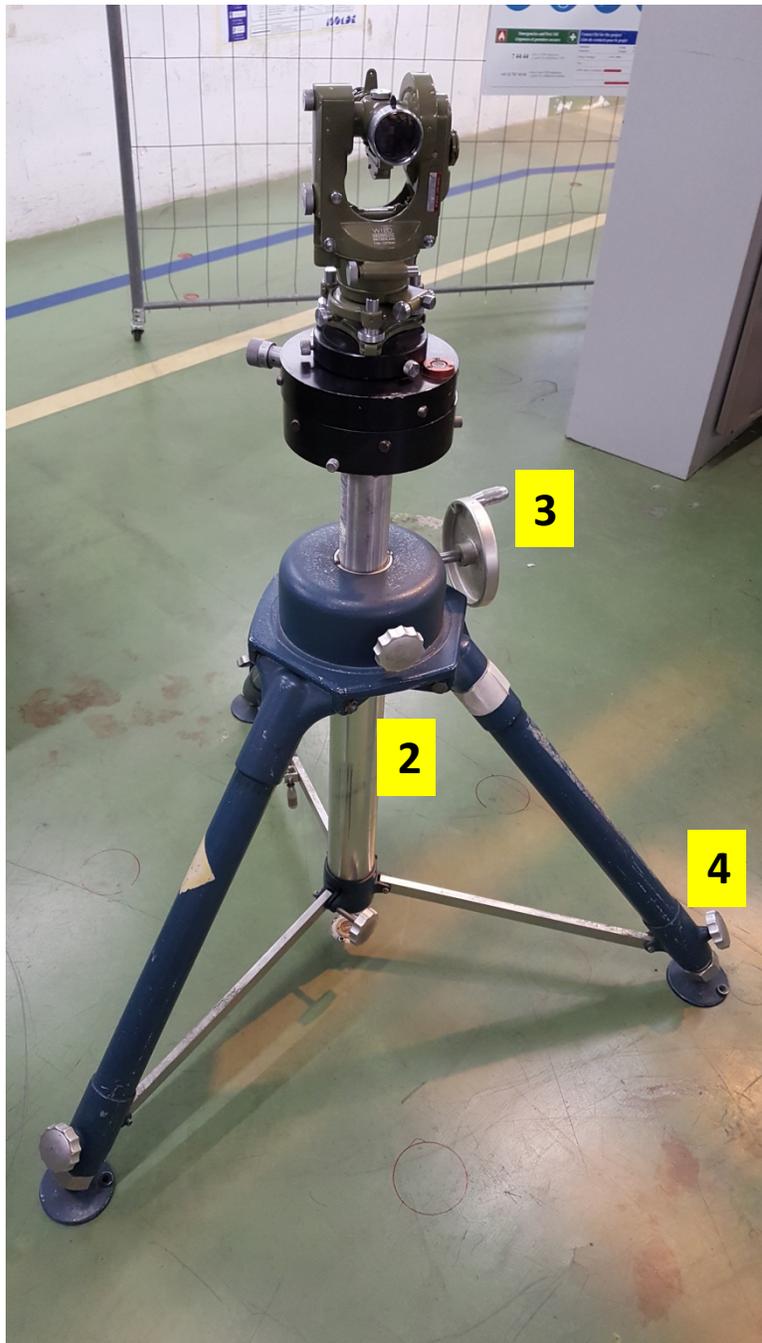


The ISOLDE Theodolite

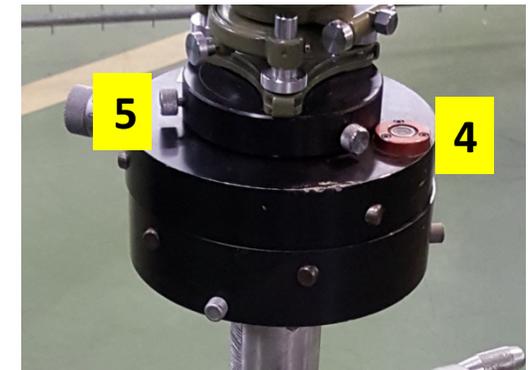
How to tame the beast in 10 easy steps

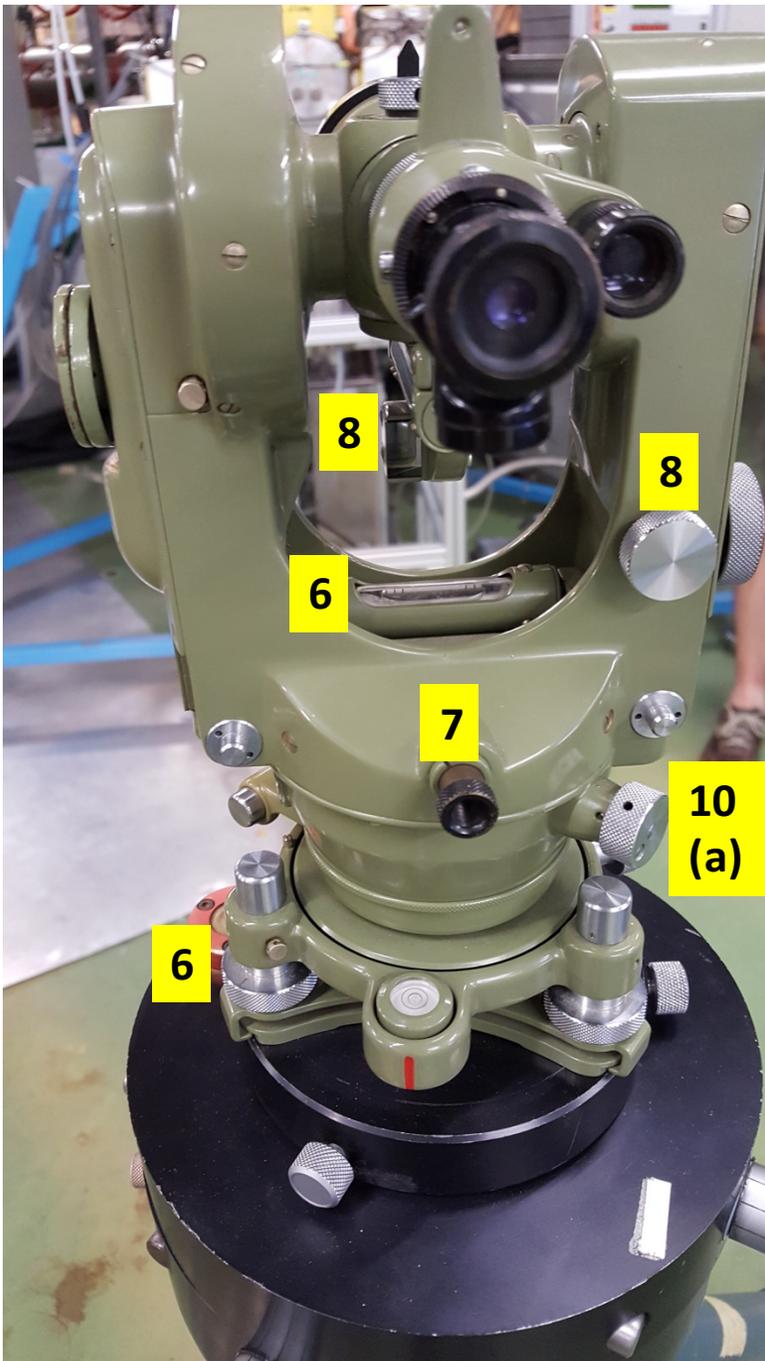
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1. Find the alignment point on the floor and place the theodolite approximately above it.
2. Fully extend the tripod legs for extra stability
3. Roughly set the height of the table using the wheel. There are two regions where the gear 'teeth' are worn out and you will have to pull it out manually. The height reference is the center of the beamline, which can also be found marked on the nearby walls.
4. Adjust the leg height until the table bubble is roughly in the middle (it is not crucial to have it perfect)
5. Make sure the device is fixed well on the table.





6. Adjust each of the three screw-wheels until the big bubble is in the middle, for any orientation of the telescope.
7. Look through the small eye-piece and place the device precisely above the centering point, first by sliding the whole tripod by hand, and then by using the table screws for fine adjustments. Go back to point 6, as every tripod movement will slightly change the horizontal plane leveling.
8. Level the telescope using the half-bubble view (both halves have to meet perfectly at the middle). If you cannot see the bubble it means it is either way out of level, or your are not looking at the right angle.
9. Finely adjust the height by looking at the height reference (see point 3) using the wheel and redo the steps starting with point 6 a few times to be sure everyting is still leveled.
10. Point the telescope towards the center of the beamline and fix its rotation using (a). You can then perform fine rotations using (b).

