

# APPLIED MATERIALS® parts wheel



Implanter can handle either one wafer at a time or a small batch of wafers, typically 13, 17 or 25, mounted on a rotating disk (1200 RPM). AMAT® implanter belongs to « batch equipment » using wheel. AMAT® wheels are composed of several **Heatsinks** positioned around a Hub (quantity of Heatsinks depends on wafer size). **Heatsinks** installed on the AMAT® wheel are part of the process and require special treatment to prevent contamination.

As a leading service supplier of AMAT® implant wheel sub-assemblies, Global Technologies is providing a unique and complete service from repair to new OPM parts for all **Heatsinks, Fixed Restraints, Moving Clips** and **Paddle Shield** installed on AMAT® implant wheel for **9500, xR** and **Quantum series**.

Upgrade:

1. Global Technologies proposes an upgrade on **Fixed Restraints** which is composed of 2 materials: **Al+Torlon®** (Polymer).

This new design allows to reduce contamination by eliminating « wafer chipping » and facilitate maintenance.

2. Global Technologies proposes an upgrade on **Moving Clips**. New design includes replacement of Al fingers with **PEEK®** material.

| AMAT® PRODUCT REFERENCE |        |                |
|-------------------------|--------|----------------|
| PART                    | PN     | SIZE*          |
| Heatsink                | All PN | 150 -200 - 300 |
| Moving Clip             | All PN | 150 -200 - 300 |
| Fixed Restraint         | All PN | 150 -200 - 300 |
| Paddle Shield           | All PN | 150 -200 - 300 |

\*mm

## AMAT® Parts Wheel are fully inspected, repaired and tested to OEM specifications

**I** ncoming Inspection

- General state
- Mechanical control
- Inspection report

**R** epair Process

- Full disassembly
- Decontamination
- All parts ultrasonically washed
- Metal surface refinishing
- Elastomer application
- Silicon coating

**P** erformance test

- Thermal analysis capability
- Surface morphology
- Elastomer surface friction / stiction testing
- Dimensional / Alignment verification
- Particles performances
- Test report
- Individual class 100 anti-static bags

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