EM-Tec RG2 + RG4 geological thin sections top reference holders

#12-000263 and #12-000265

Products

12-000263 EM-Tec RG2 twin petrographic slides top reference holder for two up to 48x28mm slides, pin
12-000363 EM-Tec RG2 twin petrographic slides top reference holder for two up to 48x28mm slides, M4
12-000265 EM-Tec RG4 four petrographic slides top reference holder for four up to 48x28mm slides, pin
12-000365 EM-Tec RG4 four petrographic slides top reference holder for four up to 48x28mm slides, M4

Description

The EM-Tec RG2 and RG4 geological thin sections top reference holders are intended for analytical SEM/EDS/WDS or EPMA investigations. The petrographic or geological thin sections are pushed against a top reference edge to ensure a specific height for all loaded samples.

Operation

Consider wearing gloves to avoid contamination. The petrographic or geological slides need to be loaded from the sides between the spring and the top reference edge. To facilitate loading, the spring can be pushed down. At the middle of the top reference edge a separation pin is situated; push the slide gently against this pin. When the slide is loaded, check if the spring tension is sufficient to push the slide against the top reference edge.

Spring adjustment

The springs are made from spring grade phosphor bronze and can be easily adjusted. Using flat nose pliers. The gap between the spring and the top reference edge should be less than 1mm. The tip of the spring may just rest against the top reference edge. The holders are built to facilitate 1 – 1.2mm thick glass slides.
If the spring is too tight, adjust downwards to create a slightly larger gap.
If the spring is too loose, adjust upwards to create a slightly smaller gap.
The adjustment of the spring is easier when the top reference edge and the spring are removed from the base plate. Remove the 4 socket cap screws from the top reference edge by using the provided 2mm allen key. The spring can now be adjusted. If adjustment is not satisfactory, it may be needed to remove the spring from the holder plate; remove the socket cap screw which holds the spring. After adjustment re-mount the spring and the top reference edge with the socket cap screws.
Screws for the top reference edge: M2.5 x 8mm.
Screws for the springs: M2.5 x 4mm.

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Technical Support Bulletin

Specifications

Geological slide capacity RG2:		2
Geological slide capacity RG4:		4
Geological slide size:		45 x 30mm to 48 x 28mm
Dimensions RG2:		58 x 68 x 12mm
Dimensions RG4:		58 x 129 x 19mm
SEM stage compatibility	- standard pin:	#12-000263 and #12-000265
	- EM-Tec stage adapters M4:	#12-000363 and #12-000365
	- Hitachi M4:	#12-000363 and #12-000365
Material for plate and reference edge:		Vacuum grade aluminium
Material for springs:		Phosphor bronze
Material for screws:		Anti-magnetic stainless steel
Material for separating pins:		Brass

Maintenance

The EM-Tec RG2 and RG4 geological thin sections top reference holders are maintenance free. Occasional adjustment of the springs might be needed. Do not use oil or grease on spring; this will cause contamination in the SEM.

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Innovative Microscopy Supplies

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