

## Specialised Hitachi SEM Stubs

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

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

Shorter version

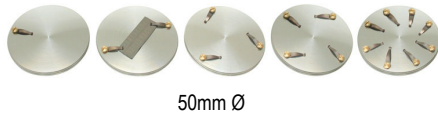
<b>S578/1</b>	25mm Ø x 6mm pin stub with 1 clip for ZEISS/LEO, SEM, FIBs	each
<b>S578/2</b>	25mm Ø x 6mm pin stub with 2 clips for ZEISS/LEO, SEM, FIBs	each
<b>S578/3</b>	25mm Ø x 6mm pin stub with 3 clips for ZEISS/LEO, SEM, FIBs	each

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

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



## Pin Stubs with Sample Clips cont...



50mm Ø



63mm Ø Can hold a 2" (51mm) wafer



100mm Ø



S589

S590



S592

S591



S595

S594

S593

S596



S597

S598

S598/2

S598/3

32mm Ø



S599

S599/2

S599/3



S630

S630/1

S630/2

S630/3

50mm Ø

S630/4

63mm Ø



100mm Ø



- S581/1** 50mm Ø x std pin stub with 1 clip for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S581/2** 50mm Ø x std pin stub with 2 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S581/3** 50mm Ø x std pin stub with 3 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S581/4** 50mm Ø x std pin stub with 4 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S581/8** 50mm Ø x std pin stub with 8 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each

- S582/1** 63mm Ø x std pin stub with 1 clip for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S582/2** 63mm Ø x std pin stub with 2 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S582/3** 63mm Ø x std pin stub with 3 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S582/4** 63mm Ø x std pin stub with 4 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S582/8** 63mm Ø x std pin stub with 8 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each

- S583/1** 100mm Ø x std pin stub with 1 clip for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S583/2** 100mm Ø x std pin stub with 2 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S583/3** 100mm Ø x std pin stub with 3 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S583/4** 100mm Ø x std pin stub with 4 clips for [FEI/Philips](#), [ZEISS/LEO](#), [Cambridge](#) each
- S583/8** 100mm Ø x std 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
- S630/2** 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  
**S634/A** S-Clip sample holder double 90° with 2x S-Clip on 25mm 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  
**S646** Swivel mount sample holder with 1 clip on 15mm Ø plate on 12.2mm Ø JEOL 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  
**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  
**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

