

Apogee® Mechanical Debonder

With DataStream™ Technology

Eliminate process variability and manual debonding risks with a semi-automated system designed for repeatability, substrate safety, and operational efficiency. Supports a wide range of adhesives, wafer sizes, and process scales.

Cost Effective Equipment

Serving the Semiconductor Industry Since 1987

BENEFITS

- NRTL listed for OSHA and ANSI compliance
- Compact and self contained
- Fully automated debond sequence
- Semi-automated wafer loading/unloading
- Device wafer debonding on film frame to fully support device wafer and minimize handling risk
- Enhanced logging with DataStream™ technology

SPECIFICATIONS

- Substrate sizes: 50 mm to 200 mm
- Room temperature
- Peel force: 1 to 75 N
- Force resolution: 1 N



RELIABILITY

- Industry leading uptime
- 1-year full warranty on parts and labor
- Complimentary remote technical support for the life of the product
- Application process assistance for the life of the product

PROGRAMMABILITY

- Full-color touchscreen graphical user interface (GUI)
- Recipe control of temperatures, force, speed, and time
- Unlimited user-defined program steps for each recipe
- 0.1-second resolution for step times (time:0-9,999.9 s/step)
- Up/download DataStream™ process parameters via native USB and Ethernet ports
- Process logging and traceability for every wafer
- On-line graphical process charts
- Remote process management

Total Throughput	Up to 20 WPH
Qualified Wafer Materials	SiC, GaN, GaAs, InP, sapphire, silicon, glass, and more...
System Uptime	>98% over a 12-month period
Mean Time To Repair (MTTR)	< 24 hours
Mean Time Between Failures (MTBF; hours, cycles)	>600 hours, 6,000 cycles

UTILITIES

- Voltage Ranges: 110-125, 208-230VAC Single Phase
- Power Requirements: 950 W, 9.5 A (max)
- Vacuum: 1/4" Push to Connect, <20" Hg (33kPa)
- N2/CDA: 1/4" Push to Connect, 70psi (482kPa)

DIMENSIONS

- 24" (610mm) W x 33.5" (851mm) D x 73.25" (1861mm) H
- Machine Weight 337 lb (152.9 kg) *excluding accessories*

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 provides manufacturers with 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 process modules
- Visual cues on process status & health

Advanced Recipe Creation

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

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

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

© 2026 Cost Effective Equipment, LLC.

All statements, technical information, and recommendations contained herein are based on tests we believe to be accurate, but the accuracy or completeness thereof is not guaranteed and the following is made in lieu of warranty expressed or implied. Neither the seller nor the manufacturer shall be liable for any injury, loss, or damage, direct or consequential, arising from the use or inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith. No statement or recommendation contained herein shall have any force or effect unless in an agreement signed by officers of the seller and manufacturer.

Effective Date: 11/06/2025 Rev A

CostEffectiveEquipment.com

+1.573.466.4300