

## Standard Refurbish Program for Micralign

### Elevators

- Replace belts with new
- Replace clutch "O" rings
- Install new Capacitance Sensors, if necessary
- Lead screw cleaned and lubed
- Elevator platforms anodized

### Prealigner Assembly

- Anchor flexures replaced with New Style (ball bearing type)
- X/Y motors replaced with new
- Spinner motor replaced with new
- Track covers anodized

### Load Arm

- New suction cups
- New backing plate
- New anodize

### Carousel Arm

- New suction cups
- New backing plates
- New inner seals and bearings
- New anodize

### Unload Arm

- New suction cups

### High Thruput Condenser

- Secondary recoated
- Primary cleaned
- Toroid cleaned
- Shutter replaced with new
- Illuminator lenses replaced with new
- High Voltage Phenolic spacer replaced with new
- High Voltage pigtail replaced with new

### High Thru-put Relay

- All optics cleaned
- New aperture drive belt installed
- New airpots for actinic filter
- New wg320 filter and compensators

### Power Supplies 5/15/24

- Checked for A/C noise replaced if above 20 mV
- Replace any old design with Power One upgrade if necessary

### Panels/Covers

- Remove and paint front hinged panel door
- Remove and paint all beige front & side panels
- Remove and paint all gray lower panels and doors
- Remove and paint all front and rear black panels

## Standard Refurbish Program for Micralign-continued

### V/P Bimorphs

- All four ceramic benders replaced with new
- All four Transducers replaced with new

### Scan Package

- All gear drives cleaned and lubed
- All drive clutches tightened
- Replace fiber optic bundle, if necessary
- Replace any worn parts
- Complete optical alignment checked and aligned if necessary

### Gear Boxes

- All Gearboxes checked for travel limits
- All Gearboxes checked for backlash, replaced if out of spec.

### Binocular

- Replaced with new style adjustable

### Chuck

- Set up to nominal wafer plane
- Clean platen; replace if necessary

### Helium Regulator

- Replace with New Auto Helium Regulator

### HEPA

- New HEPA filter Installed

### Hosing

- **ALL** hoses replaced with new including chuck, carriage, etc.
- New Style 900 Manifold with SMC solenoids



**Beta Squared Lithography, Inc.**