

Quick Start

SL10

1. Unboxing

Unpack the SL10 and place it on a stable table on which the back can be easily reached.

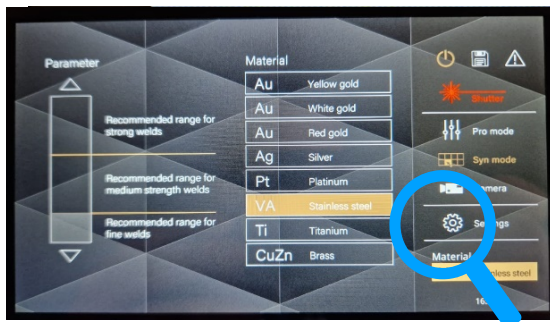
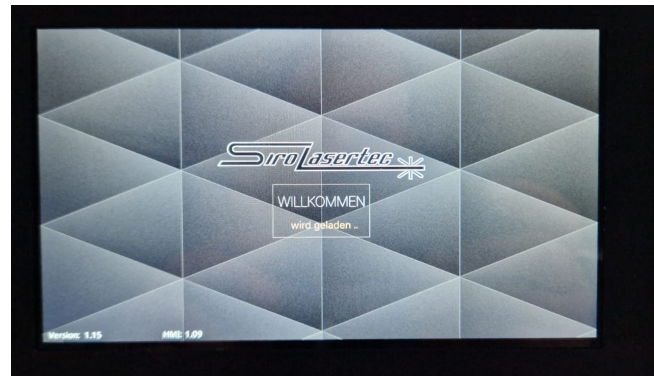


2. Acclimatize

If your machine has reached you by truck or aeroplane, make sure that the device acclimatizes to your room temperature. It's best to leave the machine overnight.

3. Preparation

Plug in the main plug and connect the foot switch at the point indicated on the back. Now turn on the SL10 using the key switch. Please wait until the laser finished booting and you can see a working page.



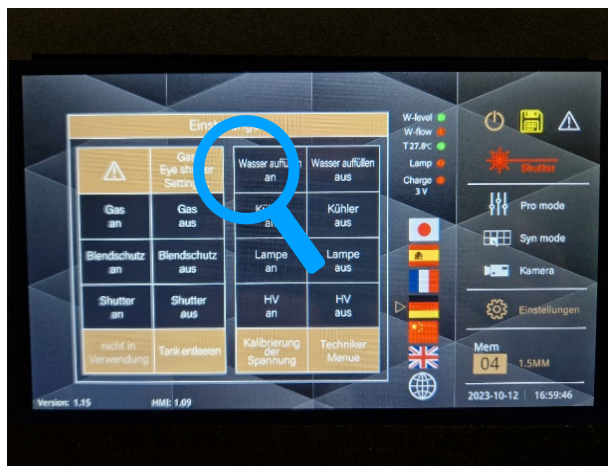
Press the setting button in the in the right area to enter the settings.

4. Fill it up with Water

Insert the water hose at the position indicated on the back of the unit (Water Inlet). The hose must be securely connected. Place the other end of the hose in a container containing distilled water.

! Make sure the water overflow is free and the transport lock has been removed. !

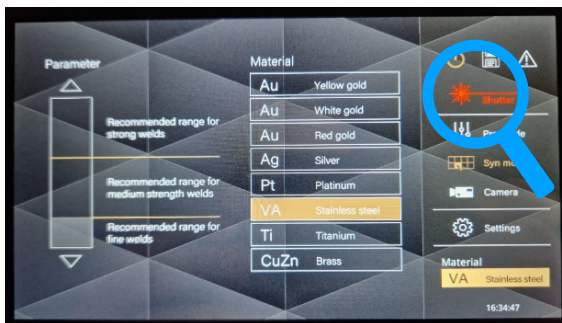




To start the water feed, press the “Add Water ON” button. The process stops automatically when the device has been adequately filled with distilled water. The W-level status light in the display should now be green, if not press the “Fill water on” button again. Then remove the hose. All the status lamps on the right-hand side should now be

illuminated green. Switch off laser again.

5. Restart



The laser has a safety shutter, this must be opened once on every restart. To do so, press the icon on the display. With the safety shutter in the green switched state, the laser is now ready for operation.

Always start the unit in the following starting sequence:

Key switch - Start button – On / Off button – Safety Shutter



Wait 30-45 seconds



6. Cross-hair adjustment

Check that the laser shot is in the centre of the cross-hairs. It can happen that it becomes misaligned through transport.

If the shot is centered, skip the next step. If the cross-hairs and the laser shot do not coincide, proceed as follows:

Place a suitable object in the centre of the working chamber and focus it. A small lift table and metal plate are ideally suitable for this. When adjusting, the surface of the metal plate must be in focus. Thus, you should see a perfectly focused image through the microscope.



Now loosen the counter-bolts of the 3 adjustment screws in the upper area of the working chamber.

The position of the welding point can be changed by turning the appropriate rotary control.

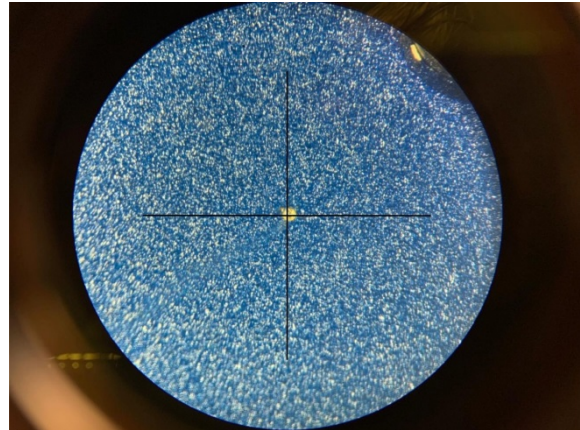
To change the position, turn the corresponding adjustment-screw.

At least, tighten the counter bolts.

For adjustment, set the following values via the touchscreen:

200V / 0.5ms / 0.0 Hz / 0.2mm

Trigger a single laser pulse by pressing the foot pedal. Check that the welding point match with the center of the cross-hairs. If necessary, keep on adjusting until the welding point and the cross-hairs center are centered.



7. Turn off the machine

When turning off the machine please make sure to follow the shut-off sequence, so that the capacitors in the power supply have time to discharge.



For your first welding trials either use our parameter list, the “Syn mode” in our menu of display or book a laser application-training at Siro Lasertec.

If you have any questions or you’re in need of help, please contact us!
We’re there to help you!

+49 7231 15413 0 support@siro-lasertec.de

We wish you great success and loads of fun with your SL10 laser welding unit!

