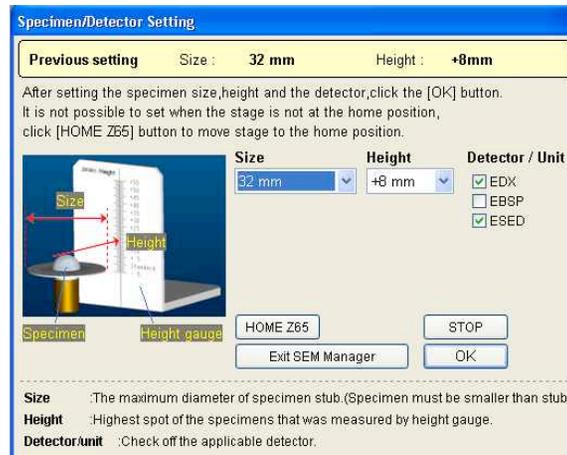
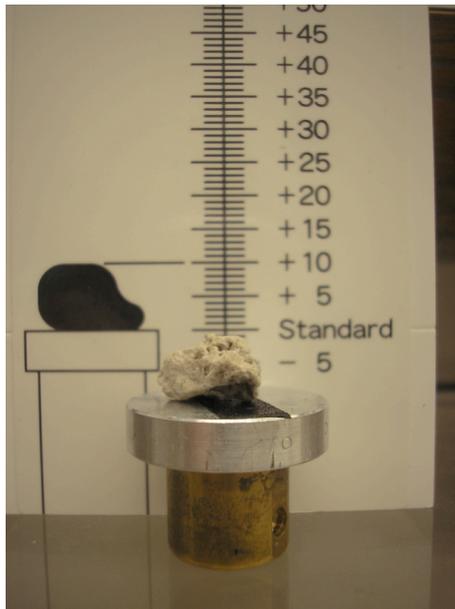


# How to properly measure your Hitachi S3400 SEM sample HOLDER height

Note 1: you are measuring the **total** height, NOT the **sample** height. The same sample can have very different heights, depending upon which holder or base you are using. You must tell the Hitachi software what the TOTAL height is of the holder that you insert, NOT just the small number of mm your sample may be. See the example below.



Note 2: Hitachi's graphic (left) is confusing. It incorrectly suggests you are measuring the (vertical red line) height of the specimen, when you are not! You are measuring the TOTAL height of the holder+sample.... otherwise, how could you have a negative sample height! Note 3: DO NOT touch the green check boxes for "detector/unit". Leave them alone as they are. We have to "trick" the software as it is not totally correct for our detector setup.



Here is an example of the SAME sample, but on top of DIFFERENT SAMPLE HOLDERS. The "height" you enter in the Hitachi software is DIFFERENT for each case.

Sample height = "standard (0)"  
(using shortie base)

Sample height = "8"  
(using tall base)

Sample height = "24"  
(using tall set-screw base)