

# Xantus<sup>Jr</sup>

compact  
 cost effective  
 simple

ROBOTIC  
 LIQUID  
 HANDLING  
 PLATFORM



Unique micro-annular gear pump for both precision pipetting and dispensing

**Xantus Junior** is a cost effective, compact and simple single tipped sample processor, with flexible application software for automating any liquid handling task.

Like all members of the Xantus family, Xantus Jr features a unique micro-annular gear pump with excellent precision and accuracy over a wide pipetting volume range. The pump is located in the robotic arm to maximize deck space available for labware, and can be used for both precision pipetting, and for bulk fluid dispensing from a reservoir.

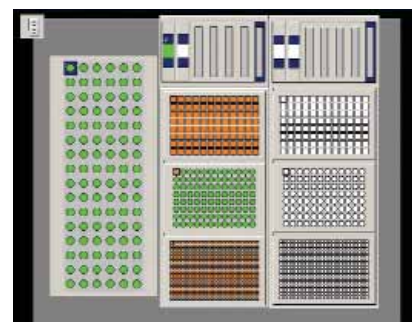
Xantus Jr shares many design elements, functional modules and parts with the comprehensive Xantus family of robotic workstations, and is a robust, reliable and flexible robotic sample processor.



A choice of washable or disposable tips



Liquid level sensor with optional clot detection



X-AP application software – easy to use, flexible and comprehensive, and common to all Sias Xantus platforms



## SPECIFICATIONS

<b>Pipetting channel</b>	Single channel with micro-annular gear pump integrated into the arm		
<b>Tip format</b>	Washable (various materials and coatings) or disposable		
<b>Liquid level sensing</b>	Capacitance, min. vol. 50 µl in a flat bottom microplate, with clot detection facility		
<b>Pipetting volume range (standard pump)</b>	1 – 2000 µl. Volumes outside this range may be possible		
<b>Positioning precision</b>	X, Y and Z +/- 0.2 mm		
<b>Dimensions</b>	Width	Depth	Height
	565 mm	a. 600 mm b. 650 mm	a. 560 mm b. 685 mm (approx. 900 mm incl. tubing)
	Tip range X: 408 mm	Tip range Y: 344 mm	Tip range Z: 146mm
<b>Weight</b>	40.5 kg without accessories		
<b>Deck capacity</b>	12 microplate positions or equivalent. Tube racks, reagent holders and other accessories are available		
<b>Operating conditions</b>	<b>Temperature</b>	15°C to 30°C	
	<b>Relative humidity</b>	10-85% at 30°C or below, non condensing	
<b>Electrical power, interfaces and communication</b>	<b>Voltage</b>	90-240 V, automatic voltage regulation	
	<b>Power</b>	500 W	
	<b>Interfaces</b>	CAN bus (USB connection to PC) OEM specific interfaces can be integrated	
<b>OEM customization</b>	Sias colors can be exchanged for your own livery (minimum order restrictions apply)		
<b>Compliance</b>	<b>CE + CB</b>	73/23/EEC; 89/336/EEC; 98/37/EC; 98/79/EC EN 292-1:91; EN 292-2:91+A1:95; EN 1050 :96; EN 61010-1:01; EN 61010-2-081:02+A1:03; ISO 14121:99; EN 61000-3-3:95+A1:01; EN 610010-2-101	
	<b>IVD compliance</b>	Xantus Jr has been developed to comply with IVD requirements, simplifying the process of registering your application solution	

**Software** X-AP software – an easy to learn tool with drag and drop user interface – enables deck layout customization and implementation of liquid handling tasks

Sias also offers a Developer Kit (SDK), which includes the DLL and COM-object together with supporting documentation, enabling OEM customers to write a specific software interface for the Xantus in Microsoft C++, Borland C-builder and Visual Basic

**Options** Please contact us for more information about options available to perfect your application

**Other Xantus products** The Xantus product range includes single and multi-tipped liquid handling with flexible tip spacing, and robotic modules for OEM and integration, and an extensive range of workstation configurations to suit all laboratory liquid handling applications

