



## Cavro<sup>®</sup> Mini Sample Processor (MSP)

OEM component for reliable automated sample preparation

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## Laboratory systems engineered for you

In today's fast-paced environment, time-to-market is a major consideration for any instrument designer. However, the efforts required to comply with regulatory standards often have an impact on development and production timelines. The need for extensive component testing and validation data can also hold up release of new products, potentially harming your position in the marketplace. One way to simplify regulatory acceptance of your instruments is to use OEM components, such as the Tecan Cavro® Mini Sample Processor (MSP), that have already been extensively tested and verified.

- **Short time-to-market**

The Cavro MSP is a liquid handling platform offering rugged, dependable and validated performance for use in various OEM solutions. Designed for easy integration with other components, it contributes to reduced project risks and costs, and can shorten development time for applications such as general laboratory automation, genetic and proteomic research, and mother-daughter plate replication.



- **Scalable to specific applications**

Available in two sizes – the Cavro MSP 9250 and Cavro MSP 9500 – and with a choice of one or two robotic arms, the Cavro MSP's modular construction allows straightforward customization to specific applications.



- **Reduced risk in development**

The Cavro MSP incorporates Tecan's proven robotic and pump modules for excellent performance and reliability, leading to reduced maintenance and service costs and helping to sustain your reputation through greater customer satisfaction.



## Technical features

### Standard or customized configurations

The Cavro MSP is available as single- or dual-arm configurations, and the robotic arms can be configured with reusable PTFE probes, cap piercing probes, disposable tips or an eight-channel probe for microplate applications.

### Minimized cross-contamination

All robotic arms are equipped with liquid level sensing to minimize fluid contact with the outside of the probe.

To further reduce cross-contamination, customers can use the disposable tip option, or a standard PTFE probe with a Cavro MiniWash (MW) Pump for rapid probe cleaning.

In addition, a dual-lumen tip is available to allow the Cavro MW Pump to perform microplate washing functions.



The Cavro MW Pump moves fluid quickly through a wash station or dual-lumen tip for plate washing.

### Wide range of options

The Cavro MSP can be configured with a variety of pumps, racks and other options, and can be matched to the look and feel of your product for OEM volume orders.



Dual-arm configuration with standard probe (left) and eight-channel manifold (right)



Tecan Freedom EVO®-based locating pins provide compatibility with most Freedom EVO strip racks, reagent troughs and microplate racks.

## Product ordering information

Description	Material number	Description	Material number
MSP 9250 POWER	20738807	MSP 9500 L-PWR R-PWR	20738942
MSP 9250 Compliant	20738809	MSP 9500 L-CMP R-PWR	20738944
MSP 9500 POWER	20738946	MSP 9500 CMP	20738948
MSP 9250 L-CMP R-PWR	30032518		

## MSP 9250 and 9500 specifications

### Liquid handling (when configured with a Cavro XLP Pump)

Volume range	0.5 µl – 25.0 ml
Syringe sizes	50 µL, 100 µL, 250 µL, 500 µL, 1.0 ml, 2.5 ml, 5.0 ml, 10.0 ml, 25.0 ml; custom syringes also available
Minimum detectable volume	200 µl with ionic fluid in 96-well microplate

### Software and programming

Software development kit (SDK)	Cavro® Express Software components that are based on COM (optional)
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### Power requirements

	MSP 9250	MSP 9500
Input voltages	auto-selecting 110/230 VAC ± 10 %	100 – 120/220 – 240 VAC
Frequency	47 – 63 Hz	50/60 Hz
Maximum power	250 Watts	350 Watts

### Environmental

Storage temperature	-20 – 65 °C (-4 – 149 °F)
Operating temperature	15 – 40 °C (59 – 104 °F)
Humidity	30 – 80 % RH (non-condensing)

### MSP 9250 dimensions

External (w x d x h)	559 x 600 x 522 mm (22.0 x 23.6 x 20.6 in)
Travel range (w x d x h)	383 x 300 x 165 mm (15.4 x 11.8 x 6.5 in)
Weight of unit	32 kg (~ 70 lbs)

### MSP 9500 dimensions

External (w x d x h)	815 x 600 x 520 mm (32.1 x 23.6 x 20.5 in)
Travel range (w x d x h)	643 x 300 x 165 mm (25.3 x 11.8 x 6.5 in) with one-arm, standard tip
Weight of unit	46 kg (~ 100 lbs)

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