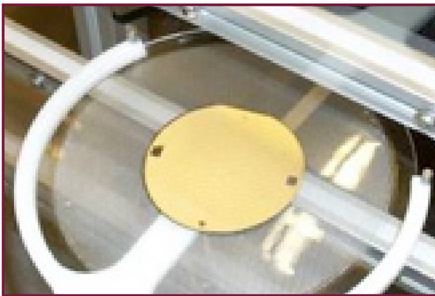
Other Specifications

Platen Maximum Temperature: 300°C
Substrate Sizes (round): 2 in, 3 in, 100 mm, 125 mm, 150 mm, 200 mm
Constant Force Mode: 0 to 100 lb (with maximum velocity limit of 100 mm/s)
Logging: Critical force, distance, velocity, upper/lower platen vacuum, upper/lower platen temperature, z-position, and entire process duration time
Excess Force Sensing: Failsafe error recovery

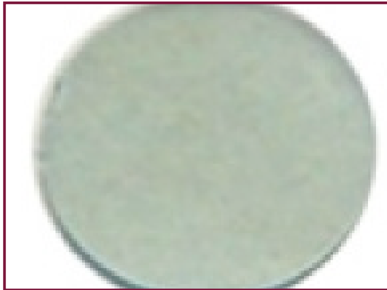
Utility Requirements & Dimensions

Exhaust: 20-30 cfm at 1" W.G. (4" OD exhaust duct)
Electrical: Voltage range 208-240 V, single phase, 50/60 Hz, 3500 W
Power Requirements: 18 amps
Vacuum: -25" to -27" Hg (optimal vacuum: -27" Hg, 4.5 m^3/h)
Nitrogen or CDA: 100 psi, 1 cfm
Optional Enclosure Purge: 3/8" push-to-connect (PTC tube) (20 psi)
Dimensions: 49" W x 39.5" D x 52.5" H (125 cm W x 100 cm D x 133 cm H)
Machine Weight: 415 lb (187 kg)
Shipping Weight: 1,280 lb

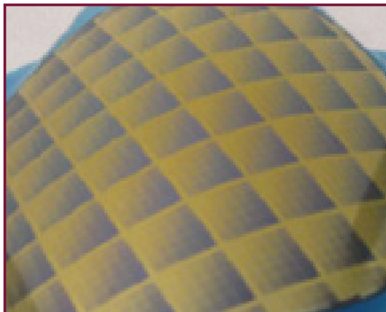
Successfully qualified with the following device wafer types:



GaAs: diameter: 3 in, 100 mm, 150 mm; thickness: 50-170 µm



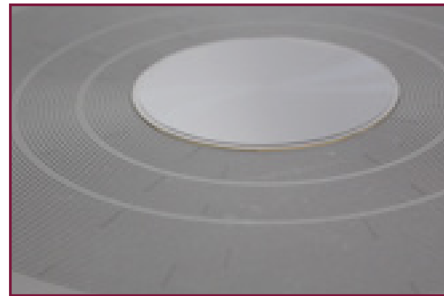
SiC*: diameter: 100-150 mm; and InP: diameter: 100 mm; thickness: 50-170 µm



Si: diameter: 3 in to 200 mm; thickness: 50-725 µm

*SiC image courtesy of Silicon Quest International, Inc.

Compatible bonded-pair carrier materials and sizes:



Sapphire carriers: diameter: 3 in to150 mm; thickness:1-1.5 mm

Si carriers: diameter: 2 in to 200 mm; thickness: 280-725 µm

Glass carriers: diameter: 2 in to 200 mm; thickness: 280-725 µm

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