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Find the *Tomtec Quadra 3* at our website: *Click HERE*

QUADRA 3 CHERRY PICKER

Tomtec (located in Hamden, CT) announces the introduction of a Quadra Cherry Picker automated liquid handling workstation. The Cherry Picker head consists of eight (8) individual precision pipettors mounted on an X-Y bridge. Each pipettor can move, through program control, to the machine centerline. The Quadra Cherry Pickers indexing stage may position any microplate well on the same centerline. The net result is full automation for "Cherry Picking" the compound library in High Throughput Screening (HTS).

A user-supplied worklist, on a disk format, supplies the source plate barcode identification, the desired well location and the volume to be transferred. This can be from 300 nanoliters to 60 microliters, utilizing Tomtec's positive displacement pipettor design. Another option goes to 200µL per tip. The destination plate may be from 1 to 3 microplates in either the 96 or 384 well format.

To increase throughput and maintain flexibility in operation, up to eight (8) samples may be picked before dispensing. These eight samples may be from eight individual source plates, or up to all eight from one plate. The source plates come in and out automatically through the Quadra's stacker cassettes. Up to 100 plates can be fed in and out from one loading operation. For convenience in handling, each stacker cassette holds twenty-five (25) plates. They can be twinned to infeed fifty (50) from each side. The three destination plates reside on the Quadra shuttle.



Quadra Cherry Picker with Twinned Stacker Cassettes

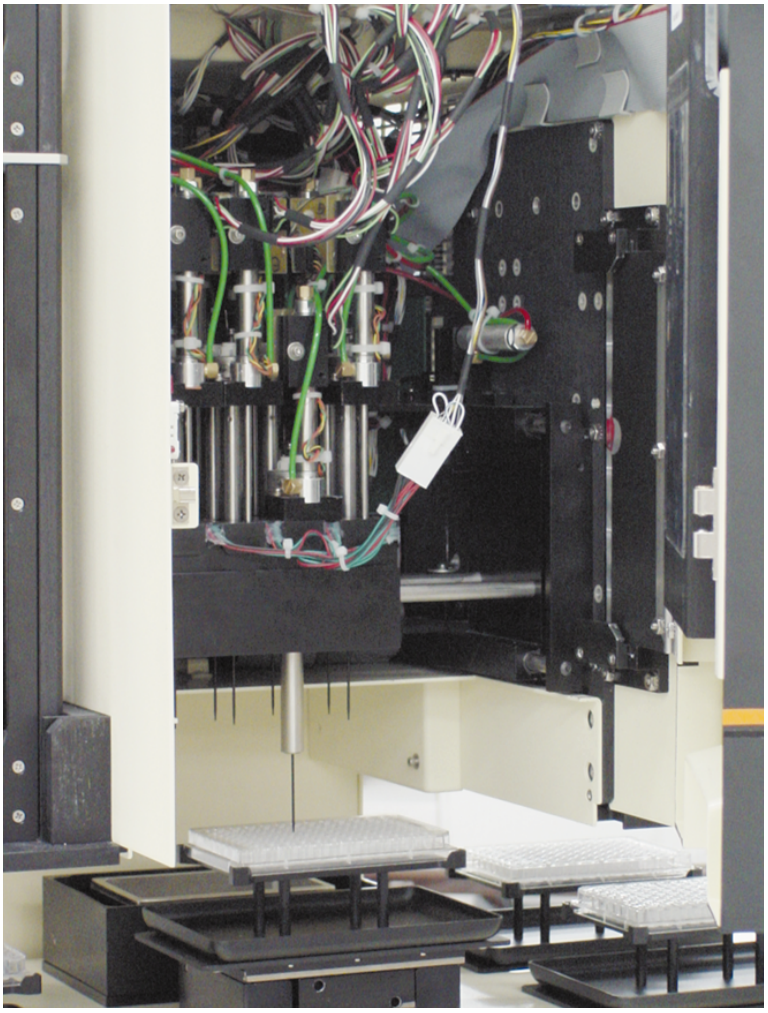
After picking eight compounds they are dispensed into the desired destination plate. Compounds for three different assays can be picked concurrently with one pass through the source plates. If desired, the destination plate well location may be defined. An on-board barcode reader maintains the audit trail, which is available on a disk format, or a communication link.

TOMTEC

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The pipettor tips are custom drawn stainless steel that are Teflon coated inside and outside. Following the dispense, all eight pipettors are washed in a circulated ultrasonic wash station. The wash station may be 100% DMSO or combinations of DMSO and water. It's shallow design permits complete fluid change, over between wash cycles.



Quadra Cherry Picker Head

From one filling of 100 source plates, the Quadra Cherry Picker can pick one compound from each plate, and transfer these to a destination plate in 60 minutes. If multiple compounds are picked, per source plate, the throughput will be correspondingly faster. All is accomplished automatically without operator intervention.

For further information, please contact us at: 1-877-TOMTEC3 (866-8323)

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