

With Zephyr You Get Plate/Tip Loading . . .

Problem: As liquid handlers get smaller, the number of available deck locators limits the amount of walk away time. This is not a big deal for single plate run workstations like Zephyr SPE or Zephyr GW however for multi plate run liquid handler applications, limited deck space often requires operator interactions with the system. Obviously when operators are tending to the liquid handler they cannot be doing other more productive tasks.

Solution: Caliper's Maestro (v5.x and greater) liquid handling software supports direct control of the Twister II robotic loader. There is no need for external scheduling software, which results in Twister II being a very clean extension of the liquid handler, all controlled from one software package. No additional layer of software, no extra training, no added cost.

How This Benefits Users: Smaller liquid handlers can also be loaded by a plate stacker, which is often low cost, but very much restricted to plate load/unload only. Conversely, a robot could be used however that would require some higher level software or a less integrated approach (low level ActiveX). The same can also be true for larger liquid handlers except many of them (Tecan EVO, Hamilton, PE, Beckman) have the option for an additional arm on the liquid handler. This is similar to Maestro from a software perspective, however there are few hardware disadvantages. First, using the second arm to access off deck instruments is limited since the external device must be placed right up next to the liquid handler (generally to the side). Once you do that, you really cannot reach anything else. Second, since most applications will do this to access extra plates or tip boxes the external device is often a storage carousel or incubator. Now, not only do you have to pay for the extra arm on the liquid handler but you also have to pay for the storage device. With Twister II, you get both! Additionally, Twister II can load plates, tip boxes or nested tip racks (for extended walk away time). Also, Mecour now makes temp controlled racks that replace existing TII racks (see photo, which could obviate the need for an incubator or refrigerator).



Part Number	Description
79838	Twister II with Servo Gripper (round base, no controller*, single storage pod, three storage racks)
105602	Twister II with Servo Gripper (square Base, no controller*)
Options	
79974	Conversion Kit - Twister II with no Pods (round base Twister II only, for existing unit)
123111	Twister II - Labcyte MicroClime (lid removal finger set)
125182	Twister II - Extended Finger Set (lid removal finger set)
76840	Twister II - Additional Storage Pod (+3 Stacks, round Twister II only)
103484	Twister II - Additional Storage Rack (1)
126295	Twister II - Mecour, Twister II Heated/Cooled Storage Rack (need high capacity recirculator)
126417	Twister II - Mecour, High Capacity Liquid Recirculator 110VAC (-20 °C to + 150 °C Temperature range)
122560	Zephyr - Riser, Required to Lift Zephyr for TII access (or could use leveling feet)
100879	Equipment Leveling Feet (Set of 4)
78504	1 Year Extended Warranty – Twister II

*Use liquid handler PC

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