

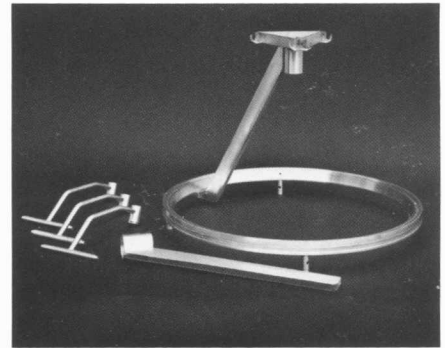
Available Sizes & Capacities

CHA fixturing is available in four standard sizes: 021, 031, 041 and 051. Each handles a variety of wafer sizes and capacities. Refer to typical fixturing cross section diagram and the following chart for dimensions, wafer sizes and capacities.

Fixture Model Number	Wafer Diameter and Capacity					
	2"	2-1/4"	2-1/2"	3"	4"	5"
#021-18" Independent Loading	60	54	36	24	15	—
#021-Dimensions	A = 16" B = 20"		C = 33" D = 8"		E = NA F = 19.5"	
#031-19.5" Independent Loading	87	63	45	36	18	12
#031-Dimensions	A = 18" B = 20"		C = 38-1/2" D = 8-3/4"		E = 8-3/4" F = 19.5"	
#041-25.5" Independent Loading	144	114	75	63	36	21
				Frontload 75		
				Backload		
#041-Dimensions	A = 24" B = 26"		C = 43" D = 12"		E = 6-3/4" F = 25.5"	
#051-32" BJ 34" Baseplate	234	—	—	108	60	39
#051-Dimensions	A = 30" B = 33-1/4"		C = 46" D = 15"		E = 12-1/4" F = 32"	

Retrofit Kit

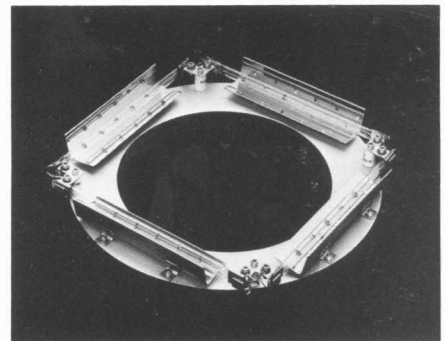
CHA Industries manufactures a retrofit kit for converting existing fixturing to individual loading. All that's needed is 3-planet hangers (use existing CHA planets), hub support with shielding, and hub assembly.



Optional Equipment

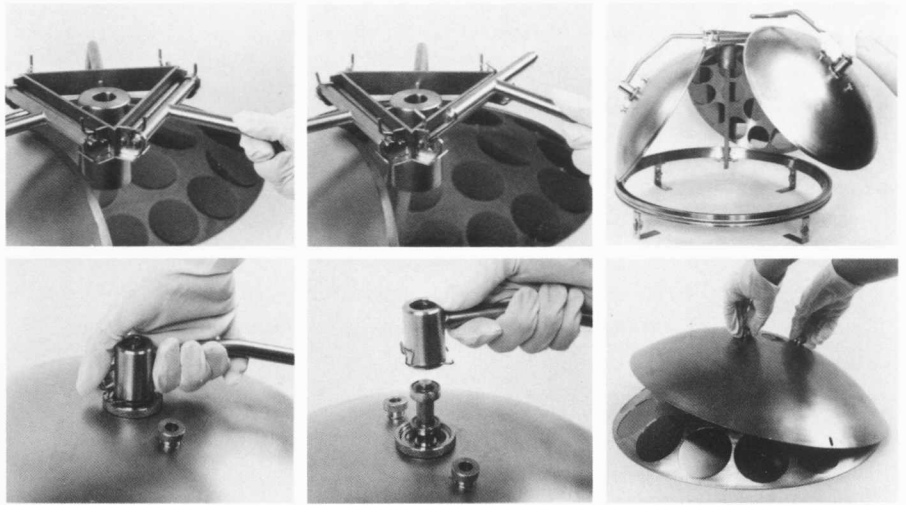
Quartz Lamp Substrate Heater

CHA Industries' quartz lamp heaters are rated at 500 and 1200 watts, and are available in arrays ranging from 1 to 16 kW. All lamps are vacuum-pumped as opposed to conventional heaters, which are iodine-filled.



Fast, Easy Planet Removal

The quick-release planet lock makes it easy to remove domes without any special tools or holders.



Features

Water-cooled ring and track assembly. Domes rotate on this stainless steel track at speeds of up to 150 RPM. Water cooling prevents distortion or "working" when heat is applied.



Offset drive assembly. O-ring sealed and differentially pumped, the assembly includes self-aligning, stainless steel gears that are easily removed.

Quick-release clamp. Provides fast, overhead access to the monitor head.

Monitor head. Is located directly above the source for accurate thickness and rate. The entire assembly can be withdrawn and crystal changed conveniently out of the chamber working area.

Stainless steel bell jar. Ambient or water-cooled with externally mounted motor with variable speed control, monitor housing and mounting plate, and sight port.



Fixture support rods. Stainless steel, precision ground to close tolerance to permit use of CHA Industries' cam lock support collars and scissors/shutter assembly.

Bell jar guide rod. Directs up-and-down motion of chamber. Quick release allows chamber rotation for easy cleaning.

Planet hangers. For individually removable planet series.

Frontside loading. Comes with CHA angle tabs. Backside loading planets are also available.