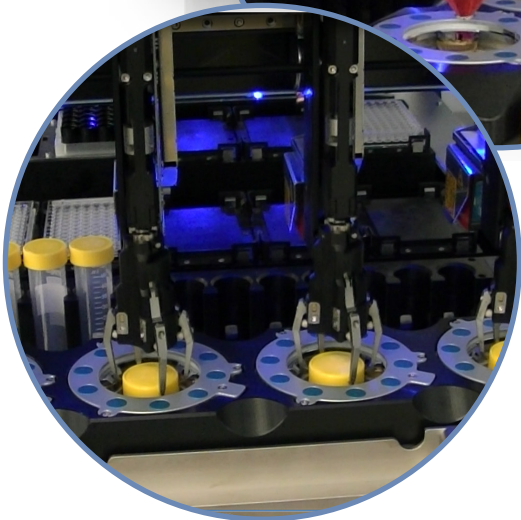


# Decapping STAR™ Workstation

Fully automated decapping solution  
offering de- and re-capping capability for a wide range of tubes



- ▶ Reliable reading of barcodes
- ▶ Wide range of tubes
- ▶ Closed to avoid contamination
- ▶ Rotational mixing during transportation
- ▶ Walk-away automation

# Discover the possibilities

The current manual process of opening and closing capped tubes limits the full implementation of cell culture procedures. Hamilton's automated solution for de-capping and re-capping such tubes addresses this need.

In the field of cellomics, Hamilton offers specialized solutions in field of cell biology research for automated cultivation of cell cultures.

## System Overview

Up to two Decapping Modules can be placed on a Microlab® STAR™ deck which are served by 4 Twister channels on a slim arm with up to eight 1mL or four 5 mL channels added on an additional slim arm. The decapping modules are completely controlled and monitored through VENUS software so that all steps are trackable and can be handled in an automatic manner which increases process safety.

The system can accommodate a wide range of tubes. Tubes with a diameter range from 15 to 38 mm can handled on the modules with caps sizes of up to 6 mm bigger in diameter than the vial diameter to ensure a robust and versatile de- and re-capping capability for wide range of tubes.

The minimum vial height must be 50 mm and the height should not exceed 120 mm. All vial types will be de-capped within 13 seconds and re-capped in 15 seconds with a torque of up to 3 Nm to ensure that the tubes are properly closed and leakage cannot occur during further processing of the screw cap tubes only.

## Technical Specifications

Transport time from one position to another	<14s
Decapping time	< 13s
Recapping time	< 14s
Mixing speed	max. 1500rpm
Barcode reading time	<3s

## Available Microlab STAR Decap versions

All Configuration based on the ML Star (width: 1900mm, height 903mm, depth: 795mm) with two slim arms

Part Number	Description
173000-159	Microlab STAR 4x5ml AL + 4 Twister Channels
173000-160	Microlab STAR 4x5ml ML + 4 Twister Channels
173000-163	Microlab STAR 4x1ml AL + 4 Twister Channels
173000-164	Microlab STAR 4x1ml ML + 4 Twister Channels
173000-165	Microlab STAR 8x1ml AL + 4 Twister Channels
173000-166	Microlab STAR 8x1ml ML + 4 Twister Channels

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