

MI6050 L1810-2 Maintenance Schedule

This document refers to the L1810-2 User's Manual, which can be found at:
<https://www.summa.com/en/support/user-manuals/>



ATTENTION: Make sure the power supply to the laser cutter is switched off before starting maintenance tasks!



ATTENTION: The intervals below should be considered as the maximum allowed time between maintenance tasks. If a component requires the performance of a maintenance task sooner than indicated below, do not delay.

| LASER CUTTER | | | |
|------------------|---------------------|----------|----------------------|
| Component | Task | By | Max. Interval |
| Secondary Mirror | Clean | End User | 1 Day or 8 Hours |
| Head Mirror | Clean | End User | 1 Day or 8 Hours |
| Head Lens | Clean | End User | 1 Day or 8 Hours |
| Nozzle | Clean | End User | 1 Day or 8 Hours |
| Airflow Nozzle | Check | End User | 1 Day or 8 Hours |
| Primary Mirror | Clean | End User | 1 Week or 40 Hours |
| Nozzle Height | Check | End User | 1 Week or 40 Hours |
| Conveyor Planks | Check/Clean | End User | 1 Week or 40 Hours |
| Air Filters | Clean/Replace | End User | 1 Month or 170 Hours |
| Emergency Stops | Check | End User | 1 Month or 170 Hours |
| X-Axis Movement | Check/Clean | End User | 1 Month or 170 Hours |
| Y-Axis Movement | Check/Clean | End User | 1 Month or 170 Hours |
| All Rails | Clean and Lubricate | End User | 1 Month or 170 Hours |
| X-Belt Tension | Check/Adjust | Dealer | 1 Year or 2000 Hours |

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|---|--------------|--------|-----------------------|
| Y-Belts Tension | Check/Adjust | Dealer | 1 Year or 2000 Hours |
| X-Motor Belt Tension | Check/Adjust | Dealer | 1 Year or 2000 Hours |
| Y-Motors Belt Tension | Check/Adjust | Dealer | 1 Year or 2000 Hours |
| Laser Beam Alignment | Check | Dealer | 1 Year or 2000 Hours |
| Overall Machine Service (all the above) | Check | Dealer | 1 Year or 2000 Hours |
| All Optics | Replace | Dealer | 2 Years or 4000 Hours |
| Reprocess Laser Unit | Reprocess | Dealer | 15 - 20K hours |

| WATER-COOLED LASER | | | |
|-----------------------|---------|------------------|------------------------|
| Component | Task | By | Interval |
| Chiller Water Level | Check | End User | 1 Week or 40 Hours |
| Chiller Water Quality | Check | End User | 1 Week or 40 Hours |
| Chiller Water Pipes | Check | End User | 4 Weeks or 120 Hours |
| Chiller Air Filter | Clean | End User | 4 Weeks or 120 Hours |
| Chiller Water | Replace | End User | 6 Months or 1000 Hours |
| Chiller Service | Service | Local ICS Dealer | 1 Year or 2000 Hours |

| AIR-COOLED LASER | | | |
|------------------|-------|----------|----------------------|
| Component | Task | By | Interval |
| Laser Unit Fans | Clean | End User | 4 Weeks or 120 Hours |

| EXTRACTION SYSTEMS | | | |
|--------------------|-------|----------|----------------------|
| Component | Task | By | Interval |
| Extraction Hoses | Clean | End User | 2 Weeks or 80 Hours |
| Extraction Fan | Clean | End User | 4 Weeks or 120 Hours |



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|--------------------------|-------|--------|---------------------------|
| Extraction Fan Inside | Clean | Dealer | 6 Months or 1000 Hours |
| Vacuum Chamber | Clean | Dealer | 1 Year or 2000 Hours |