

Specialised Hitachi SEM Stubs

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|---------------|--|------------|
| S570 | Hitachi 15mm Ø x 10mm M4 angled SEM sample stub 45° Al | each |
| S570/1 | Hitachi 15mm Ø x 10mm M4 angled SEM sample stub 45° Al | pack of 10 |
| S571 | Hitachi 25mm Ø x 16mm M4 angled SEM sample stub 45° Al | each |
| S571/1 | Hitachi 25mm Ø x 16mm M4 angled SEM sample stub 45° Al | pack of 10 |
| S572 | Hitachi 15mm Ø x 11mm M4 angled SEM sample stub 45° & 90° Al | each |
| S572/1 | Hitachi 15mm Ø x 11mm M4 angled SEM sample stub 45° & 90° Al | pack of 10 |
| S573 | Hitachi 25mm Ø x 16mm M4 angled SEM sample stub 45° & 90° Al | each |
| S573/1 | Hitachi 25mm Ø x 16mm M4 angled SEM sample stub 45° & 90° Al | pack of 10 |
| S574 | Hitachi 25mm Ø x 16mm M4 angled SEM stub, double 90° Al | each |
| S574/1 | Hitachi 25mm Ø x 16mm M4 angled SEM stub, double 90° Al | pack of 10 |
| S575 | Hitachi 32mm Ø x 12mm M4 angled SEM sample stub 45° & 90° Al | each |
| S575/1 | Hitachi 32mm Ø x 12mm M4 angled SEM sample stub 45° & 90° Al | pack of 10 |
| S576 | Hitachi 15mm Ø x 10mm M4 dish SEM sample stub, Al | pack of 5 |
| S576/1 | Hitachi 15mm Ø x 10mm M4 dish SEM sample stub, Al | pack of 10 |
| S576/2 | Hitachi 15mm Ø x 10mm M4 dish SEM sample stub, Al | pack of 50 |



Pin Stubs with SEM Sample Clips

The S-Clip sample holders comprise one or more spring loaded sample clips either on an SEM sample stub or holder. The spring loaded S-clips are specifically designed to hold thin specimens up to 2mm. Optional elevating (blocks) pillars are available to accommodate thicker samples. Washers can also be used to increase the clamping height.

The S-clips are made from conductive spring grade copper alloy mounted with a small M2 screw which allows the clip to rotate. Samples are clamped securely without the need for adhesives or conductive pastes. Sample changing is quick, easy and clean; contamination issues due to adhesives or glues are eliminated. They are ideal to hold Si chips and other thin samples. The S-Clip sample holders are available to hold samples horizontal (flat), at 45° or at 90°. The 45° and 90° are useful for holding cross sections of thin samples and wafer pieces. S-Clip sample holders are a cost effective alternative for the 1"-3" wafer holders. They can hold the smaller 1" (25.4mm), 2" (51mm) and 3" (76mm) wafers if it is allowed to hold the wafer down with clips:

38mm stub diameter is suitable for 1" (25.4mm) wafers: 63mm stub diameter is suitable for 2" (51mm) wafers and 100mm stub diameter is suitable for 3" (76mm) wafers.

The S-Clips are also separately available to enable customers to make their own custom made sample clip holders. Dimensions are 12.8mm long, tip is 1.6mm wide, height is 1.5mm with a 2.2mm Ø hole for mounting with an M2 screw. Made from 0.25mm thin spring grade copper alloy. Included with the S-clips are the M2 (x3) mounting screws.

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| S587 | 19mm Ø standard pin stub with 1 x S-Clip for FEI/Philips, LEO etc | |
| S588 | 19mm Ø short (6mm) pin stub with 1 x S-Clip for Zeiss | |
| S577/1 | 25mm Ø x 9mm pin stub with 1 clip for FEI/Philips, ZEISS/LEO, Cambridge, each | |
| S577/2 | 25mm Ø x 9mm pin stub with 2 clips for FEI/Philips, ZEISS/LEO, Cambridge, each | |
| S577/3 | 25mm Ø x 9mm pin stub with 3 clips for FEI/Philips, ZEISS/LEO, Cambridge, each | |

Shorter version

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|---------------|---|------|
| S578/1 | 25mm Ø x 6mm pin stub with 1 clip for ZEISS/LEO, SEM, FIBs | each |
| S578/2 | 25mm Ø x 6mm pin stub with 2 clips for ZEISS/LEO, SEM, FIBs | each |
| S578/3 | 25mm Ø x 6mm pin stub with 3 clips for ZEISS/LEO, SEM, FIBs | each |

| | | |
|---------------|--|--|
| S579/1 | 32mm Ø x 9mm pin stub with 1 clip for FEI/Philips, ZEISS/LEO, Cambridge, each | |
| S579/2 | 32mm Ø x 9mm pin stub with 2 clips for FEI/Philips, ZEISS/LEO, Cambridge, each | |
| S579/3 | 32mm Ø x 9mm pin stub with 3 clips for FEI/Philips, ZEISS/LEO, Cambridge, each | |

| | | |
|---------------|--|--|
| S580/1 | 38mm Ø x 9mm pin stub with 1 clip for FEI/Philips, ZEISS/LEO, Cambridge, each | |
| S580/2 | 38mm Ø x 9mm pin stub with 2 clips for FEI/Philips, ZEISS/LEO, Cambridge, each | |
| S580/3 | 38mm Ø x 9mm pin stub with 3 clip for FEI/Philips, ZEISS/LEO, Cambridge, each | |



Pin Stubs with Sample Clips cont...



S581/1 50mm Ø x 6mm pin stub with 1 clip for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S581/2 50mm Ø x 6mm pin stub with 2 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S581/3 50mm Ø x 6mm pin stub with 3 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S581/4 50mm Ø x 6mm pin stub with 4 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S581/8 50mm Ø x 6mm pin stub with 8 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S582/2 63mm Ø x 6mm pin stub with 2 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S582/3 63mm Ø x 6mm pin stub with 3 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S582/4 63mm Ø x 6mm pin stub with 4 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S583/1 100mm Ø x 6mm pin stub with 1 clip for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S583/2 100mm Ø x 6mm pin stub with 2 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S583/3 100mm Ø x 6mm pin stub with 3 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S583/4 100mm Ø x 6mm pin stub with 4 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S583/8 100mm Ø x 6mm pin stub with 8 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#), each

S-Clips 45° & 90° on 25.4mm Ø & 12.7mm Ø Pin Stubs

S589 S-Clip sample holder with 1 clip 45° on 25.4mm Ø pin stub each

S590 S-Clip sample holder swivel mount with 1 S-Clip on 25.4mm Ø pin stub each

S591 S-Clip sample holder with 2x S-Clips 45°/90° on 25.4mm Ø pin stub each

S592 S-Clip sample holder with 2x S-Clips double 90° on 25.4mm Ø pin stub each

S593 S-Clip sample holder with 1x S-Clip at 90° on 12.7mm Ø pin stub each

S594 S-Clip sample holder with 4x S-Clips at 90° on 12.7mm Ø pin stub each

S595 S-Clip sample holder with 4x S-Clips at 45° & 90° on pin stub each

S596 S-Clip sample holder with 10x S-Clips at 90° on 10 x 50mm pin stub each

S-Clips on M4 Hitachi Stubs

S597 S-Clip sample holder with 1x S-Clip on 15mm Ø x 10mm stub, M4 each

S598 S-Clip sample holder with 1x S-Clip on 25mm Ø x 10mm stub, M4 each

S598/2 S-Clip sample holder with 2x S-Clip on 25mm Ø x 10mm stub, M4 each

S598/3 S-Clip sample holder with 3x S-Clip on 25mm Ø x 10mm stub, M4 each

S599 S-Clip sample holder with 1x S-Clip on 32mm Ø x 10mm stub, M4 each

S599/2 S-Clip sample holder with 2x S-Clip on 32mm Ø x 10mm stub, M4 each

S599/3 S-Clip sample holder with 3x S-Clip on 32mm Ø x 10mm stub, M4 each

S630 S-Clip sample holder with 1x S-Clip on 50mm Ø x 6mm stub, M4 each

S630/1 S-Clip sample holder with 2x S-Clip on 50mm Ø x 6mm stub, M4 each

S630/3 S-Clip sample holder with 3x S-Clip on 50mm Ø x 6mm stub, M4 each

S630/4 S-Clip sample holder with 4x S-Clip on 50mm Ø x 6mm stub, M4 each

S631 S-Clip sample holder with 1x S-Clip on 63mm Ø x 6mm stub, M4 each

S631/2 S-Clip sample holder with 2x S-Clip on 63mm Ø x 6mm stub, M4 each

S631/3 S-Clip sample holder with 3x S-Clip on 63mm Ø x 6mm stub, M4 each

S631/4 S-Clip sample holder with 4x S-Clip on 63mm Ø x 6mm stub, M4 each

S631/8 S-Clip sample holder with 8x S-Clip on 63mm Ø x 6mm stub, M4 each

S632 S-Clip sample holder with 1x S-Clip on 100mm Ø x 6mm stub, M4 each

S632/2 S-Clip sample holder with 2x S-Clip on 100mm Ø x 6mm stub, M4 each

S632/3 S-Clip sample holder with 3x S-Clip on 100mm Ø x 6mm stub, M4 each

S632/4 S-Clip sample holder with 4x S-Clip on 100mm Ø x 6mm stub, M4 each

S632/8 S-Clip sample holder with 8x S-Clip on 100mm Ø x 6mm stub, M4 each



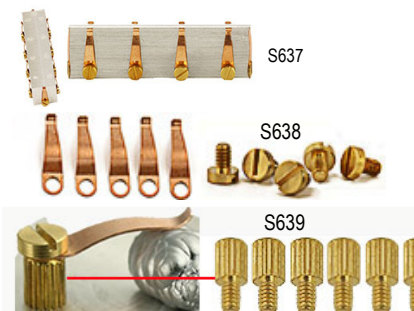
S-Clips on M4 Hitachi Stubs 45° & 90°

- S633** S-Clip sample holder 45° with 1x S-Clip on 25mm Ø stub M4 each
S634 S-Clip sample holder 45°/90° with 2x S-Clip on 25mm Ø stub M4 each
S635 S-Clip sample holder 90° with 4x S-Clip on 12.7x12.7mm Ø stub M4 each
S636 S-Clip sample holder with 4x S-Clips at 45° & 4x S-Clips at 90°, M4 each
S637 S-Clip sample holder with 10x S-Clips at 90°, 10x50mm, stub M4 each



Spare S-Clip Screws & Elevating Blocks

- S638** 5 Copper alloy S-Clips with 5 each brass M2 x 3mm screws set
S639 6 each S-Clip elevating pillars, 4mm height, M2 x3mm male/female set



S-Clips on Flat JEOL Specimen Stubs

- S640** S-Clip sample holder with 1x S-Clip on 25mm Ø x 10mm JEOL SEM stub each
S640/2 S-Clip sample holder with 2x S-Clip on 25mm Ø x 10mm JEOL SEM stub each
S640/3 S-Clip sample holder with 3x S-Clip on 25mm Ø x 10mm JEOL SEM stub each
S641 S-Clip sample holder with 1x S-Clip on 32mm Ø x 10mm JEOL SEM stub each
S641/2 S-Clip sample holder with 2x S-Clip on 32mm Ø x 10mm JEOL SEM stub each
S641/3 S-Clip sample holder with 3x S-Clip on 32mm Ø x 10mm JEOL SEM stub each
S642 S-Clip sample holder with 1x S-Clip on 50mm Ø x 10mm JEOL SEM stub each
S642/2 S-Clip sample holder with 2x S-Clip on 50mm Ø x 10mm JEOL SEM stub each
S642/3 S-Clip sample holder with 3x S-Clip on 50mm Ø x 10mm JEOL SEM stub each
S642/4 S-Clip sample holder with 4x S-Clip on 50mm Ø x 10mm JEOL SEM stub each



S-Clips on 45° & 90° JEOL Stubs

- S643** S-Clip sample holder with 1x S-Clip on 45° x 25mm Ø JEOL stub each
S644 S-Clip sample holder with 2x S-Clips at 45° & 90° on 25mm Ø JEOL stub each
S645 S-Clip sample holder with 2x S-Clips double 90° on 25mm Ø JEOL stub each



Stub Gripper Tweezers



The EM-Tec SEM stub tweezers securely grip SEM stubs and mounts to avoid touching them by hand to eliminate contamination issues. They are made from *anti-magnetic stainless steel* and are clean room compatible. They are excellent quality at an affordable price **and are available for:**

- All **grooved pin stubs** with 12.7, 19, 25.4 and 32mm head diameters (45° handle angle)
T600 anti-magnetic S/S tweezers for grooved pin stubs 12.7mm Ø 120mm long each
T601 anti-magnetic S/S tweezers for grooved pin stubs 19mm Ø 120mm long each
T602 anti-magnetic S/S tweezers for grooved pin stubs 25.4mm Ø 120mm long each
T603 anti-magnetic S/S tweezers for grooved pin stubs 32mm Ø 115mm long each
All **JEOL cylinder stubs** with 9.5, 12.2, 25.4 and 32mm head diameters (30° handle angle)
T604 anti-mag S/S grippers for 9.5mm Ø JEOL cylinder stubs 114mm long each
T605 anti-mag S/S grippers for 12.2mm Ø JEOL cylinder stubs 120mm long each
T606 anti-mag S/S grippers for 15mm Ø JEOL cylinder stubs 120mm long each
T607 anti-mag S/S grippers for 25mm Ø JEOL cylinder stubs 115mm long each
T608 anti-mag S/S grippers for 32mm Ø JEOL cylinder stubs 115mm long each
All **Hitachi cylinder stubs** with 15, 25 and 32mm head diameters (30° handle angle)
T609 anti-mag S/S grippers for 15mm Ø Hitachi & ISI cylinder stubs 120mm long each
T610 anti-mag S/S grippers for 25mm Ø Hitachi & ISI cylinder stubs 120mm long each
T611 anti-mag S/S grippers for 32mm Ø Hitachi & ISI cylinder stubs 120mm long each

