Etching Capabilities: *

- 3mil lines (76 μ) and spaces with 1oz. copper
- 2 mil lines (51 μ) and spaces with .5oz. copper

Alkaline Etchant Parameters for High Quality Etch:

- Temperature: 120° F (49° C)
- pH: 8.1 to 8.2
- Specific Gravity: 23 to 24 Be’ (1.189 to 1.198)
- Spray Pressure: 20 -24 psi (1.36 to 1.63 bar)
- Expected etch rate: approx. 2mils/min (50 μ/min)

Estimated Conveyor Speed For 1 Ounce (35 μ) Copper At 2 mils (51 microns) Per Minute:

- Standard Length XLI Series – 45 ipm (1.14 meters/min.)

*NOTE: It should be noted that with alkaline etch some dry films etch resists may soften and lose adhesion in the replenisher rinse due to its high pH and may come off in the following water rinse.
STANDARD CONFIGURATION

Station 1 – Load (18 in. 457mm)
- Wash Down
- Vent Connection

Station 2 – Etch (57 in. 1448mm)
- 38 in. 965mm Effective
- Specific Gravity Control Auto Baume
  (set point ±0.5 Be to ± 0.006)
- Chemical Dosing
- Split replenisher Feed
- pH monitor
- Pump out
- Emergency Exhaust (Lid open)
- 1.5 gpm (5.68 lit./min) cone nozzles
- Upper/Lower Pressure Gauges

Station 3 – Replenisher Rinse (32.3 in. 820mm)
- Two stage Cascade
- Vent Connection

Station 4 – Isolation (12 in. 305mm)
- Drag out control (Rollers)
- Fresh Air inlet

Station 5 – Rinse (43.3 in. 1100mm)
- Three Stage Cascade
- Flow meter to sump/fresh

Station 6 – Unload (18 in. 457mm)

System Total Length: 180.6 in., 4587mm

Notes:
- Ultra-Thin conveyor Standard
- 75 ft. (22.8m) Wiring Harness
- Adjustable Conveyor Speed Range: 14 -140 ipm
- Product Thickness – 0.004(0.1mm)- 0.250(6.35mm)
- Maximum Operating Temperature: 130°F, 54.4°C

SYSTEM OPTIONS

- Containment Pan
- Ion Exchange
- Specific Gravity Controller (IX)
  (Set point ±0.15 Be to ± 0.002)
- pH Controller
- ORP Controller
- Optional Rinses
- Inline Filters (150 micron)
- Dryer
- HDI – Intermittent Spray & EAM
- Flextrak Package (below .004 in., 0.1mm)
- Ventilation Demister
- Cooling System (Chiller)
- Extended Load & Unloads
- Available Conveyor Widths
  - 20, 30, 40 and 60 Inch(508, 762, 1016, 1524mm)
- Power Options
  - 208/3/60, 230/3/60, 460/3/60, 400/3/50
- Other options available upon request

Customer Notes And Additional Details: (ex. voltage, width, etc)