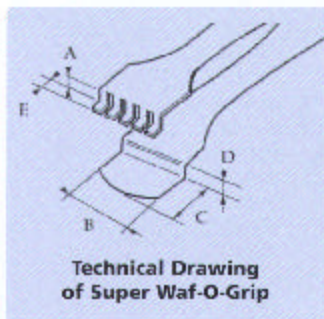


Wafer Handling Tweezers & Vacuum Pick-up Tools

Kitsets
EXCELTA



Technical Drawing of Super Waf-O-Grip

Three Teeth



391-5A

A. 4.0 mm - .157 in
B. 6.5 - .257
C. 5.0 - .197
D. 3.5 - .138
E. 2.5 - .100

Four Teeth



491-5A

A. 4.0 mm - .157 in
B. 12.0 - .472
C. 7.0 - .275
D. 3.5 - .138
E. 2.5 - .100

Five Teeth



591-5A

A. 3.0 mm - .118 in
B. 16.2 - .638
C. 9.0 - .354
D. 2.7 - .106
E. 3.0 - .120

Six Teeth



691-5A

A. 3.0 mm - .118 in
B. 15.8 - .780
C. 9.0 - .355
D. 2.7 - .106
E. 3.0 - .120

Eight Teeth



891-5A

A. 3.8 mm - .150 in
B. 26.5 - 1.043
C. 11.5 - .453
D. (none)
E. 2.15 - .085



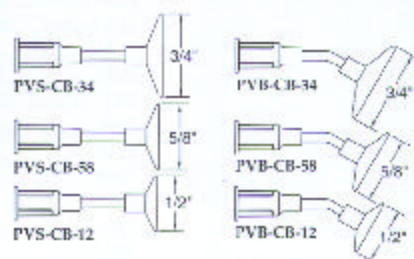
PV-1A-ESD Pen-Vac Junior™

Static Safe Vacuum Pick-up tool is completely self contained no hoses to work around. Comes in a plastic tube with one each of the following Pen Vac hand piece:

PVB-CB-38 PVS-CB-38
PVB-CB-14 PVS-CB-14
PVB-CB-18 PVS-CB-18

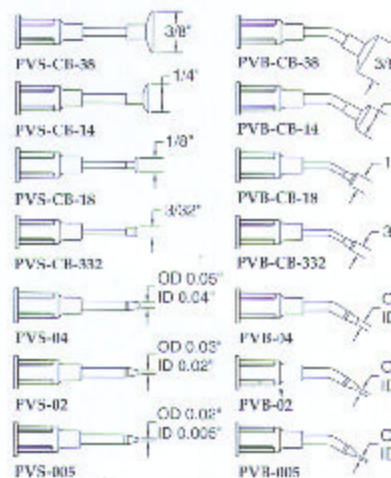
Probe/cup combinations

Fits on to PV-1A-ESD and 4000GP



Probe/cup combinations

Fits on to PV-1A-ESD and 4000GP



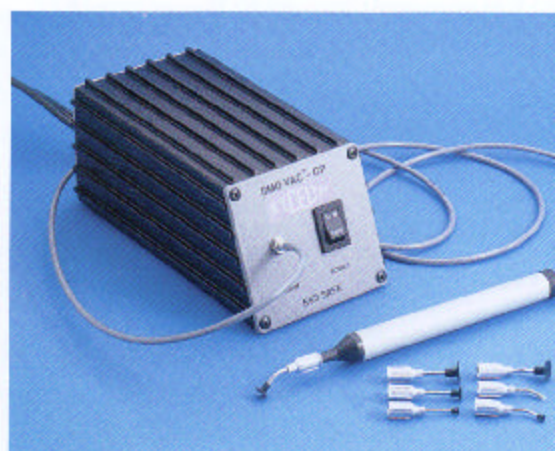
Porta-Wand

Rechargeable Battery Operated Vacuum Pick-up Tool

Kit includes hand piece, charger & tip

PV-300-W4 4" wafer kit
PV-300-W6 6" wafer kit
PV-300-W8 8" wafer kit
PV-300-W12 12" wafer kit

PV-W4 4" tip only
PV-W6 6" tip only
PV-W8 8" tip only
PV-W12 12" tip only



4000-GP Vacuum Pick-up Kit

- General purpose continuous vacuum handling system, ESD safe
- Rugged, compact all-metal construction
- Whisper-quiet operation
- Pulls 6-8 in. Mercury

KIT INCLUDES:

Hand piece	PVB-CB-38	PVS-CB-38
Vacuum Pump	PVB-CB-14	PVS-CB-14
Hose 1/16" I.D.	PVB-CB-18	PVS-CB-18