System Description and Included Items :

Item No.	Description	Unit Price	Qty
1	P9000 Frame Processing System — Two (2) Cassette Station — One (1) Frame Module — One (1) Cleaning Module — One (1) Central robot with one end-effector — System Dimension: will be provided later	Included	1
2	Cassette Station — Fix station with tilt capability — Cassette switch — Wafer protrusion sensor	Included	2
3	Central Robot with One end-effector — One end effecter — Greater than 80,000 cycles between failures	Included	1
4	Frame Process Module Description: 5 Dispenses: Two dispense arms required – DISPARM 1 and DISPARM 2 : 1. DISPARM 1 : 1x for Coating (Type IDI M450 pump) 2. DISPARM 1 : 1x for Reserved 3. DISPARM 2 : 1x for top edge wash (Type 10 gallon canister dispense) 4. DISPARM 2 : 1x for DI water. With regulator and indicator 5. DISPARM 2 : 1x for N2 Blow-Off (Fixed mount). With regulator and indicator. Catch cup: ○ Multi-layer anti-splash design Chuck: ○ Vacuum Cuck Motor: Hi Performance brushless AC Servomotor/Controller; Speed repeatability, ± 3 RPM, up to 3000 RPM (for wafers mounted on frame); Max acceleration, 50,000 RPM/Sec; Speed increments, 10 RPM; Programmable time, from 1 to 999 sec.	Included	1
5	Two dispense arms for frame coater module	Included	1

6	Cleaning Module Description: 2 Dispenses: One dispense arm required – DISPARM 1 : 6. DISPARM 1 : 1x IPA canister dispense 7. DISPARM 1 : 1x DI wafer. With water regulator and indicator 8. 1x N2 Blow-Off (Fixed mount). With N2 regulator and indicator. Catch cup: ○ Multi-layer anti-splash design Chuck: ○ Vacuum Cuck Motor: Hi Performance brushless AC Servomotor/Controller; Speed repeatability, ± 3 RPM, up to 3000 RPM (for wafers mounted on frame); Max acceleration, 50,000 RPM/Sec; Speed increments, 10 RPM; Programmable time, from 1 to 999 sec.	Included	1
7	One dispense arm for cleaning module	Included	1
8	Special Hot Plate Oven — 3 pin proximity or vacuum bake, 50 °C to 100°C – depending on tape material — Cast aluminum heater element — Digital temperature controller — Real time display on PC monitor — Hard anodized hot plate oven surface — Special block to handle hoops and frames	Included	1
9	Chill Plate Oven — Vacuum contact — Hard anodized chill plate surface	Included	1
10	Top EBR with flow control and digital flowmeter	Included	2
11	System to come equipped with valves and tubing for reserved dispense as indicated	Included	2
12	Slide-out drawer for IDI pump / bottles w / low sensor	Included	1
13	Drain wash function	Included	2
14	Carboy with H and HH level sensor. Carboy will be in a tray with leak sensor. It will be located behind the system. (Common drain with tee for manual selection of drain to common or carboy)	Included	1
15	2 set of light inside cabinet	Included	1
16	Additional 3 level sensors to each canister, manual alarm panel, refill pump	Included	2
17	IDI450 pump package (25 psi)	Included	1
18	10-Gallon pressurized canisters	Included	2
19	Haskel pump with regulators	Included	1
20	Spare catch cup (Included bottom, insert, and top)	Included	2
21	Spare PC with software for P9000 frame coater	Included	1
22	Special cassettes for 8" hoops	Included	10
23	Ionizer system (ESD controller)	Included	1

24	Source inspection (Maximum 2 persons)	Included	1
25	SECS / GEM Base (The base does not work by itself)	Included	1
26	SECS / GEM Additional Capabilities : ● Establish communications ● Dynamic event report configuration ● Variable data collection ● Trace data collection ● Status data collection ● Alarm management ● Remote control ● Equipment constants ● Process program management ● Material movement ● Equipment terminal services ● Clock ● Limit monitoring ● Spooling ● Control (Host initialized)	Included	1

C&D P9000 Frame Processing Cluster System (2x Indexer) **- Indexer (2x)** **- Frame Processing Module** **- Cleaning Module** **- Special HPO with lid** **- Chill plate** **- Central robot with one end effector**	1