

AUTOMATIC WAFER TRANSFER SYSTEM

MCL x50

Features & Benefits

- The MacLite Senior Series with junior function, transfers wafers between two 25 Slot Carriers and one 50 slot Process boat. Carriers/boats can be plastic, Teflon®, Quartz, Silicon Carbide, Polysilicon and metal boats.
- Fast & Smooth, featuring ramped speeds. A 50 wafer transfer is under 56 seconds.
- Operator interface is with a 12 key keypad with a 4 line LCD display.
- MacLite machines are totally electronic, with an auto switching power supply, 110 Vac 60 Hz or 240 Vac 50/60 Hz.
- The machine will not introduce more than 1.5 particles, greater than .23 micron in diameter, per wafer per transfer (machine must be exhausted to achieve this figure).
- Single Board PC controlled.
- Sensors detect wafers and cassette or process carrier presence for safety.
- Flat alignment is maintained during transfer.
- Machine will not drop wafers in the event of a power failure and will prompt the operator through the Recovery Mode after power has been restored.
- All exposed aluminum parts are hard Black Anodized.
- Covers are powder covered aircraft grade aluminum.
- Uptime will exceed 99.95%.
 - MTBF (mean time between failure): 2,500 hours
 - MTBA (mean time between assist): 1,000 hours
 - MTTR (mean time to repair): 1 hour

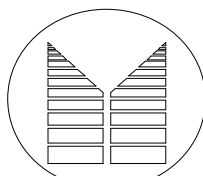
Options

- Vespel package for high temperature applications
- Stainless steel covers.
- Hot Wafer/Boat Sensor



Specifications/Facilities Requirements

- Power: 110-220 V.A.C. 50-60 hertz
Single Phase 3 Amp (110Vac)
- Grounding: Single Point Low Impedance (provided)
- Exhaust: 1.25" port Dia. 5 CFM max. (Non-process)
- Wafer Size: The MacLite system can be designed for any common single wafer diameter from 3" (75 mm) thru 8" (200 mm)
- Weight: 70 Lbs. Approx.
- Dimensions: 3, 4, 5 and 6 inch: 8" (W) x 14" (D) x 32" (H)
8 inch: 10" (W) x 14.5" (D) x 32.5" (H)



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