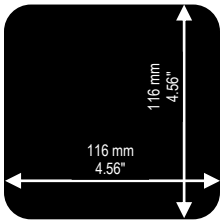
Applied Scientific Instrumentation

Stage Inserts

116 x 116 mm Inserts

These inserts fit ASI's old-style upright MS-2000 XY small stage. This stage fits well on smaller upright microscopes like the following:

Leica:	Laborlux, Orthoplan, DMLS, DMLB
Nikon:	Labophot, OptioPhot, E400, E600
Olympus:	BH-2, BX41
Zeiss:	Standard 16, Universal, Axiolab



Choosing the appropriate Insert

Inserts are designed to place their samples at a particular depth relative to their height. Generally, inserts on inverted microscope stages try to place the specimen as low as possible, while inserts on upright microscope stages try to place the specimen as high as possible.

Some microscopes are versatile enough to use either insert, and on some stage systems only certain inserts can be used.

When their objectives cannot be lowered close enough to achieve focus, some systems require shallow or *high-rise* inserts (for example, an S-2015 or S-2016 insert), however, this can be an problem with Kohler illumination if the condenser cannot be raised high enough -- in this case, a condenser extender is usually employed.

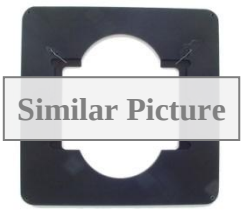
Some microscope models (e.g., Nikon E800/1000) may use large DIC condensers that cannot be extended -- in those cases (and depending on the stage) a compromise or *medium-rise* insert is chosen (for example, an S-2017 insert) to lower the specimen enough to attain Kohler illumination yet remain high enough that the objective can still be focused.

Slide Insert with Finger — S-2010

The S-2010 slide insert accepts most 75 mm (3") standard width slides. The unit has a silver spring-loaded finger that holds the slide in place, which rest on top of the insert. However, if the condenser cannot be raised close enough to obtain proper Kohler illumination, a condenser extender should be used.

Depth from Top of Insert: 0.0 mm
Overall Thickness: 2.8 mm

Dual Slide Insert — S-2011



The S-2011 slide insert accepts either a single 25x75 mm (1" x 3") or a 50x75 mm (2" x 3") slide. The unit is slightly recessed to place the bottom of a slide about 1.5 mm below the top of the insert. However, as with the S-2010 above, a condenser extender may be necessary to obtain proper Kohler illumination.

Depth from Top of Insert: 1.5 mm
Overall Thickness: 2.8 mm

Single Rotating Slide Insert — S-2012

The S-2012 slide insert accepts standard 25x75 mm (1" x 3") slides and allows for a full 360-degree continuous rotation of the slide. The unit is recessed to place the bottom of a slide about 7.5 mm below the top of the insert, therefore, a condenser extender may not be needed. However, the recession does make slide loading more cumbersome, and some objectives may rub if the stage is not lowered before changing their position. This insert also holds a 55 mm Petri dish.

Depth from Top of Insert: 7.5 mm
Overall Thickness: 7.9 mm

High-Rise Version — *S-2015*

This is a special version of the S-2012 with a much shallower recession that places the bottom of a slide about 3.1 mm below the top of the insert. Available for upright microscopes that cannot move close enough to achieve correct focusing, although a condenser extender may be needed to obtain Kohler illumination.

Depth from Top of Insert: 3.1 mm
Overall Thickness: 7.9 mm

We Create Solutions

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Dual Rotating Slide Insert S-2014

The S-2014 slide insert accepts either a single 25x75 mm (1” x 3”) or a 50x75 mm (2” x 3”) slide. and allows for a full 360-degree continuous rotation of the slide. The unit is recessed to place the bottom of the slide about 7.5 mm below the top of the insert, therefore, a condenser extender may not be needed in some applications. However, the recession does make slide loading more cumbersome, and some objectives may rub if the stage is not lowered before changing their position.

Depth from Top of Insert: 7.5 mm
Overall Thickness: 7.9 mm

High-Rise Version *S-2016*

This is a special version of the S-2014 with a much shallower recession that places the bottom of a slide about 3.1 mm below the top of the insert. Available for upright microscopes that cannot move close enough to achieve correct focusing, although a condenser extender may be needed to obtain Kohler illumination.

Depth from Top of Insert: 3.1 mm
Overall Thickness: 7.9 mm

Medium-Rise Version *S-2017*

This is a special version of the S-2014 with a slightly shallower recession that places the bottom of a slide about 5.0 mm below the top of the insert. This medium-rise insert offers a compromise between the closest an upright microscope's objective can approach from above versus the maximum a condenser can be extended from below and still obtain Kohler illumination.

Depth from Top of Insert: 5.0 mm
Overall Thickness: 7.9 mm

Solid Plate Insert S-2000

The S-2000 solid top insert provides a solid base that can be modified by the user to meet their particular application needs. *(If you do not need a through-hole in the stage and just want a solid top stage, please order the stage itself with a solid top plate. We have solid top plates for all of our stages, including breadboard versions with either ¼ - 20 threaded holes on 1 inch centers or M6 threaded holes on 25 mm centers.)*

Depth from Top of Insert: N/A
Overall Thickness: 7.2 mm

Glass Plate Insert S-2008

The S-2008 glass insert provides a large specimen area the full size of the insert. It is made of 4.8 mm (3/16") clear tempered glass. *(This insert does not have set screws in the corners for leveling capability.)*

Depth from Top of Insert: N/A
Overall Thickness: 4.8 mm