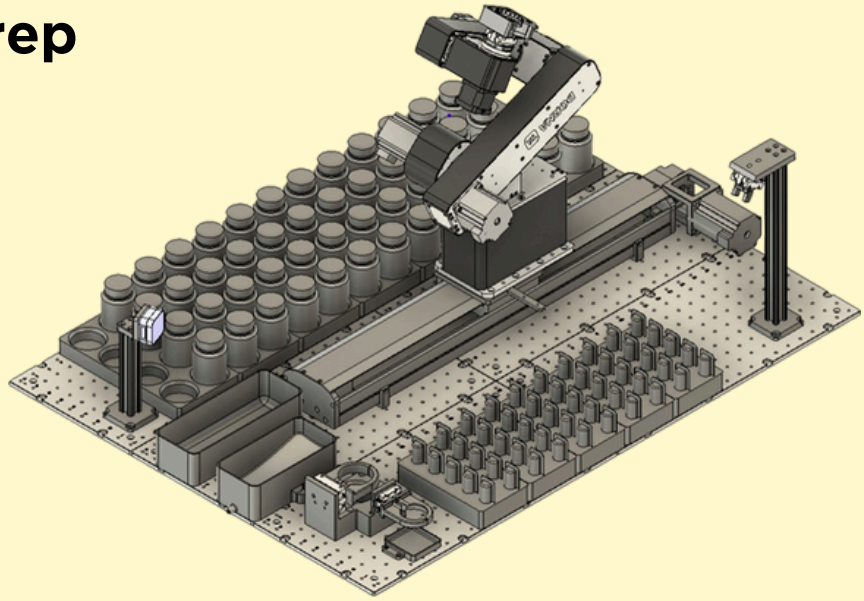
DORNA ROBOTICS

Dorna AquaPrep



Optimized For Water Testing

Water testing requires careful and repetitive operations that consume valuable resources. The Dorna AquaPrep system is the ideal solution for automating tabletop water sample testing, improving reliability, speed, and standardization across tests.

Adaptable Solution For Every Need

The system can quickly and cost-effectively adapt to your application needs thanks to its modularity, fast manufacturing, and flexible programming.

Compatibility

Custom-made fixtures and tools allow processing most bottles and capsules.

Flexibility

A tool changer station can enable operations with complex tools or grippers

Expandability

Processing capacity expandable to up to 100 bottles and capsules per run.

Enhanced Control

Up to 5 additional control buttons for custom and versatile operator control.

AI-Powered Vision

Customized AI-powered detection and classification for automated decision making.

COST EFFECTIVENESS

Up to 80% saving in hardware cost and programming hours compared to other solutions.

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Specifications

Function	Value
Workspace dimensions	Base: 40x34″ Maximum height: 32″
Processing speed	48 bottles/hour
Payload capacity	Up to 2 Kg
Processing capacity	Basic: 50 bottles/run Maximum: 100 bottles/run
Motion repeatability	+/- 0.1 mm

Capabilities

- Automated decapping enables processing capped bottles, protecting sample integrity. Caps are stored suspended in the air, preventing cross-contamination.
- Automated capping ensures all bottles are firmly closed after processing, preventing spills upon pickup.
- Excess water removal standardizes sample volume, improving testing consistency.
- Capsule opening enables processing sealed capsules, preventing contamination or quality degradation.
- Capsule pouring guarantees that all the capsule contents are reliably poured into the bottle without spilling.
- Automated mixing ensures the bottle's contents are consistently mixed, enhancing testing standardization.
- AI-powered image analysis allows for live autonomous decision-making.