Apogee™ Mechancial Debonder

With DataStream™ Technology

Cost Effective Equipment

The Apogee™ debonder enables the use of high temperature bonding materials while maintaining very low-stress room temperature debonding.

Serving the Semiconductor Industry Since 1987

BENEFITS

- Compact design for minimized footprint
- In-house debonding of fully processed thinned device wafers
- Device wafer debonding on film frame to fully support device wafer and minimize handling risk
- Full-color, 7-inch touch screen display
- DataStream™ technology
- Force logging

TOOL FEATURES & SPECIFICATIONS

- Substrate sizes (round): 50 mm to 300 mm
- Force range: 0 to 100 N (1 to 22 lb)
- Low stress to device wafer
- Excess force sensing: Failsafe error recovery

PROGRAMMABILITY

- Touch screen interface and display
- Full-color alphanumeric-capable graphical user interface (GUI)
- A virtually unlimited number of user-defined recipe program steps
- 0.1-second resolution for step times (9,999.9 seconds maximum step time)
- View process status and download for offline analysis
- Process traceability for every wafer
- On-line graphical process charts and logs for force and cycle time
- Connectivity: USB/Ethernet port for communications for uploading/downloading process parameters with DataStream™ technology

RELIABILITY AND THROUGHPUT

Debonding Tool Platform Reliability	
Total Throughput	Up to 20 WPH
Yield	> 98%
Wafer Size	50 mm to 300 mm
Operating Temperature	Room Temperature

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(573) 466-4300

UTILITIES

- Voltage: 110–240 V AC; 50/60Hz; Single Phase
- Power: 350 Watts
- Vacuum: <20 kPa (>20 in Hg), 20 liters/min (.7 cfm)
- Nitrogen or CDA: 482.6 kPa (70 psi)

DIMENSIONS

- 635 mm W x 914 mm D x 1842 mm H (25" W × 36" D × 72.5" H)
- Machine weight: 153 kg (337 lb)
- Shipping weight: 300 kg (661 lb)

DATASTREAM™ TECHNOLOGY: CONNECTING THE SEMICONDUCTOR INDUSTRY

DataStream™ technology gives you access to all of your connected Apogee™ manufacturing equipment in one place to track, access, and modify your systems via a web browser. This technology will give manufacturers the ability to process and visualize data in real time and search and export that data into a number of different formats.

Real-Time Process Information

- Constant feedback of process information for monitoring critical process parameters
- Streamlined interface between different tool types
- Visual cues on process status & health

Environmental Monitoring

- Monitoring of temperature & humidity allows for stricter control of critical processes
- Set preconditions and tolerances for monitored parameters
- On-screen, colored visual cues for deviation from controlled specs

Advanced Recipe Creation

- Seamless switching between basic and advanced recipe creation methods
- Plain-English recipe translation
- Pre-defined process commands
- Unlimited process steps
- Unlimited recipe storage

Data Logging & Export

- Export data logs into commonly readable formats for further analysis and process troubleshooting
- Increase process efficiency
- Identify process control deviations
- Analyze multiple processes for best known method (BKM) development

Effective Date: 4/1/2019