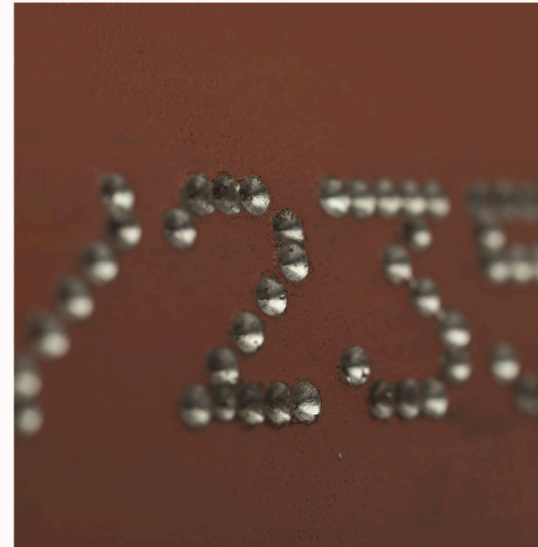


# PRYOR



## Pryor Bench Laser

## Maintenance Procedure



## Laser Preventative Maintenance Schedule

Check for all standard items of supply

Laser Serial number

- |   |   |
|---|---|
| 1. Inspect air filter and replace if necessary  | <input type="text" value="Tick if ok"/> |
| 2. Safety – function of the E-Stop, the Door Interlock and the three Key Switches   | <input type="text" value="Tick if ok"/> |
| 3. Clean lens (inside & out) & cover glass  | <input type="text" value="Tick if ok"/> |
| 4. Confirmation of the Home Position calibration<br><br>(measurement should match the value currently set in the software configuration. It is defined by the metal Flag on the Z axis) | <input type="text" value="Tick if ok"/> |
| 5. Test the Focal Length setting of the laser – using Z test program  | <input type="text" value="Tick if ok"/> |
| 6. Test Laser Power output using power meter (See recommended Wizard power meter for this)  | <input type="text" value="Tick if ok"/> |
| 7. Test linearity of the Laser field 100x100 using test layout  | <input type="text" value="Tick if ok"/> |
| 8. Test range of laser frequency and power using test matrix layout.  | <input type="text" value="Tick if ok"/> |
| 9. Test Galvos by marking Large, Medium and Small Data Matrix codes.  | <input type="text" value="Tick if ok"/> |
| 10. Test function of Instrument Gripper for free movement and clean & adjust as necessary   | <input type="text" value="Tick if ok"/> |
| 11. Clean enclosure and fan   | <input type="text" value="Tick if ok"/> |

### Notes

---

---

---

---

---

---

---

---

---

---



## Laser Preventative Maintenance Schedule

Check for optional Items of supply

a. Check fume extract unit and external duct if fitted

Tick if ok

b. Check fume extract internal duct and mounting plate

Tick if ok

### Notes

---

---

---

---

---

---

---

---

---

---

## Laser Preventative Maintenance Schedule

### 1. Check correct function of laser

a. Power up laser	Tick if ok
b. Check function of E Stop	Tick if ok
c. Check function of door interlock against green LED indicator	YES / NO
d. Check Laser connects to the PC using variable addressing	Tick if ok
e. Check Z axis Homes correctly	YES / NO
f. Remove lens cover	Tick if ok
g. Run the laser focus check on the polished side of the test plate (no GIMS fluid required)	Tick if ok
h. Check correct function and adjustment of the Laser Focus cross hairs	Tick if ok
i. Mark the Getinge Demo Plate program on the matt side of the plate (GIMS Fluid on unmasked area required)	YES / NO
j. Examine plates for mark quality compared to master Plate	Tick if ok
k. Replace lens cover	YES / NO
l. Support Z axis and remove power	Tick if ok

### Notes

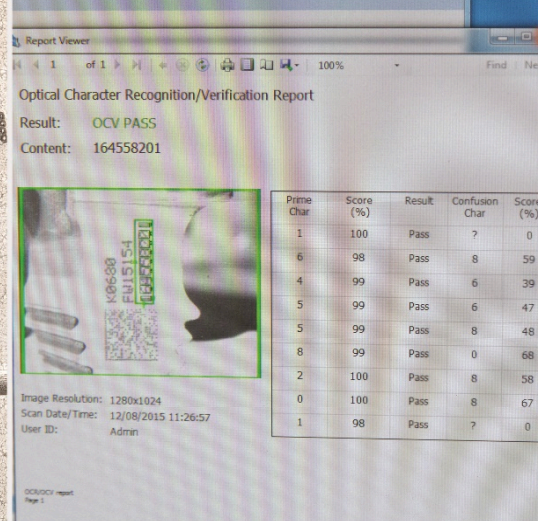
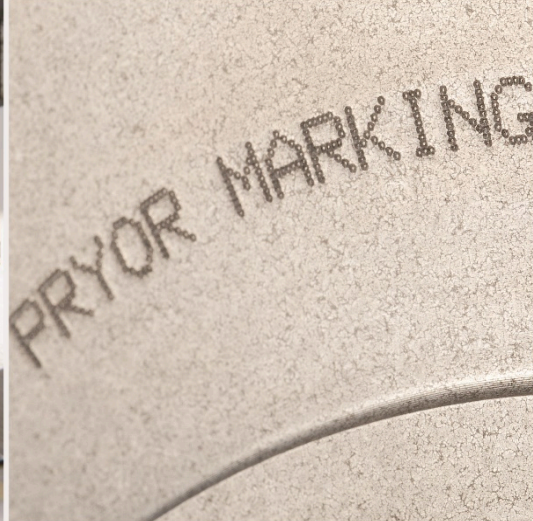
---

---

---

---

---



Edward Pryor and Son Ltd.  
 Egerton Street, Sheffield, South Yorkshire, S1 4JX, UK  
 +44 (0)114 276 6044  
 info@pryormarking.com  
 Company number: 313230

[www.pryormarking.com](http://www.pryormarking.com)