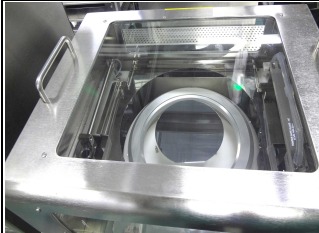






PCT-200CRS TRACK SYSTEM

MASS PRODUCTION WITH DUAL TRACKS (2 COATERS, 2 DEVELOPERS) TOOL SET

Please contact Sales sales@picotrack.com for more information



Coater Module	Developer Module	VPO Module	HPO Module	CP Module
				

Track System Specification	Description					
System designed	US Standard System					
System Configuration (*Configuration available upon request)	COATER 2	VPO	VPO	HPO	HPO	DEV 2
		HPO	HPO	HPO	HPO	
		CP	CP	CP	CP	
		CP-CENT	CP-CENT	CP-CENT	CP-CENT	
TRACK #1 SHUTTLE ARM			TRACK #2 SHUTTLE ARM			
COAT 1	SEND	SEND	SEND	SEND	DEV 1	
	REC	REC	REC	REC		
System dimension	Length: 108" ; Width: 50" ; Height: 90"					
Wafer size (workable dual size)	Up to 8" (200mm) or 6" & 8" auto conversion					
Wafer shape	Round/Square/Rectangular/Triangle/Special					
Wafer material	Silicon/Sapphire/GaAs/ Ceramic...					
Wafer sensor	Optical sensor mapping					
System controller	PC & PLC Controller with Windows OS based					
Chemical canister cabinet	Solvent (EBR, HMDS, Cleaning...), developer liquid					
Pumps cabinet	Photoresist pumps (IDI, Cybor..), dispenser unit, & photoresist bottles					
Indexer wafer cassettes capacity	4 or 8 (available upon request)					
Shuttle Robot Arm	2 Robot arm and dual end effectors					
System Fan Filter Unit (FFU)	optional					
System SECs/GEM	optional					
Coater	2 modules					
Catch Cup Set	Up/down motion					
Spindle Unit	Fixed position					
Maximum spin speed	7000 rpm					
Spin motor type	Servo					
Spin speed accuracy	± 3 rpm					
Acceleration range	0-50000 rpm/sec					
Dispense arm accuracy	± 0.1 mm					
Wafer centering	± 0.1 mm					
Dispense arm motion control	Stepper motor drive and rotation					
Dispense arm # 1 & nozzles	3x or more (3/16" or 1/4" OD) (Standard)					
Dispense arm # 2 & nozzles	3x or more (3/16" or 1/4" OD) (Optional)					
Dispense method	Static, radial and traverse					
Pre-dispense function	Yes					
Top/Bottom EBR	Yes					
Catch-cup rinse(CCR)	Optional					
Cleaning tip nozzle	Optional					
Humidity & Temp. control	Optional					
Photoresist temperature control	Optional (≤ 1°C; 10-50°C range)					
Coating type	Regular, SOG, PG, and Spray (available upon request)					
Developer	2 modules					
Catch Cup Set	Up/down motion					
Spindle Unit	Fixed position					
Maximum spin speed	7000 rpm					
Spin motor type	Servo					
Spin speed accuracy	± 3 rpm					
Acceleration range	0-50000 rpm/sec					

Spin direction	Clockwise (+) & counter clockwise (-)
Dispense arm motion control	Stepper motor drive and rotation
Dispense arm accuracy	± 0.1 mm
Wafer centering tolerance	± 0.1 mm
Dispense arm # 1 nozzles	1 Spray+ 1 Stream or 2 spray+ 2 stream (Standard)
Dispense arm # 2 nozzles	1 Spray+ 1 Stream or 2 spray+ 2 stream (Upon request)
Negative developer nozzles	Cone or fan spray with N2 air assist (Upon request)
Developer dispense type	Stream, Puddle, Fan spray, Cone spray...
Dispense method	Static, radial and sweep
DI water top and back side rinse	Yes
N2 Airing back side ring	Yes
N2 Blow-off top nozzle	Optional
Developer liquid temperature controller	Optional (≤ 1°C; 10-50°C range)
Vapor Prime Ovent (VPO)	2 modules (Stack up)
VPO block type	Aluminum anodized with vacuum slots
VPO Temperature controller	Watlow P.I.D with over heating protection
Temperature thermal probe	RTD or TC
Temperature range	Up to 200°C, Δt: 50°C ≤ 200s
Temperature uniformity	± 1°C (25-150°C), ± 2°C (151-200°C)
HMDS prime method	Fume shower nozzles on top by pressurized N2 with bubbler
Wafer contact angle	≥ 65° on prime silicon wafer
Contact angle uniformity	≤ 1.5° on prime base silicon wafer
Wafer Carrier	3 pins controlled by stepper motor
Bake method	Contact, vacuum & purge bake
Hot Plate Oven (HPO)	6 modules (Stack up)
HPO block type	Aluminum anodized with vacuum slots or proximity
HPO Temperature controller	Watlow P.I.D with over heating protection
Temperature thermal probe	RTD or TC
Temperature range	25-250°C, Δt: 50°C ≤ 200s (>250°C option)
Temperature uniformity	± 1°C (25-150°C), ± 2°C (151-250°C)
Wafer Carrier	3 pins controlled by stepper motor
Bake method	Contact/ Proximity bake/ or fixed proximity
Chill Plate & Centering (CP-CENT)	8 modules (Stack up)
Chill Plate block type	Aluminum anodized with vacuum slots or proximity
Chill Plate Temperature control	House cooling water with flowmeter (18°C to 30°C)
Chill method	Contact or proximity
Cooling Water Temp. controller	Optional
Wafer Carrier	3 pins controlled by stepper motor or air cylinder
Wafer Centering	Integrated