The PlateCraneEX and EX360 provides unsurpassed ease and reliability for automating any plate handling tasks in the lab.

The Hudson PlateCrane EX™ is an affordable, flexible option for automating any plate handling tasks. The PlateCrane is available in multiple configurations to meet the needs of the project as well as the budget. Designed to handle all SBS formatted plates, the PlateCrane can be configured with 2 to 15 stacks, and/or the new 10 stack carousel and/or various automation friendly incubators and/or random access stacks and/or Hudson’s LabLinX track based system. Get the plate capacity needed now and scale up at anytime.

The PlateCrane is designed for the scientist while maintaining the reliability and flexibility required by automation specialists. With the optional teach pendant and optional vision teaching system setting positions is almost as easy as pressing a button. Whether one instrument or an entire workcell, the PlateCrane is the continued choice for laboratory automation solutions.

PlateCrane EX™

The PlateCrane is a simple yet robust pick and place robotic arm designed specifically for moving SBS standard microplates in a laboratory. Multiple stack configurations are available to meet almost any need.

- Handle any SBS standard microplate including 96, 384, 1536 as well as deep well blocks and tip boxes
- Automate plate handling with over 200+ different instrument
- Work with lidded plates or plates without lids
- Small enough to fit into a standard laboratory hood
- Random access stackers available for RT incubation and time point assays
- Add additional plates to a run with ease
- Autofind feature will search through each stack looking for additional plates
- All PlateCrane systems come standard with SoftLinX V Scheduling software. SoftLinX is an easy to use, drag and drop scheduling program. Quickly and easily create methods for 2 to 20 instruments.
- All PlateCrane Systems come with an innovative base that allows multiple devices to attach directly to the robotic arm. The system locks together creating a stable work station on almost any surface.
- One (1) PlateCrane EX easily supports multiple instruments
Applications

The PlateCrane EX™ is the ideal solution for automating plate handling in the lab.

**Simple to advanced solutions**

- The PlateCrane sets up easily to over 200 laboratory instruments
- Lids - no problem
- Stack and transport shallow well plates, deep well plates, tip boxes and more
- One PlateCrane supports multiple instruments
- Includes the full version of SoftLinx V scheduling software

Complex plate handling problems made easy with Hudson’s automated plate handling solutions:

- Flow cytometry - Automate and expand the process of moving plates to the Guava & Intellcyt instruments
- qPCR - move plates into and out of BioRad’s CFX & ABI7900 instruments; post PCR plates are no problem, 100 plates+
- Liquid handling - quickly and easily expand capabilities of existing deck systems with the PlateCrane; add more for less
- Plate readers - Remove lids, set up time point assays and create multiple instrument workcells
- Create customized, total solutions that are flexible & scalable as well as easy to operate & affordable

Specifications

The PlateCrane is available with either a standard gripper or a side gripper for random access applications;

*Both grippers are rotary for working with either landscape or portrait nest positions

Choose the standard PlateCrane EX or the PlateCrane 360 for more flexibility and speed

All PlateCrane systems work with lidded plates

Optional teach pendant makes teaching positions fast and easy

The PlateCrane comes standard with 5 stacks; each stack holds 25 plates with lids, 30 SW plates without lids or 9 DW blocks

Plate capacity can be expanded to 15 stacks or a carousel

Optional temperature controlled stacks are available

**Hardware:**

- Arm mechanism: Ball bearing axis with high-speed screw rail; EX model has 345° rotation, 360 has full rotation
- Horizontal reach: 12 inches (30.48 cm)
- Vertical reach: maximum 22.75 inches (57.79 cm) from table, 18 inch (45.72 cm) vertical travel distance
- Motors: 200 steps per motor revolution
- Sensors: Proximity switch and encoder pulse
- Height: and weight: 29 inches (73.66 cm); ~45lbs. (20.41 kg) without stacks
- Operating temperature and humidity: 15° to 40° C (59° to 104° F); 0 to 85%, no condensation
- Computer interface: RS232
- Power input: 120V / 230V AC, 50/60 Hz

Fast, easy plate handling solution

Complex automated solution made easy