

# KX-2

LABORATORY ROBOTS



North American Distributor



# KX-2



FOR FLEXIBLE, SAFE AND RELIABLE LABORATORY AUTOMATION, LOOK NO FURTHER THAN THE INNOVATIVE KX-2 COLLABORATIVE LABORATORY ROBOT FROM PAA.

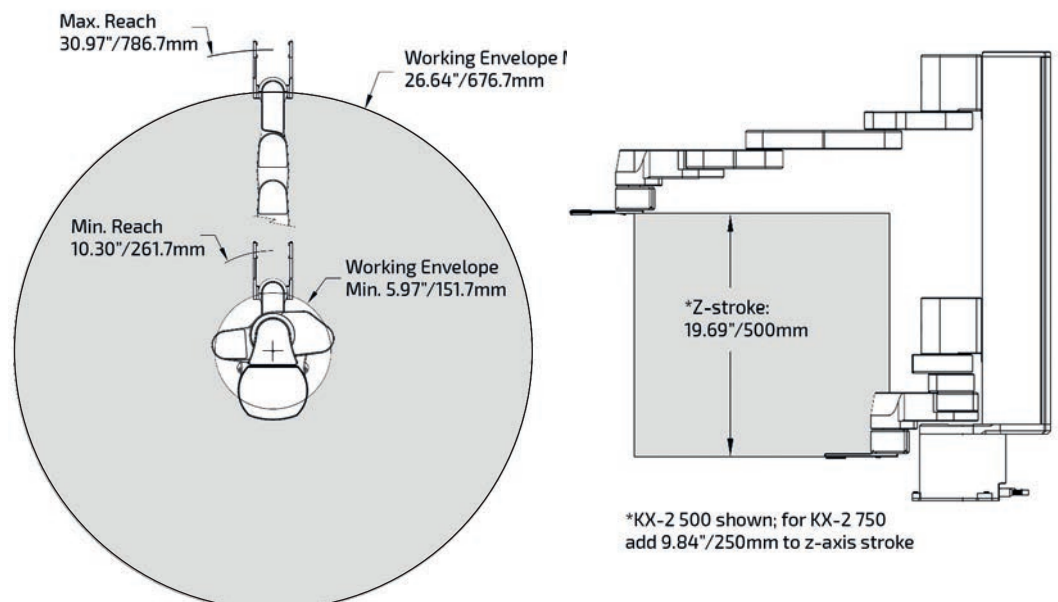
The KX-2 offers continuous 360 degree rotation on the shoulder and wrist axes, providing process optimisation and increased throughput.

The full enclosure design makes it intrinsically safe and proven PAA technology delivers reliable performance for all your automation needs.

## Key Benefits

### / Flexible

With 360° continuous rotation of the shoulder and wrist axes and a multi-link arm, the KX-2 offers extensive reach for effective use of the available space. The radial compactness of the KX-2 arm combined with a wide reach allows easy instrument accessibility and optimal instrument placement, leading to improved instrument density, easy serviceability and increased throughput.



### / Easy to decontaminate

The KX-2 was developed with contamination minimisation in mind. The sealed design is wipe-clean with no bug traps, making it well-suited for Biosafety Level 2 applications.

### / High safety

The KX-2 is ideal for use on an open bench as operator safety is assured – the KX-2 stops safely on human contact. The fully enclosed working mechanism ensures finger protection, making the robot fundamentally safe to use. The KX-2 is fully compliant with safety standards: ISO 10218-1:2011.



### / Simple to set up and easy to use

The KX-2 features drag-to-teach technology providing easy automation of workflows. Simply move the robot arm through the pathway to the correct position and with the touch of a button the teaching is complete. In the event of power loss, the KX-2 arm remains in position and the servo gripper maintains hold on the plate. On power up, the KX-2 retains taught positions, allowing immediate resumption of the workflow.



### / Flexible handling

The KX-2 can handle a wide range of labware from different types of plates to tip racks, tube racks, petri-dishes and T-flasks, making it the robot of choice for a variety of research applications, including synthetic biology, drug discovery and biotechnology. The counter-balanced arm of the KX-2 allows handling of full deep well plates at maximum extension for optimal use of the work envelope.

## Additional Features

/ On-the-fly barcode reader reduces set-up times

/ Integrated plate sensing gripper as standard

/ Advanced error detection and recovery makes it easy to find and fix errors

/ Landscape/portrait gripper eliminates the need for re-grip station

/ Gravity neutral robot making the arm light and easy to position

## Safety

The KX-2 is CE marked and compliant to all current international standards.

ISO 10218-1:2011	Inherently safe
TS 15066	Collaborative safety
BS EN 13849-1:2015	Control system safety
CSIPR11/FCC Class A	Emissions
IEC 61326-1:2012	EMC
IEC 61010-1:2010	Electrical safety

## Specifications

Radial reach (SIDE-GRIP)	786.7mm (30.97in)
Radial compactness	193mm (7.6in)
Radial stroke	525mm (20.7in)
Rotation	Continuous unlimited rotation on shoulder and wrist axes
Z-travel	KX-2 500: 500mm (19.69in) / KX-2 750: 750mm (29.53in)
Encoders	Magnetic absolute encoders on robot joints
Communication	USB
Teaching	Drag-to-teach-point, one touch teach button on robot
Status light	Programmable LED array
E-stop	Dedicated E-stop allows the KX-2 to be used in large system integrations
I/O	Onboard I/O for direct peripheral control
Compliance	Fully compliant in accordance with Category 3 Safety Standards

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