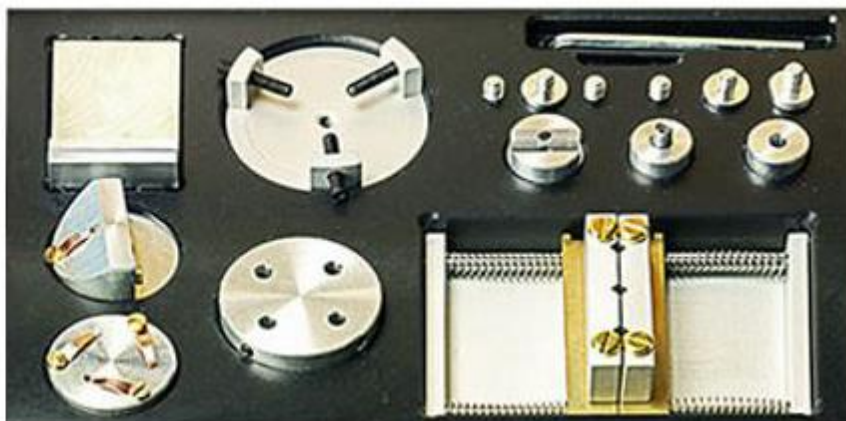


EM-Tec U2 universal SEM sample holder and SEM stubs adapter kit

[Product #12-003399](#)



Description

The EM-Tec U2 universal SEM sample holder and SEM stub adapter kit has been created to hold a wide variety of SEM samples up to 42mm. The samples can be flat, round, block or awkwardly shaped. Also included in this kit is a useful selection of SEM stub adapters which enables using this kit on virtually any SEM. Fully compatible with FEI/Philips, JEOL, Hitachi, Tescan, Zeiss/LEO and other brands of SEMs.

The selection of popular and practical EM-Tec SEM sample holders all include an M4 threaded hole. All are fully compatible with the SEM stub adapters provided in this universal sample holder kit and with Hitachi SEMs.

Contents

The complete kit is presented in a high quality wooden box with all the SEM sample holder and adapters neatly arranged in a hard plastic insert. This kit can also be used to convert cylinder type SEM sample stubs up to 32mm diameter to fit other SEM brands.

The SEM sample holders included in the EM-Tec U2 universal kit are:

- [#12-000300](#) EM-Tec V22 compact vise clamp for samples 0-2mm, M4
- [#12-000306](#) EM-Tec H6 mini vise clamp, 0-6mm, M4
- [#12-000314](#) EM-tec P4 multi holder for 4 standard 12.7mm pin stubs, M4
- [#12-000320](#) EM-Tec VS42 universal spring-loaded vise holder for samples up to 42mm, M4
- [#12-000333](#) EM-Tec R32 bulk sample holder for up to Ø32mm samples, M4
- [#12-004920-3](#) EM-Tec S-Clip holder with 3 x S-Clips on a Ø25x10mm stub, M4
- [#12-004927](#) EM-Tec S-Clip holder with 2 x S-Clips on 45°/90° Ø25x16mm stub, M4

The SEM stub adapters included in the EM-Tec U2 universal kit are:

- [#11-000106](#) EM-Tec ZR4 short Zeiss pin stub adapter with support rim to M4
- [#11-000116](#) EM-Tec Z4 short Zeiss pin stub adapter to M4
- [#11-000109](#) EM-Tec PR4 standard pin stub adapter with support rim to M4
- [#11-000119](#) (2x) EM-Tec P4 standard pin stub adapter to M4
- [#11-000120](#) EM-Tec KR4 long pin stub adapter with support rim to M4
- [#11-000513](#) EM-Tec J12P JEOL Ø12.2mm stub adapter to pin
- [#11-000514](#) EM-Tec J12H JEOL Ø12.2mm stub adapter to M4

Instructions on how to use the EM-Tec sample holders and stub adapters on different SEM brands

FEI/Philips, Tescan, Leica, CamScan, Aspex, Cambridge Instruments SEMs: Use the #11-000119 and #11-000109 standard pin stub adapters to convert any of the EM-Tec holder in this kit to a pin stub based sample holder. The M4 threaded top of these adapters can be screwed into the M4 threaded hole of the sample holders. Use the #12-000333 with pin adapter for JEOL cylinder stubs.

JEOL SEMs: Use the #11-000514 stub adapter with M4 screw to equip the EM-Tec sample holders in this kit with a Ø12.2mm cylinder base. Virtually all JEOL SEMs include a holder for Ø12.2mm sample stubs which can be used to hold the converted SEM holders. Hitachi stubs and sample holders can also be converted to Ø12.2mm by using the #11-000514. The #11-00513 pin stub adapter can be used for holding pin stubs in a Ø12.2mm stub holder. Note: the adapter arrangement for the JEOL SEMs increases the height of the SEM sample holder; please make sure the adapter arrangement is compatible with the available maximum sample height in your JEOL SEM.

Hitachi SEMs: The Hitachi SEMs include an M4 threaded screw on the sample stage; you can use all the included EM-Tec sample holders directly on your SEM. Use the #12-00314 multi pin stub holder for pin stubs. Use the #12-000333 bulk holder for JEOL cylinder stubs.

Zeiss/LEO SEMs: Use the #11-000116 and #11-000106 short Zeiss pin stub adapters to convert any of the EM-Tec holder in this kit to a Zeiss pin stub based sample holder. The M4 head of these adapters can be screwed into the M4 threaded hole of the sample holders. Use the #12-000333 with short Zeiss pin adapter for JEOL cylinder stubs.

Amray, Keysight/Agilent SEMs: Use the #11-000120 long pin stub adapter to convert any of the EM-Tec holder in this kit to a Zeiss pin stub based sample holder. The M4 head of these adapters can be screwed into the M4 threaded hole of the sample holders. Use the #12-000333 with pin adapter for JEOL cylinder stubs. There might be size limitations on the Keysight/Agilent sample stage.

Maintenance

The EM-Tec U2 universal SEM sample holder and SEM stub adapter kit is maintenance free. Do not use oil or grease on the holders; this will cause contamination in the SEM. Avoid contamination with adhesives or glues on the holders. The SEM sample holders can be cleaned with a 50/50 solution of isopropanol and acetone.

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