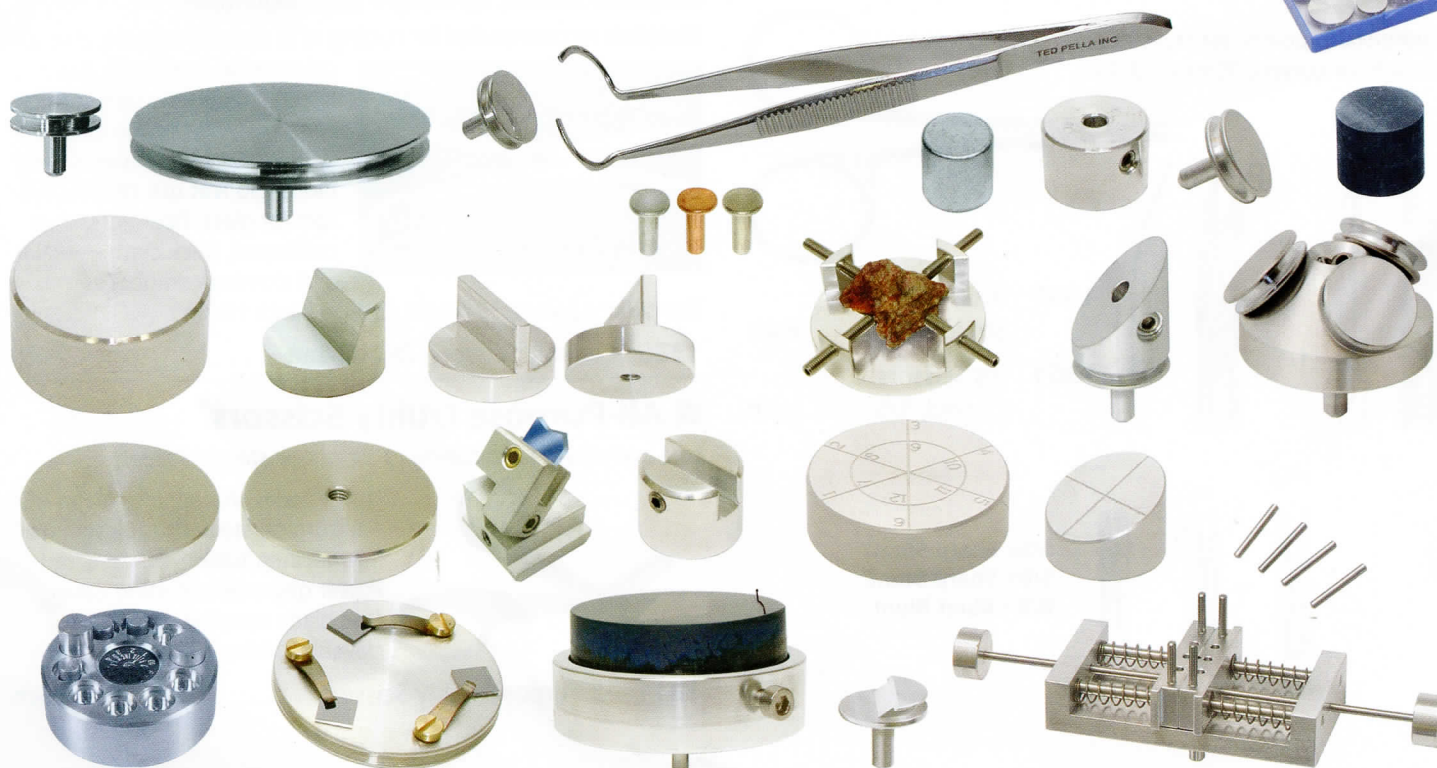
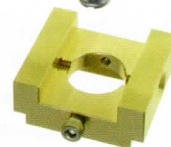


## SEM Supplies Index

SEM Pin Stub Specimen Mounts .....	487-490
JEOL Cylinder Mounts .....	490-492
ISI/ABT/Topcon Cylinder Mounts .....	492 and 518
Hitachi M4 Cylinder Mounts .....	493-494
SEM Carbon Specimen Mounts .....	495-496
SEM Specimen Mount Adapter .....	496-498
SEM Pin Mount Specimen Holders .....	498-503
PELCO SEMClip™ Specimen Mounts .....	503-505
Hitachi T-Base Specimen Holders .....	506
Finder Grids .....	506
PELCO® Modular SEM Specimen Holders .....	507-517
Hitachi S-5200/S-5500 Specimen Mounts .....	518
Hitachi TM-1000 Benchtop Specimen Mounts and Holders .....	519-523
Novelx <i>mySEM</i> Specimen Mounts and Holders .....	524-526
FEI Phenom Specimen Mounts and Holders .....	527-528
JEOL Neoscope Benchtop SEM Specimen Mounts and Holders .....	529-533
Carbon Tabs, Vitreous and Carbon Planchets, BE Planchets .....	534
SEM Mount Grippers .....	535-536
SEM Mount Storage .....	537-539

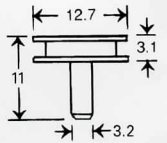


## SEM Pin Stub Specimen Mounts

Largest available selection of Pin Stub Mounts for Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, AMRAY and ETEC SEMs. All Pin Stubs have the most commonly used 3.2mm (1/8") pin diameter and a choice of head sizes ranging from 6.5 to 100mm for optimum fit of specimen sizes. Special Pin Stubs are offered with 45°, 70° and 90° angles for convenient mounting of specimens and study of cross sections.

### Cambridge, Leica, ZEISS/LEO, FEI, Philips, CamScan, Tescan, AMRAY

Most commonly used SEM Pin Stub Mount,  $\varnothing 12.7$ mm

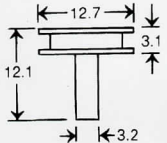


**16111** Cambridge, Leica, LEO, ZEISS, Philips, FEI, CamScan, Tescan, ETEC, aluminum, grooved edge pkg/50, 100, 500 or 1000

**Numbered - Note: Must order a minimum of 500**

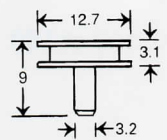
**16111N**  $\varnothing 12.7$ mm Cambridge, Leica, LEO, ZEISS, Philips, FEI, CamScan, Tescan, ETEC, aluminum, grooved edge, numbered 1-alpha/4-numeric, designate sequence when ordering .....each

### Special ZEISS/LEO SEM Pin Stub Mount, $\varnothing 12.7$ mm



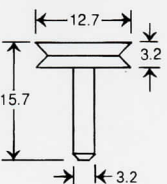
**16202** ZEISS/LEO Mount (no chamfer on leg), aluminum, grooved edge pkg/100 or 500

### Shorter pin for all ZEISS/LEO, FESEM/FIBs, $\varnothing 12.7$ mm



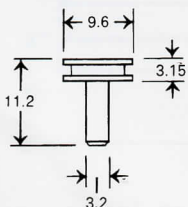
**16111-9** ZEISS/LEO, aluminum, grooved edge pkg/50, 100, 500 or 1000

### AMRAY Special Slotted Head, $\varnothing 12.7$ mm



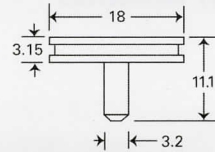
**16242** AMRAY special slotted head, aluminum .pkg/100

### Special Small Head $\varnothing 9.6$ x 11.2mm H Pin Stub



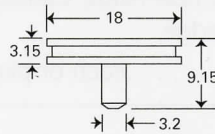
**16142** Special Small Head Pin Stub for Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\varnothing 9.6$ mm .....pkg/50

### $\varnothing 18$ x 11.1mm H Pin Stub



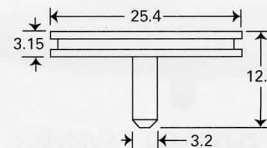
**16119** Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\varnothing 18$  x 11.1mm H .....pkg/10, 50 or 100

### $\varnothing 18$ x 9.15mm H Pin Stub



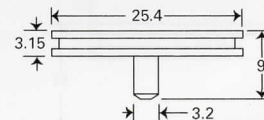
**16119-9** Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\varnothing 18$  x 9.15 mm H .....pkg/10, 50 or 100

### Large $\varnothing 25.4$ x 12.7mm H Pin Stub



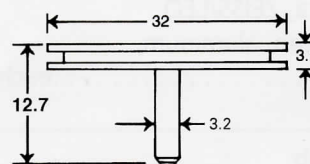
**16144** Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\varnothing 25.4$  x 12.7mm H .....pkg/10, 50 or 100

### Large $\varnothing 25.4$ x 9mm H Pin Stub



**16144-9** Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\varnothing 25.4$  x 9mm H .....pkg/10, 50 or 100

### Large $\varnothing 32$ x 12.7mm H Pin Stub

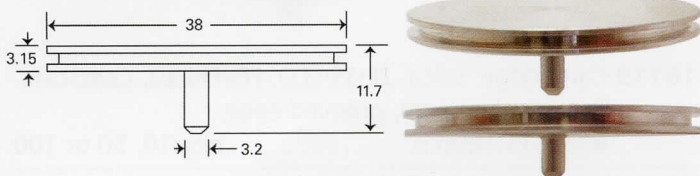


**16148** Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\varnothing 32$  x 12.7mm H .....pkg/10, 50 or 100



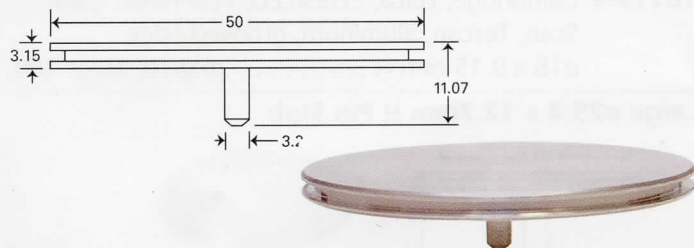
### SEM Pin Stub Specimen Mounts

#### Large $\varnothing 38 \times 11.7\text{mm H}$ Pin Stub



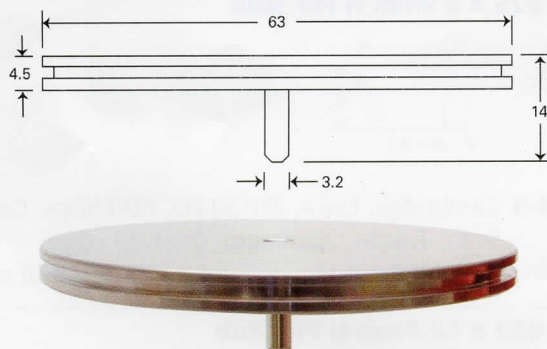
**16112** Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\varnothing 38\text{mm}$  .....each or pkg/10

#### Large $\varnothing 50 \times 11.1\text{mm H}$ Pin Stub



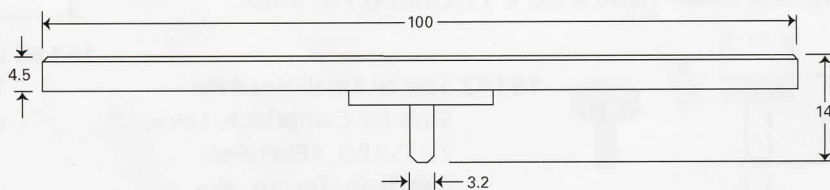
**16113** AMRAY, Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\varnothing 50\text{mm}$  .....each

#### Large $\varnothing 63 \times 14\text{mm H}$ Pin Stub



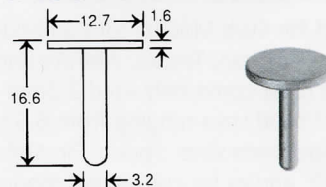
**16114** AMRAY, Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\varnothing 63\text{mm}$  .....each

#### Large $\varnothing 100 \times 14\text{mm H}$ Pin Stub



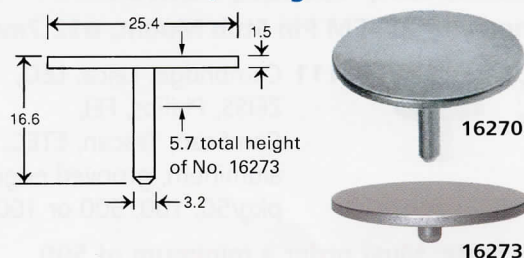
**16116** Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\varnothing 100\text{mm}$  .....each

#### $\varnothing 12.7 \times 16.6\text{mm H}$ Pin Stub



**16261**  $\varnothing 12.7 \times 16.6\text{mm H}$  Pin Stub. ....pkg/50, 100, 500 or 1000

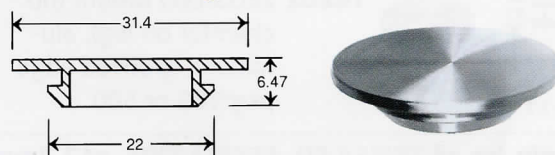
#### $\varnothing 25.4\text{mm}$ Pin Stub, 2 heights available



**16270** AMRAY 1000/1200, aluminum,  $\varnothing 25 \times 16.6\text{mm H}$ . ....pkg/10, 50 or 100

**16273** AMRAY 1000/1200, aluminum,  $\varnothing 25 \times 5.7\text{mm H}$ . ....pkg/10, 50, 100 or 500

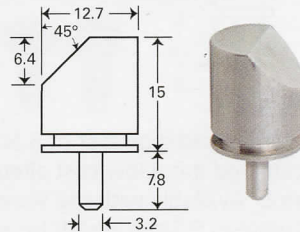
#### $\varnothing 31.4\text{mm}$ Cambridge S-4



**16115** Cambridge S-4, CamScan, aluminum,  $\varnothing 31.4 \times 6.47\text{mm H}$ . ....pkg/10, 100 or 500

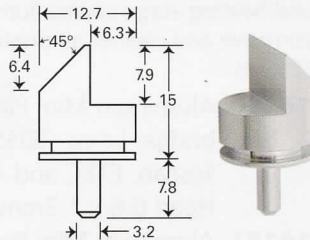
## SEM Pin Stub Angled Mounts

45° SEM Mount for Cambridge, Leica, FEI, Philips, CamScan, Tescan, ETEC, and Amray SEMs. Aluminum, grooved edge.



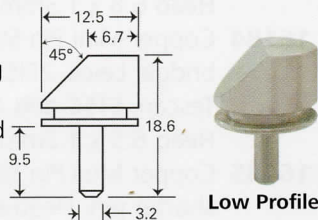
**16101** 45° Mount .....pkg/10 or 100

45° / 90° SEM Mount for Cambridge, Leica, FEI, Philips, CamScan, Tescan, ETEC, and Amray SEMs. Pin leg fits into LEO and other SEMs. Aluminum, grooved edge.



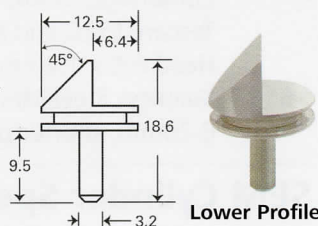
**15359** 45° / 90° Mount .....each

Low profile 45° SEM Mount, pin leg fits into Cambridge, Leica, FEI, Philips, CamScan, Tescan, ETEC, and Amray SEMs. Aluminum, grooved edge.



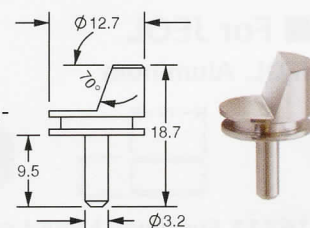
**16102** Low Profile 45° Mount .....each

Low profile 45° / 90° SEM Mount, pin leg fits into Cambridge, Leica, FEI, Philips, CamScan, Tescan, ETEC, and Amray SEMs. Aluminum, grooved edge.



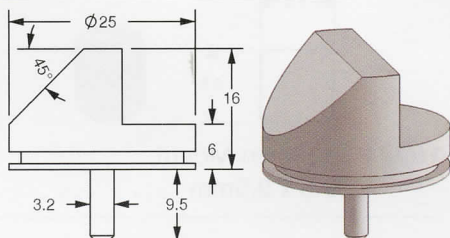
**16104** Low Profile 45° / 90° Mount .....each

Low profile 70° EBSD SEM Mount  $\phi$ 12.7mm for Cambridge, Leica, ZEISS, LEO, FEI, Philips, CamScan, Tescan, ETEC, and Amray SEMs. Aluminum, grooved edge, 9.5mm pin height



**16109** Low Profile 70° Mount,  $\phi$ 12.7mm .....each

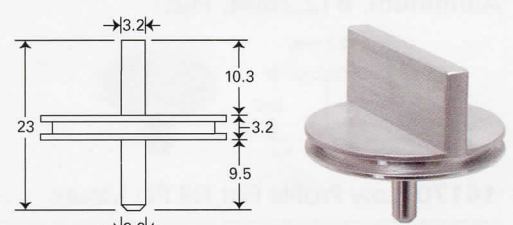
45°/90° SEM Mount  $\phi$ 25mm, pin leg fits into Cambridge, Leica, ZEISS, LEO, FEI, Philips, CamScan, Tescan, ETEC, and Amray SEMs.



Aluminum, grooved edge, 9.5mm pin height

**16355** 45°/90° SEM Mount,  $\phi$ 25mm .....each

Double 90° SEM Mount  $\phi$ 25mm, pin leg fits into Cambridge, Leica, ZEISS, LEO, FEI, Philips, CamScan, Tescan, ETEC, and Amray SEMs.



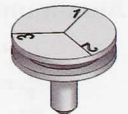
Aluminum, grooved edge, 9.5mm pin height

**16354** Double 90° Mount .....each

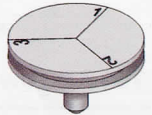
## SEM pin mounts with engraved and numbered divisions

for FEI/Philips, ZEISS/LEO, Cambridge, Leica, Amray, Tescan and Camscan SEMs. Pin is 3.2mm ( $\frac{1}{8}$ ") and 9mm ( $\frac{3}{8}$ ") long. Grooved edge.

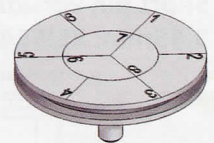
**16360**  $\phi$ 12.7mm pin mount with 3 divisions .....each or pkg/10



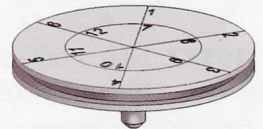
**16363**  $\phi$ 18mm pin mount with 3 divisions .....each or pkg/10



**16364**  $\phi$ 25mm pin mount with 9 divisions .....each or pkg/10



**16367**  $\phi$ 25mm pin mount with 12 divisions .....each or pkg/10



## Low Profile Pin Mounts for FIB Applications

These special low profile pin mounts are available as flat, as a 90° mount, and with specific angles ideally suited to accommodate specimens with small working distances in FIB, DualBeam™ and CrossBeam™ systems. Made of aluminum. Fully compatible with standard pin stub mounts (pin 3.2mm diameter) for sample storage and transport. These mounts can be used directly in FEI and ZEISS/LEO systems and with adapters in Hitachi, JEOL and ISI systems. Four types are available:

- Universal flat pin mount
- Universal 90° pin mount
- 38° complimentary angle pin mount for FEI Dualbeam™ and FIB systems
- 36° complimentary angle pin mount for ZEISS/LEO Cross-Beam™ and NVISON systems

*continued on next page*



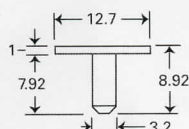
# SEM SUPPLIES

## Low Profile Pin Mounts for FIB; Mini Pin Stubs; SEM Cylinder Specimen Mounts

### Low Profile Pin Mounts for FIB

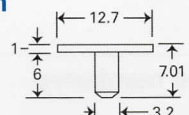
#### Applications *continued*

##### Aluminum, ø12.7mm, Flat



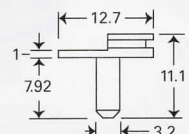
**16170** Low Profile Flat FIB Pin Mount . . . .pkg/10 or 100

##### Short pin version of 16170, pin 6mm, total height 7mm



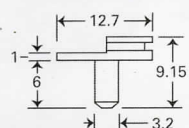
**16176** Low profile flat FIB Pin Mount with short pin (6mm) for ZEISS/LEO systems . . . .pkg/10 or 100

##### Aluminum, ø12.7mm, 90°



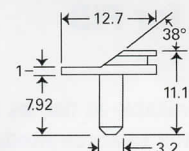
**16171** Low profile flat FIB Pin Mount . . . .pkg/10 or 100

##### Short pin version of 16171, pin 6mm, total height 9.15mm, ZEISS/LEO



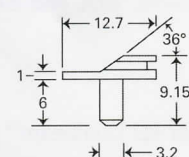
**16177** Low profile 90° FIB Pin Mount with short pin (6mm) for ZEISS/LEO systems . . . .pkg/10 or 100

##### Aluminum, ø12.7, 38°, FEI

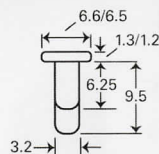


**16172** Low profile 38° FIB mount for FEI . .pkg/10 or 100

##### Aluminum, ø12.7mm, pin 6mm, total height 9.15mm, 36°, ZEISS/LEO



**16173** Low profile 36° FIB mount with short pin (6mm) for ZEISS/LEO . . . . .PKG/10 OR 100



### Mini Pin Stubs



Mini pin stubs are ideal for small samples or parts which need to be examined individually. Takes less space

with a head diameter of 6.5mm, small samples are easier to locate and it is a low cost alternative for the standard 12.7mm pin stub. Available with the standard 3.2mm pin in two lengths: most common 9.5mm length for many SEMs and shorter 6.25mm for ZEISS/LEO SEMs. This mini pin stub is available in three materials: Aluminum - for standard imaging applications; Copper - for Cryo and heating stage applications; Stainless Steel (18-8) - as a non-corrosive and cleaner alternative for environmental SEMs and FESEMs.

**16180** Aluminum Mini Pin Stub with 9.5mm pin for Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, ETEC and Amray,  
Head 6.6 x 1.3mm . . . . .pkg/100

**16181** Aluminum Mini Pin Stub for ZEISS/LEO with 6.25mm, shorter pin,  
Head 6.6 x 1.3mm . . . . .pkg/100

**16184** Copper Mini Pin Stub with 9.5mm pin for Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, ETEC and Amray,  
Head 6.5 x 1.2mm . . . . .pkg/100

**16185** Copper Mini Pin Stub for ZEISS/LEO with 6.25mm, shorter pin, Head 6.6 x 1.2mm . . . . .pkg/100

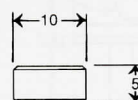
**16188** Stainless Steel Mini Pin Stub with 9.5mm pin for Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, ETEC and Amray,  
Head 6.6 x 1.2mm . . . . .pkg/100

**16189** Stainless Steel Mini Pin Stub for ZEISS/LEO with 6.25mm, shorter pin, Head 6.6 x 1.2mm .pkg/100

## SEM Cylinder Specimen Mounts for JEOL, Hitachi, ISI/ABT/Topcon

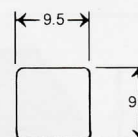
### For JEOL

#### JEOL, Aluminum



**16211** Specimen Mount ø10 x 5mm . . . . .pkg/50 or 100

#### JEOL, also used for ISI/ABT/TOPCON, Aluminum



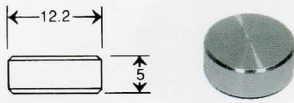
**16221** Specimen Mount, ø9.5 x 9.5mm . . . . .pkg/50, 100 or 500

*continued on next page*

## SEM Cylinder Specimen Mounts

continued

### JEOL, Aluminum



**16237** Specimen Mount  $\phi 12.2 \times 5\text{mm}$  . . . .pkg/50 or 100

### JEOL, Aluminum

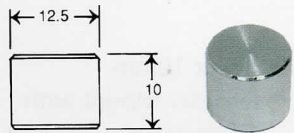


**16231** Specimen Mount  $\phi 12.2 \times 10\text{mm}$  . . .pkg/50 or 100

**Numbered - Note: Must order a minimum of 500**

**16231N** Specimen Mount,  $\phi 12.2 \times 10\text{mm}$ , Numbered, Maximum of 4 numerals between 0000 and 9999. Designate number sequence when ordering . . . . .each

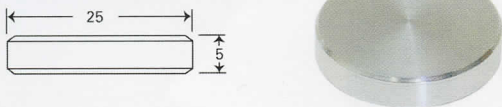
### JEOL, Aluminum



**16232** Specimen Mount  $\phi 12.5 \times 10\text{mm}$  . . .pkg/50 or 100

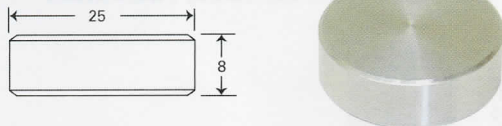
## JEOL Large Specimen and Metallurgical Mounts

### JEOL, Aluminum



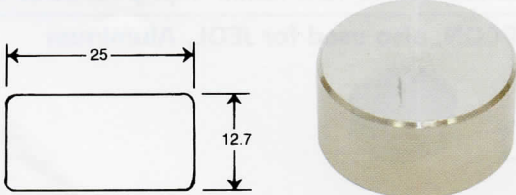
**16150** Specimen Mount,  $\phi 25 \times 5\text{mm}$  . . . . .pkg/10 or 50

### JEOL, Aluminum



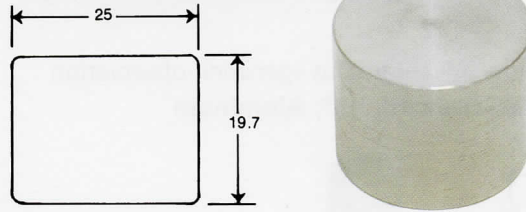
**16151** Specimen Mount,  $\phi 25 \times 8\text{mm}$  . . . . .pkg/10 or 50

### JEOL, Aluminum



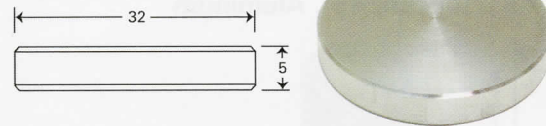
**16152** Specimen Mount,  $\phi 25 \times 12.7\text{mm}$  . . . .pkg/10 or 50

### JEOL, Aluminum



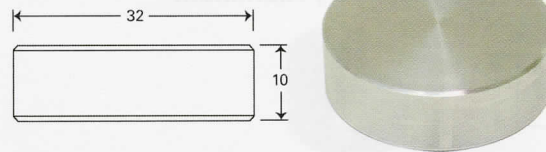
**16156** Specimen Mount,  $\phi 25 \times 19.7\text{mm}$  . . . .pkg/10 or 50

### JEOL, Aluminum



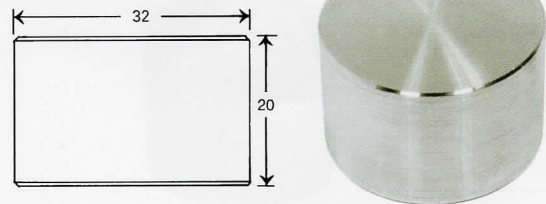
**16217** Specimen Mount,  $\phi 32 \times 5\text{mm}$  . . . . .pkg/10 or 50

### JEOL, Aluminum



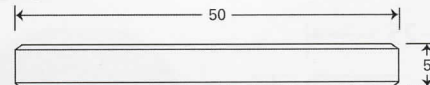
**16216** Specimen Mount  $\phi 32 \times 10\text{mm}$  . . . . .pkg/10 or 50

### JEOL, Aluminum



**16215** Specimen Mount,  $\phi 32 \times 20\text{mm}$  . . . . .pkg/10 or 50

### JEOL, Aluminum



**16222** Specimen Mount  $\phi 50 \times 5\text{mm}$  . . . . .pkg/10

continued on next page



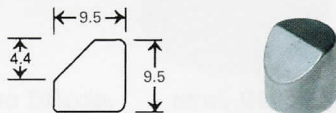
# SEM SUPPLIES

## SEM Cylinder Specimen Mounts

### ■ 30°, 45° 70° SEM Specimen Mounts, Aluminum

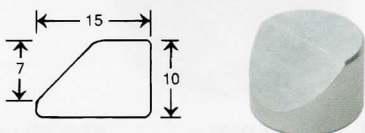
angles cut to allow advantageous specimen observation

#### JEOL and ISI/ABT/Topcon, 45°, Aluminum



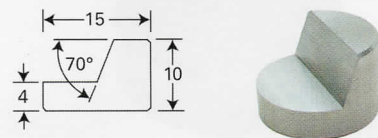
**16105** Specimen Mount, 45°, ø9.5 x 9.5mm pkg/10 or 50

#### JEOL and ISI/ABT/Topcon, 45°, Aluminum



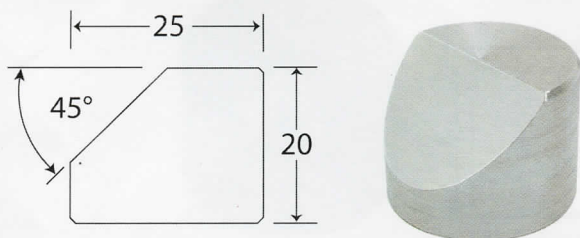
**16108** Specimen Mount, 45°, ø15 x 10mm .pkg/10 or 50

#### JEOL and ISI/ABT/Topcon, 70°, Aluminum



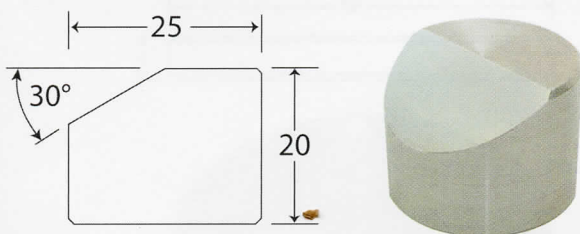
**16370** Specimen Mount, 70°, ø15 x 10mm .pkg/10 or 50

#### JEOL 45°, Aluminum



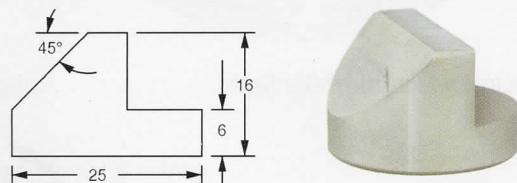
**16157** Specimen Mount, 45°, ø25 x 20mm .pkg/10 or 50

#### JEOL 30°, Aluminum



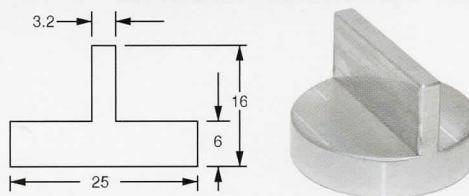
**16158** Specimen Mount, 30°, ø25 x 20mm .pkg/10 or 50

#### JEOL 45/90°, Aluminum



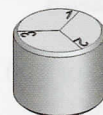
**16359** Specimen Mount, 45/90°, ø25 x 16mm .....each

#### JEOL Double 90°, Aluminum

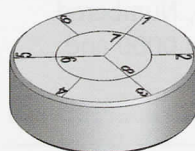


**16358** Specimen Mount, Double 90°, ø25 x 16mm .....each

### ■ SEM Cylinder Mounts with Engraved and Numbered Divisions for JEOL SEMs



**16362** ø12.2 x 10mm Cylinder Mount with 3 divisions .....each or pkg/10



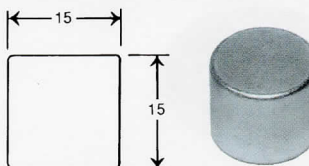
**16366** ø25 x 8mm Cylinder Mount with 9 divisions .each or pkg/10



**16369** ø32 x 10mm Cylinder Mount with 12 divisions .each or pkg/10

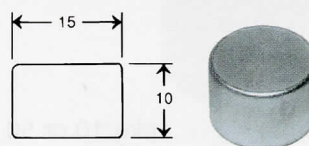
### ■ ISI/ABT/TOPCON, also used for JEOL

#### ISI/ABT/TOPCON, also used for JEOL, Aluminum



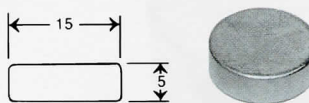
**16281** Specimen Mount, 15 x 15mm .pkg/10, 50 or 100

#### ISI/ABT/TOPCON, also used for JEOL, Aluminum



**16291** Specimen Mount, 15 x 10mm .pkg/10, 50 or 100

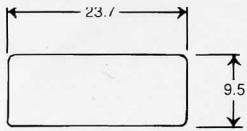
#### ISI/ABT/TOPCON, also used for JEOL, Aluminum



**16300** Specimen Mount, 15 x 5mm .pkg/10, 50 or 100

continued on next page

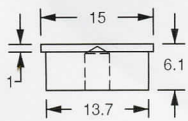
## Large Specimen and Metallurgical Mounts



**16276** Specimen Mount,  $\phi 23.7 \times 9.5\text{mm}$  .....pkg/10, 50 or 100

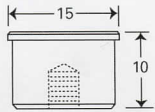
## Specimen Mounts for all Hitachi SEMs with M4 threads

Hitachi, M4, Aluminum



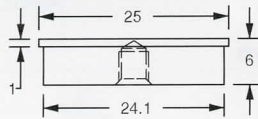
**16324** Specimen Mount, M4,  $\phi 15 \times 6\text{mm}$  .....pkg/10, 50 or 100

Cylinder, M4, Aluminum



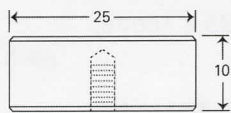
**16322** Specimen Mount, M4,  $\phi 15 \times 10\text{mm}$  .....pkg/10, 50 or 100

Hitachi, M4, Aluminum



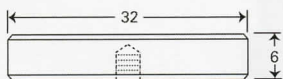
**16327** Specimen Mount, M4,  $\phi 25 \times 6\text{mm}$  .....pkg/10, 50 or 100

Hitachi, M4, Aluminum



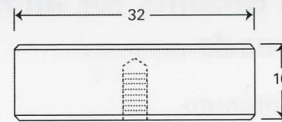
**16323** Specimen Mount, M4,  $\phi 25 \times 10\text{mm}$  .....pkg/10 or 50

Hitachi, M4, Aluminum



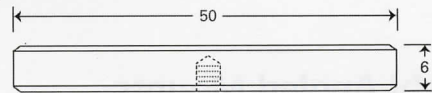
**16325** Specimen Mount, M4,  $\phi 32 \times 6\text{mm}$  .....pkg/10 or 50

Hitachi, M4, Aluminum



**16326** Specimen Mount, M4,  $\phi 32 \times 10\text{mm}$  .....pkg/10 or 50

Hitachi, M4, Aluminum

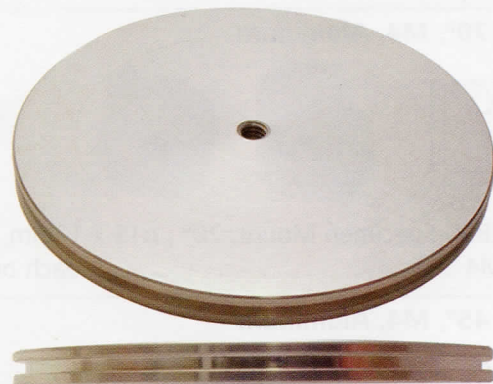


**16328** Specimen Mount, M4,  $\phi 50 \times 6\text{mm}$  . . .pkg/10 or 50

Hitachi, M4, Aluminum

## Flat 63mm Sample Mount

Large flat mounting with 63mm diameter area for large sample or for mounting multiple samples with conductive adhesive. Made of aluminum. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).



**16114-4** Large  $\phi 63\text{mm}$  Sample Mount .....each

*continued on next page*



# SEM SUPPLIES

## Hitachi Mounts; Hitachi Angled Mounts; Hitachi Triple Specimen Mount Holder

### ■ Specimen Mounts for all Hitachi SEMs with M4 threads *continued*

#### Hitachi, M4, Aluminum

##### Flat 100mm Sample Mount

Large flat mounting with 100mm diameter area for large sample or for mounting multiple samples with conductive adhesive. Made of aluminum. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**16116-4** Large  $\varnothing 100\text{mm}$  Sample Mount .....each



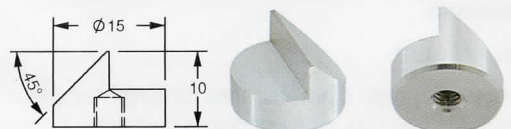
### ■ Hitachi Angled Mounts

#### Hitachi, 45°, M4, Aluminum



**16330** 45° Specimen Mount,  $\varnothing 15 \times 10\text{mm}$ , M4 .....each or pkg/10

#### Hitachi, 45° / 90°, M4, Aluminum



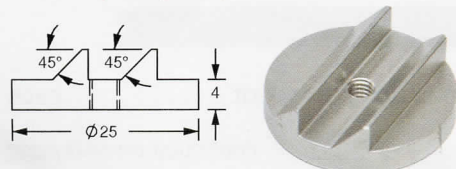
**16334** 45° / 90° Specimen Mount,  $\varnothing 15 \times 10\text{mm}$ , M4 .....each or pkg/10

#### Hitachi, 70°, M4, Aluminum



**16333** EBSD Specimen Mount, 70°,  $\varnothing 15 \times 12\text{mm}$ , M4 .....each or pkg/10

#### Hitachi, 45°, M4, Aluminum



**16331** Double 45° Specimen Mount,  $\varnothing 25 \times 4\text{mm}$ , M4 .....each or pkg/10

#### Hitachi, 45° / 90°, M4, Aluminum



**16357** 45° / 90° Specimen Mount,  $\varnothing 25 \times 16\text{mm}$ , M4 .....each

#### Hitachi, Double 90°, M4, Aluminum



**16356** Double 90° Specimen Mount,  $\varnothing 25 \times 16\text{mm}$ , M4 .....each

### ■ Hitachi, Triple Specimen Mount Holder

#### M4, Aluminum



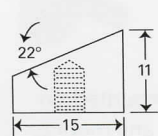
**15433** Triple Specimen Holder  $\varnothing 25 \times 6\text{mm}$  base for 3 standard 15mm Hitachi mounts with M4 thread .....each

## Specimen Mounts for all Hitachi SEMs with M4 threads *continued*

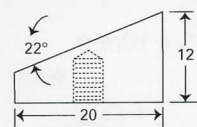
### ■ Specimen Mounts with 22° Angle for Hitachi TM-1000 SEM equipped with an EDS analysis system

The 22° tilt provides better detection and higher signal to noise ratio for x-ray analysis.

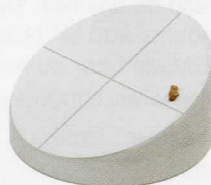
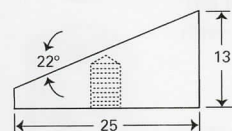
Angled mounts have an orientation cross which allows for precise positioning towards the EDS detector.



**16380** Specimen Mount, 22°, ø15mm each or pkg/10



**16381** Specimen Mount, 22°, ø20mm . . . each or pkg/10



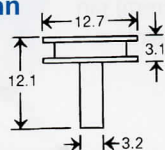
**16382** Specimen Mount, 22°, ø25mm . . . each or pkg/10

### ■ SEM Carbon Specimen Mounts

All our carbon SEM specimen mounts are made from spectrographically pure, the highest purity grade, graphite rods. Total impurity level does not exceed 2ppm and typically less than 1ppm per element. These mounts are ideal for analytical SEM and microprobe work since the only element which can be detected with EDS or WDS systems in their specimen mounts is C. Both electron and X-ray absorption is much higher than compared with the standard type aluminum or brass mounts, so there will be a much lower level of background radiation in X-ray spectra. The mounts also have a lower level of electron scattering, so they are a better choice when background contribution should be low. A cost-efficient alternative are our carbon plachets which can be attached to standard aluminum SEM specimen mounts.

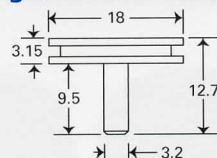
To keep the carbon mounts and samples clean use our SEM storage boxes, see page: 561

Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan



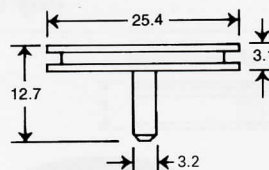
**16710** Carbon Mount ø12.7 x 3.2mm pin, Grooved Head . . . . .pkg/10 or 100

Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan



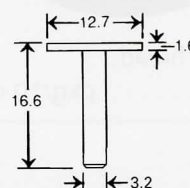
**16744** Carbon Mount ø18mm x 3.2mm pin, Grooved Head . . . . .pkg/10 or 100

Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan



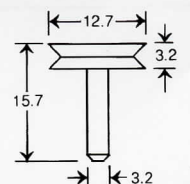
**16711** Carbon Mount, ø25.4 x 3.2mm pin, Grooved head . . . . .pkg/10 or 100

AMRAY 1000, 2000



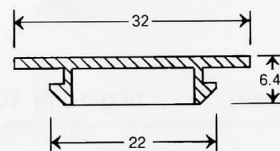
**16730** Carbon Mount ø12.7mm x 3.2mm pin . . . . .pkg/10 or 100

AMRAY, Special Slotted



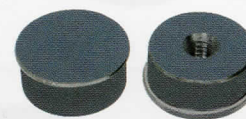
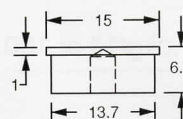
**16741** Carbon Mount ø12.7mm x 3.2mm pin, Slotted Head . . . . .pkg/10 or 100

Cambridge S-4, CamScan



**16750** Carbon Mount ø32mm x 6.47mm H, Cambridge S-4 . . . . .pkg/10 or 100

Hitachi



15mm dia.

**16725** Carbon Mount, Hitachi, M4 Thread, ø15 x 6mm, M4 . . . . .pkg/10 or 100

*continued on next page*



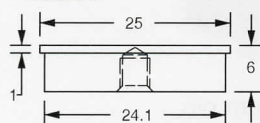
# SEM SUPPLIES

## SEM Carbon Specimen Mounts; SEM Specimen Mount Adapters

### SEM Carbon Specimen Mounts

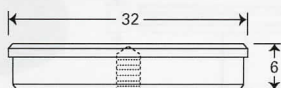
continued

#### Hitachi



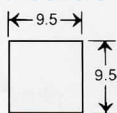
**16727** Carbon Mount, Hitachi, M4 Thread,  
ø25 x 6mm, M4 .....pkg/10 or 100

#### Hitachi



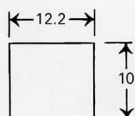
**16728** Carbon Mount, Hitachi, M4 Thread,  
ø32 x 6mm, M4 .....pkg/10 or 100

#### JEOL and others



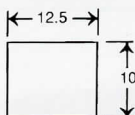
**16720** Carbon Mount ø9.5 x 9.5mm .....pkg/10 or 100

#### JEOL and others



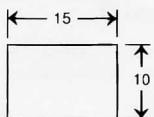
**16733** Carbon Mount ø12.2 x 10mm .....pkg/10 or 100

#### JEOL and others



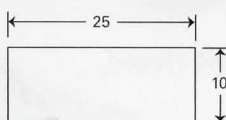
**16734** Carbon Mount ø12.5 x 10mm .....pkg/10 or 100

#### JEOL and others



**16780** Carbon Mount ø15 x 10mm .....pkg/10 or 100

#### JEOL and others



**16782** Carbon Mount ø25x 10mm .....pkg/10 or 100

### SEM Specimen Mount Adapters

This line of SEM specimen mount adapters enables the use of all current style of mounts on all current SEMs. Pin mounts, common on FEI/Philips, Zeiss/LEO, Cambridge instruments, Leica, Amray, Tescan and CamScan, can be used on JEOL, Hitachi and ISI/ABT/Topcon SEMs and vice versa.

#### Pin Mount Adapter to Hitachi M4 or ISI/ABT/Topcon Mounts

Pin mount adapter, ø15 x 10mm H with M4 thread on one side. Enables the use of standard pin mount with 1/8" (3.2mm) pin on Hitachi or ISI/ABT/Topcon SEMs. Made from aluminum with stainless set screw.



Allen wrench included. Note: when the adapter is mounted on the Hitachi stage, 6mm height is left, this will leave any mounts with pins longer than 6mm with the pin mount sticking out of the adapter.

**15363-1** Specimen Pin-Mount Adapter, ø15 x 10mm  
with M4 thread on one side .....each

#### Pin Mount Adapter to Hitachi M4

Pin mount adapter, ø15 x 15mm H and 16 x 25mm H with M4 thread on one side. Enables the use of standard pin mounts with 1/8" (3.2mm) pin on Hitachi M4 thread. Made from aluminum with stainless set screw. Allen wrench included.



**15363-2** Single Pin Mount Holder  
ø15 x 15mm .....each

**15387-2** Single Pin Mount Holder  
ø16 x 25mm .....each

#### Pin Mount Adapter to JEOL ø10mm Cylinder Mount

Pin mount adapter, ø10 x 10mm H for JEOL. Enables the use of standard pin mount with 1/8" (3.2mm) pin on JEOL SEM. Made from aluminum with stainless set screw. Allen wrench included.



**15362** Specimen Pin-Mount Adapter, ø10 x 10mm .....each

#### Pin Mount Adapter to JEOL ø12.2mm Cylinder Mount

Pin mount adapter, ø12.2 x 10mm H for JEOL. Enables the use of standard pin mount with 1/8" (3.2mm) pin on JEOL SEM. Made from aluminum with stainless set screw. Allen wrench included.



**15362-12** Pin Mount adapter to JEOL  
ø12.2mm mount .....each

#### Pin Mount Adapter to JEOL ø15mm Cylinder Mount

Pin mount adapter, ø15 x 10mm H for JEOL. Enables the use of standard pin mount with 1/8" (3.2mm) pin on JEOL SEM. Made from aluminum with stainless set screw. Allen wrench included.



**15362-15** Pin Mount adapter to JEOL  
ø15mm mount .....each

continued on next page



### SEM Specimen Mount Adapters

*continued*

#### Pin Mount Adapter to JEOL ø25mm Cylinder Mount

Pin mount adapter, ø25 x 10mm H for JEOL. Enables the use of standard pin mounts with 1/8" (3.2mm) pin on JEOL SEMs (including JEOL NEOSCOPE). Made from aluminum with stainless set screw. Allen wrench included.

**16153-9** Pin Mount adapter to JEOL ø25mm mount . . . . .each



#### Hitachi M4 Adapter to Pin Mount

Hitachi M4 adapter to standard 1/8" (3.2mm) pin stub. Enables the use of Hitachi mounts and specimen holders with M4 thread on SEMs with pin mount holder (FEI/Philips, Zeiss/LEO, Cambridge Instruments, Leica, Amray, Tescan and CamScan). Suitable for larger specimen holders. Pin length 3/8", table diameter 5/8" (15.9mm). Made from aluminum with stainless steel screw.

**15316** Adapter Pin to M4 Thread . . . . .each



#### Hitachi M4 to Zeiss Pin Mount

Hitachi M4 adapter to standard 1/8" (3.2mm) pin stub. Enables the use of Hitachi mounts and specimen holders with M4 thread on Zeiss/LEO SEMs and SEM/FIB systems. Suitable for larger specimen holders. Pin length 6mm, table diameter 5/8" (15.9mm). Made from aluminum with stainless steel screw.

**15316-9** Short Adapter Pin to M4 Thread . . . . .each



#### Hitachi M4 Adapter to 9.5mm JEOL Cylinder Mount

Hitachi M4 adapter to standard 9.5mm JEOL cylinder mount. Enables the use of Hitachi mounts and PELCO® modular specimen holders with M4 thread on JEOL SEMs. Cylinder mount ø9.5 x 9.5mm. Made from aluminum with stainless steel screw.

**15367-25** M4 Adapter to JEOL 9.5mm mount . . . . .each



#### Hitachi M4 Adapter to 12.2mm JEOL Cylinder Mount

Hitachi M4 adapter to standard 12.2mm JEOL cylinder mount. Enables the use of Hitachi mounts and PELCO® modular specimen holders with M4 thread on JEOL SEMs. Cylinder mount ø12.2 x 10mm. Made from aluminum with stainless steel screw.

**15367-40** M4 Adapter to JEOL 12.2mm mount . . . . .each



#### Hitachi M4 Adapter to 15mm JEOL Cylinder Mount

Hitachi M4 adapter to standard 15mm JEOL cylinder mount. Enables the use of Hitachi mounts and PELCO® modular specimen holders with M4 thread on JEOL SEMs. Cylinder mount ø15 x 10mm. Made from aluminum with stainless steel screw.

**15367-20** M4 Adapter to JEOL 15mm mount . . . . .each



#### Hitachi M4 Adapter to 25mm JEOL Cylinder Mount

Hitachi M4 adapter to standard 25mm JEOL cylinder mount. Enables the use of Hitachi 15 and 25mm mounts with M4 thread on JEOL SEMs (including JEOL NEOSCOPE). Cylinder mount ø25 x 5mm. Made from aluminum with stainless steel screw.

**16150-9** M4 Adapter to JEOL 25mm mount . . . . .each



#### Low Profile Hitachi M4 Adapter to Pin Mount

Low profile pin with standard 1/8" (3.2mm) diameter with 3/8" (9.5mm) length and 4mm M4 thread. Converts any Hitachi M4 type specimen mount into a pin stub style mount (FEI/Philips, Cambridge Instruments, Leica, Amray, Tescan and CamScan). Can also be used to adapt Hitachi specimen holders with M4 thread to pin stub mounts which are used on many SEM platforms. Made from aluminum.

**15319** Low Profile M4 to Pin Mount Adapter . . . . .each



#### Short M4 to Zeiss/LEO Pin Mount Adapter

Low profile pin with standard 1/8" (3.2mm) diameter with 1/4" (6mm) length and 4mm M4 thread. Converts any Hitachi M4 type specimen mount into a Zeiss pin stub style mount. Made from aluminum.

**15319-9** Short M4 Adapter to Pin Mount Adapter Zeiss/LEO . . . . .each



#### Long M4 to Pin Mount Adapter

Long low profile pin with standard 1/8" (3.2mm) diameter with 5/8" (14.75mm) length and 4mm M4 thread. Converts any Hitachi M4 type specimen mount into an Amray pin stub style mount. Made from aluminum.

**15319-2** Long M4 Adapter to Pin Mount Adapter (AMRAY) . . . . .each



#### JEOL or ISI/ABT/Topcon Mounts to Hitachi M4 Mount

Small cylinder mount adapter accommodates JEOL or ISI/ABT/Topcon cylinder mounts up to 15mm diameter. Enables the use of ø9.5 and ø12.2mm JEOL or ø15mm ISI/ABT/Topcon cylinder mounts on Hitachi M4. Made from aluminum with stainless steel screw, Allen wrench included.

**15401** S-4 Mount Adapter to Hitachi M4 . . . . .each



#### JEOL or ISI/ABT/Topcon Mounts to Pin Mount

Small cylinder to pin mount adapter stubs. Enables the use of ø9.5 and ø12.2mm JEOL or ø15mm ISI cylinder mounts on pin mount holder (FEI/Philips, Zeiss/LEO, Cambridge Instruments, Leica, Amray, Tescan and CamScan). Pin length 3/8". Material: machined aluminum with stainless steel Allen screw, Allen wrench included.

**15301** JEOL or ISI Cylinder Mount Adapter to Hitachi . . . . .each



*continued on next page*



# SEM SUPPLIES

## SEM Specimen Mount Adapters; SEM Pin Mount Specimen Holders

### SEM Specimen Mount Adapters

continued

#### S-4 Mount Adapter to Hitachi M4

Adapter that allows the use of S4 sample mounts on standard Hitachi M4 thread. 31mm diameter, 6mm height, aluminum with stainless steel screw. Allen wrench included.



S4 Adapter holding S4 sample mount >

**15317** Adapter, S-4 Mount to M-4 thread . . . . .each

#### S-4 Mount Adapter to Pin Mount



Adapter that allows the use of S4 sample mounts on standard pin mount holder (FEI/Philips, Zeiss/LEO, Cambridge Instruments, Leica, Amray, Tescan and Cam-Scan). Pin length  $\frac{3}{8}$ ", 31mm diameter, 6mm height, aluminum with stainless steel screw. Allen wrench included.

**15313** Adapter, S-4 Mount to Pin Mount . . . . .each

#### High Pin Mount Adapter to Hitachi M4 Mount

Pin mount adapter,  $\phi 16 \times 38$ mm H with M4 thread on one side. Enables the use of standard pin mount with  $\frac{1}{8}$ " (3.2mm) pin on Hitachi SEMs. Increased height for reduced working distance. Made from aluminum with stainless steel screw. Allen wrench included.

**15361** High Pin Mount Adapter to Hitachi M4 . . . . .each



#### Extended Profile Pin Mount Adapter to Hitachi M4 Mount

Pin mount adapter,  $16 \times 55$ mm H with M4 thread on one side. Enables the use of standard pin mount with  $\frac{1}{8}$ " (3.2mm) pin on Hitachi SEMs. Increased height for reduced working distance. Made from aluminum with stainless steel screw. Allen wrench included.

**15364** Extended Pin Mount Adapter to Hitachi M4 . . . . .each



#### High Pin Mount Adapter to ISI/ABT/Topcon mounts

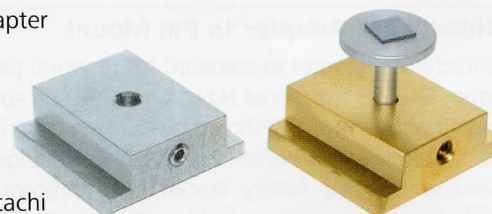
Pin mount adapter,  $15 \times 38$ mmH for ISI/ABT/Topcon. Enables the use of standard  $\frac{1}{8}$ " (3.2mm) pin mounts. Increased height to reduce working distance. Made from aluminum with stainless steel screw. Allen wrench included.

**15360** High Pin Mount Adapter to ISI/ABT/Topcon Mount . . . . .each



#### Pin Mount to Hitachi T-base Stage Adapter

This pin mount adapter enables the use of standard  $\frac{1}{8}$ " (3.2mm) pin mounts directly on a T-base stage



adapter used in Hitachi S-4000, S-4200, S-4300, S-4500, S-4700 and S-3600N SEMs. Available in aluminum and brass with stainless steel set screw. Allen wrench included.

**15309-A** Pin Mount adapter to T-base, aluminum . . .each

**15309-B** Pin Mount adapter to T-base, brass . . . . .each

## SEM Pin Mount Specimen Holders

A large selection of SEM specimen holders for SEM, which are using the standard 3.2mm ( $\frac{1}{8}$ ") pin type mount. Used on FEI/Philips, ZEISS, LEO, Leica, Cambridge Instruments, CamScan and Tescan SEMs

### Cross-Sectional Holder

3.2mm pin ( $\frac{1}{8}$ ") and swivel to allow easy angle changes. Insert specimens edge-on and observe the break directly. Accommodates sample thickness up to 6.35mm ( $\frac{1}{4}$ "). Non-magnetic stainless steel. Overall height is 30mm (1.2") from the pivot point. The clamping part is a 16mm (0.62") cube w/o thumb screws. For Hitachi, see 15325-4, page 511



**15325** Cross-Sectional Holder . . . . .each

### Variable Tilt Specimen Holder

Accommodates pin stubs up to 18mm (0.7"). Pin mount can be locked down with set screw in tilt table – or larger specimens with a maximum size of  $26 \times 20$ mm. Tilts 0 - 90° with 10° markings. Additional markings for 30°, 45°, and 70°. Tilt table size is  $26 \times 20$ mm, overall size is  $33 \times 20 \times 19$ mm H. Material: Aluminum with stainless steel screws. Allen wrench included.



**15450** Variable Tilt Specimen Holder . . . . .each

continued on next page



## SEM Pin Mount Specimen Holders

A large selection of SEM specimen holders for SEM which are using the standard 3.2mm ( $\frac{1}{8}$ ") pin type mount. Used on FEI/Philips, ZEISS, LEO, Leica, Cambridge Instruments, CamScan and Tescan SEMs.



### Multi-Purpose Specimen Mount

*compatible with 3.2mm pin mount holder*

*bulk or irregularly shaped specimens up to 25mm or 1"*

Accepts up to 25mm (1") diameter metallurgical mounts. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Holder size is  $\phi 31.5 \times 11$ mm.

**15305** may be used for bulk specimens (left) or metallurgical mounts (right)

**15305** Multi-Purpose Specimen Mount .....each

### Cylinder Holder, 22mm ( $\frac{7}{8}$ ")

Specimen holder for cylinders up to 22mm ( $\frac{7}{8}$ "), standard pin mount, 3.2mm ( $\frac{1}{8}$ "). Material: Aluminum with stainless steel allen screw. Allen wrench included.



**15302** Specimen Holder for Cylinders up to 22mm ( $\frac{7}{8}$ ") .....each

### Mount Holder for 4 Pin Mounts

Accommodates up to four standard 12.7mm ( $\frac{1}{2}$ ") pin mounts, with 3.2mm ( $\frac{1}{8}$ ") diameter pin. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Holder size is  $\phi 31.8 \times 10.6$ mm.



**15310** Multi Pin Specimen Mount Holder, 4 x 3.2mm .....each

### Mount Holder for 6 Pin Mounts

Accommodates up to six standard 12.7mm ( $\frac{1}{2}$ ") pin mounts with 3.2mm ( $\frac{1}{8}$ ") pin. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Diameter of Holder is 42mm.



**15310-6** Multi Holder for 6 Pin Mounts .....each

### Multi Holder for 8 Pin Mounts



Accommodates up to eight standard 12.7mm ( $\frac{1}{2}$ ") pin mounts with 3.2mm ( $\frac{1}{8}$ ") pin. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Diameter of Holder is 50mm.

**15310-8** Multi Holder for 8 Pin Mounts .....each

### Multi Holder for 12 Pin Mounts



Accommodates up to twelve standard 12.7mm ( $\frac{1}{2}$ ") pin mounts with 3.2mm ( $\frac{1}{8}$ ") pin on numbered positions. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Diameter of Holder is 62mm.

**15310-12** Multi Holder for 12 pin mounts .....each

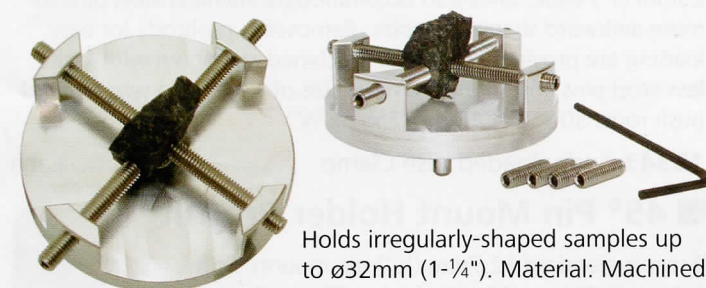
### Multi Unit Specimen Mount



Holds five 9.5mm specimen mounts. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Holder size is  $\phi 31.5 \times 10.7$ mm

**15315** Multi Unit Specimen Mount, 5 x 9.5mm each

### Bulk Specimen Holder



Holds irregularly-shaped samples up to  $\phi 32$ mm (1- $\frac{1}{4}$ "). Material: Machined aluminum with short and long stainless steel allen set screws. Allen wrench included. Holder size is  $\phi 39.3 \times 12.4$ mm

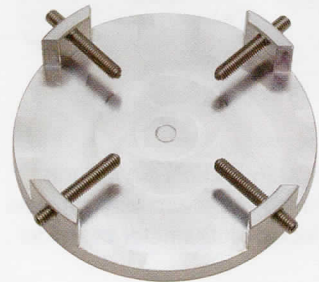
**15308** Bulk Specimen Holder, 39.3mm, pin, aluminum .....each



## SEM Pin Mount Specimen Holders

continued

## ■ Large Round Bulk Specimen Holder



The large bulk specimen holder holds irregular or round specimens up to 51mm (2") diameter. Material: Aluminum with short and long stainless

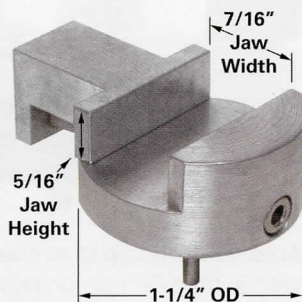
steel allen set screws. Allen wrench included.

**15324** Large Round Bulk Specimen Holder, 58mm, pin, aluminum .....each

## ■ Micro Vise

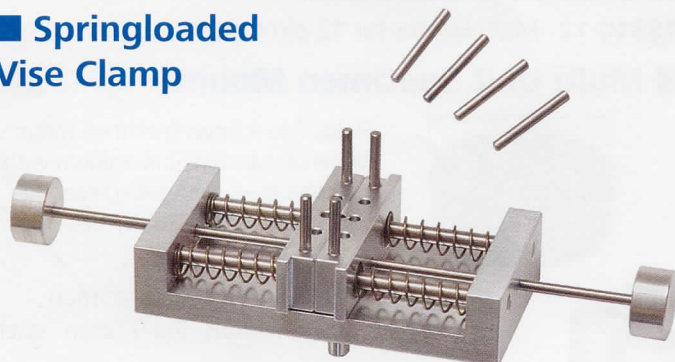
compatible with pin stub holder

A fast and clean way to hold specimens for SEM. The jaws are 25.4mm (1") wide. Maximum gap is 11mm (7/16"). Material: Machined aluminum with stainless steel allen set screw. Allen wrench included.



**15340** Micro Vise, 3.2mm (1/8") pin .....each

## ■ Springloaded Vise Clamp



Springloaded vise clamp for samples up to 26mm. The jaws are 25mm (1") wide. Jaws also accommodate stainless steel pins for more awkward shaped samples. Removable pushrods for easy loading are provided. Material: Machined aluminum with stainless steel pins and springs. Overall size of vise clamp w/o pin and push rods. 50 x 25 x 15mm (2 x 1 x 5/8").

**15343** Springloaded Vise Clamp .....each

## ■ 45° Pin Mount Holder Pre-Tilt

Accepts standard 12.7mm (1/2") pin mounts with 3.2mm (1/8") pin. 45° gives higher SE signal w/o tilting specimen stage. Grooved, Machined aluminum with stainless steel allen set screw. Allen wrench included.



**15329** 45° Pin Mount Holder, 3.2mm (1/8") pin .....each

## ■ 45° Multi Holder for 3 Pin Mounts

Accepts standard 12.7mm (1/2") pin mounts with 3.2mm (1/8") pin. Pre-Tilt 45° gives higher SE signal w/o tilting specimen stage. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Diameter of Holder is 25.4mm (1")



**15329-3** 45° Multi Holder for 3 pin mounts, 3.2mm (1/8") pin .....each

## ■ 45° Multi Holder for 6 Pin Stubs

Accepts standard 12.7mm (1/2") pin stubs with 3.2mm (1/8") pin. Pre-Tilt 45° gives higher SE signal w/o tilting specimen stage. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Diameter of Holder is 35mm (1-3/8")



**15329-7** 45° Multi Holder for 6 pin stubs, 3.2mm (1/8") pin .....each

## ■ 70° EBSD Pre-Tilt Pin Mount Holder

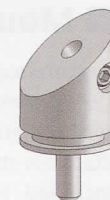
Accepts standard 12.7mm (1/2") pin mounts with 3.2mm (1/8") pin. 70° EBSD Pre-Tilt Holder w/o tilting specimen stage. Grooved, machined aluminum with stainless steel allen set screw. Allen wrench included.



**15329-70** 70° EBSD Pre-Tilt Pin Mount Holder, 3.2mm (1/8") pin .....each

## ■ 38° Pin Stub Holder FEI FIB Pre-Tilt

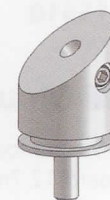
Accepts standard 12.7mm (1/2") pin mounts with 3.2mm (1/8") pin. 38° Pre-Tilt for FEI DualBeam™ Systems. Grooved, machined aluminum with stainless steel allen set screw. Allen wrench included.



**15329-38** 38° Pin Mount Holder FEI FIB Pre-Tilt, 3.2mm (1/8") pin .....each

## ■ 36° Pin Stub Holder ZEISS/LEO FIB Pre-Tilt

Accepts standard 12.7mm (1/2") pin mounts with 3.2mm (1/8") pin. 36° Pre-Tilt for ZEISS/LEO, CrossBeam™ & other FIB Systems. Grooved, machined aluminum with stainless steel allen set screw. Allen wrench included.



**15329-36** 36° Pin Mount Holder ZEISS/LEO FIB Pre-Tilt, 3.2mm (1/8") pin .....each

continued on next page



## SEM Pin Mount Specimen Holders

*continued*

### ■ Thin Specimen Split Mount on Pin Mount

12.7mm (1/2") dia., 3.2mm (1/8") dia. pin  
pin length 0.314" (8mm), 7.6mm thickness

For examination of thin samples from textiles, plants, paper, plastics, metals, etc., in cross section. Special wide opening up to 6.4mm (1/4"). Grooved head. Material: Machined aluminum with stainless steel allen set screw. Allen wrench included.

**15330** Thin Specimen Split Mount, 8mm L pin . . . . .each

### ■ Thin Specimen Split Mount (AMRAY), Pin Mount

12.7mm (1/2") dia., 3.2mm (1/8") dia. pin  
pin length 14.3mm (9/16")

Opens to 6.4mm (1/4"). Material: Machined aluminum with stainless steel allen set screw. Allen wrench included.

**15331** Thin Specimen Split Mount, AMRAY . . . . .each

### ■ Set Screw Vise

Single stainless steel set screw into an open slot that is 4mm (0.157") wide x 5mm (0.197") deep. 12.7mm (1/2") dia. x 17.7mm (0.70") high; pin length 9.5mm. Material: Machined aluminum with stainless steel allen set screw. 3.2mm (1/8") dia. pin. Allen wrench included.

**16350** Set Screw Vise, 12.7mm . . . . .each

### ■ Double Slotted Mini Vise

Double Slotted set screw vise with 1mm wide by 5mm deep slots, pin 3.2mm (1/8"). Clamp thin specimens and cross sections without the need for tape or conductive paint. Material: Machined aluminum with 2 stainless steel allen set screws. Allen wrench included.

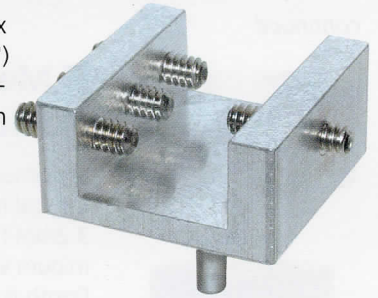
**16340** Double Slotted Set Screw Vise, ø12.7mm . . . . .each



### ■ PELCO® Bulk Specimen Mount Holder

Opening is 15.9mm (5/8") wide x 25.4mm (1") long x 8.7mm (3/8") deep. 3.2mm (1/8") dia. pin. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included.

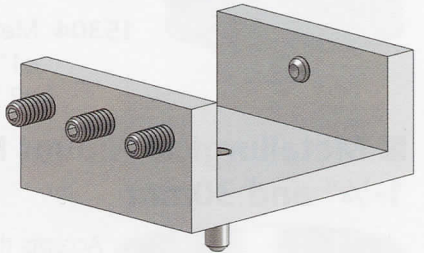
**15320** PELCO® SEM Bulk Specimen Holder . . . . .each



### ■ PELCO® Large Bulk Specimen Holder

Opening is 32mm (1-1/4") wide x 32mm (1-1/4") long x 13mm (1/2") deep. 3.2mm (1/8") dia. pin. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included.

**15321** PELCO® Large Bulk Specimen Holder . . . . .each



### ■ PELCO® X-Large Bulk Specimen Holder

*for up to 2" specimens*

Opening is 52mm (2") wide x 40mm (1-1/2") long x 13mm (1/2") deep. 3.2mm (1/8") dia. pin. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included.

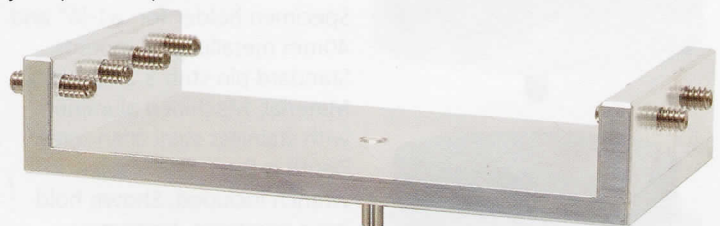
**15322** PELCO® X-Large Bulk Specimen Holder . . . . .each



**15322** PELCO® X-Large Bulk Specimen Holder . . . . .each

### ■ PELCO® XX-Large Bulk Specimen Holder

*for up to 3" specimens*



Opening is 80mm (3-1/8") wide x 48mm (1-7/8") long x 13mm (1/2") deep. 3.2mm (1/8") dia. pin. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included.

**15323** PELCO® XX-Large Bulk Specimen Holder . . . . .each

*continued on next page*



## SEM Pin-Mount Specimen Holders

continued



### Metallurgical Mount Holder, 1" and 25mm

Specimen holder for 25mm (1") metallurgical mounts. Standard pin stub 3.2mm ( $\frac{1}{8}$ "). Material: Machined aluminum with stainless steel allen screw. Depth is 8mm ( $\frac{5}{16}$ "). Allen wrench included. Shown holding a specimen, bottom.

**15304** Metallurgical Mount Holder,  $\phi 1"$  and 25mm  
 $\phi 3.2\text{mm}$  ( $\frac{1}{8}"$ ) pin . . . each

### Metallurgical Mount Holder, 1- $\frac{1}{4}"$ and 30mm



Accepts the standard  $\phi 1\text{-}\frac{1}{4}"$  and 30mm metallurgical specimen mount; 3.2mm ( $\frac{1}{8}"$ ) pin. Depth = 8mm ( $\frac{5}{16}"$ ). Material: Machined aluminum with stainless steel allen set screw. Depth is 8mm ( $\frac{5}{16}"$ ). Allen wrench included. Shown holding a specimen, bottom.

**15307** Metallurgical Mount Holder,  $\phi 1\text{-}\frac{1}{4}"$  and 30mm,  
 $\phi 3.2\text{mm}$  ( $\frac{1}{8}"$ ) pin . . . each

### Metallurgical Mount Holder, 1- $\frac{1}{2}"$ and 40mm



Specimen holder for  $\phi 1\text{-}\frac{1}{2}"$  and 40mm metallurgical mounts. Standard pin stub 3.2mm ( $\frac{1}{8}"$ ). Material: Machined aluminum with stainless steel allen screw. Depth is 8mm ( $\frac{5}{16}"$ ). Allen wrench included. Shown holding a specimen, bottom.

**15306** Metallurgical Mount Holder,  $\phi 1\text{-}\frac{1}{2}"$  and 40mm,  $\phi 3.2\text{mm}$  ( $\frac{1}{8}"$ ) pin . . . each

### Metallurgical Mount Holder, 2" and 50mm



Specimen holder for  $\phi 2"$  and 50mm metallurgical mounts. Standard pin stub 3.2mm ( $\frac{1}{8}"$ ). Material: Machined aluminum

with stainless steel allen set screw. Depth is 8mm ( $\frac{5}{16}"$ ) Allen wrench included.

**15298** Metallurgical Mount Holder,  $\phi 2"$  and 50mm,  
 $\phi 3.2\text{mm}$  ( $\frac{1}{8}"$ ) pin . . . each

### PELCO SEMClamp™ Holders

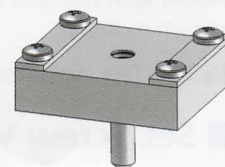
Standard pin stub  $\phi 3.2\text{mm}$  ( $\frac{1}{8}"$ ). Convenient holder for clamping down samples up to 7mm overall thickness can be clamped under the strips. Ideal for wires, small tubes, strips, and smaller flat samples.

#### Small PELCO SEMClamp™ 15 x 10mm

SEMClamp™ 15mm (0.6") long with 10mm (0.4") wide clamping area.

Overall dimensions: 23 x 20 x 9mm (0.9 x 0.8 x 0.35")

Material: Machined aluminum with brass screws.



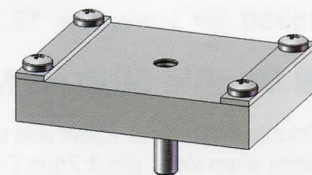
**15347** Small PELCO SEMClamp™ 15 x 10mm,  
 $\phi 3.2\text{mm}$  ( $\frac{1}{8}"$ ) pin . . . each

#### Medium PELCO SEMClamp™ 25 x 15mm

SEMClamp™ 25mm (1") long with 15mm (0.6") wide clamping area.

Overall dimensions: 33 x 25 x 9mm (1.25 x 0.8 x 0.35")

Material: Machined aluminum with brass screws.



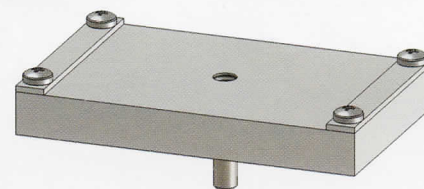
**15348** Medium PELCO SEMClamp™ 25 x 15mm,  
 $\phi 3.2\text{mm}$  ( $\frac{1}{8}"$ ) pin . . . each

#### Large PELCO SEMClamp™ 40 x 20mm

SEMClamp™ 40mm (1.6") long with 20mm (0.8") wide clamping area. Standard pin stub 3.2mm ( $\frac{1}{8}"$ ).

Overall dimensions: 48 x 30 x 9mm (1.9 x 1.2 x 0.35")

Material: Machined aluminum with brass screws.



**15348** Large PELCO SEMClamp™ 40 x 20mm,  
 $\phi 3.2\text{mm}$  ( $\frac{1}{8}"$ ) pin . . . each

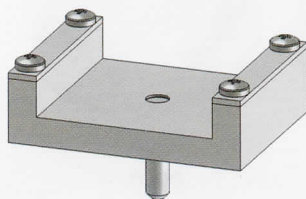


**PELCO SEMClamp™ Holders** *continued***■ Recessed PELCO SEMClamp™  
15 x 10mm**

5mm recess allows for background-free imaging.

Overall dimensions 23 x 20 x 12mm (0.9 x 0.8 x 0.48")

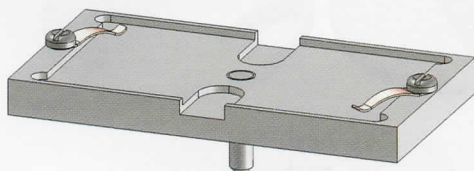
Material: machined aluminum with brass screws.



**15346** Recessed PELCO SEMClamp™ 15 x 10mm . . . .each

**■ Geological Thin Section Holder**

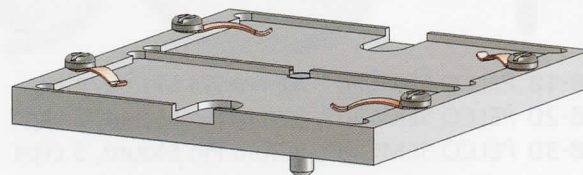
Holds a standard geological thin section or slide of 47 x 27mm. 2 clips are provided for secure holding. Tweezer inserts



*continued*

enable easy loading. Overall dimensions are 55 x 30 x 8mm. Pin length is 9.5mm. Material: aluminum with copper clips and brass screws.

**15431** Geological Thin Section Holder . . . . .each

**■ Dual Geological Thin Section Holder**

Holds two standard geological thin sections or slides of 47 x 27mm. Tweezer inserts enable easy loading. Clips are provided for secure holding. Overall dimensions are 55 x 58 x 8mm. Pin length is 9.5mm. Material: aluminum with copper clips and brass screws.

**15432** Dual Geological Thin Section Holder . . . . .each

**PELCO SEMClip™ Specimen Mounts**

The PELCO SEMClip™ SEM specimen mounts have been specifically designed to provide an easy, quick and clean way to mount any type of thin specimen on a specimen stub. The spring loaded clips can accommodate samples with a thickness up to 2mm. The PELCO SEMClip™ mounts are available with 1, 2 and 3 clips and are ideal to hold silicon chips, paper, wire, threads, thin films, sheet metal, etc. The PELCO SEMClip™ mounts with multiple clips can be used to either hold larger samples or multiple smaller samples. The PELCO SEMClip™ mounts are also ideal to hold the silicon chip specimen support mounts (16007 and 16008).

Pin stub versions of PELCO SEMClip™ are available in diameters from 18 to 50mm and can be used with all SEMs using pin stubs: FEI/Philips, ZEISS/LEO, Cambridge, Leica, Amray, CamScan and Tescan.

The cylinder mount versions for JEOL SEMs are available in 25 and 32mm diameter. The PELCO SEMClip™ cylinder mount for Hitachi SEMs (with M4 thread) are available in 15, 25 and 32mm.

**■ PELCO SEMClip™ Pin Mounts for FEI/Philips, ZEISS/LEO, Cambridge, Leica, Amray, CamScan and Tescan SEMs**

**16119-10** PELCO SEMClip™, ø18mm Pin Mount, 1 clip . . . . .each



**16144-10** PELCO SEMClip™, 25mm Pin Mount, 1 clip . . . . .each

**16144-20** PELCO SEMClip™, 25mm Pin Mount, 2 clips . . . . .each

**16144-30** PELCO SEMClip™, 25mm Pin Mount, 3 clips . . . . .each

*continued on next page*



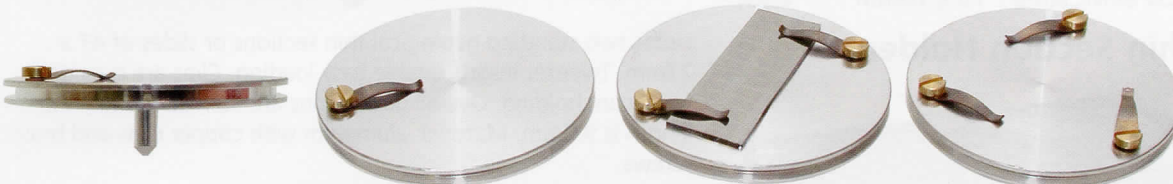
**■ PELCO SEMClip™ Pin Mounts for FEI/Philips, ZEISS/LEO, Cambridge, Leica, Amray, CamScan and Tescan SEMs** *continued*



**16148-10** PELCO SEMClip™, 32mm Pin Mount, 1 clip . . . . .each

**16148-20** PELCO SEMClip™, 32mm Pin Mount, 2 clips . . . . .each

**16148-30** PELCO SEMClip™, 32mm Pin Mount, 3 clips . . . . .each



**16112-10** PELCO SEMClip™, 38mm Pin Mount, 1 clip . . . . .each

**16112-20** PELCO SEMClip™, 38mm Pin Mount, 2 clips . . . . .each

**16112-30** PELCO SEMClip™, 38mm Pin Mount, 3 clips . . . . .each



**16113-10** PELCO SEMClip™, 50mm Pin Mount, 1 clip . . . . .each

**16113-20** PELCO SEMClip™, 50mm Pin Mount, 2 clips . . . . .each

**16113-30** PELCO SEMClip™, 50mm Pin Mount, 3 clips . . . . .each



**16143** PELCO SEMClip™,  
12.5mm 90°, 1 clip . . . . .each



**16354-20** PELCO SEMClip™,  
25mm Double 90°,  
2 clips . . . . .each

**■ PELCO SEMClip™ Cylinder Mounts for JEOL SEMs**



**16291-10** PELCO SEMClip™, 15 x 10mm Cylinder Mount, 1 clip . . . each

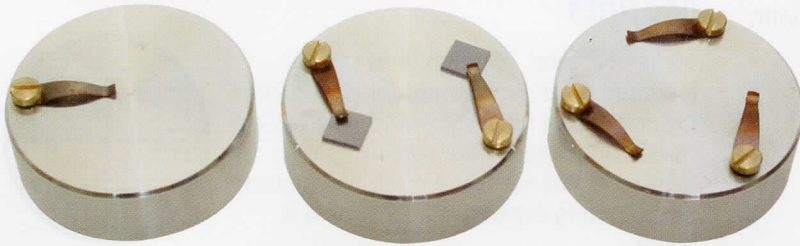


**16151-10** PELCO SEMClip™, 25 x 6mm Cylinder Mount,  
1 clip . . . . .each

**16151-20** PELCO SEMClip™, 25 x 6mm Cylinder Mount,  
2 clips . . . . .each

**16151-30** PELCO SEMClip™, 25 x 6mm Cylinder Mount,  
3 clips . . . . .each

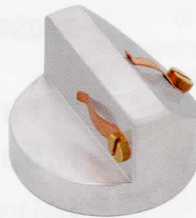
**■ PELCO SEMClip™ Cylinder Mounts for JEOL SEMs** *continued*



- 16216-10** PELCO SEMClip™, 32 x 6mm Cylinder Mount, 1 clip . . . . .each  
**16216-20** PELCO SEMClip™, 32 x 6mm Cylinder Mount, 2 clips . . . . .each  
**16216-30** PELCO SEMClip™, 32 x 6mm Cylinder Mount, 3 clips . . . . .each



- 16157-10** PELCO SEMClip™, 25 x 10mm Cylinder Mount, 45°, 1 clip . . .each



- 16359-20** PELCO SEMClip™, 25 x 16mm Cylinder Mount, 45/90°, 2clips . . . . .each



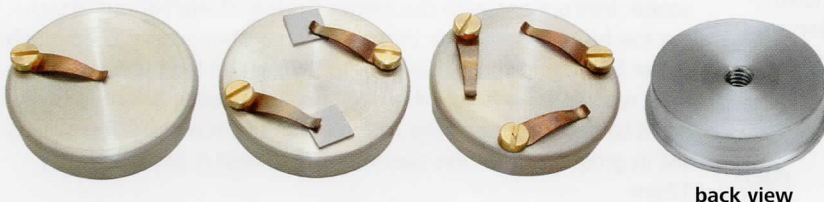
- 16358-20** PELCO SEMClip™, 25 x 16mm Cylinder Mount, 45/90°, 2 clips . . . . .each

**■ PELCO SEMClip™ Cylinder Mounts for Hitachi SEM's**



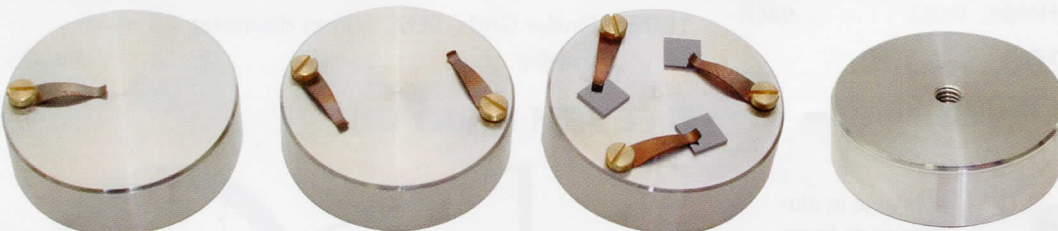
- 16324-10** PELCO SEMClip™, 15 x 6mm, M4, Cylinder Mount, 1 clip . . . . .each

back view



back view

- 16327-10** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 1 clip . . . . .each  
**16327-20** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 2 clips . . . . .each  
**16327-30** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 3 clips . . . . .each



back view

- 16326-10** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 1 clip . . . . .each  
**16326-20** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 2 clips . . . . .each  
**16326-30** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 3 clips . . . . .each

**■ PELCO SEMClip™ Replacement Clips and Screws**



- 16356-20** PELCO SEMClip™, 25 x 16mm x M4 Cylinder Mount, Double 90°, 2 clips . . . . .each

- 16357-20** PELCO SEMClip™, 25 x 16mm x M4 Cylinder Mount, Double 45/90°, 2 clips . . . . .each



- 16399** PELCO SEMClip™ Clips .pkg/10  
**16399-10** PELCO SEMClip™ Screws Brass, M2 x 3 . . . . .pkg/10



# SEM SUPPLIES

## Hitachi T-base Specimen Holders; Finder Grids for SEM Mounts

### Hitachi T-base Specimen Holders

Selection of specimen holders which are directly compatible with the Hitachi T-base style used on the Hitachi S-4000, S-4200, S-4300, S-4500, S-4700 and S-3600N SEMs.

#### ■ Hitachi S-4000, S-4200, S-4300, S-4500, S-4700 and S-3600N SEMs PELCO® Adjustable Profile Holder



Adjust to the exact angle desired and lock into position. Specimen thickness up to 3.2mm, (1/8"). Material: Machined aluminum with brass and stainless steel allen set screws. Allen wrench included.

**15356** PELCO® Adjustable Profile holder .....each

#### ■ Hitachi S-4000, S-4200, S-4300, S-4500, S-4700 and S-3600N SEMs 45° Pin Mount and 90° Profile, Combination Holder

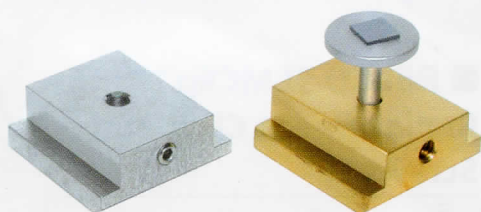


Cross sections up to 6.35mm (1/4") can be used. Available in aluminum or brass with stainless steel allen set screws. Allen wrench included.

**15358-A** 45°/90° Combination Holder, Aluminum ...each

**15358-B** 45°/90° Combination Holder, Brass .....each

#### ■ Hitachi S-4000, S-4200, S-4300, S-4500, S-4700 and S-3600N SEMs 90° Pin Mount Holder



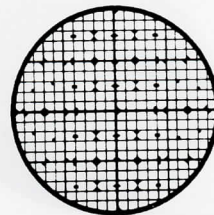
Available in aluminum or brass with stainless steel allen set screw. Allen wrench included.

**15309-A** 90° Pin Mount Holder, Aluminum .....each

**15309-B** 90° Pin Mount Holder, Brass .....each

### ■ Finder Grids For SEM Specimen Mounts

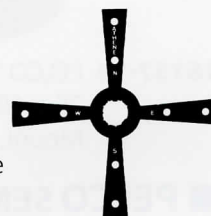
10mm diameter, 75 mesh grids can be mounted on an SEM mount for help in identifying areas of interest in which analysis are carried out. Valuable for particle analysis (pollen, for example) and environmental particle counting experiments. Thickness is 20µm.



**79050** Finder Grids, SEM, 10mm diameter, 75 mesh, Copper .....vial/25

### ■ Finder Grids For SEM Specimen Mounts

SEM specimens may be relatively large and the area to be selected for viewing small in comparison.

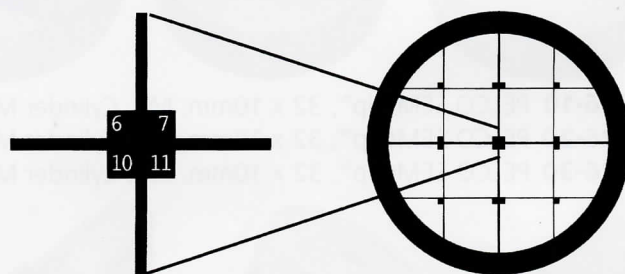


A central annulus surrounds the required area, with a small pointer for orientation. The long arms are tapered to show the direction in which to move and are identified by N, S, E, W. Two small markers of 500µm and 300µm lengths are incorporated in the central ring. The inner ring is 2mm inside diameter and 4mm outside diameter. It is 16mm across the legs.

The SEM Finder Grid is placed in position using a light microscope. Instructions with the Finder Grids indicate various attaching methods. Finding the prescribed area of interest will be much easier by finding the metal grid, following the leg taper and finally reaching the hole, where an arrow has been oriented to point to the specimen. The rough magnification indicators will assist in gross sizing of the specimen. Thickness is approximately 12µm.

**16060** Finder Grids, SEM, 10mm diameter, 75 mesh, Copper .....vial/25

### ■ FE SEM Finder Grid



Particularly useful for larger particles or fibers which can be directly placed in the individual squares.

**79052C** FE SEM Finder Grid, Cu, ø12mm .....each



### PELCO® SEM Specimen Holders, the Modular Concept

The PELCO® Modular SEM Specimen Holder system offers the most comprehensive and cost effective range of specimen holders available today with full interchangeability between SEM models or brand. If you are using different models of SEM in one location or your new SEM comes from a different manufacturer, you can continue to use the PELCO® Modular SEM Specimen Holders by adding just the appropriate SEM stage adapter. The PELCO® SEM specimen holders offer capabilities not available from SEM manufacturers or specimen holders supplied with the SEM. New specimen holders are added on a regular base.

Features of the PELCO® Modular SEM Specimen Holder system:

- Full interchangeability between SEM platforms
- Stage adapters for all SEM brands:  
Hitachi; FEI / Philips; JEOL; ZEISS / LEO; Tescan; Amray;  
ISI / ABT / Topcon; CamScan; LEICA / Cambridge  
instruments
- Built-in grounding contacts
- Easy specimen load / unload
- Low profile versions compatible with airlocks
- Single and multiple specimen holders
- Mix, match and upgrade to meet your needs
- All PELCO® Modular SEM Specimen Holders have an M4 threaded connection and are compatible with any Hitachi SEM with an M4 thread stage adapter

### PELCO® Modular SEM Specimen Holder Concept Explained

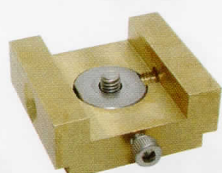
The PELCO® Modular SEM Specimen Holders consists of a selection of stage adapters for most commercially available SEMs, an extensive range of interchangeable SEM Specimen Holders and adapter buttons for some of the SEM stage adapters.

All Stage Adapters use either an M4 screw (supplied) or M4 thread to attach the SEM specimen holders. All SEM specimen holders have M4 thread in the bottom of the holders. The PELCO® Modular SEM Specimen Holders will fit directly on the Hitachi style stage with M4 thread.

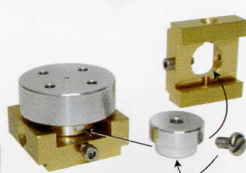
Only the Dovetail style Stage Adapters for JEOL and ZEISS/LEO need either a Short Button or an Extended Button to attach the PELCO® Modular SEM Specimen Holder to the Stage Adapter.



15372 Short Button shown separate and attached to specimen holder (top)



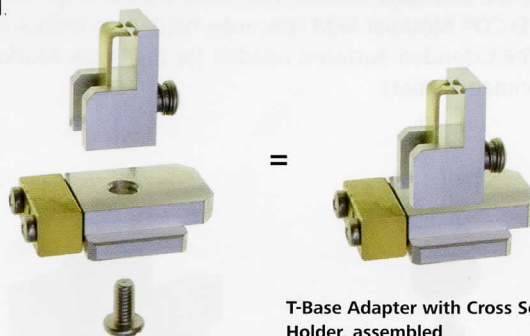
How Short Button 15372 fits into Dovetail Stage Adapter (15371 or 15392)



Extended Button 15372-10 with M4 Screw, used in Dovetail Stage Adapter (15371 or 15392) with Pin Mount Specimen Holder.

Below are given examples how to connect the Stage Adapters to the PELCO® Modular SEM specimen holders.

**Hitachi T-Base Stage adapter 15370** uses an M4 screw to attach the Modular SEM specimen holders. No additional adapter is needed.



T-Base Adapter 15370 with M4 Screw and 15378-2 Cross Section Holder, 90 degrees

T-Base Adapter with Cross Section Holder, assembled

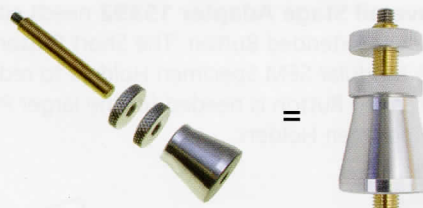
**New style Hitachi T-base stage adapter 15370-1** uses an M4 screw to attach the Modular SEM specimen holders. No additional adapter is needed.



New Style T-Base Adapter 15370-1 with M4 Screw and 15375 Single Flat Sample Clip Holder.

New Style T-Base Adapter with M4 Screw Single Flat Sample Clip Holder, assembled.

**FEI/Philips stage adapters 15368 and 15368-2** have an M4 thread and fit directly into any of the PELCO® Modular SEM specimen holders. No additional adapters needed.



Modular Stage Adapter 15368 shown disassembled. Base, Pillar and Locking Nuts may also be ordered separately.

Modular Stage Adapter 15368 shown assembled.



Modular Stage Adapter 15368 shown with SEM Specimen Holders Attached.

*continued on next page*

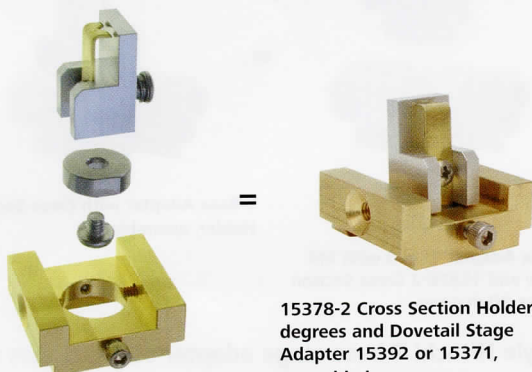


# SEM SUPPLIES

## SEM Specimen Holders, the Modular Concept

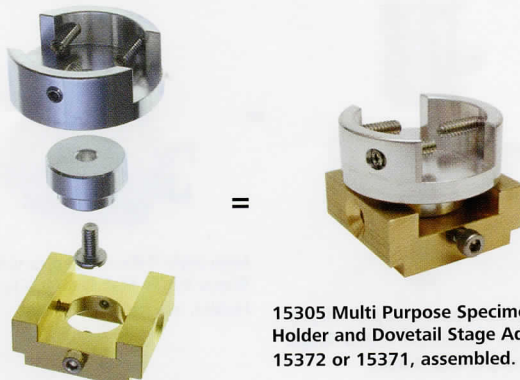
### PELCO® Modular SEM Specimen Holder Concept Explained *continued*

**JEOL Dovetail Stage Adapter 15371** needs either the Short Button or the Extended Button. The Short Button is for the smaller PELCO® Modular SEM specimen holders to reduce the height. The Extended Button is needed for the larger Modular SEM Specimen Holders



Short Button 15372 with M4 Screw used to attach 15378-2 Cross Section Holder, 90 degrees to Dovetail Stage Adapter 15392 or 15371

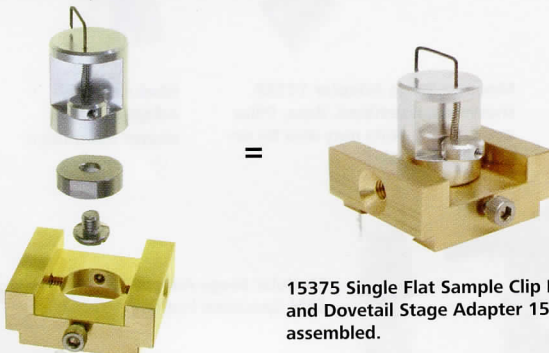
15378-2 Cross Section Holder, 90 degrees and Dovetail Stage Adapter 15392 or 15371, assembled.



Extended Button 15372-10 with M4 Screw used to attach 15305 Multi Purpose Specimen Holder to Dovetail Stage Adapter 15372 or 15371

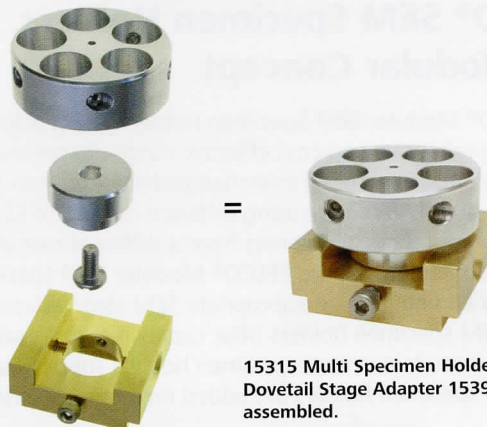
15305 Multi Purpose Specimen Holder and Dovetail Stage Adapter 15372 or 15371, assembled.

**ZEISS/LEO Dovetail Stage Adapter 15392** needs either the Short Button or the Extended Button. The Short Button is for the smaller PELCO® Modular SEM Specimen Holders to reduce the height. The Extended Button is needed for the larger PELCO® Modular SEM Specimen Holders.



Short Button 15372 with M4 Screw used to attach 15375 Single Flat Sample Clip Holder to Dovetail Stage Adapter 15392.

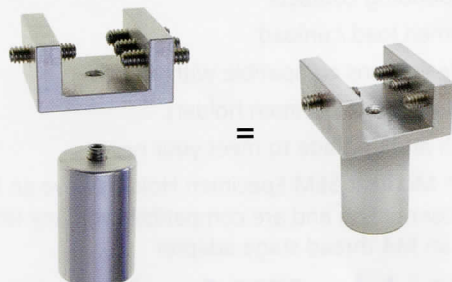
15375 Single Flat Sample Clip Holder and Dovetail Stage Adapter 15392, assembled.



15315 Multi Specimen Holder and Dovetail Stage Adapter 15392, assembled.

Extended Button 15372-10 with M4 Screw used to attach 15315 Multi Specimen Holder to Dovetail Stage Adapter 15392.

**Stage Adapters: AMRAY 15367-10; ISI/ABT/Topcon 15367-20; CamScan or Tescan 15367-30; and the Pin Stub Adapter 15319** all have M4 thread and fit directly in any of the PELCO® Modular SEM Specimen Holders.

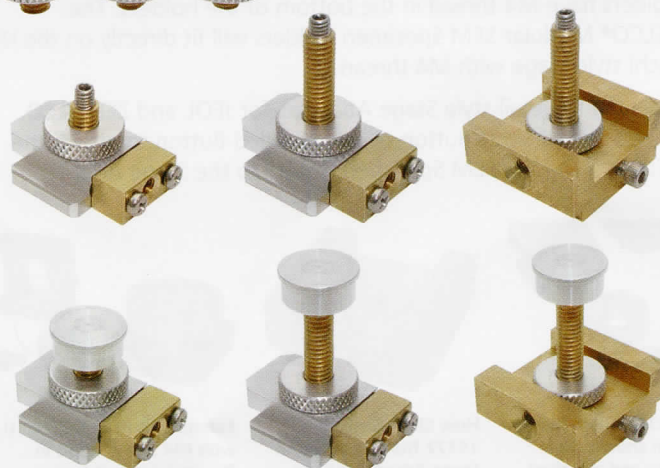


**The Stub Extensions: Short 15373-2, Medium 15365-2 and Long 15374-2** can be used to extend the height of an SEM specimen mount or an SEM specimen holder on the T-Base or the Dovetail-type Stage Adapters only. The locking nut ensures additional stability.



Stub Extensions: Short 15372-2, Medium 15365-2 and Long 15374-2

Examples show below shown top row without mounts and bottom row with mounts attached.



Short Stub Extension 15373-2 with T-Base 15373

Medium Stub Extension 15365-2 with T-Base 15373

Long Stub Extension with Adapter Button 15372 and Dovetail Stage Adapter (15371 or 15392)



## PELCO® SEM Modular Stage Adapters

### ■ T-Base Adapter for Hitachi S-4000, S-4200, S-4300, S-4500, S-4700 and S-3600N SEMs



Specimen exchange T-base adapter incorporates an aluminum body and self-aligning double sided brass thread block to facilitate smooth insertion on the SEM stage and to prevent binding. Can be used with any of the PELCO® Modular SEM Specimen Holders. Includes M4 screw.

SEM Specimen Holders. Includes M4 screw.

**15370** T-Base Adapter for Hitachi, each . . . . .each

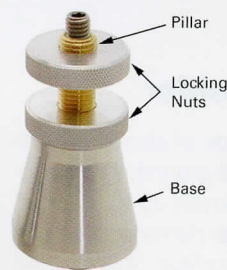
### ■ New Style T-Base Adapter for Hitachi S-4800, SU-70 and SU-6600 FESEMs



Made of vacuum-grade aluminum with counterpart for airlock manipulator and locking rod. Can be used with any of the PELCO® Modular SEM specimen holders. Includes M4 screw.

**15370-1** New Style Modular T-Base Adapter for Hitachi S-4800 and SU70 . . . . .each

### ■ Stage Adapter for FEI / Philips SEM / FESEM and DualBeam™ Systems



15368

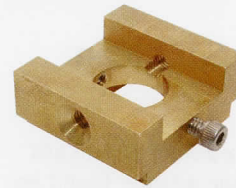


15368-2

Made of brass pillar and aluminum base and locking nuts. This particular material choice prevents "binding" of parts in the SEM stage. Available in standard version with standard pillar, base and two locking nuts and short version with short pillar and two locking nuts. Pillar with M6-fine thread and M4 thread on top. Can be used with any of the PELCO® Modular SEM Specimen Holders.

- 15368** Standard Modular Stage Adapter for FEI/Philips (40mm H) (Standard Pillar, Base and two Locking Nuts) . . . . .each
- 15368-2** Short Modular Stage Adapter for FEI/Philips (20mm H) (Short Pillar and two Locking Nuts) . . . . .each
- 15368-10** FEI/Philips Stage Adapter Base only . . . . .each
- 15368-20** FEI/Philips Standard Stage Adapter Pillar only, 40mm . . . . .each
- 15368-25** FEI/Philips Short Stage Adapter Pillar only, 20mm . . . . .each
- 15368-30** FEI/Philips Stage Adapter Locking Nut only . . . . .each

## ■ Dovetail Stage Adapter for JEOL SEM



Solid brass Dovetail Stage Adapter can be used on many JEOL SEMs and is compatible with the airlock used on JEOL SEMs. The 14mm hole in the center is compatible with other JEOL holders. Two Button style adapters are available to connect the PELCO® Modular SEM Specimen Holders.

The Short Button (15372) is used for the smaller specimen holders only, whereas the Extended Button (15372-10) can be used with all PELCO® Modular SEM Specimen Holders.

**15371** Dovetail Stage Adapter for JEOL, each . . . . .each

## ■ Cylinder Adapter for JEOL Holders



Made of aluminum in 3 sizes, ø9.5 x 10mm, ø12.2 x 10mm, ø15 x 10mm with M4. Used directly on JEOL holders. Can be used with any of the PELCO® Modular SEM Specimen Holders.

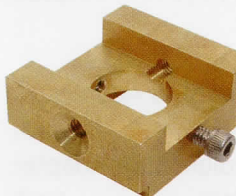
Can be used with any of the PELCO® Modular SEM Specimen Holders.

**15367-25** ø9.5mm JEOL Cylinder Mount Adapter . . .each

**15367-40** ø12.2mm JEOL Cylinder Mount Adapter . . .each

**15367-30** ø15mm JEOL Cylinder Mount Adapter . . .each

## ■ Dovetail Stage Adapter for ZEISS/LEO SEM



The solid brass dovetail for the ZEISS/LEO SEMs is fully compatible with the ZEISS/LEO dovetail used on the stage or stage height adapters. Design is similar to that of the JEOL dovetail adapter. Two button style adapters are available to connect the Modular SEM specimen holders.

The Short Button (15372) is used for the smaller specimen holders only, whereas the Extended Button (15372-10) can be used with all PELCO® Modular SEM Specimen Holders.

**15392** Dovetail adapter for ZEISS/LEO . . . . .each

## ■ Stage Adapter for AMRAY SEMs



Made of aluminum, 16mm dia x 25mm H with M4 screw. Can be used with any of the PELCO® Modular SEM Specimen Holders.

**15367-10** Stage Adapter for AMRAY . . . . .each

## ■ Stage Adapter for ISI/ABT/Topcon SEMs



Made of aluminum, 15mm dia x 10mm H with M4 screw. Can also be used on JEOL stage adapters or specimen holders which accommodate the 15mm cylinder stub. Can be used with any of the PELCO® Modular SEM Specimen Holders.

**15367-20** Stage Adapter for ISI/ABT/Topcon SEMs . . .each



### PELCO® SEM Modular Stage Adapters

*continued*



#### ■ Stage Adapter for CamScan and Tescan SEMs

Made of aluminum, 12.5mm dia x 20mm H with M4 screw. Used with the 12.7mm stage adapter found on the larger stages. Can be used with any of the PELCO® Modular SEM Specimen Holders.

**15367-30** Stage Adapter for Camscan or Tescan . . . .each

#### ■ Pin Stub Adapter to M4



Low profile and long pin with M4 threads to convert any of the PELCO® Modular SEM Specimen Holders into a pin stub type holder. Can be used on Cambridge, Leica, CamScan, Tescan, Amray, FEI/Philips and Zeiss/LEO SEMs. This arrangement will add height to the total assembly and is not recommended for larger specimen holders or heavy specimens.

**15319** Low Profile Pin Stub Adapter to M4, 9.5mm (0.34") pin length (standard) . . . .each

**15319-9** Short Pin Stub Adapter to M4, 6mm (0.24") pin length (Zeiss/LEO) . . . . .each

**15319-2** Long Pin Stub Adapter to M4, 14.75mm (0.58") pin length (AMRAY) . . . . .each

#### ■ Stub Extensions



**15373-2** Short Stub Adapter, 12mm . . . . .each

**15365-2** Medium Stub Adapter, 18mm . . . . .each

**15374-2** Long Stub Adapter, 25mm . . . . .each

#### ■ NeoScope Stage Adapter Kit



Aluminum stage plate with 2 adjustable height pillars and locking nuts. Includes height gauge. Can be used with all modular SEM holders with 35 x 35mm X-Y movement and do not exceed

total assembly height of 50mm. **T**

**15398** NeoScope Stage Adapter Kit, includes base plate adapter, 18mm and 25mm adjustable height adapters and height gauge. . . . .each

**15398-10** NeoScope Stage Base Adapter plate . . . . .each

**15365-2** 18mm Adjustable Height Pillar . . . . .each

**15374-2** 25mm Adjustable Height Pillar . . . . .each

### Adapter Buttons for JEOL and ZEISS/LEO Dovetail Stage Adapters

#### ■ Short Button for Dovetail Stage Adapters



**15372** Short Button shown separate and attached to specimen holder (top)

The 14mm diameter Short Button is needed to connect small PELCO® Modular SEM Specimen Holders or Stub Adapters to the Dovetail Stage Adapters (15371 or 15392). It allows easy and quick exchange of Modular SEM Specimen Holders. The Short Button is mounted on the SEM specimen holder and secured on the Dovetail Adapter with a screw against the flat side. Supplied with M4 screw.

**15372** Short Button with M4 Screw . . . . .each



#### ■ Extended Button for Dovetail Stage Adapters

The Extended Button can be used to mount all PELCO® Modular SEM Specimen Holders to the Dovetail Stage Adapters (15371 or 15392) and allows for easy and quick exchange of the Modular SEM Specimen Holders. Supplied with M4 screw.

**15372-10** Extended Button with M4 screw . . . . .each

### Interchangeable Modular SEM Specimen Holders

#### ■ Single Flat Sample Clip Holder



This specimen holder is made of aluminum with spring-loaded clamping and grounding pin. Accommodates a sample thickness up to 3mm. Pin provides minimal surface clamping area and grounding on the imaged surface. Short Button Adapter (15372) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

Shown with silicon chip held in place.

**15375-2** Single Flat Sample Clip Holder . . . . .each

#### ■ Triple Flat Sample Clip Holder



This specimen holder is made from aluminum with spring-loaded clamping and grounding pin. Accommodates three samples with thickness up to 3mm. The pins provide minimal surface clamping area and grounding on the imaged surface. Short Button Adapter

(15372) is needed when used with the Dovetail Stage Adapters (15371 or 15392). Shown with silicon chip held in place.

**15376-2** Triple Flat Sample Clip Holder . . . . .each

**T** = Tech Note on web page



## Interchangeable Modular SEM Specimen Holders *continued*

### ■ Cross Section Holder, 45°



This Cross Section Holder is made of aluminum with spring-loaded brass clamping and grounding clip and holds sample at a 45° angle. Clip width is 6.35mm. Accommodates a sample thickness up to 11mm. The clip provides minimal surface clamping area and grounding on the imaged surface. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15460** Cross Section Holder, 45° ..... each

### ■ Triple Cross Section Holder, 45°



The Triple Cross Section Holder is made of aluminum with spring-loaded brass clamping and grounding clip and holds sample at a 45° angle. Clip width is 6.35mm. Accommodates three samples with a thickness up to 11mm. The clips provide minimal surface clamping area and grounding on the imaged surface. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15461** Triple Cross Section Holder, 45° ..... each

### ■ Cross Section Holder, 70°



This Cross Section Holder is made of aluminum with spring-loaded brass clamping and grounding clip and holds sample at a 70° angle. Clip width is 6.35mm. Accommodates a sample thickness up to 11mm. The clip provides minimal surface clamping area and grounding on the imaged surface. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392). Shown with specimen.

**15377-2** Cross Section Holder, 70° ..... each

### ■ Triple Cross Section Holder, 70°



The Triple Cross Section Holder is made of aluminum with spring-loaded brass clamping and grounding clip and holds sample at a 70° angle. Clip width is 6.35mm. Accommodates three samples with a thickness up to 11mm. The clips provide minimal surface clamping area and grounding on the imaged surface. Extended Button (15372-10) is needed when used with the Dovetail Stage

Adapters (15371 or 15392). Shown with silicon chips held in place.

**15379-2** Triple Cross Section Holder, 70° ..... each

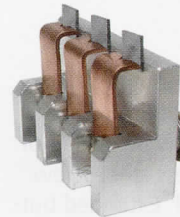
### ■ Cross Section Holder, 90°



This Cross Section Holder is made of aluminum with spring-loaded brass clamping and grounding clip and holds samples at a 90° angle. Clip width is 6.35mm. Accommodates a sample thickness up to 11mm. The clip provides minimal surface clamping area and grounding on the imaged surface. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15378-2** Cross Section Holder, 90° ..... each

### ■ Triple Cross Section Holder, 90°



The Triple Cross Section Holder is made of aluminum with spring-loaded brass clamping and grounding clips and holds samples at a 90° angle. Clip width is 6.35mm. Accommodates a sample thickness up to 11mm. The clips provide minimal surface clamping area and grounding on the imaged surface. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392). Shown with silicon chips.

**15380-2** Triple Cross Section Holder, 90° ..... each

### ■ Cross Section Holder, M4



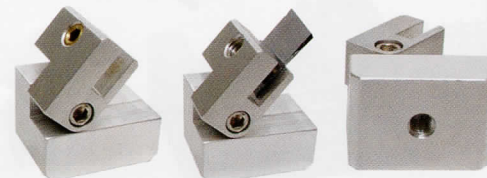
M4 threads shown with specimen

This specimen holder holds thin or flat samples up 6.35mm (1/4"). Adjustable angle from 0-180°.

Made of non-magnetic stainless steel. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392). Overall height is 30mm (1.2") from the pivot point. The clamping part is a 16mm (0.62") cube w/o thumb screws.

**15325-4** Cross Section Holder, M4 ..... each

### ■ Adjustable Profile Holder



with specimen

bottom

Designed to adjust the exact viewing angle for cross section made from wafers or other thin specimens up to a thick-

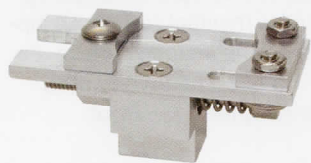
ness of 3.2mm (1/8"). Angle adjustment range 0-90°. Made of aluminum with stainless steel allen set screw. Allen wrench included. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15356-4** Adjustable Profile Holder ..... each



## Interchangeable Modular SEM Specimen Holders *continued*

### ■ Adjustable Spring-Loaded Vise Clamp

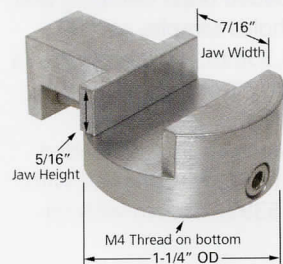


The adjustable spring-loaded vise clamp holds various sizes and shapes of specimens. Vise clamps between 10 - 25mm. Made of vacuum grade aluminum and stainless steel. Vise size is 45 x

20mm. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15384-2** Adjustable Spring-Loaded Vise Clamp . . . .each

### ■ Micro Vise Holder



Holds a variety of specimens. The maximum gap is 11mm ( $7/16$ "). The jaws are 25.4mm (1") wide. Made of aluminum with stainless steel screw. Allen wrench included. Extended button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15340-4** Micro Vise Holder, M4 . . . . .each

### ■ Thin Specimen Split Mount Holder

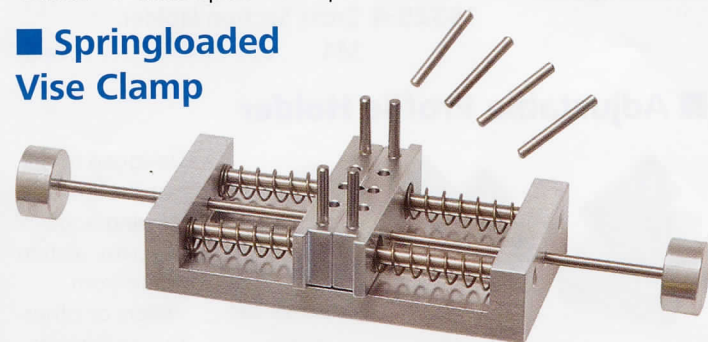


Simple but effective design to hold wafers and thin samples up to 3.2mm ( $1/8$ "). 15mm dia x 10mm H. Made of aluminum with stainless steel allen screws. Allen wrench included. Extended

button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15335-4** Thin Specimen Split Mount Holder . . . . .each

### ■ Springloaded Vise Clamp



Springloaded vise clamp for samples up to 26mm. The jaws are 25mm (1") wide. Jaws also accommodate stainless steel pins for more awkward shaped samples. Removable pushrods for easy loading are provided. Material: Machined aluminum with stainless steel pins and springs. Overall size of vise clamp w/o pin and push rods 50 x 25 x 15mm (2 x 1 x  $5/8$ "). Extended button (15372-10) is needed when used with the Dovetail stage adapters (15371 or 15392).

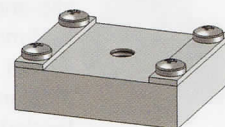
**15343-4** Springloaded Vise Clamp, M4 . . . . .each

### PELCO SEMClamp™

Convenient holders for clamping down samples up to a thickness of 7mm under the clamping strips. Extended Button Adapter (15372-10) is needed when used with the Dovetail stage adapters (15371 or 15392).

### ■ Small PELCO SEMClamp™ 15 x 10mm

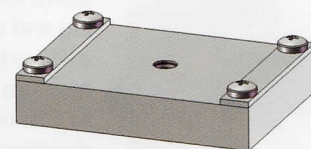
PELCO SEMClamp™ holder 15mm (0.6") long with 10mm (0.4") wide clamping area. Overall dimensions 23 x 20 x 9mm (0.9 x 0.8 x 0.35"). Material: Machined aluminum with brass screws.



**15347-4** Small PELCO SEMClamp™ 15 x 10mm, M4 .each

### ■ Medium PELCO SEMClamp™ 25 x 15mm

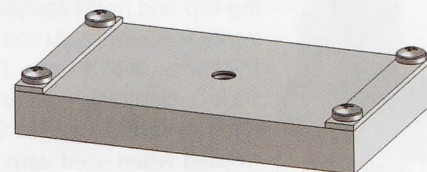
PELCO SEMClamp™ holder 25mm (1") long with 15mm (0.6") wide clamping area. Convenient holder for clamping down samples up to a thickness of 7mm under the clamping strips. Extended Button Adapter (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392). Overall dimensions 33 x 25 x 9mm (1.25 x 0.8 x 0.35"). Material: machined aluminum with brass screws.



**15348-4** Medium PELCO SEMClamp™ 25 x 15mm, M4 . . . . .each

### ■ Large PELCO SEMClamp™ 40 x 20mm

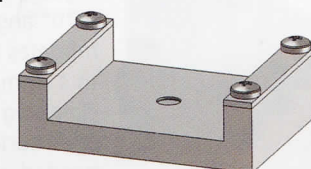
PELCO SEMClamp™ holder 40mm (1.6") long with 20mm (0.8") wide clamping area. Convenient holder for clamping down samples up to a thickness of 7mm under the clamping strips. Overall dimensions 48 x 30 x 9mm (1.9 x 1.2 x 0.35"). Material: machined aluminum with brass screws.



**15349-4** Large PELCO SEMClamp™ 40 x 20mm, M4 .each

### ■ Recessed PELCO SEMClamp™ 15 x 10mm

5mm recess allows for background-free imaging and no contact with sample surface in imaging area. Clamping area is 15mm (0.6") long and 10mm (0.4") wide. Maximum thickness 7mm under the clamping strips. Overall dimensions 23 x 20 x 12mm (0.9 x 0.8 x 0.48"). Material: Machined aluminum with brass screws.



**15346-4** Recessed PELCO SEMClamp™ 15 x 10mm, M4 . . . . .each



## Interchangeable Modular SEM Specimen Holders *continued*

### ■ Set Screw Vise

Single Stainless Steel set screw into an open slot that is 4mm (0.157") wide and 5mm (0.197") deep.  $\varnothing 15 \times 12\text{mm} \times \text{M4}$ . Material: Machined aluminum with stainless steel allen set screw. Allen wrench included.

**16335** Set Screw Vise,  $\varnothing 15 \times 12\text{mm H}$ , M4 . . . . .each



### ■ Double Slotted Mini Vise

Double slotted set screw vise with 1mm wide x 3mm deep slots to clamp thin specimens or cross sections. Simple but effective design to hold wafers and thin samples up to 3.2mm ( $\frac{1}{8}$ ").  $\varnothing 15 \times 10\text{mm H}$ . Made of aluminum with 2 stainless steel allen set screws. Allen wrench included.

**16341** Double Slotted Set Screw Vise,  $\varnothing 15 \times 6\text{mm H}$ , M4 . . . . .each



### ■ 45° Multi Holder for 6 Pin Stubs

Accepts standard 12.7mm ( $\frac{1}{2}$ ") pin stubs with 3.2mm ( $\frac{1}{8}$ ") pin. Pre-tilt 45° gives higher SE signal w/o tilting specimen stage. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Diameter of Holder is 35mm ( $1\frac{3}{8}$ ")

**15429** 45° Multi Holder for 6 pin stubs, M4 . . . . .each



### ■ Multi Holders for 4/6/8/12 Pin Mounts



Accommodates up to 4, 6, 8, or 12 standard 12.7mm ( $\frac{1}{2}$ ") pin mounts with 3.2mm ( $\frac{1}{8}$ ") pin. Made of aluminum with stainless steel set screws. Allen wrench included. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392). Diameter of Holders are  $\varnothing 32$ ;  $\varnothing 42$ ,  $\varnothing 50$  and  $\varnothing 62\text{mm}$ .

- 15310-4** Multi Holder for 4 Pin Mounts ( $\varnothing 32\text{mm}$ ) . . .each  
**15411** Multi Holder for 6 Pin Mounts ( $\varnothing 42\text{mm}$ ) . . .each  
**15413** Multi Holder for 8 Pin Mounts ( $\varnothing 50\text{mm}$ ) . . .each  
**15417** Multi Holder for 12 Pin Mounts ( $\varnothing 62\text{mm}$ ) . . .each

### ■ Single Pin Mount Holders



15363-1

with pin stub

bottom



15387-2

15361

15364

For holding and viewing SEM mounts with the standard 3.2mm pin. Made of aluminum, includes a pin locking screw. Four different heights are available: 10, 25, 38 and 55mm. Short Button Adapter (15372) is needed when used with the Dovetail stage adapters (15371 or 15392).

**15363-1** Single Pin Mount Holder 15 x 10mm H . . . .each

**15387-2** Single Pin Mount Holder 16 x 25mm H . . . .each

**15361** Single Pin Mount Holder 16 x 38mm H . . . .each

**15364** Single Pin Mount Holder 16 x 55mm H . . . .each

### ■ Metallographic Mount Holders



15403

15405

15403 with specimen

Specimen holders for  $\frac{7}{8}$ ", 1", 1- $\frac{1}{4}$ ", 1- $\frac{1}{2}$ " and 2" (22, 25, 30, 40, 50mm) metallographic mounts. Made of aluminum with stainless steel allen screw. Allen wrench included. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15402** Metallographic Mount Holder,  $\frac{7}{8}$ " (22mm) . . .each

**15403** Metallographic Mount Holder, 1" (25mm) . . .each

**15404** Metallographic Mount Holder, 1- $\frac{1}{4}$ " (30mm) .each

**15405** Metallographic Mount Holder, 1- $\frac{1}{2}$ " (40mm) .each

**15406** Metallographic Mount Holder, 2" (50mm) . . .each



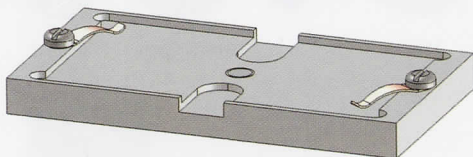
# SEM SUPPLIES

## SEM Specimen Holders, the Modular Concept

### PELCO® Interchangeable Modular SEM Specimen Holders *continued*

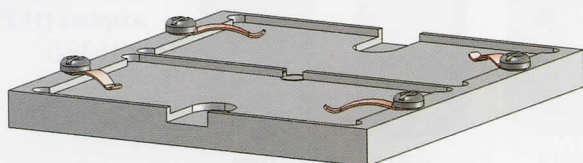
#### ■ Geological Thin Section Holder

Holds a standard geological thin section or slide of 47 x 27mm. 2 clips are provided for secure holding. Tweezer inserts enable easy loading. Overall dimensions are 55 x 30 x 8mm. Material: aluminum with copper clips and brass screws.



**15431-4** Single Geological Thin Section Holder, M4 . . .each

#### ■ Dual Geological Thin Section Holder



Holds two standard geological thin sections or slides of 47 x 27mm. Tweezer inserts enable easy loading. Clips are provided for secure holding. Overall dimensions are 55 x 58 x 8mm. Material: aluminum with copper clips and brass screws.

**15432-4** Dual Geological Thin Section Holder, M4 . . .each

#### ■ Round Bulk Specimen Holder

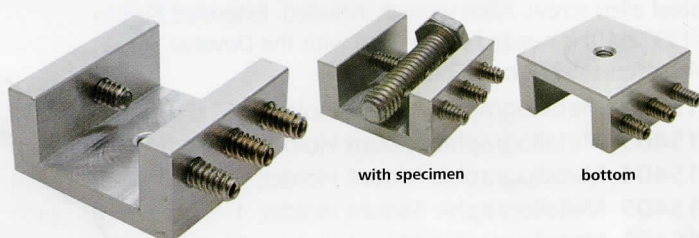


15308-4 holding a specimen

The round bulk specimen holder holds irregular and round specimens up to a diameter of 32mm (1-1/4"). Made of aluminum with two sets of stainless steel allen screws. Allen wrench included. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392). Holder size is 39.3 x 12.4mm.

**15308-4** Round Bulk Specimen Holder, M4 . . . . .each

#### ■ Square Bulk Specimen Holder

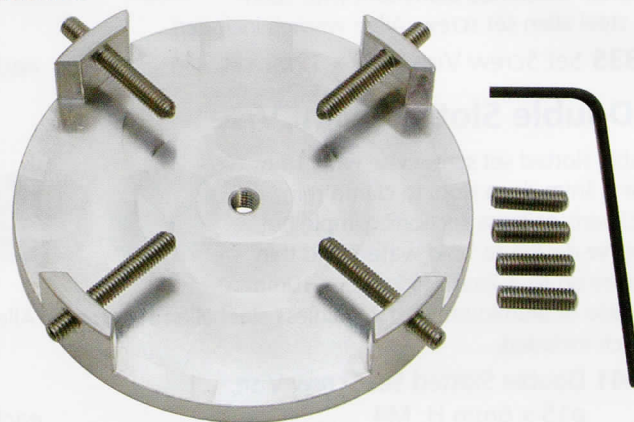


Versatile specimen holder to clamp irregular or long shaped specimens. Opening is 15.9W x 25.4L x 9.5mm D (5/8" x 1" x 3/8").

Made of aluminum with stainless steel allen screws. Allen wrench included. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392). Body is 25.4 x 25.4 x 12.7mm high.

**15320-4** Square Bulk Specimen Holder, M4 . . . . .each

#### ■ PELCO® Large Round Bulk Specimen Holder

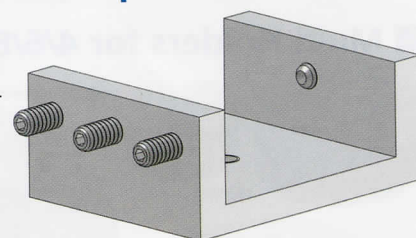


The large round bulk specimen holder holds larger irregular and round specimens up to a diameter of 51mm (2"). Made of aluminum with two sets of stainless steel allen screws. Allen wrench included. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392). 58mm dia. x 12.4mm H.

**15423** PELCO® Large Round Bulk Specimen Holder, M4 . . . . .each

#### ■ PELCO® Large Bulk Specimen Holder

Opening is 32mm (1-1/4") wide x 32mm (1-1/4") long x 13mm (1/2") deep. Material: machined aluminum with stainless steel allen set screws. Allen wrench included.



**15321-4** PELCO® Large Bulk Specimen Holder . . . . .each

#### ■ PELCO® X-Large Bulk Specimen Holder

*for up to 2" specimens*

Opening is 52mm (2") wide x 40mm (1-1/2") long x 13mm (1/2") deep. Material: machined aluminum with stainless steel allen set screws. Allen wrench included.

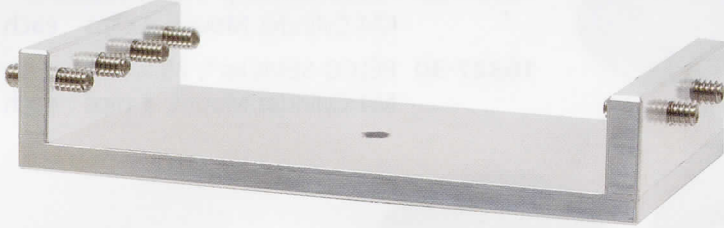


**15322-4** PELCO® X-Large Bulk Specimen Holder . . . . .each



## Interchangeable Modular SEM Specimen Holders *continued*

### ■ PELCO® XX-Large Bulk Specimen Holder *for up to 3" specimens*



Opening is 80mm (3-1/8") wide x 48mm (1-7/8") long x 13mm (1/2") deep. Material: machined aluminum with stainless steel allen set screws. Allen wrench included.

**15323-4** PELCO® XX-Large Bulk Specimen Holder . . . each

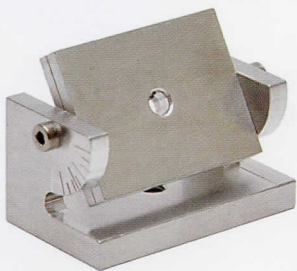
### ■ Multipurpose Specimen Holder



Accepts up to 25.4mm (1") diameter specimens. The slotted design also allows for clamping elongated or rod shaped specimens. Made of aluminum with stainless steel allen screws. Allen wrench included. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15305-4** Multi Purpose Specimen Holder, M4 . . . . .each

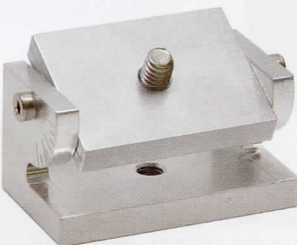
### ■ Variable Tilt Specimen Holder



Accommodates specimens with a size up to 26 x 20mm or pin stubs up to 18mm (.7") diameter. Tilts 0 - 90° with 10° markings. Additional markings for 30°, 45°, and 70°. Tilt table size is 26 x 20mm, overall size is 33 x 20 x 19mm H. Made of aluminum with stainless steel allen screws. Allen wrench included.

**15450-4** Variable Tilt Specimen Holder, M4 . . . . .each

### ■ Variable Tilt Specimen Holder, M4



Accommodates Hitachi 15mm cylinder mount with M4 thread. Tilts 0 - 90° with 10° markings. Additional markings for 30°, 45°, and 70°. Tilt table size is 26 x 20mm, overall size is 33 x 20 x 19mm H. Made of aluminum with stainless steel allen screws. Allen wrench included.

**15451-4** Variable Tilt Specimen Holder, M4 . . . . .each

### ■ 45°/90° Combination Holder



shown holding silicon chip and pin stub

Combined specimen holder for 90° cross sections of wafers or thin samples up to 6.35mm (1/4") and a pin stub at 45°. Made of aluminum with stainless steel allen set screws. Allen wrench included. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15358-4** 45°/90° Combination Holder, M4 . . . . .each

### ■ Multi Holder for 5 JEOL Stubs



shown holding mounts

bottom

Holds up to five 9.5mm JEOL cylinder mounts. Made of aluminum with stainless steel set screws. Allen wrench included. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**15315-4** Multi Specimen Holder for JEOL Stubs, M4 .each

### ■ JEOL or ISI/ABT/Topcon mounts to Hitachi M4 mount

Small cylinder mount adapter accommodates JEOL or ISI/ABT/Topcon cylinder mounts up to 15mm diameter. Enables the use of ø9.5 and ø12.2mm JEOL or ø15mm ISI/ABT/Topcon cylinder mounts on Hitachi M4. Made from aluminum with stainless allen steel screw, Allen wrench included.



**15401** S-4 Mount Adapter to Hitachi M4 . . . . .each

### ■ PELCO® SEMClip™ Cylinder Mounts

The SEMClip™ mounts can be used to hold flat thin samples with a maximum thickness of 2mm. Made of aluminum with copper spring clips. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392). Some images below show mounts holding silicon chips.



back view

**16324-10** PELCO® SEMClip™, 15 x 6mm x M4 Cylinder Mount, 1 clip . . . . .each



### Interchangeable Modular SEM Specimen Holders *continued*

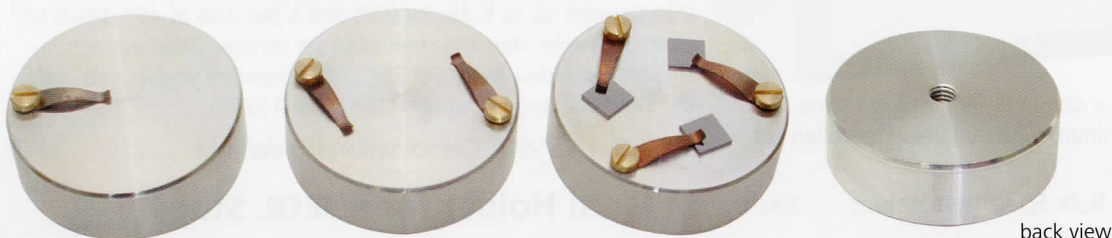
#### ■ PELCO SEMClip™ Cylinder Mounts *continued*



**16327-10** PELCO SEMClip™, 25 x 6mm x M4 Cylinder Mount, 1 clip . . .each

**16327-20** PELCO SEMClip™, 25 x 6mm x M4 Cylinder Mount, 2 clips . . .each

**16327-30** PELCO SEMClip™, 25 x 6mm x M4 Cylinder Mount, 3 clips . . .each



**16326-10** PELCO SEMClip™, 32 x 10mm x M4 Cylinder Mount, 1 clip . . . . .each

**16326-20** PELCO SEMClip™, 32 x 10mm x M4 Cylinder Mount, 2 clips . . . . .each

**16326-30** PELCO SEMClip™, 32 x 10mm x M4 Cylinder Mount, 3 clips . . . . .each



**16356-20** PELCO SEMClip™, 25x16mm x M4 Cylinder Mount, Double 90°, 2 clips . . . . .each

**16357-20** PELCO SEMClip™, 25x16mm x M4 Cylinder Mount, Double 45/90°, 2 clips . . . . .each

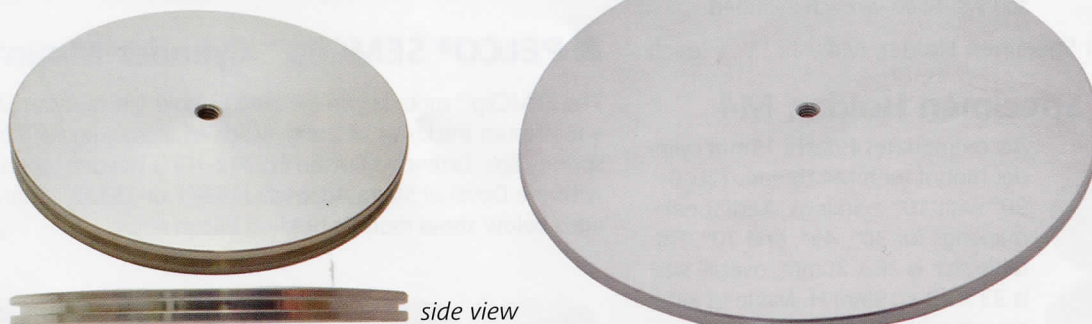
#### PELCO SEMClip™ Replacement Clips and Screws



**16399** PELCO SEMClip™, Clips . . . . .pkg/10

**16399-10** PELCO SEMClip™, Screws, Brass, M 2x3 . . . . .pkg/10

#### ■ Flat Sample Mounts, 63mm and 100mm



Large flat mounting with 63mm and 100mm diameter area for large sample or for mounting multiple samples with conductive adhesive. Made of aluminum. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**16114-4** Large 63mm Sample Mount . . . . .each

**16116-4** Large 100mm Sample Mount . . . . .each

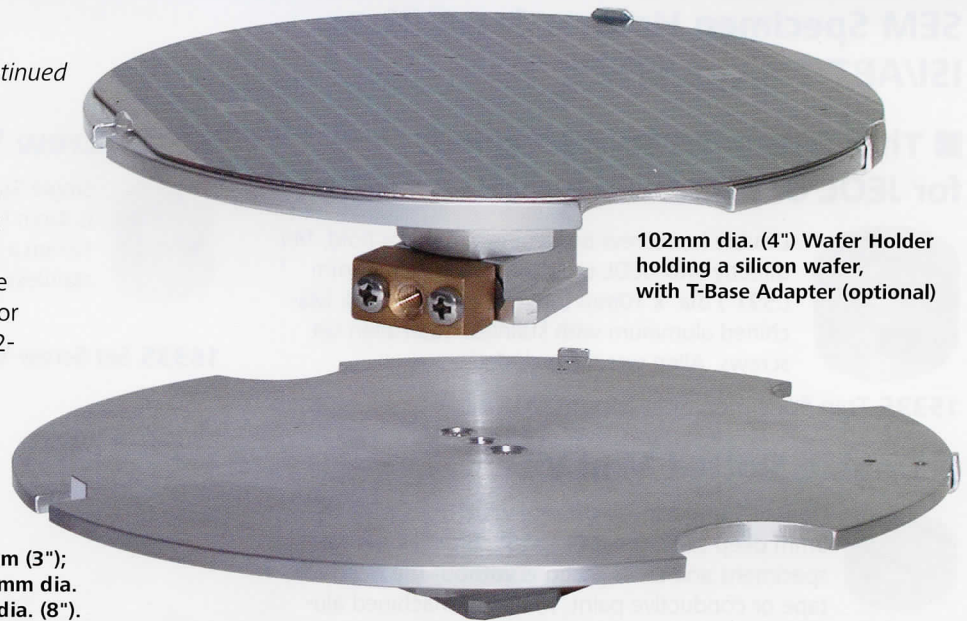


## Interchangeable Modular SEM Specimen Holders *continued*

### ■ Wafer Holders

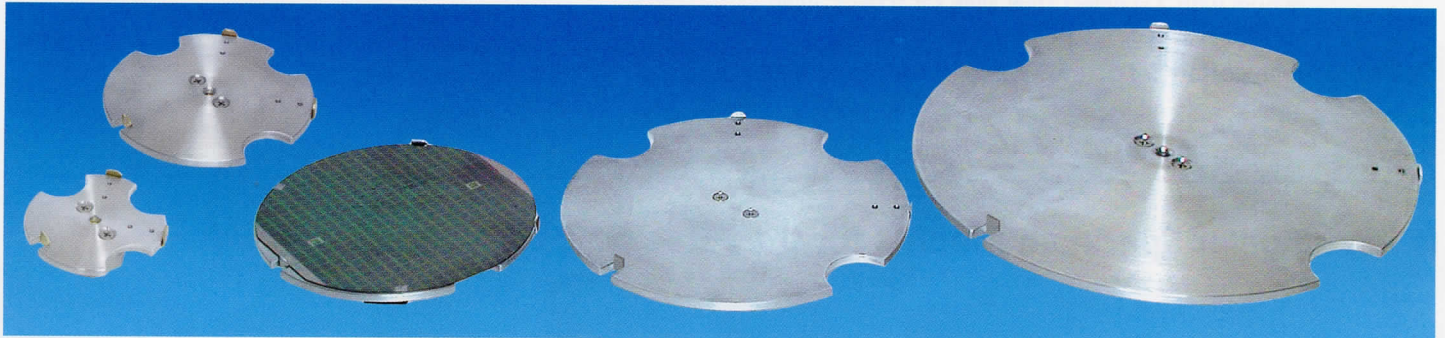
Six wafer holders for diameters varying from 2"-8" are available. Made of aluminum with brass clips. Each wafer holder has two fixed clips and one spring loaded clip to secure the wafer on the holder. Cut-outs are provided for easy wafer removal. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).

**125mm dia. (5") Wafer Holder with T-Base Adapter (optional)**



**102mm dia. (4") Wafer Holder holding a silicon wafer, with T-Base Adapter (optional)**

Below: Six diameters available: 51mm (2"); 76mm (3"); 102mm (4") shown holding a silicon wafer; 127mm dia. (5"); 152mm dia. (6") [not shown]; and 203mm dia. (8").



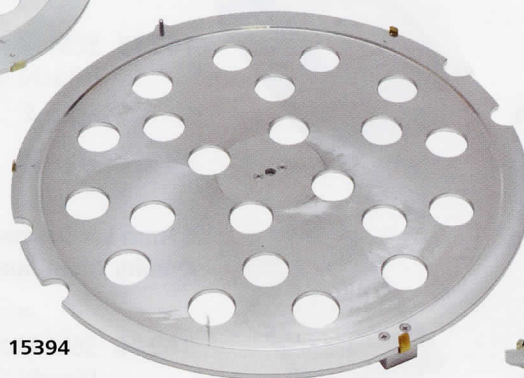
<b>15390</b> Wafer Holder for 51mm dia. (2")	.....each	<b>15381</b> Wafer Holder for 127mm dia. (5")	.....each
<b>15369</b> Wafer Holder for 76mm dia. (3")	.....each	<b>15382</b> Wafer Holder for 152mm dia. (6")	.....each
<b>15389</b> Wafer Holder for 102mm dia. (4")	.....each	<b>15383</b> Wafer Holder for 203mm dia. (8")	.....each

### ■ Wafer Holders for Notch Style Wafers

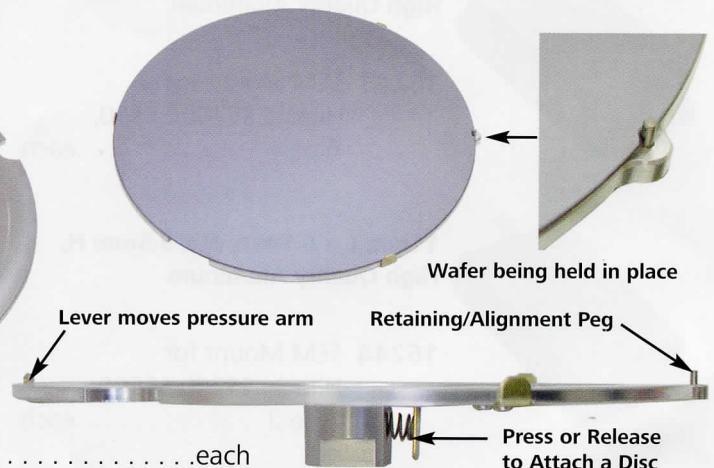
Wafer holders for notch style wafers in 4" and 6" are available. Made of aluminum with brass clips. Each wafer holder has two fixed clips, a notch pin and a spring loaded clip opposite the notch pin to secure the wafer on the holder. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).



**15391**



**15394**



<b>15393</b> Wafer Holder for notch style wafers, 100mm / 4"	.....each
<b>15391</b> Wafer Holder for notch style wafers, 150mm / 6"	.....each
<b>15395</b> Wafer Holder for notch style wafers, 200mm / 8"	.....each
<b>15394</b> Wafer Holder for notch style wafers, 300mm / 12"	.....each



# SEM SUPPLIES

SEM Specimen Holders for JEOL, ISI/ABT/Topcon; Rectangular Mounts for Hitachi S-5200, S5500

## SEM Specimen Holders for JEOL or ISI/ABT/Topcon SEMs

### ■ Thin Specimen Split Mount for JEOL or ISI/ABT/TOPCON



Double hex screw tightening for a firm hold, fits directly into JEOL or ISI/ABT/TOPCON, 15mm (.591") dia. x 10mm (.394") high. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included.

**15335** Thin Specimen Split Mount, ø15mm . . . . .each

### ■ Double Slotted Mini Vise



Double Slotted set screw vise with 1mm wide by 5mm deep slots, for JEOL, ø15 x 6mm H. Clamp thin specimens and cross sections without the need for tape or conductive paint. Material: Machined aluminum with 2 stainless steel allen set screws. Allen wrench included.

**16342** Double Slotted Set Screw Vise, ø15mm . . . . .each

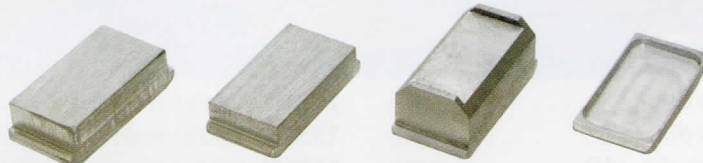
### ■ Set Screw Vise



Single Stainless Steel set screw into an open slot that is 4mm (.157") wide and 5mm (.197") deep. ø15 x 12mm x M4. Material: Machined aluminum with stainless steel allen set screw. Allen wrench included.

**16335** Set Screw Vise, ø15 x 12mm H, M4 . . . . .each

## ■ Rectangular Specimen Mounts for the Hitachi S-5200 / S-5500 FESEM



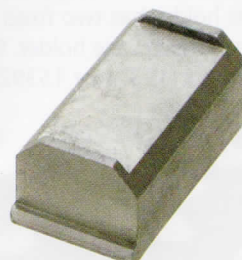
**SEM Mounts for Hitachi S-5200 / S-5500, Type 1 - 4**

These rectangular specimen mounts for the Hitachi S-5200 and S-5500 are precisely machined from high quality aluminum to precise dimensions.



**11mm L x 5.5mm W x 4mm H, High Quality Aluminum**

**16243** SEM Mount for Hitachi S5200/S5500, Type 1 . . . . .each



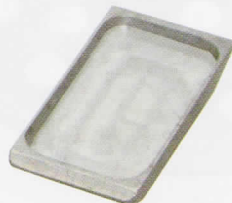
**11mm L x 5.5mm W x 5.5mm H, High Quality Aluminum**

**16245** SEM Mount for Hitachi S5200/S5500, Type 3 . . . . .each



**11mm L x 5.5mm W x 3.5mm H, High Quality Aluminum**

**16244** SEM Mount for Hitachi S5200/S5500, Type 2 . . . . .each



**11mm L x 5.5mm W x 2mm H, High Quality Aluminum**

**16246** SEM Mount for Hitachi S5200/S5500, Type 4 . . . . .each



## Specimen Mounts and Holders for the Hitachi TM-1000 Tabletop SEM

A complete line of sample mounts and specimen holders made especially for the Hitachi TM-1000 Tabletop Scanning Electron Microscope. The specimen mounts with the M4 threaded hole are directly compatible with the TM-1000 stage adapter and are available with diameters of 15, 25 and 32mm. The large 32mm sample mount allows for mounting a number of smaller samples or one large sample.

The wide choice of special specimen holders created for the Hitachi TM-1000 will allow for using a greater

variety of specimens. Easy mounting of specimens will make the TM-1000 more productive and will give access to more applications. There are also adapters available to accommodate pin stub mounts and small cylinder mounts which are used in other Scanning Electron Microscopes. This will allow users of the TM-1000 to share specimen mounts used on other SEM platforms.



### Cylindrical Specimen Mounts

#### Hitachi, M4, Aluminum



**16324** Specimen Mount, M4,  
15 x 6mm .....pkg/10, 50 or 100

#### Cylinder, M4, Aluminum



**16322** Specimen Mount, M4,  
15 x 10mm .....pkg/10, 50 or 100

#### Hitachi, M4, Aluminum



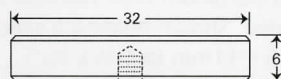
**16327** Specimen Mount, M4,  
25 x 6mm .....pkg/10, 50 or 100

#### Hitachi, M4, Aluminum



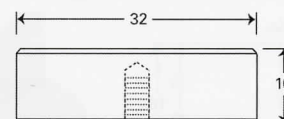
**16323** Specimen Mount, M4,  
25 x 10mm .....pkg/10 or 50

#### Cylinder, M4, Aluminum



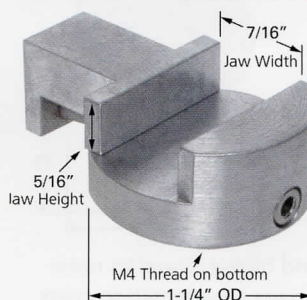
**16325** Specimen Mount, M4,  
32 x 6mm .....pkg/10 or 50

#### Hitachi, M4, Aluminum



**16326** Specimen Mount, M4, 32 x 10mm ...pkg/10 or 50

### Micro Vise Holder

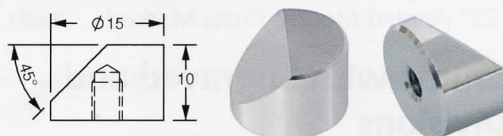


A fast and clean way to hold a variety of specimens. The maximum gap is 11mm ( $7/16$ " ). The jaws are 25.4mm (1") wide. Material: Machined aluminum with stainless steel allen screw. Allen wrench included.

**15340-4** Micro Vise Holder,  
M4 .....each

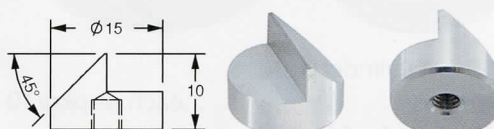
### Hitachi Angled Mounts

#### Hitachi, 45°, M4, Aluminum



**16330** 45° Specimen Mount,  $\phi 15$  x 10mm,  
M4 .....each or pkg/10

#### Hitachi, 45° / 90°, M4, Aluminum



**16334** 45° / 90° Specimen Mount,  $\phi 15$  x 10mm,  
M4 .....each or pkg/10  
*continued on next page*



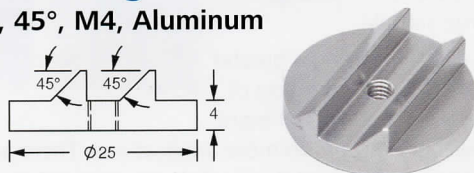
# SEM SUPPLIES

## Specimen Mounts and Holders for the Hitachi TM-1000

### Specimen Mounts and Holders for the Hitachi TM-1000 Tabletop SEM

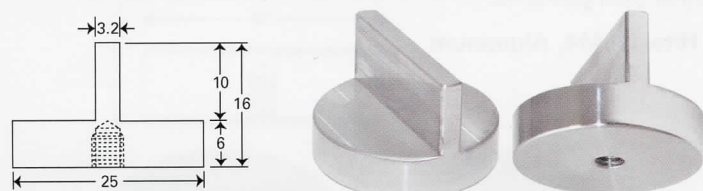
#### ■ Hitachi Angled Mounts

Hitachi, 45°, M4, Aluminum



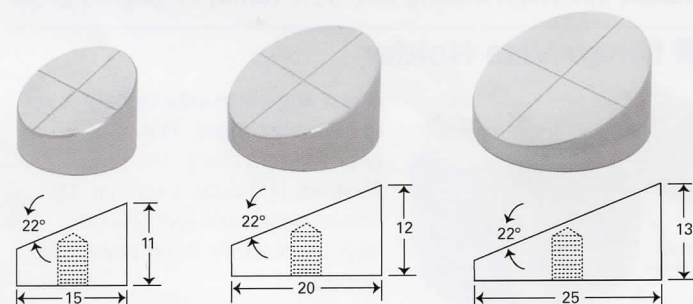
**16331** Double 45° Specimen Mount,  $\varnothing 25 \times 4\text{mm}$ , M4 .....pkg 1 or 10

Hitachi, Double 90°, M4, Aluminum



**16356** Double 90° Specimen Mount,  $\varnothing 25 \times 16\text{mm}$ , M4 .....each

#### ■ Specimen Mounts with 22° Angle for TM-1000 Equipped with an EDS analysis system



The 22° tilt provides better detection and higher signal to noise ratio for x-ray analysis. Angled mounts have an orientation cross which allows for precise positioning towards the EDS detector.

**16380**  $\varnothing 15\text{mm}$ , 22° Angled Mount, Cross Marked .....each

**16381**  $\varnothing 20\text{mm}$ , 22° Angled Mount, Cross Marked .....each

**16382**  $\varnothing 25\text{mm}$ , 22° Angled Mount, Cross Marked .....each

#### ■ Hitachi Mounts with Engraved and Numbered Divisions



**16362**  $\varnothing 12.2 \times 10\text{mm}$  Cylinder Mount with 3 divisions .....each or pkg/10

**16366**  $\varnothing 25 \times 8\text{mm}$  Cylinder Mount with 9 divisions .....each or pkg/10

**16369**  $\varnothing 32 \times 10\text{mm}$  Cylinder Mount with 12 divisions .....each or pkg/10

#### ■ Round Bulk Specimen Holder



Holds irregular and round specimens up to a diameter of 32mm (1.25"). Material: Machined aluminum with two sets of stainless steel allen screws. Allen wrench included. Shown holding a specimen and bottom. Holder size is  $\varnothing 40 \times 13\text{mm}$  H

**15308-4** Hitachi TM-1000 Round Bulk Specimen Holder, M4 .....each

#### ■ Square Bulk Specimen Holder



Versatile specimen holder to clamp irregular shaped specimens. Opening is 15.9W x 25.4L x 9.5mm D ( $\frac{5}{8}"\text{W} \times 1"\text{L} \times \frac{3}{8}"\text{D}$ ). Material: Machined aluminum with stainless steel set screws. Allen wrench included. Shown holding a specimen and bottom. Holder size is 25.4 x 25.4 x 12.7mm (1 x 1 x  $\frac{1}{2}"$ )

**15320-4** Hitachi Square Bulk Specimen Holder, M4 .....each

#### ■ Multipurpose Specimen Mount



Accepts up to 25.4mm (1") diameter specimens. The slotted design also allows for clamping elongated or rod shaped specimens. Material: Machined aluminum with stainless steel allen screws. Allen wrench included. Shown holding a specimen and bottom. Holder size is  $\varnothing 31.5 \times 11\text{mm}$  ( $\varnothing 1\frac{1}{4} \times \frac{7}{16}"$ ).

**15305-4** Hitachi Multipurpose Specimen Holder, M4 .....each

*continued on next page*



## Specimen Mounts and Holders for the Hitachi TM-1000 Tabletop SEM

### ■ Cross Section Holder

This specimen holder is designed to investigate cross sections and flat samples up to 6.35mm (1/4"). Adjustable angle. Material: Non-magnetic stainless steel. Overall height is 30mm (1.2") from the pivot point. The clamping part is a 16mm (0.62") cube w/o thumb screws.

**15325-4** Hitachi Cross Section



M4 Threads shown with specimen

### ■ Adjustable Profile Holder



with specimen

bottom

Designed to adjust the exact angle for cross sections made from wafers. Maximum specimen thickness

3.2mm (1/8"). Material: Machined aluminum with brass and stainless steel allen set screws. Allen wrench included.

**15356-4** Hitachi Adjustable Profile holder, M4 . . . .each

### ■ 45°/90° Combination Holder



shown holding silicon chip and pin stub

bottom

Versatile combined specimen holder for 90° cross sections and 45° pin stub. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Holder size is 22.4 x 16 x 19.25mm (7/8 x 5/8 x 3/4" H)

**15358-4** Hitachi 45°/90° Combination Holder, M4 . .each

### ■ Thin Specimen Split Mount



with specimen

bottom

Double hex screw tightening for a firm hold with M4 thread, 15mm (.591") dia. x 10mm (.394") high. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included.

**15335-4** Hitachi Thin Specimen Split Mount, M4 . . .each

### ■ Set Screw Vise

Single Stainless Steel set screw into an open slot that is 4mm (.157") wide and 5mm (.197") deep. ø15 x 12mm x M4. Material: Machined aluminum with stainless steel allen set screw. Allen wrench included.



**16335** Set Screw Vise, ø15 x 12mm H, M4 . . . . .each

### ■ Double Slotted Mini Vise

Double slotted set screw vise with 1mm wide x 3mm deep slots to clamp thin specimens or cross sections. Simple but effective design to hold wafers and thin samples up to 3.2mm (1/8). ø15 x 10mm H. Made of aluminum with 2 stainless steel allen set screws. Allen wrench included.



**16341** Double Slotted Set Screw Vise, ø15 x 6mm H, M4 . . . . .each

### ■ Metallographic Mount Holders



15403

15405

15403 with specimen

Specimen holders for 7/8", 1", 1-1/4", 1-1/2" and 2" (20, 25, 30, 38, 50mm) metallographic mounts. Made of aluminum with stainless steel allen screw. Allen wrench included.

**15402** Metallographic Mount Holder, 7/8" (22mm) . . .each

**15403** Metallographic Mount Holder, 1" (25mm) . . .each

**15404** Metallographic Mount Holder, 1-1/4" (32mm) .each

**15405** Metallographic Mount Holder, 1-1/2" (38mm) .each

**15406** Metallographic Mount Holder, 2" (51mm) . . .each

### ■ JEOL or ISI/ABT/Topcon mounts to Hitachi M4 mount

Small cylinder mount adapter accommodates JEOL or ISI/ABT/Topcon cylinder mounts up to ø15mm diameter. Enables the use of ø9.5 and ø12.5mm JEOL stubs or ø15mm ISI cylinder mounts. Material: Machined aluminum with stainless steel allen screw. Allen wrench included.



**15401** Small Cylinder Mount Adapter . . . . .each

*continued on next page*



Specimen Mounts and Holders for the Hitachi TM-1000 Tabletop SEM *continued*

## ■ Single Pin Stub Holder



Pin stub mount adapter to M4 thread, 15x10mm L. Enables the use of the common pin stub mounts for

FEI/Philips, ZEISS/LEO, Leica, Cambridge Instruments, Amray, CamScan and Tescan SEMs in the Hitachi TM-1000. Material: machined aluminum with stainless steel allen set screw. Allen wrench included.

**15363-1** Single Pin Stub Holder  $\varnothing 15 \times 10\text{mm}$  H . . . .each

## ■ Pin Mount Adapter to Hitachi M4

Pin mount adapter, 15 x 15mm H and 16 x 25mm H with M4 thread on one side. Enables the use of standard pin mounts with 1/8" (3.2mm) pin on Hitachi M4 thread. Made from aluminum with stainless allen set screw. Allen wrench included.

**15363-2** Single Pin Stub Holder  $\varnothing 15 \times 15\text{mm}$  H . . . . .each

**15387-2** Pin mount adapter to Hitachi M4  $\varnothing 16 \times 25\text{mm}$  . . . . .each



## ■ Multi Pin Stub Holder

Accommodates up to four standard 12.7mm (1/2") pin stubs with a 3.2mm (1/8") pin diameter. Enables the use of the common pin stub mounts for FEI/Philips, ZEISS/LEO, Leica, Cambridge Instruments, Amray, CamScan and Tescan SEMs in the Hitachi TM-1000. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Shown holding pin stubs and bottom. Holder size is  $\varnothing 31.8 \times 11.25\text{mm}$  (1.25 x .44").



**15310-4** Hitachi Multi Pin Stub Holder, M4 . . . . .each

## ■ Multi Specimen Holder

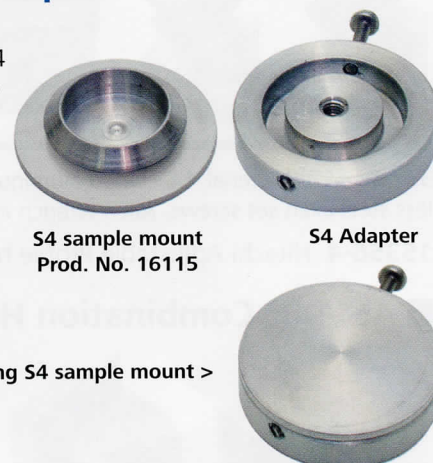


Holds up to five 9.5mm cylinder mounts, commonly used in JEOL SEMs. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Shown holding cylinder mounts and bottom. Holder size is  $\varnothing 31.5 \times 11.5\text{mm}$  (1.24 x .45").

**15315-4** Hitachi Multi Specimen Holder, M4 . . . . .each

## ■ S-4 Mount Adapter

The S-4 mount adapter allows the use of the S-4 specimen mounts (Cambridge Instruments, Leica, CamScan) on the Hitachi TM-1000 stage. 31mm diameter, 6mm height. Material: Machined aluminum with stainless steel screw.



S4 Adapter holding S4 sample mount >

**15317** Hitachi S-4 Mount Adapter, M4 . . . . .each

## ■ PELCO SEMClip™ Cylinder Mounts for the Hitachi TM-1000 Tabletop SEM



**16324-10** PELCO SEMClip™, 15 x 6mm, M4, Cylinder Mount, 1 clip . . . .each



**16327-10** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 1 clip . . . . .each

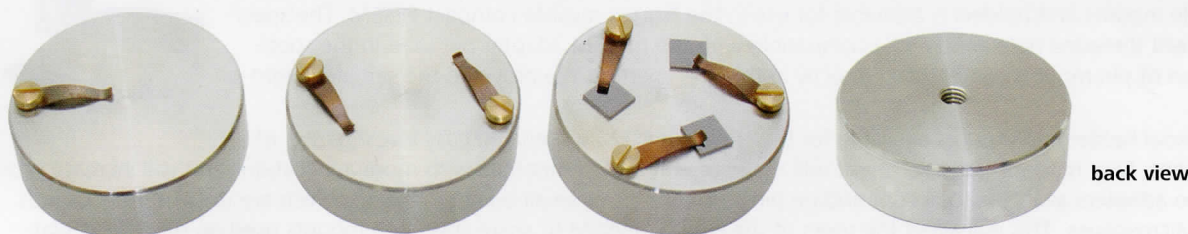
**16327-20** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 2 clips . . . . .each

**16327-30** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 3 clips . . . . .each

*continued on next page*



## ■ PELCO SEMClip™ Cylinder Mounts for the Hitachi TM-1000 Tabletop SEM *continued*



**16326-10** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 1 clip . . . .each

**16326-20** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 2 clips . . .each

**16326-30** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 3 clips . . .each



**16356-20** PELCO SEMClip™, 25x16mm x M4  
Cylinder Mount, Double  
90°, 2 clips . . . . .each

## ■ PELCO SEMClip™ Replacement Clips and Screws

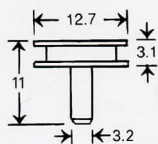


**16399** PELCO SEMClip™ Clips . . . . .pkg/10

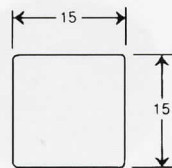
**16399-10** PELCO SEMClip™ Screws, Brass, M2 x 3 . . . . .pkg/10

## ■ Special Alloy Aluminum for Forensic Specimen Mounts

All our forensic SEM specimen mounts are made of special certified aluminum alloy. These special certified mounts do not contain elements which might interfere with the collected GSR evidence.



**16253** Special Alloy Aluminum,  $\phi$ 12.7mm,  
3.2mm Pin Specimen Mount . . . . .pkg/500

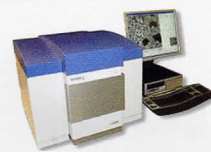


**16343** Special Alloy Aluminum, 15 x 15mm,  
Cylinder Mount . . . . .pkg/500



### Specimen Mounts and Holders for the Novelx mySEM

A wide range of sample mounts and holders is available for use in the Novelx mySEM compact FESEM. The specimen mounts with the M4 threaded hole are directly compatible with the mySEM adapter pin used in the specimen shuttle. A selection of pin mounts can be used directly in the specimen shuttle provided the sample height is properly set.



The wide choice of special holder and mounts available for the Novelx mySEM will enable easy investigation of a large variety of specimens. Easy mounting of specimens will make the mySEM compatible with more applications and will increase productivity. There are also adapters available to accommodate pin stub mounts or small cylinder mounts which are used in other brands of Scanning Electron Microscopes. This will allow the users of the Novelx mySEM to share specimen mounts used on other SEM platforms.

### ■ Specimen Mounts for the Novelx mySEM compact FESEM

#### Cylinder, M4, Aluminum



**16324** Specimen Mount, M4,  
15 x 6mm .....pkg/10, 50 or 100

#### Cylinder, M4, Aluminum



**16322** Specimen Mount, M4,  
15 x 10mm .....pkg/10, 50 or 100

#### Cylinder, M4, Aluminum



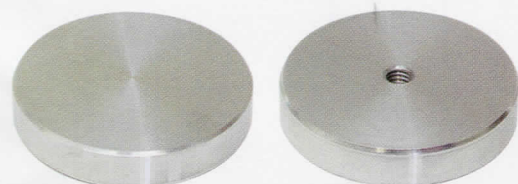
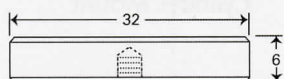
**16327** Specimen Mount, M4,  
25 x 6mm .....pkg/10, 50 or 100

#### Cylinder, M4, Aluminum



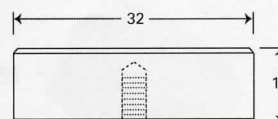
**16323** Specimen Mount, M4,  
25 x 10mm .....pkg/10 or 50

#### Cylinder, M4, Aluminum



**16325** Specimen Mount, M4,  
32 x 6mm .....pkg/10 or 50

#### Cylinder, M4, Aluminum



**16326** Specimen Mount, M4,  
32 x 10mm .....pkg/10 or 50

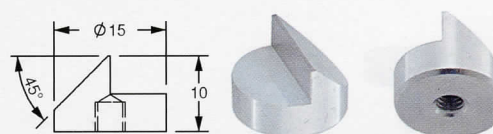
### ■ Angled Mounts

#### 45°, M4, Aluminum



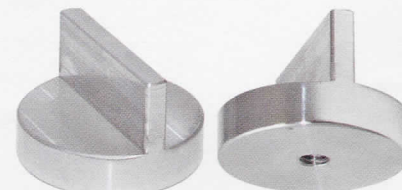
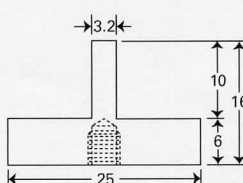
**16330** 45° Specimen Mount,  $\phi 15$  x 10mm,  
M4 .....each or pkg/10

#### 45° / 90°, M4, Aluminum



**16334** 45° / 90° Specimen Mount,  $\phi 15$  x 10mm,  
M4 .....each or pkg/10

#### Double 90°, M4, Aluminum



**16356** Double 90° Specimen Mount,  $\phi 25$  x 16mm,  
M4 .....each



## Specimen Holders for the Novelx mySEM compact FESEM *continued*

### Mounts with Engraved and Numbered Divisions

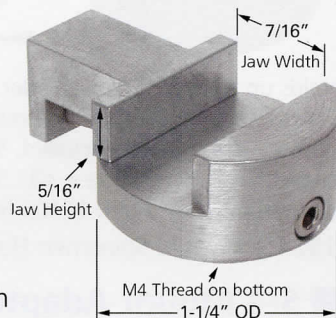


- 16361** Double 45° Specimen Mount,  $\varnothing 25 \times 4\text{mm}$ , M4 .....each or pkg/10
- 16365** Double 45° Specimen Mount,  $\varnothing 25 \times 4\text{mm}$ , M4 .....each or pkg/10
- 16368** Double 45° Specimen Mount,  $\varnothing 25 \times 4\text{mm}$ , M4 .....each or pkg/10

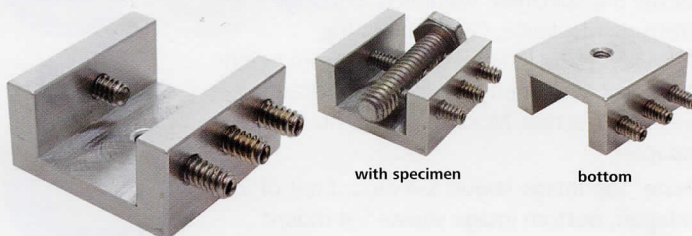
### Micro Vise Holder

A fast and clean way to hold a variety of specimens. The maximum gap is 11mm ( $\frac{7}{16}$ "). The jaws are 25.4mm (1") wide. Material: Machined aluminum with stainless steel allen screw. Allen wrench included.

- 15340-4** Micro Vise Holder, M4 .....each



### Square Bulk Specimen Holder



Versatile specimen holder to clamp irregular shaped specimens. Opening is 15.9W x 25.4L x 9.5mm D ( $\frac{5}{8}$ "W x 1"L x  $\frac{3}{8}$ "D). Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Shown holding a specimen and bottom. Holder size is 25.4 x 25.4 x 12.7mm (1 x 1 x  $\frac{1}{2}$ ")

- 15320-4** Square Bulk Specimen Holder, M4 .....each

### Multipurpose Specimen Mount



Accepts up to 25.4mm (1") diameter specimens. The slotted design also allows for clamping elongated or rod shaped specimens. Material: Machined aluminum with stainless steel allen screws.

Allen wrench included. Shown holding a specimen and bottom. Holder size is  $\varnothing 31.5 \times 11\text{mm}$  ( $\varnothing 1\frac{1}{4} \times \frac{7}{16}$ ")

- 15305-4** Multipurpose Bulk Specimen Holder, M4 .....each

### 45°/90° Combination Holder



shown holding silicon chip and pin stub

Versatile combined specimen holder for 90° cross sections and 45° pin stub. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Holder size is 22.4 x 16 x 19.25mm ( $\frac{7}{8} \times \frac{5}{8} \times \frac{3}{4}$ " H)

- 15358-4** 45°/90° Combination Holder, M4 .....each

### Single Pin Stub Holder

Pin stub mount adapter to M4 thread, 15x10mm L. Enables the use of the common pin stub mounts for FEI/Philips, ZEISS/LEO, Leica, Cambridge Instruments, Amray, CamScan and Tescan SEMs in the Novelx mySEM. Material: Machined aluminum with stainless steel allen set screw. Allen wrench included.



15363-1

with pin stub

bottom

- 15363-1** Cylinder Single Pin Stub Holder 15x10mm H, M4 .....each

### Pin Mount Adapter to Hitachi M4

Pin mount adapter, 15 x 15mm H and 16 x 25mm H with M4 thread on one side. Enables the use of standard pin mounts with 1/8" (3.2mm) pin on Hitachi M4 thread. Made from aluminum with stainless steel allen set screw. Allen wrench included.

- 15363-2** Single Pin Stub Holder  $\varnothing 15 \times 15\text{mm}$  H .....each

- 15387-2** Pin mount adapter to Hitachi M4  $\varnothing 16 \times 25\text{mm}$  .....each



### Thin Specimen Split Mount

Double hex screw tightening for a firm hold with M4 thread, 15mm (.591") dia. x 10mm (.394") high. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included.



- 15335-4** Cylinder Thin Specimen Split Mount, M4 .....each



# SEM SUPPLIES

## Specimen Mounts and Holders for the Novelx mySEM compact FESEM

### Specimen Holders for the Novelx mySEM compact FESEM *continued*

#### ■ Set Screw Vise

Single Stainless Steel set screw into an open slot that is 4mm (.157") wide and 5mm (.197") deep.  $\varnothing 15 \times 12\text{mm} \times \text{M4}$ .

Material: Machined aluminum with stainless steel allen set screw. Allen wrench included.

**16335** Set Screw Vise,  $\varnothing 15 \times 12\text{mm H}$ , M4 . . . . .each



#### ■ Double Slotted Mini Vise

Double slotted set screw vise with 1mm wide x 3mm deep slots to clamp thin specimens or cross sections. Simple but effective design to hold wafers and thin samples up to 3.2mm ( $\frac{1}{8}$ ).  $\varnothing 15 \times 6\text{mm H}$ . Made of aluminum with 2 stainless steel allen set screws. Allen wrench included.

**16341** Double Slotted Set Screw Vise,  $\varnothing 15$ , M4 . . . . .each



#### ■ JEOL or ISI/ABT/Topcon mounts to Novelx mySEM M4 mount

Small cylinder mount adapter accommodates JEOL or ISI/ABT/Topcon cylinder mounts up to  $\varnothing 15\text{mm}$  diameter. Enables the use of  $\varnothing 9.5$  and  $\varnothing 12.5\text{mm}$  JEOL stubs or  $\varnothing 15\text{mm}$  ISI cylinder mounts. Material: Machined aluminum with stainless steel allen screw, Allen wrench included.

**15401** Small Cylinder Mount Adapter, M4 . . . . .each



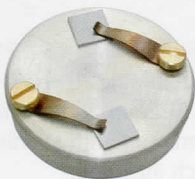
#### ■ PELCO SEMClip™ Cylinder Mounts, M4

**16324-10** PELCO SEMClip™, 15 x 6mm, M4, Cylinder Mount, 1 clip . . .each



back view

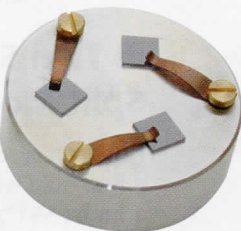
back view >



**16327-10** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 1 clip . . .each

**16327-20** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 2 clips . . .each

**16327-30** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 3 clips . . .each



**16326-10** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 1 clip . . .each

**16326-20** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 2 clips . . .each

**16326-30** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 3 clips . . .each

#### ■ Multi Pin Stub Holder

Accommodates up to four standard 12.7mm ( $\frac{1}{2}$ ") pin stubs with a 3.2mm ( $\frac{1}{8}$ ") pin diameter. Enables the use of the common pin stub mounts for FEI/Philips, ZEISS/LEO, Leica, Cambridge Instruments, Amray, CamScan and Tescan SEMs in the Hitachi TM-1000. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Shown holding pin stubs and bottom. Holder size is  $\varnothing 31.8 \times 11.25\text{mm}$  (1.25 x .44").

**15310-4** Multi Pin Stub Holder, M4 . . . . .each



with pin stubs

bottom

#### ■ Multi Specimen Holder



shown holding mounts

bottom

Holds up to five 9.5mm cylinder mounts, commonly used in JEOL SEMs. Material: Machined aluminum with stainless steel allen set screws. Allen wrench included. Shown holding cylinder mounts and bottom. Holder size is  $\varnothing 31.5 \times 11.5\text{mm}$  (1.24 x .45"). Cylinder mounts 16221 and 16105 fit in this holder.

**15315-4** Multi Specimen Holder, M4 . . . . .each

#### ■ S-4 Mount Adapter

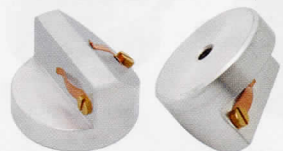
The S-4 mount adapter allows the use of the S-4 specimen mounts (Cambridge Instruments, Leica, CamScan) in the Novelx mySEM. 31mm diameter, 6mm height. Material: Machined aluminum with stainless steel allen screw. Mount #16115 fits this adapter.

Note: Top Image shows S-4 mount left of the adapter, bottom image shows S-4 mount inserted into adapter.

**15317** S-4 Mount Adapter, M4 . . . . .each



**16356-20** PELCO SEMClip™, 25 x 16mm x M4 Cylinder Mount, Double 90°, 2 clips . . . . .each



**16357-20** PELCO SEMClip™, 25 x 16mm x M4 Cylinder Mount, Double 45/90°, 2 clips . . . . .each



## Specimen Mounts and Holders for the FEI Phenom Desktop SEM

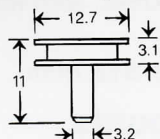
A wide range of sample mounts and holders is available for use in the FEI Phenom desk top SEM. The specimen mounts with the widely used 3.2mm ( $\frac{1}{8}$ " ) pin mounts fits directly into the unique Phenom sample loader. The wide choice of special holder and mounts available for the FEI Phenom enables easy investigation of a large variety of specimens.

Easy mounting of specimens will make the Phenom SEM compatible with more applications and will increase productivity. There are also adapters available to accommodate small cylinder mounts which are used in other brands of Scanning Electron Microscopes. This will allow the users of the Phenom to share specimen mounts used on other SEM platforms.



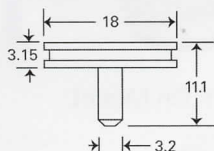
### Pin Mount Stubs for the Phenom SEM with 3.2mm ( $\frac{1}{8}$ " ) pin

**Most commonly used SEM Pin Stub Mount,  $\phi$ 12.7mm**



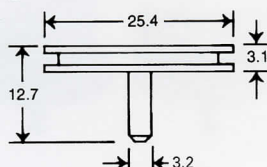
**16111** Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, ETEC, aluminum, grooved edge .....pkg/50, 100, 500 or 1000

#### $\phi$ 18 x 11.07mm H Pin Stub

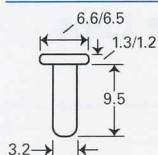


**16119** Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\phi$ 18mm .....pkg/10, 50 or 100

#### Large $\phi$ 25.4 x 12.7mm H Pin Stub



**16144** Cambridge, Leica, ZEISS/LEO, FEI/Philips, CamScan, Tescan, aluminum, grooved edge,  $\phi$ 25.4mm .....pkg/10, 50 or 100

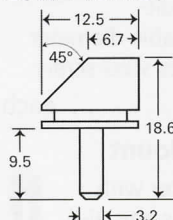


#### Mini Pin Stubs

Mini pin stubs are ideal for small samples or parts which need to be examined individually. Takes less space with a head diameter of 6.5mm, small samples are easier to locate and it is a low cost alternative for the standard 12.7mm pin stub.

**16180** Aluminum Mini Pin Stub with 9.5mm pin. Head  $\phi$ 6.6 x 1.3mm .....pkg/100

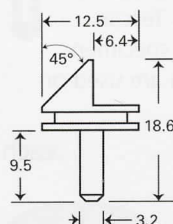
#### Low Profile Pin Stubs



Low Profile

Low profile 45° SEM Mount, pin leg fits into Cambridge, Leica, FEI, Philips, CamScan, Tescan, ETEC, and Amray SEMs. Aluminum, grooved edge.

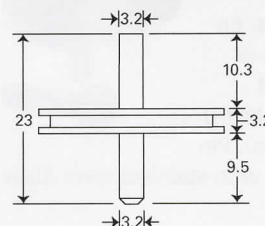
**16102** Low Profile 45° Mount .....each



Lower Profile

Low profile 45° / 90° SEM Mount, pin leg fits into Cambridge, Leica, FEI, Philips, CamScan, Tescan, ETEC, and Amray SEMs. Aluminum, grooved edge.

**16104** Low Profile 45° / 90° Mount .....each



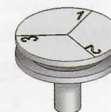
Double 90° SEM Mount  $\phi$ 25mm. Aluminum, grooved edge, 9.5mm pin height.

**16354** Double 90° Mount .....each

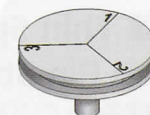
### SEM Pin Mounts with Engraved and Numbered Divisions

Pin is 3.2mm ( $\frac{1}{8}$ " ) and 9mm ( $\frac{3}{8}$ " ) long.

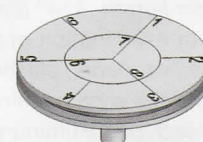
**16360**  $\phi$ 12.7mm pin mount with 3 divisions .....each



**16363**  $\phi$ 18mm pin mount with 3 divisions .....each



**16364**  $\phi$ 25mm pin mount with 9 divisions .....each





## Specimen Mounts and Holders for the FEI Phenom Desktop SEM *continued*

### ■ Specimen Holders/Adapters for the Phenom SEM

#### Hitachi M4 Adapter to pin stub

Hitachi M4 adapter to standard  $\frac{1}{8}$ " (3.2mm) pin stub. Enables the use of Hitachi mounts and specimen holders with M4 thread on SEMs with pin mount holder (FEI/Philips, Zeiss/LEO, Cambridge Instruments, Leica, Amray, Tescan and CamScan). Suitable for larger specimen holders. Pin length  $\frac{3}{8}$ ", table diameter  $\frac{5}{8}$ " (15.9mm). Made from Aluminum with stainless steel screw.

**15316** Adapter Pin to M4 Thread . . . . .each

#### Low Profile Hitachi M4 Adapter to Pin Mount

Low profile pin with standard  $\frac{1}{8}$ " (3.2mm) diameter with  $\frac{3}{8}$ " (9.5mm) length and 4mm M4 thread. Converts any Hitachi M4 type specimen mount into a pin stub style mount (FEI/Philips, Cambridge Instruments, Leica, Amray, Tescan and CamScan). Can also be used to adapt Hitachi specimen holders with M4 thread to pin stub mounts which are used on many SEM platforms. Made from aluminum.

**15319** Low Profile M4 to Pin Stub Adapter . . . . .each

### ■ JEOL or ISI/ABT/Topcon Mounts to Pin Stub

Small cylinder to pin mount adapter stubs. Enables the use of  $\varnothing 9.5$  and  $\varnothing 12.2$ mm JEOL or  $\varnothing 15$ mm ISI cylinder mounts on pin mount holder (FEI/Philips, Zeiss/LEO, Cambridge Instruments, Leica, Amray, Tescan and CamScan). Pin length  $\frac{3}{8}$ ". Material: Machined aluminum with stainless steel Allen screw, Allen wrench included.

**15301** JEOL or ISI cylinder mount adapter to Hitachi . . . . .each

### ■ 45° Pin Stub Holder

Accepts standard 12.7mm ( $\frac{1}{2}$ ") pin stubs with 3.2mm ( $\frac{1}{8}$ ") pin. 45° gives higher SE signal w/o tilting specimen stage. Grooved, machined aluminum with stainless steel Allen set screw. Allen wrench included.

**15329** 45° Pin Stub Holder, 3.2mm ( $\frac{1}{8}$ ") pin . . . . .each

### ■ Thin Specimen Split Mount on Pin Stub

12.7mm ( $\frac{1}{2}$ ") dia., 3.2mm ( $\frac{1}{8}$ ") dia. pin pin length .314" (8mm), 7.6mm thickness

For examination of thin samples from textiles, plants, paper, plastics, metals, etc., in cross section. Special wide opening up to 6.4mm ( $\frac{1}{4}$ "). Grooved head. Material: Machined aluminum with stainless steel allen set screw. Allen wrench included.

**15330** Thin Specimen Split Mount, 8mm L pin . . . . .each

### ■ Set Screw Vise

Single stainless steel set screw into an open slot that is 4mm (.157") wide x 5mm (.197") deep. 12.7mm ( $\frac{1}{2}$ ") dia. x 17.7mm (0.70") high; pin length 9.5mm. Material: Machined aluminum with stainless steel allen set screw. 3.2mm ( $\frac{1}{8}$ ") dia. pin. Allen wrench included.

**16350** Set Screw Vise, 12.7mm . . . . .each

### ■ Double Slotted Mini Vise

Double Slotted set screw vise with 1mm wide by 5mm deep slots, pin 3.2mm ( $\frac{1}{8}$ "). Clamp thin specimens and cross sections without the need for tape or conductive paint. Material: Machined aluminum with 2 stainless steel allen set screws. Allen wrench included.

**16340** Double Slotted Set Screw Vise,  $\varnothing 12.7$ mm . . .each

### ■ PELCO SEMClip™ Pin Mounts

**16119-10** PELCO SEMClip™,  $\varnothing 18$ mm Pin Mount, 1 clip . . . . .each



**16144-10** PELCO SEMClip™, 25mm Pin Mount, 1 clip . . . . .each

**16144-20** PELCO SEMClip™, 25mm Pin Mount, 2 clips . . . . .each

**16144-30** PELCO SEMClip™, 25mm Pin Mount, 3 clips . . . . .each

**16354-20** PELCO SEMClip™, 25mm Double 90°, 2 clips . . . . .each



**16143** PELCO SEMClip™, 12.5mm 90°, 1 clip . . . . .each

### ■ PELCO SEMClip™ Replacement Clips and Screws

SEMClip™ Clips are made from a spring grade beryllium-copper alloy. Thickness of clip is 0.25mm (0.01"), overall length is 12.7mm ( $\frac{1}{2}$ "), width at tip is 1.6mm ( $\frac{1}{16}$ ").

**16399** PELCO SEMClip™ Clips . . . . .pkg/10

**16399-10** PELCO SEMClip™ Screws, Brass, M2 x 3 .pkg/10





## PELCO® Specimen Mounts and Holders for the JEOL NeoScope Benchtop SEM

(distributed exclusively by Nikon)

A wide range of PELCO® sample holders has been designed especially for use in the JEOL NeoScope JSM-5000 Benchtop SEM (as distributed by Nikon). This will enable easy mounting of a wide variety of specimens for users of the Neoscope SEM. To use the sample holders the standard stage adapter needs to be replaced by the NeoScope Stage Adapter Kit (15398). The NeoScope Stage Adapter Kit includes a base plate adapter, 2 adjustable height pillars with M4 thread and a height gauge. All specimen holders have an M4 threaded hole and fit directly on the adjustable height adapter.

The wide range of PELCO® specimen holders will allow for investigation of a greater variety of specimens. Easy mounting of specimens will make the NeoScope Benchtop SEM more productive and will give access to more applications. There are also adapters available to accommodate pin stubs mounts which are used in other scanning electron microscopes. Hitachi style cylinder mounts with the M4 threaded hole fit directly on the adjustable height pillar. This enhanced versatility will allow users of the NeoScope Benchtop SEM to share specimens mounts used on other SEM platforms.

We also offer standard 25mm JEOL cylinder mounts which can be used on the sample holder supplied with the NeoScope JSM-5000 Benchtop SEM.



### ■ NeoScope Stage Adapter Kit

The NeoScope Benchtop SEM Adapter Kit needs to be fitted on the NeoScope specimen stage to enable using the PELCO® specimen holders. The adjustable height pillars allow for easy height adjustment needed for the NeoScope SEM. The top of the adjustable height pillar is fitted with an M4 screw, so any holder or mount with an M4 threaded hole can be mounted as long as the total height of the stage adapter, pillar, specimen holder and sample does not exceed a total height of 50mm. Just make sure the top of the specimen is level with the top of the height gauge supplied with the stage adapter kit and the specimen will fit into the NeoScope SEM. ⓘ



- 15398** NeoScope Stage Adapter Kit, includes base plate adapter, 18mm and 25mm adjustable height adapters and height gauge. . . . .each
- 15398-10** NeoScope Stage Base Adapter plate . . . . .each
- 15365-2** 18mm Adjustable Height Pillar . . . . .each
- 15374-2** 25mm Adjustable Height Pillar . . . . .each

### Specimen Holders for the NeoScope Benchtop SEM

(requires 15398 NeoScope Stage Adapter Kit)

#### ■ Adjustable Profile Holder

Designed to adjust the exact angle for cross sections made from wafers. Maximum specimen thickness 3.2mm (1/8"). Material: machined alu-

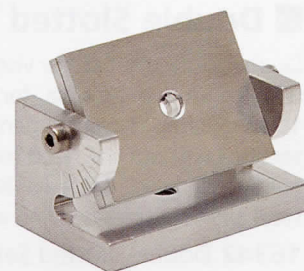


minum with brass and stainless steel allen set screws. Allen wrench included.

- 15356-4** Hitachi Adjustable Profile Holder, M4 . . . . .each

#### ■ Variable Tilt Specimen Holder

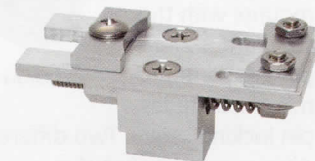
Accommodates specimens with a size up to 26 x 20mm or pin stubs up to 18mm (.7") diameter. Tilts 0 - 90° with 10° markings. Additional markings for 30°, 45°, and 70°. Tilt table size is 26 x 20mm, overall size is 33 x 20 x 19mm H. Made of aluminum with stainless steel allen screws. Allen wrench included.



- 15450-4** Variable Tilt Specimen Holder, M4 . . . . .each

#### ■ Adjustable Spring-Loaded Vise Clamp

The adjustable spring-loaded vise clamp holds various sizes and shapes of specimens. Vise clamps between 10 - 25mm. Made of vacuum grade aluminum and stainless steel. Vise size is 45 x 20mm.

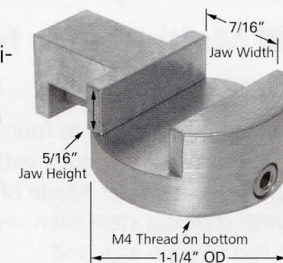


- 15384-2** Adjustable Spring-Loaded Vise Clamp . . . . .each

#### ■ Micro Vise Holder

Holds a variety of specimens. The maximum gap is 11mm (7/16"). The jaws are 25.4mm (1") wide. Made of aluminum with stainless steel allen screw. Allen wrench included.

- 15340-4** Micro Vise Holder, M4 . . . . .each



continued on next page

ⓘ = Tech Note on web page



### Specimen Holders for the NeoScope Benchtop SEM *continued*

(requires 15398 NeoScope Stage Adapter Kit)

#### ■ Thin Specimen Split Mount Holder

Simple but effective design to hold wafers and thin samples up to 3.2mm (1/8). 15mm dia x 10mm H. Made of aluminum with stainless steel allen screws. Allen wrench included.



**15335-4** Thin Specimen Split Mount Holder, M4 . . . . .each

#### ■ Set Screw Vise

Single Stainless Steel set screw into an open slot that is 4mm (.157") wide and 5mm (.197") deep. ø15 x 12mm x M4. Material: Machined aluminum with stainless steel allen set screw. Allen wrench included.



**16335** Set Screw Vise, ø15 x 12mm H, M4 . . . . .each

#### ■ Double Slotted Mini Vise

Double Slotted set screw vise with 1mm wide by 5mm deep slots, for JEOL, ø15 x 10mm. Clamp thin specimens and cross sections without the need for tape or conductive paint. Material: Machined aluminum with 2 stainless steel allen set screws. Allen wrench included.



**16342** Double Slotted Set Screw Vise, ø15mm . . . . .each

#### ■ Single Pin Stub Holders

For holding and viewing SEM mounts with the standard 3.2mm pin. Made of aluminum, includes a pin locking screw. Two different heights are available: 10, 15mm. Allen wrench included.

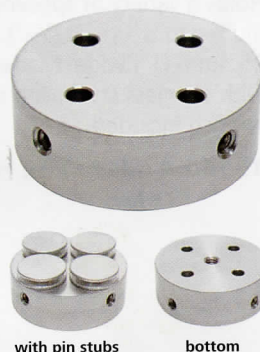


**15363-1** Single Pin Stub Holder ø15 x 10mm H . . . .each

**15363-2** Single Pin Stub Holder ø15 x 15mm H . . . .each

#### ■ Multi Holder for 4 Pin Stubs

Accommodates up to four standard 12.7mm (1/2") pin stubs with a 3.2mm (1/8") pin diameter. Made of aluminum with stainless steel allen set screws. Allen wrench included.



**15310-4** Multi Holder for 4 Pin Stubs . .each

#### ■ Cylinder Holder, 22mm (7/8")

Specimen holder for cylinders up to 22mm (7/8") diameter. Made of aluminum with stainless steel allen screw. Allen wrench included.



**15402** Specimen holder for cylinders up to 22mm (7/8") . . . . .each

#### ■ Metallographic Mount Holder, 1" and 25mm

Specimen holder for 1" or 25mm metallographic mounts. Made of aluminum with stainless steel allen screw. Allen wrench included.



**15403** Metallographic Mount Holder, 1" or 25mm . .each

#### ■ Metallographic Mount Holder, 1-1/4" and 30mm



Specimen holder for 1-1/4" or 30mm metallographic mounts. Made of aluminum with stainless steel allen screw. Allen wrench included.

**15404** Metallographic Mount Holder, 1-1/4" or 30mm each

#### ■ Metallographic Mount Holder, 1-1/2" and 40mm



Specimen holder for 1-1/2" or 40mm metallographic mounts. Made of aluminum with stainless steel allen screw. Allen wrench included.

**15405** Metallographic Mount Holder, 1-1/2" or 40mm each



## Specimen Holders for the NeoScope Benchtop SEM *continued*

(requires 15398 NeoScope Stage Adapter Kit)

### ■ Round Bulk Specimen Holder

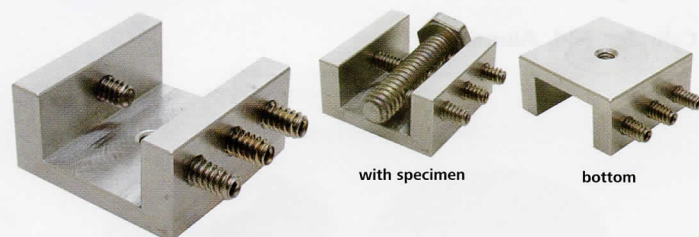


15308-4 holding a specimen

The round bulk specimen holder holds irregular and round specimens up to a diameter of 32mm (1-1/4"). Made of aluminum with two sets of stainless steel allen screws. Allen wrench included. Holder size is  $\varnothing 39.3 \times 12.4$ mm.

**15308-4** Round Bulk Specimen Holder, M4 . . . . .each

### ■ Square Bulk Specimen Holder



with specimen

bottom

Versatile specimen holder to clamp irregular or long shaped specimens. Opening is 15.9W x 25.4L x 9.5mm D ( $\frac{5}{8}$ " x 1" x  $\frac{3}{8}$ "). Made of aluminum with stainless steel allen screws. Allen wrench included. Body is 25.4 x 25.4 x 12.7mm high.

**15320-4** Square Bulk Specimen Holder, M4 . . . . .each

### ■ Multipurpose Specimen Holder



with specimen

bottom

Accepts up to 25.4mm (1") diameter specimens. The slotted design also allows for clamping elongated or rod shaped specimens. Made of aluminum with stainless steel allen screw. Allen wrench included.

**15305-4** Multi Purpose Specimen Holder, M4 . . . . .each

### ■ 45°/90° Combination Holder



shown holding silicon chip and pin stub

bottom

Combined specimen holder for 90° cross sections of wafers or thin samples up to 6.35mm ( $\frac{1}{4}$ ") and a pin stub at 45°. Made of aluminum with stainless allen steel set screws. Allen wrench included.

**15358-4** 45°/90° Combination Holder, M4 . . . . .each

### ■ Multi Holder for 5 JEOL Stubs



shown holding mounts

bottom

Holds up to five 9.5mm JEOL cylinder mounts. Made of aluminum with stainless steel allen set screws. Allen wrench included.

**15315-4** Multi Specimen Holder for JEOL Stubs, M4 .each

### ■ JEOL or ISI/ABT/Topcon mounts Adapter

Small cylinder mount adapter accommodates JEOL or ISI/ABT/Topcon cylinder mounts up to 15mm diameter. Enables the use of  $\varnothing 9.5$  and  $\varnothing 12.2$ mm JEOL or  $\varnothing 15$ mm ISI/ABT/Topcon cylinder mounts. Made from aluminum with stainless steel allen screw, Allen wrench included.



**15401** Adapter for Cylinder Mounts, M4 . . . . .each

### ■ PELCO SEMClip™ Cylinder Mounts for the NeoScope Benchtop SEM

(requires 15398 NeoScope Stage Adapter Kit)

The PELCO SEMClip™ mounts can be used to hold flat thin samples with a thickness of 2mm. Made of aluminum with copper spring clips. Extended Button (15372-10) is needed when used with the Dovetail Stage Adapters (15371 or 15392).



back view

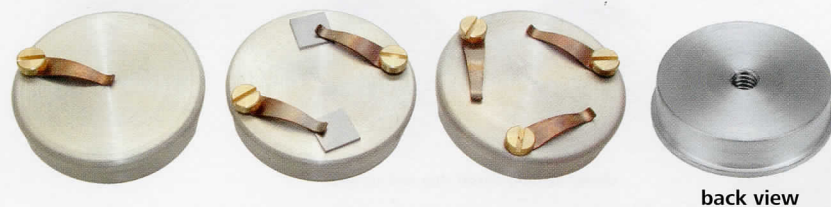
**16324-10** PELCO SEMClip™, 15 x 6mm x M4 Cylinder Mount, 1 clip . . . . .each

*continued on next page*

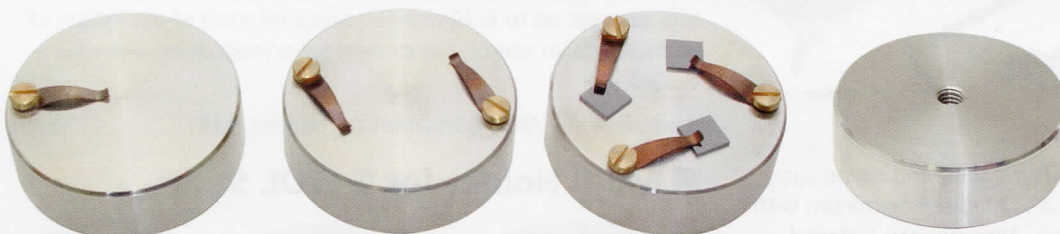


### Specimen Holders for the NeoScope Benchtop SEM *continued*

(requires 15398 NeoScope Stage Adapter Kit) (see page 000)



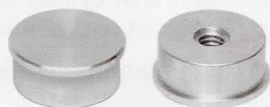
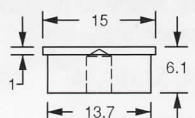
- 16327-10** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 1 clip . . . . .each
- 16327-20** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 2 clips . . . . .each
- 16327-30** PELCO SEMClip™, 25 x 6mm, M4, Cylinder Mount, 3 clips . . . . .each



- 16326-10** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 1 clip . . . . .each
- 16326-20** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 2 clips . . . . .each
- 16326-30** PELCO SEMClip™, 32 x 10mm, M4, Cylinder Mount, 3 clips . . . . .each

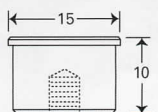
### ■ SEM Mounts fitting the NeoScope Stage Adapter Kit

Cylinder, M4, Aluminum



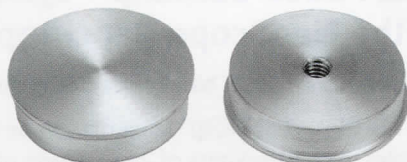
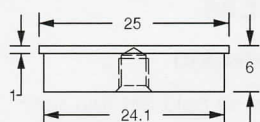
- 16324** Specimen Mount, M4, 15 x 6mm . . . . .pkg/10, 50 or 100

Cylinder, M4, Aluminum



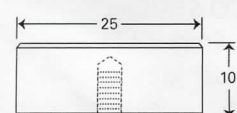
- 16322** Specimen Mount, M4, 15 x 10mm . . . . .pkg/10, 50 or 100

Cylinder, M4, Aluminum



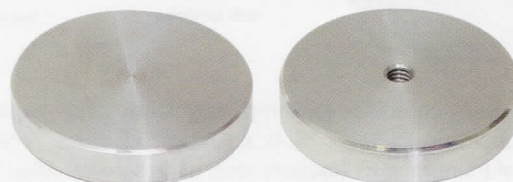
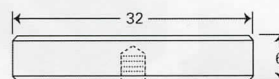
- 16327** Specimen Mount, M4, 25 x 6mm . . . . .pkg/10, 50 or 100

Cylinder, M4, Aluminum



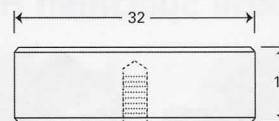
- 16323** Specimen Mount, M4, 25 x 10mm . . . . .pkg/10 or 50

Cylinder, M4, Aluminum



- 16325** Specimen Mount, M4, 32 x 6mm . . . . .pkg/10 or 50

Cylinder, M4, Aluminum



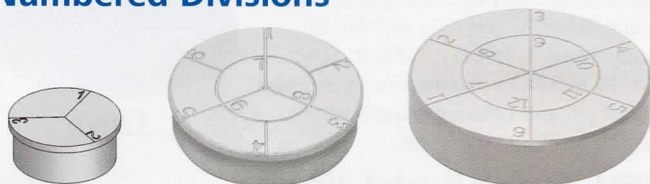
- 16326** Specimen Mount, M4, 32 x 10mm . . . . .pkg/10 or 50



## Specimen Holders for the NeoScope Benchtop SEM *continued*

(requires 15398 NeoScope Stage Adapter Kit)

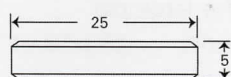
### Mounts with Engraved and Numbered Divisions



- 16362**  $\varnothing 12.2 \times 10$ mm Cylinder Mount  
with 3 divisions .....pkg/1 or 10
- 16366**  $\varnothing 25 \times 8$ mm Cylinder Mount  
with 9 divisions .....pkg/1 or 10
- 16369**  $\varnothing 32 \times 10$ mm Cylinder Mount  
with 12 divisions .....pkg/1 or 10

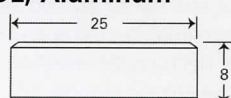
### JEOL 25mm Cylinder Mounts & SEMClips™

JEOL, Aluminum



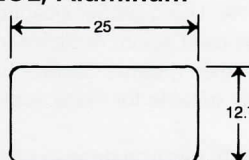
- 16150** Specimen Mount,  $\varnothing 25 \times 5$ mm .....pkg/10 or 50

JEOL, Aluminum



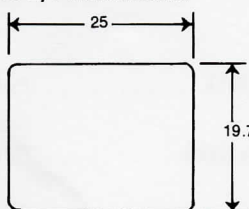
- 16151** Specimen Mount,  $\varnothing 25 \times 8$ mm .....pkg/10 or 50

JEOL, Aluminum



- 16152** Specimen Mount,  $\varnothing 25 \times 12.7$ mm ....pkg/10 or 50

JEOL, Aluminum



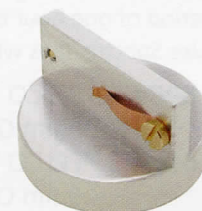
- 16156** Specimen Mount,  $\varnothing 25 \times 19.7$ mm ....pkg/10 or 50

### 25mm PELCO SEMClips™ FOR JEOL



- 16151-10** PELCO SEMClip™, 25 x 6mm Cylinder Mount,  
1 clip .....each
- 16151-20** PELCO SEMClip™, 25 x 6mm Cylinder Mount,  
2 clips .....each
- 16151-30** PELCO SEMClip™, 25 x 6mm Cylinder Mount,  
3 clips .....each

- 16358-20** PELCO SEMClip™,  
25 x 16mm Cylinder Mount,  
Double 90°, 2 clips ..each



### PELCO SEMClip™ Replacement Clips and Screws

PELCO SEMClip™ Clips are made from a spring grade beryllium-copper alloy. Thickness of clip is 0.25mm (0.01"), overall length is 12.7mm (1/2"), width at tip is 1.6mm (1/16").

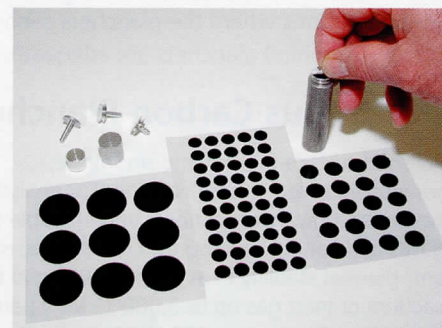


- 16399** PELCO SEMClip™ Clips .....pkg/10
- 16399-10** PELCO SEMClip™ Screws Brass, M2 x 3 .....pkg/10

### PELCO Tabs™ Carbon Conductive Tabs, Double Coated

The simplicity of application and smooth, clean surfaces of PELCO Tabs™ Carbon Conductive Tabs are a significant improvement compared to many of the other common adhesives that have been used in SEM mounting.

Both tab sides have a thick conductive adhesive (conductive inner tab is 35 $\mu$ m and the adhesive is 45 $\mu$ m on each side for a total thickness of 125 $\mu$ m [5 mils]) with a liner on both sides, a transparent liner and white liner respectively. They are ready for immediate use. The top protective liner does not have to be removed until the sample is ready to be mounted. This reduces possible contamination. Out-gassing is negligible.



*Continued on next page*



# SEM SUPPLIES

## Carbon Tabs; Vitreous Carbon Planchets; Carbon Planchets; Beryllium Planchets

### ■ PELCO Tabs™ Carbon

#### Conductive Tabs, Double Coated *continued*

Application of the tab to a mount or surface should be done slowly and carefully to maintain surface smoothness. The conductive adhesive is a carbon filled acrylic, free of solvents. It can be removed from the specimen mount with ethyl acetate, ethanol, isopropanol, alcohols or our 3M® Adhesive Remover 80924 which is solvent-free. Temperature maximum is 60°C (140°F). Small impurities of Si, Sb, S and very small impurities of Fe, Mg and Na can be found.

This product may also be used for gunshot residue analysis. Many laboratories use these tabs for SEM in a large diversity of applications. Refrigeration will increase shelf life but a warm up period of one hour is then required before use. **M** (Use Spectro Tabs where a purer composition is required.)

- 16084-6** PELCO Tabs™ Carbon Conductive Tabs, 6mm OD .....pkg/112
- 16084-3** PELCO Tabs™ Carbon Conductive Tabs, 9mm OD .....pkg/98
- 16084-1** PELCO Tabs™ Carbon Conductive Tabs, 12mm OD .....pkg/100
- 16084-2** PELCO Tabs™ Carbon Conductive Tabs, 25mm OD .....pkg/54

### Vitreous Carbon and Carbon Planchets

Vitreous carbon and carbon (graphite) planchets are ideal substrates for X-ray analysis and backscattered electron imaging in a SEM or electron microprobe. The spectroscopically pure carbon provides an excellent conductive, low emission X-ray background free of any characteristic X-ray peaks except carbon. Carbon planchets are favored over the non-conductive diamond (vitreous) planchets (charging will have negative effects on the analytical results and can distort X-ray mapping and imaging).

The carbon planchets can be cleaned and used again. For fine powders and imaging applications the vitreous carbon is the best choice. For X-ray applications of larger particles or specimens or for applications where the planchets cannot be used again, the carbon (graphite) planchets are adequate.

### ■ Vitreous Carbon Planchets

Polished surface for extreme smoothness, sometimes called "glassy" carbon. For analytical work, X-ray investigations. Impermeable to gases and liquids, high purity, corrosion resistant, thermal stability in air up to 550°C and in vacuum or inert gas up to 3,000°C. Very hard and strong (hardness = 230 HV1). Applications in the fields of chemical analysis, metallurgy, crystal growth, medical technology and in glass and ceramics research. **M** ("MF" = Mirror Finish).



- 16524** MF Vitreous Carbon Planchet 12.7mm diameter x 2mm .....each
- 16526** MF Vitreous Carbon Planchet 25mm diameter x 3mm .....each
- 16528** MF Vitreous Carbon Planchet 32mm diameter x 3.2mm .....each

### ■ Carbon Planchets



Spectroscopically pure, fine ground finish on one side; 0.80µm (32µ inches). All planchets are 1.6mm (1/16") thick. Sizes from 10 to 32mm diameter to fit all styles of SEM pin and cylinder mounts varying from 10 to 32mm diameter.

- 16504** Graphite Planchet, 10mm, for JEOL 10mm mounts .....pkg/10 or 100
- 16500** Graphite Planchet, 12.7mm, for pin stubs .....pkg/10 or 100
- 16505** Graphite Planchet, 15mm, for Hitachi and ISI/ABT/Topcon mounts .....pkg/10 or 100
- 16508** Graphite Planchet, 18mm, for 18mm pin stubs .....pkg/10 or 100
- 16510** Graphite Planchet, 25.4mm, for large pin stubs, JEOL metallographic mounts and Hitachi 25mm mounts .....pkg/10 or 100
- 16512** Graphite Planchet, 32mm, for large pin stubs, Hitachi and JEOL mounts ..pkg/10 or 100

### ■ Beryllium Planchets for X-Ray Analysis



Beryllium offers an ideal background for X-ray analysis and backscattered electron imaging using an SEM or microprobe analyzer. The low atomic number of

Beryllium (4) and the high purity of the planchets virtually eliminates characteristic X-ray peaks and will give a low background radiation. The planchets are made of Beryllium with a 99% or better purity and any of the possible impurities will not exceed 0.08%. In fact most of the possible impurities are well below 0.01%. Using proper cleaning and safety procedures the planchets can be used again. Available in three sizes to fit the most widely used specimen mounts. Surface finish is smooth: 1.6µm or less and is perfectly suitable for many applications.

**Warning:** Cleaning and handling of Beryllium must be done in such a way that it does not generate particulates which are toxic when inhaled. An alternative for beryllium planchets could be graphite planchets which also gives a low background and virtually no characteristic peaks other than carbon.

- 1655** Beryllium Planchet, 10mm diameter, 0.25mm thick .....each
- 1655-B** Beryllium Planchet, 12.7mm diameter, 0.25mm thick .....each
- 1656** Beryllium Planchet, 25.4mm diameter, , 0.25mm thick .....each

**M** = MSDS on web page



## SEM Specimen Mount Grippers

*for grasping scanning electron microscopy pin stub and cylinder specimen mounts*

### ■ Grooved Edge SEM Mount Grippers

Stainless steel gripper tweezers specially made for handling and transporting grooved SEM pin stub mounts. Sizes available are 12.7, 25 and 32mm (½", 1" and 1-¼") used in FEI/Philips, ZEISS/LEO, Leica, AMRAY, Cambridge Instruments, ETEC SEM's.

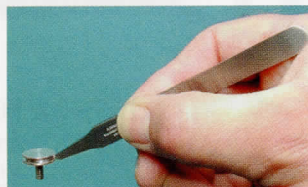
#### 30° Angle for 12.7mm (½") diameter Grooved Pin Stubs



*Dumont*

Non-magnetic tweezer style SEM mount gripper for holding standard grooved pin stub mounts.

Conveniently grasp the grooved head of a scanning electron microscopy pin stub mount.



**1664** SEM Pin Stub Mount Gripper Tweezers, NM, 30° angle, 117mm long, for 12.7mm pin stubs . . .each

#### 45° Angle for 12.7mm (½") diameter Grooved Pin Stubs



PELCO® SEM Mount Tweezers for handling grooved pin stubs. Conveniently grasp the grooved head of SEM pin stubs with 12.7mm diameter. Stainless steel, 45° angle, 114mm long.

**1663-12** PELCO® SEM Pin Stub Mount Gripper Tweezers, St. St., 45° angle, 114mm long, for 12.7mm pin stubs . . .each

#### Tweezer Style 57° Angle for 12.7mm (½") diameter Grooved Pin Stubs



PELCO® Tweezer Style Pin Stub Mount Gripper, holds pin stub SEM mounts, 12.7mm dia. with grooved edge. Stainless steel, 57° angle, 100mm long.



**1667** PELCO® Tweezer Style Pin Stub Mount Gripper, 57° angle, 100mm long . .each

#### Short-Handled SEM Mount Gripper for Grooved 12.7mm (½") diameter Pin Stubs



**1661** PELCO® Short-handled SEM Gripper for grooved 12.7mm pin stubs, 90mm L . . . . .each

#### Long-Handled SEM Gripper for Grooved 12.7mm (½") diameter Pin Stubs



**1662** PELCO® Long-handed Pin Stub SEM Gripper, 130mm L . . . . .each

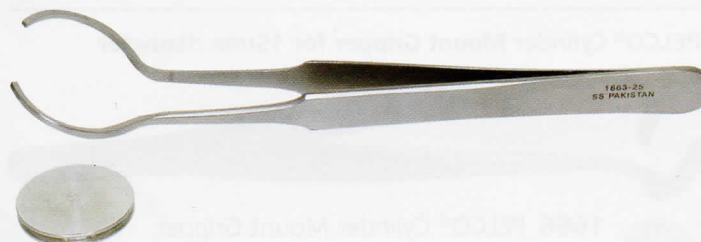
#### Mount Gripper for Grooved 25mm (1") diameter Pin Stub Mounts



**1660** PELCO® SEM Pin Stub Mount Gripper for 25mm (1") diameter, 137mm L . . . . .each

#### Tweezer Style Mount Gripper for Grooved 25mm (1") diameter Pin Stub Mounts, 45° angle

Stainless Steel.



**1663-25** PELCO® SEM Pin Stub Mount Gripper for 25mm (1") diameter, 154mm L . . . . .each

*continued on next page*



# SEM SUPPLIES

## SEM Mount Grippers; SEM Specimen Mount Storage

### ■ Grooved Edge SEM Mount Grippers

continued

**Tweezer Style Mount Gripper for Grooved 32mm (1.25") diameter Pin Stub Mounts, 45° angle**

Stainless Steel.



**1663-32** PELCO® SEM Pin Stub Mount Gripper for 32mm (1.25") diameter, 154mm L . . . . .each

### ■ Cylinder Mount SEM Grippers

Stainless steel, tweezer style grippers with a convenient angle for easy handling and transporting of many types of SEM cylinder mounts. Size ranges from 10-32mm diameter, for JEOL, Hitachi, and ISI/ABT/Topcon mounts.

**PELCO® Cylinder Mount Gripper for 10mm diameter**



**1665** PELCO® Cylinder Mount Gripper, for 10mm diameter, 130mm L . . . . .each

**PELCO® Cylinder Mount Gripper for 12.2 and 12.5mm diameter**



**1659-12** PELCO® Cylinder Mount Gripper, for 12.2 and 12.5mm diameter, 149mm L . . . . .each

**PELCO® Cylinder Mount Gripper for 15mm diameter**



**1666** PELCO® Cylinder Mount Gripper, for 15mm diameter, 140mm L . . . . .each

**PELCO® Cylinder Mount Gripper for 25mm diameter**



**1659-25** PELCO® Cylinder Mount Gripper, for 25mm diameter, 153mm L . . .each

**PELCO® Cylinder Mount Gripper for 32mm diameter**



**1659-32** PELCO® Cylinder Mount Gripper, for 32mm diameter, 154mm L . . . . .each

## SEM Specimen Mount Storage

### ■ PELCO® 18 SEM Pin Mount Storage Holder and Box



Versatile, cost effective SEM pin mount storage box and holder for pin mounts with a 3.2mm (1/8") pin. Numbered 1-18 with the spacing designed to accommodate all types of pin mounts with a diameter from 6.4 to 50mm. Can hold 18 of 12.7mm pin mounts, 8 of 25mm pin mounts, 2 of 32 or 38 or 50mm pin mounts with space left for the smaller pin mounts. Maximum specimen space (between mount surface and closed lid) is 16mm (5/8"). Used for FEI/Philips, ZEISS/LEO, Leica, Cambridge Cam-Scan, Tescan, Amray and ETEC SEMs.

**16709** SEM Storage Box and Holder for up to 18 of 12.7mm pin mounts . . . . .each



## SEM Specimen Mount Storage *continued*

### ■ Plastic Box with SEM Pin Mount Specimen Holder



The 16700 "Standard" plastic box with 16125 pin stub specimen holder. For 12.7mm (1/2") diameter SEM pin mounts with 3.2mm (1/8") pin diameter. Used for FEI/Philips, ZEISS/LEO, Leica, Cambridge, CamScan, Tescan, Amray and Etec SEMs.

**16120** SEM Storage Box and Holder  
for up to 18 of 12.7mm pin mounts . . . . .each

### ■ Plastic Box with JEOL 9.5mm SEM Cylinder Mount Specimen Holder



The 16700 "Standard" plastic box with 16135 specimen holder. For 9.5mm (3/8") diameter JEOL cylinder mounts.

**16130** Plastic Box, Standard, with Cylinder Mount Specimen Holder, 9.5mm diameter . . . . .each

### ■ Plastic Box with JEOL 12.5mm SEM Cylinder Mount Specimen Holder



The 16700 "Standard" plastic box with 16136 specimen holder. For 12.5mm diameter JEOL cylinder mounts.

**16140** Plastic Box, Standard, with Cylinder Mount Specimen Holder, 12.5mm diameter . . . . .each

**Note:** To order boxes and holders separately, see "Specimen Storage" on page 562-563.

### ■ Plastic Box for Tall Specimens with SEM Pin Mount Specimen Holder



The 16704 "Tall" plastic box with 16125 SEM pin mount specimen holder. Slip over retaining peg is included to keep holder in place if box is tipped or inverted.

For tall specimens, 3.2mm (1/8") pins.

**16713** Plastic Box "Tall" with Pin Mount Specimen Holder . . . . .each

### ■ Plastic Box for Tall Specimens with JEOL 9.5mm SEM Cylinder Mount Specimen Holder



The 16704 "Tall" plastic box with 16135 JEOL 9.5mm specimen holder. Slip over retaining peg is included to keep holder in place if box is tipped or inverted.

For tall specimens, 9.5mm (3/8") JEOL cylinder mounts.

**16715** Plastic Box "Tall" with Cylinder Mount Specimen Holder, 9.5mm diameter . . . . .each

### ■ Plastic Box for Tall Specimens with JEOL 12.5mm SEM Cylinder Mount Specimen Holder



The 16704 "Tall" plastic box with 16136 specimen holder. Slip over retaining peg is included to keep holder in place if box is tipped or inverted. For 12.5mm diameter JEOL cylinder mounts.

**16705** Plastic Box "Tall" with Cylinder Mount Specimen Holder, 12.5mm diameter . . . . .each

Price breaks for quantities are available for most storage boxes and holders.



### SEM Specimen Mount Storage *continued*

#### ■ Universal Specimen Holder with Tall Storage Box

Universal Specimen Holder 16166 with removable stand-off pin that keeps the holder in place if box is tipped or inverted and Storage Box 16708.



- 2-sided use for double versatility
- Accepts pin-type or cylinder mounts
- 3.2mm (1/8") pin diameter - holds 12, either side (FEI/Philips, ZEISS/LEO, Leica, Cambridge, CamScan, Tescan, Amray and ETEC SEMs.)
- 9.5mm (3/8") - holds 12 on one side (JEOL)

- 15mm diameter mounts - holds 12 on one side (JEOL, ISI/ABT/Topcon)

**16160** Universal Specimen Holder and Tall Storage Box, .....each

#### ■ SEM Specimen Storage Boxes for Hitachi Mounts



**16712** holding 12 each 15mm mounts. M4 Metal screws hold mounts (Hitachi).

A storage box accepting M4 threaded Hitachi Mounts. Holds either 12 each of 15mm or 6 each of 25mm mounts (16712). Also available in "Plastic Posts" support instead of screws.



**16718** utilizing plastic posts for holding mounts (Hitachi).



**16712** holding 6 each 25mm mounts. M4 metal screws hold mounts (Hitachi)

**16712** 15/25mm Hitachi Mount Holder, M4 Metal Screws and Box .....each

**16718** 15/25mm Hitachi Mount Holder, Plastic Posts and Box .....each

#### ■ SEM Pin Mount Specimen Holder and Box



Specimen holder and box for storing up to 8 of 12.7mm (1/2") diameter pin mounts with 3.2mm (1/8") pin diameter, used in FEI/Philips, ZEISS/LEO, Leica, Cambridge, CamScan, Tescan, Amray and ETEC SEMs.

**16716** Plastic Box/Holder for 8 of 12.7mm diameter pin mounts .....each

#### ■ 14 SEM Pin Mount Specimen Holder and Box



Storage Box and Holder for 14 of 12.7mm diameter or 8 of 25mm diameter pin mounts with 3.2mm (1/8") pin diameter. Numbered 1 - 14. Used for FEI/Philips, ZEISS/LEO, Leica, Cambridge, CamScan, Tescan, Amray and ETEC SEMs.

**16717** Plastic Box/Holder for 14 of 12.7mm diameter pin mounts .....each

#### ■ Single Pin Mount Storage, Mailer



Tube for SEM Specimen Pin Mounts.

The pin mount, 3.2mm (1/8") pin diameter, is protected and held securely in the base (cap) of the tube. Can be used for pin mounts up to 18mm diameter.

**16630** Single Mount Storage Mailer .....pkg/10



**SEM Specimen Mount Storage** *continued***SEM-STOR Paper Box Storage for Pin Mounts**

*inexpensive storage for scanning electron microscopy mounts*

Fold-up insert which accepts 8 specimen mounts: 1/2" (12.7mm) head, 1/8" (3.2mm) diameter pin. Shipped flat. 7cm long x 3.8cm wide x 3.5cm high (2-3/4 x 1-1/2 x 1-3/8")

**16612 SEM-STOR**  
Paper Box . . . . .pkg/100

**Wooden Storage Box**

Wooden storage box for up to 128 of 12.5mm dia. pin mounts.

**16714** Wooden Box for 125 12.5 dia. pin mounts . . .each

**Storage Cabinet for Pin-Type SEM Specimen Mounts**

This sturdy metal cabinet stores 2240 pin type mounts (our 16111 and other pin-types we list) in 10 drawers. The rows are indexed for identification. The front door seals to minimize moisture and dust affecting the contents. Outside dimensions: 55 x 42 x 63cm (22" x 16.8" x 25.2").

**16123** Storage Cabinet for Pin Mount Specimens . . .each

**Mini Desiccator**

This small desiccator is 75mm in diameter and holds 12 pin-type specimen mounts under vacuum, shielded from moisture or dust. Its flat design permits easy stacking and is shatterproof. The Mini-Desiccator is ideal for transporting sensitive specimens.

**16190** Mini Desiccator . . . . .each

**PELCO® SEM Specimen Preparation Station**

**PELCO® SEM Specimen Preparation Station Side 1**



**PELCO® SEM Specimen Preparation Station Side 2**

Solid aluminum support holds 10 specimen mounts in an upright position for mounting or adjusting specimens. Each station is 3" (7.5cm) diameter by 1" (2.5cm) thick and can hold 10mm (.394") or 15mm (.591") diameter mounts on one side or 10 of the 3.1mm (1/8") pin mounts on the other side. Therefore, each PELCO® SEM Specimen Preparation Station will accommodate three different specimen mount types. Each mount cavity is numbered for easy identification and the station itself is impervious to most organic solvents.

**15012** PELCO® SEM Specimen Preparation Station . . .each

**Sample-Storr™ Containers, Cylindrical**

These plastic containers are designed for drying, preserving, storing and even shipping samples and will hold vacuum for months. Vacuum pump built into the top removes air with manual

strokes. Rubber O-ring-sealed cover maintains vacuum. Achieves a vacuum of better than 200 inches of water. A release button on top allows air into the container to remove the lid. Use desiccants to keep material dry. Ideal for storing specimens, calibration standards and SEM holders. Diameter of all three sizes is 10.5cm (4-3/4"). Heights are 10.5cm, 14.9cm and 18.1cm (4-3/4", 5-7/8" and 7-1/8")

**16192** Sample-Storr™ Container, 0.6 liter . . . . .each

**16193** Sample-Storr™ Container, 0.85 liter . . . . .each

**16194** Sample-Storr™ Container, 1.1 liter . . . . .each

**Sample-Storr™ Containers, Rectangular**

Includes a horizontal side handle pressure pump and humidity gauge.

Size: 30 x 22.9 x 25.4cm and 21.6 x 17.8 x 16.5cm (11.8" x 9" x 10" and 8.5" x 7" x 6.5")

**16195** Sample-Storr™ Container, 3 liter . . . . .each

**16196** Sample-Storr™ Container, 11.5 liter . . . . .each