

PLATE CACHE

Hotel Carousel



Plate Cache Model: CS-RA-220



KiNEDx Robot Unloading Plate Cache

- Random Access Hotels (Portrait)
- High Capacity Servo'd Carousel
- 150 or 220 Plate Capacity
- Room Temperature Incubation
- Robot Accessible
- Simple Serial Commands

PLATE CACHE

Hotel Carousel: The Plate Cache is a high-capacity storage carousel for use in applications requiring random access storage of microtiter plates. It holds 10 individual Plate Hotels (portrait orientation) and has a capacity of 150 or 220 standard microplates, with or without lids.

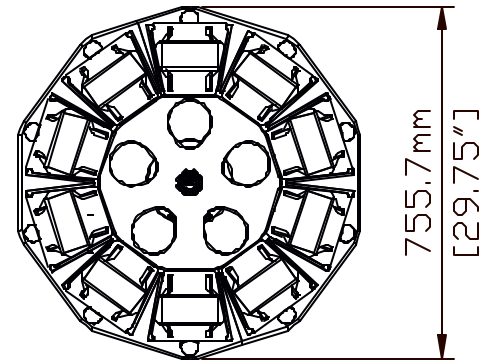
Removable Hotels: Plate Hotels are removable and easily click into the carousel base where a multipoint datum registration system ensures repeatable alignment.

Controller: No separate controller is required. All electronics reside onboard and a single serial cable connects between the Plate Cache and optional PC. Automatic control is easily accomplished using a small set of serial commands. Teaching is easy using the robot's "array" function.

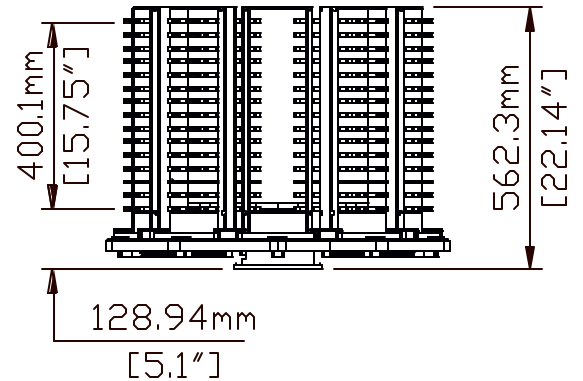
Drive System: A single servomotor powers the Plate Cache giving it much of its simplicity and reliability. A harmonic drive gear reducer ensures zero backlash for excellent repeatability.

Applications: The Plate Cache is designed for high throughput applications requiring storage and retrieval of individual microtiter plates. This is often a requirement for protocols specifying room temperature incubations for set time periods.

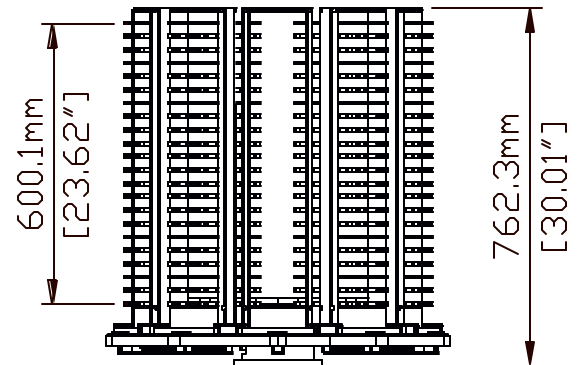
Plate Cache, Plan View



Standard Height, Elevation View



Extended Height, Elevation View



Specifications:

Capacity:	
Standard Height Hotel	150 Standard Plates
"	80 Deep Well Plates
Extended Height Hotel	220 Standard Plates
"	110 Deep Well Plates
Speed:	
Rotary	60 degrees/sec
Index Time: 1 station	0.9 Sec
Index Time: add'l stations	0.6 Sec/station
Environment:	
Temperature - Min	2 deg-C (36 deg-F)
Temperature - Max	40 deg-C (104 deg-F)
Weight:	
Standard Height Hotels	50 kg (110 Lb)
Extended Height Hotels	60 kg (132 Lb)
Power:	24 VDC, 2a Supplied In-Line Power Supply, 100-250 VAC
Compliance:	CE, FCC

The Plate Cache is accessed with Side-Grip-Portrait style robot gripper (SGP)

