

YieldWorks, Focus Specialty Services

YieldWorks is a Specialty TWAS, Off-Site/On-Site semiconductor parts clean and metal reclaim service provider for PVD/CVD tools. We've been around since 2007. We focus on using Database tracking tools, with fewer cross contaminants to improve equipment performance, lowering cost of ownership and increasing yields. We are NOT a general all fab service.

Our people and specs focus on fewer services, thus greater quality and reproducibility of service.

We focus on our current customers to provide greater consistency, quality and better service. We do NOT have a general sales force.

Great Experience:

- 19 years in business cleaning/TWAS of PVD/CVD shielding
- 14 years on-site service experience
- Fully Qualified with 9 Fabs

Quality:

- World class TWAS adhesion: film bond strength pull test: Avg. = 9880 psi
- Class 10 clean room, 16-18 M-ohms/cm single pass final clean Ultra-Sonic
- Cu/PM/Non-PM isolation
- QII – Quality Improvement Items tracking for continuous improvements
- Consistency of service/clean through specific service specs and prep specs, certified and trained personnel

Performance:

- Lowering customer CoO, increased yields and great price
- Helped customer improve 93% in kits run to limit in previous quarter
- Reduce green to green time 50%, Etch systems
- Great quality clean – Low CV's, 0.1V vs. 1.0V previous provider (fewer residues)
- Fewer micro arcs results: 12 hrs PM reduced to 8 hrs. (cleaner surfaces)
- Fast pump-downs, lower leak rate, 2,100 vs. 20,000 nTorr/min at 10 hrs (shorter PM)
- High flow TWAS booth 160 Ft/min, lower particles, better film quality
- Great film adhesion, Avg. 9880 psi, surface prep = low particles, more RF hours
- 100% increase in KW hrs with less conditioning
- >10% mechanical yield improvement from fewer particles

Services:

2092 N.E. Alcock Dr. # 511
Hillsboro, OR 97124
(503) 629-9092
yieldworks@frontier.com

1156 Mississippi Ave
Dallas, TX 75207
(469) 677-5815
yieldworks.texas@frontier.com

YieldWorks

Specialty Cleaning, TWAS, On-Site Services and Tool Services

- On-Site Clean Facility: spec creation, part clean, small assembly rebuild, valve rebuild, leak check, database, critical metrics
- Off-Site TWAS/part services shop: parts clean, TWAS, small assembly rebuild, riveting, database, metrics, part repair
- Database, metrics, kit management:
 - Work Order tracking of parts with critical metric measurements
 - All materials, parts, serial #'s and forms are delivered back in original kit
 - Full database tracking: Part #, Serial #, Kit, Tool, Chamber, PO, Ship #, Customer
 - Film, surface metrology – Ra, Eddy Current
 - Metrics – flatness, calibrated pins, gaps, calipers, thickness, diameters, weights
 - Provide different surface roughness, thickness, porosity for different depositions
- Full kit management
 - Serial Number parts returned to same kit – Kit integrity
 - Work Order (WO), data and kit tracking
 - WO, data and kit histories
 - Data histories tied to Kit #, Part # and WO.
 - All materials, hardware, parts and forms in one package
 - Full repair and resurface – one stop

Locations:

- 2092 NE Alcolek Drive, # 511, Hillsboro, OR 97124
 - Headquarters. Payments must be made payable to this address.
 - Can process any shield or part if it doesn't have hazardous contaminants such as arsenic (As).
- 1156 Mississippi Avenue, Dallas, TX 75207
 - Cannot process parts with arsenic (As), copper (Cu), or nickel (Ni/NiV).

YieldWorks will work hard to provide great value, quality and service with a focus on using data to improve our parts service, customer equipment performance, and reduce CoO while increasing yields.