

AUTONOMA

LIGHTNING DECAPPER



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AUTONOMA LIGHTNING DECAPPER SOLUTIONS

AUTONOMA’s Lightning Decapper is a fast and efficient way of decapping the postage containers which hold the sample bottles during transport. Decapping these manually is a laborious task which frequently leads to repetitive strain injuries amongst laboratory staff and consumes a significant amount of their time per shift.

Featuring 1,2 or 4 separate belts, operators simply load the postage containers directly onto the belt. Each lane has a separate decapping mechanism which ensures maximum throughput and redundancy. The system automatically unscrews the lid and drops it into a bucket for recycling.

Decapped containers continue through the system onto the output belt which transports them to a workstation for sample registration. Each output belt terminates at a separate workstation which is staffed by an operator. The workstations are configured for optimum ergonomics and allow operators to register samples quickly and efficiently into LIMS and build trays for analysis.

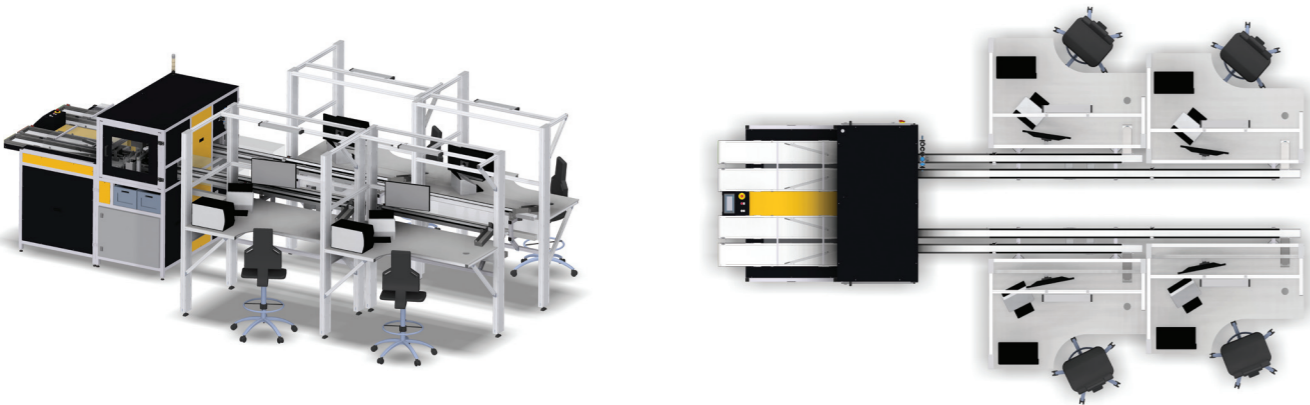
Each lane can process a sample in approximately 10 seconds, which equates to over 8600 samples per lane per day. The machine is easy to use via the built-in touch screen and safety is exceptional, with all doors being mechanically interlocked while the machine is in operation.

The modular design allows simple expansion and interfacing with AUTONOMA’s full range of NextGen laboratory automation in the future.

This includes automatic sample registration via QR code, barcode, or RFID. Registered samples on the output belts can then be moved via a robotic arm straight into a mixer or the first instrument for analysis such as AUTONOMA’s Lightning PQ.

AUTONOMA’s Lightning Decapper can be easily customised to include other features or sample preparation steps. This includes but is not limited to:

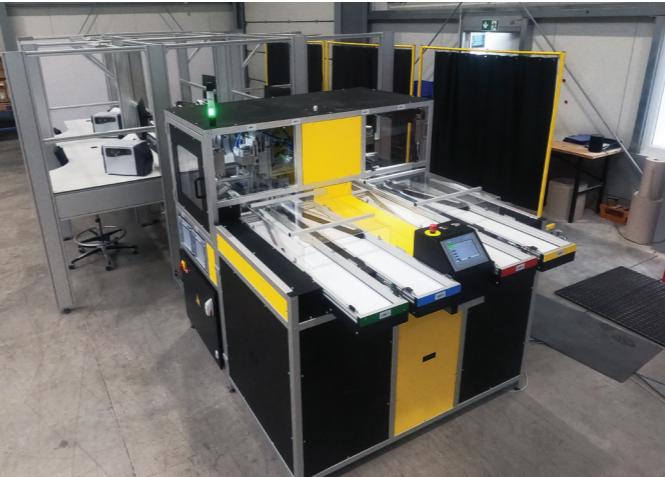
- Automated sorting of containers by lid colour
- Mixing
- PQ
- Turbidity
- Colour Analysis



SPECIFICATIONS

Sample capacity	~8600 samples per lane per 24h
Dimensions	~6400mm (L) x 3600mm (W) x 2200mm (H) (4 lane version)
Mass	~680kg (4 lane version)
Electrical requirements	~1 kVA at 230 V, 1 Φ, 50/60 Hz (can be modified upon request)
Pneumatic requirements	6 - 10 bar
Interface	Ethernet

SAMPLE INPUT BELTS



TOUCH SCREEN INTERFACE



OPERATOR STATIONS



DECAPPED SAMPLE CONTAINERS

KEY FEATURES

- Eliminates repetitive manual unscrewing actions
- Ergonomic for operators to use
- High speed
- Interlocked doors and safety sensors
- Fully modular and interfaces with all other AUTONOMA products

Contact AUTONOMA today to learn more about our advanced solutions, and experience industrial grade automation that’s made to measure.



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