

INDUSTRIAL PLASMA ETCHING SYSTEM

MK-II



THE MK-II IS THE CHOICE OF DISCERNING PCB MANUFACTURERS; OFFERING REPEATABILITY, RELIABILITY, LONG LIFE AND LOW MAINTENANCE COSTS.

WE CAN ALSO MODIFY OR CUSTOM BUILD A SYSTEM TO MEET YOUR SPECIFIC NEEDS INCLUDING RIE (REACTIVE ION ETCHING). THE GENEROUS ALUMINUM CHAMBER ACCOMMODATES A PROPERLY SIZED ACTIVE PROCESSING SURFACE WITH OUR STANDARD CONFIGURATIONS HAVING AS FEW AS 6 OR AS MANY AS 24 PLASMA PROCESSING LEVELS, EACH 24" BY 18."

OUR OXYGEN SERVICE VACUUM PUMP

AND BOOSTER IS EQUIPPED WITH A TWO POINT PURGE SYSTEM TO MINIMIZE ANY CORROSIVE END PRODUCTS FORMING IN THE PUMP THEREBY EXTENDING THE SERVICE LIFE WHILE LOWERING MAINTENANCE COSTS.

PROCESSING YOUR BOARDS, WHETHER THEY BE SMALL OR LARGE, PTFE, POLYAMIDE OR RIGID-FLEX YOU WILL FIND THAT ALL ARE UNIFORMLY ETCHED BY THE MK-II, READY FOR YOUR NEXT PRODUCTION STEP.

AS PLASMA IS INHERENTLY A GREEN PROCESS IT ALSO REDUCES PRODUCTION EXPENSE BY ELIMINATING UNWELCOME AND OFTEN EXPENSIVE CHEMICAL WASTE

ASSOCIATED WITH CHEMICAL ETCHING AND CLEANING. OUR SIMPLE TO USE, INTUITIVE TOUCH SCREEN INTERFACE HAS CONTROL OVER EVERY ASPECT OF THE PLASMA PROCESS ENSURING RELIABILITY AND REPEATABILITY.

REST ASSURED THAT THE PLASMA ETCH TEAM WILL BE THERE FOR YOU AS LONG AS YOU OWN YOUR SYSTEM.

PLASMA ETCH

PROGRESS THROUGH INNOVATION

3522 ARROWHEAD DRIVE
CARSON CITY, NV 89706
775.883.1336
WWW.PLASMAETCH.COM
SALES@PLASMAETCH.COM

STANDARD SYSTEM FEATURES

6, 8, 12, 16 AND 24 HORIZONTAL "SHELF" SYSTEMS AVAILABLE
EACH SHELF IS 24" X 18" ON 1.5" SPACING
R.F. GENERATOR & AUTOMATIC MATCHING NETWORK 1250 TO 5000 WATTS @ 13.56MHZ
ELECTROSTATIC SHIELDING OF CHAMBER TO PROMOTE UNIFORMITY
PROCESS TEMPERATURE CONTROL 1250 F TO 3000 F TO ELIMINATE A WARM UP CYCLE
TWO MASS FLOW CONTROLLERS, 0-2000 SCCM
LOW GAS SUPPLY PRESSURE ALARMS ON PROCESS AND PURGE GAS
MKS 0-10 TORR CAPACITANCE VACUUM GAUGE
MICROPROCESSOR CONTROL SYSTEM W/ TOUCH SCREEN INTERFACE
MULTIPLE (UP TO 3 STAGE) RECIPE STORAGE
EDWARDS OXYGEN SERVICE VACUUM PUMP | EDWARDS ROOTS STYLE BOOSTER BLOWER
3 MICRON VACUUM PUMP OIL FILTRATION
TWO POINT AUTOMATIC N2 PURGING OF THE VACUUM PUMP
OIL MIST COALESCING FILTER ON THE VACUUM PUMP'S EXHAUST

OPTIONAL SYSTEM FEATURES

WINDOWS COMPUTER CONTROL SYSTEM W/ TOUCH SCREEN INTERFACE
DATA RECORDING, REPORTING W/EVENT VIEWING AND PRINTING
SIGNAL LIGHT TOWER | EDWARDS GV80 DRY VACUUM PUMP
MKS AUTOMATIC THROTTLE VACUUM CONTROLLER | UP TO 4 MASS FLOW CONTROLLERS
PROCESS CONTROLLED GAS STEERING MATRIX; 5 GAS INPUTS THROUGH 2 OR 3 MFC'S
CONTROLLED RATE N2 CHAMBER PURGING | CUSTOM CHAMBER SIZES AND CONFIGURATIONS
CUSTOM ELECTRODE SIZES AND CONFIGURATIONS

FACILITY OPTIONAL

CLOSED LOOP CHILLER FOR RF GENERATOR COOLING
PACKED BED FUME SCRUBBER FOR VACUUM PUMP EXHAUST
HEATLESS COMPRESSED AIR DRYER (VACUUM PUMP PURGE GAS GENERATOR)

SYSTEM SPECIFICATIONS

FOOTPRINT, PLASMA CONSOLE 66 " X 79" X 26"
FOOTPRINT, VACUUM PUMP 16 " X 30" X 17"
WEIGH VARIES WITH CONFIGURATION

FACILITY REQUIREMENTS

AC SERVICE; 120/208 VAC, 50/60 HZ, 3 PHASE 5 WIRE 50-100 AMPS
COMPRESSED AIR SERVICE 80-100 PSI <0.5 CFM
CONDITIONED ENVIRONMENT LESS THAN 850 F NON-CONDENSING
REGULATED PROCESS GASES 15 TO 30 PSI
COOLING WATER SOURCE FOR RF GENERATOR @ 2GPM

CONTACT US TODAY

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