## Laser marker operational procedure Q switched, Nd:YVO<sub>4</sub> 1.06 μm, mean power 10 W, pulse duration 10ns

This laser is not to be used on your own. You have to be a registered laser user to use this equipment and be trained to use this laser. This laser is a Class IV laser with the safety visor and protective doors closed and is a Class IV otherwise. Always operate the laser with the correct safety eyewear on.

- 1. Start the EHT (extreme high tension) power.
- 2. Wait until the status screen shows ready.
- 3. Remove the cap from the lens.
- 4. On the control box, turn key to start position, and check the red laser beam for alignment.
- 5. Start the computer and select laser editor (Smartists 4) program.
- 6. Switch on fume extractor.
- 7. Edit drawing file and test the specimen drawing with the red beam.
- 8. Alter Z axis until red laser has minimum diameter i.e. the laser beam in good focus on the specimen.
- 9. Shut protective doors and place visor down
- 10. Safety goggles or face mask suitable for the wavelength should be worn at all times.
- 11. Switch key to on position on the control box and press enable switch/indicator.
- 12. Start program to start the marking.
- 13. Do not open the visor or protective doors when the laser marker is on. Eye damage could result
- 14. After marking or when the program has stopped disable the laser by using the enable switch/indicator in the control box.
- 15. Switch the key to the off position and switch off the laser marker and the PC.