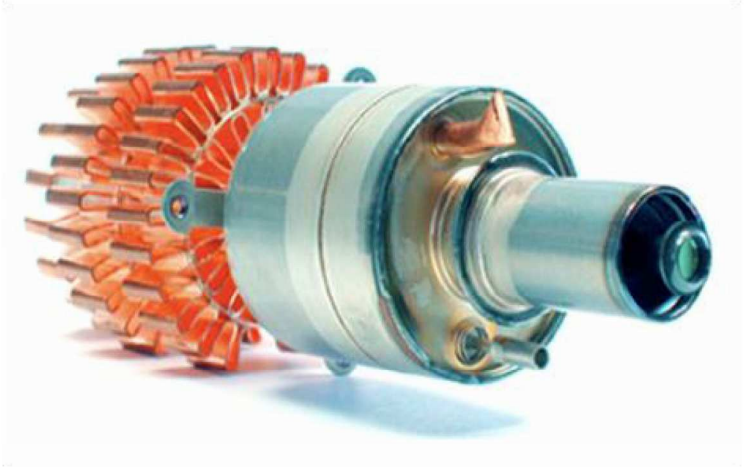
NLK offers replacement lasers and/or laser repair for the following KLA-Tencor.
When refurbishing an argon laser head with a new tube, the primary component of the laser is entirely replaced. Matching the original specifications, NLK Laser replacement tubes are fit, form, and function compatible with the original design of the laser. NLK's replacement tube designs result in improved performance and increased lifetimes over competitor's products. In addition to replacing the entire laser tube with new material.
Repair the laser head by installing a new argon ion tube, meeting or exceeding the original JDSU.

1.Laser Tube

Entirely new replacement tubes so that beam quality and lifetime.



Replacement laser tube is a completely new laser tube that meet all OEM specifications. Its replacement tubes the most advanced internal mirror and metal- cermic laser tube technologies. The result is Argon laser tubes that offer high power, exceptional thermal stability, Low Maintenance and long lifetime.

2.Beam Quality

Provides unparalleled beam quality that is constant across output power levels and through fiber delivery systems. The laser incorporates the latest in internal mirror tube technology securing permanent beam alignment and eliminating contamination. Also offers improved beam pointing stability, and low noise.

3.All Repairs Include the Following Criteria

- Laser head is cleaned
- Laser head is inspected and components are replaced as necessary, i.e.fans, hour meters
- All wiring, cables, and connections are inspected and repaired
- All optical components are inspected and cleaned
- A new laser tube is installed and aligned
- Laser is burned-in
- Laser is thoroughly tested to insure it meets or exceeds original

Specifications including:

- Power and photocell calibration
- Beam position and Alignment
- Beam mode and quality
- Optical noise
- Polarization orientation and ratio

4.Why need to be Replaced tube to New

• New Charge of Argon Gas

Simply adding gas to an argon tube will not restore the tube to original performance.

•Not Replacing the Optic

The coating on the inside of the output or reflective optic deteriorates from high energy levels. In addition, deposits may form on the optic. This buildup and/or breakdown decreases beam quality and tube lifetimes.

• Not Replacing the Cathode

Once the cathode fails due to deterioration, the tube will not light and will need replacement.

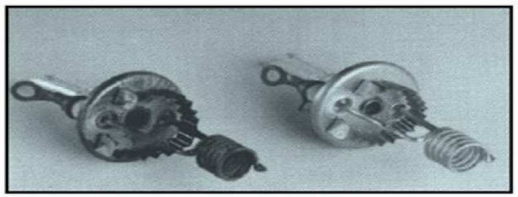
• Contaminated Ceramic Bores

Material buildup and bore degradation occurs during the normal life of an ion laser. Once a tube reaches the end of life and is re-gassed, the buildup and degradation continues to decrease performance and shortens lifetime.

• Ceramic Bore Reprocessed

Material deposits form in the inside capillary of the ceramic bore, causing material inconsistencies, which affect output power and lifetimes. This results in output power losses and changes in mode structure.

Material deposits on used ion laser bore



Used Cathode vs. New Cathode

5.Applicable Area

NL Korea Company offers replacement lasers and/or laser repair for the following KLA-Tencor machines :

- ✓**Surfscan 6200**
- ✓**Surfscan 6220**
- ✓**Surfscan 6400**
- ✓**Surfscan 6420**
- ✓**Surfscan 7600**
- ✓**Surfscan 7700**
- ✓**AIT 1**
- ✓**AIT2**
- ✓**XP+**
- ✓**SP1**

- ✓**Therma-wave**

nlkorea

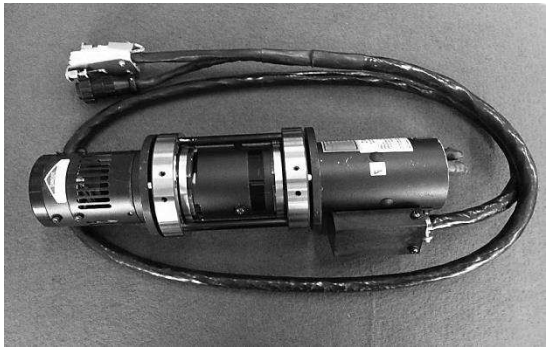
KLA-Tencor Argon Laser Refurbish

✓ MODEL

2214-30SLXXX

✓ Applicable System

KLA-Tencor AIT1



✓ MODEL

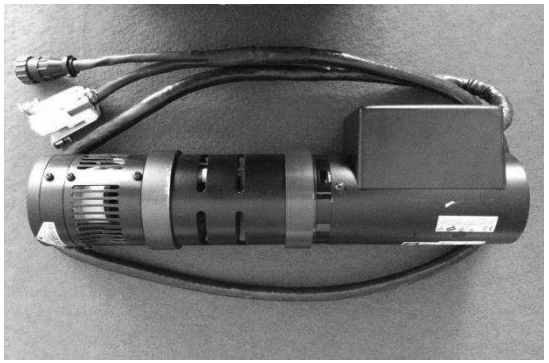
2214-30SLXXX

✓ Applicable System

KLA-Tencor Surfscan6xxx,7000,SP1

nlkorea

KLA-Tencor Argon Laser Refurbish



✓ MODEL

2213-75SLXXX

✓ Applicable System

KLA-Tencor AIT2,XP+

✓ Quality

- Laser head is cleaned
- Laser head is inspected and components are replaced as necessary, i.e. fans, hour meters
- All wiring, cables, and connections are inspected and repaired
- All optical components are inspected and cleaned
- A new laser tube is installed and aligned
- Laser is burned-in

6.ETC Laser

RUDOLPH LASER - FE IV Model [Helium Neon Laser]

Model	Output	Warranty	Status	Remark
OEM	633nm	6M	NEW	No return

- Average Power (mW) >200
- Wavelength1 (nm) 800
- Bandwidth2 (nm) >10
- Pulsewidth3 (fs) <100
- Repetition Rate4 (MHz) 80
- Power Stability5 (%) ±1

- Noise6 (%)(RMS) <0.1
- Beam Diameter7 (mm) 1.25
- Beam Divergence8 (mrad) <1.2
- M2 <1.2
- Polarization >100:1, horizontal

Model	Output	Warranty	Status	Remark
Coherent OEM	2W/5W	6M	Refurbished	Need to Return

** Including Power supply system

6.ETC Laser

Viper2401 FLUORESCENT LAMP

Model	Output	Warranty	Status	Remark
OEM		6M	NEW	Need to return

Watts:19W
Base:G5 MINIATURE BIPIN
Length:16.06 Inches
Bulb Shape:T5
Bulb Finish:GREEN