

Automated Manipulator Platform for Corning® CellSTACK® and HYPERStack® Cell Culture Vessels

CORNING

The Corning Automated Manipulator Platform is an effective solution for automating the scale-up of your adherent cell culture process. The automated manipulator platform is designed to save time, reduce cost, and reduce process variability by automating the handling of multiple large stacked vessels during critical fluid handling steps. Optimized for use with Corning CellSTACK and HYPERStack cell culture vessels, the platform consists of a fully programmable manipulator, a manipulator cart, and multiple rack options designed for specific vessel configurations.

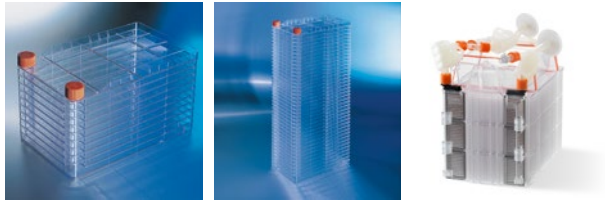
The platform accommodates up to three 40-layer Corning CellSTACK, six 10-layer CellSTACK, or six 36-layer Corning HYPERStack cell culture vessels at a time.

Features and Benefits

- Greatly simplifies CellSTACK and HYPERStack processing
- Automates filling, equilibration, and harvest
- Enables consistent and scalable process performance
- Improves safety by reducing manual manipulations
- Safeguards include intrusion sensors, fixed guards, and interlocks
- Intuitive, programmable touch-screen operator panel
- Full motion control capability
- Low-maintenance electric motor drive system



A digital touch-screen operator panel simplifies programming and operation.



Mountable cell culture vessels



Automated manipulator cart

Cart and rack for Corning CellSTACK-40

Cart and rack for Corning HYPERStack-36

Cart and rack for Corning CellSTACK-10 not shown

Specifications

| | |
|---|--|
| Dimensions (W x D x H) | 1580 x 2080 x 1880 mm |
| Weight | 1,150 kg or less, not including hand truck |
| Pivot | -20° (right) to 130° (left) |
| Tilting speed | 1° to 60°/second (except for acceleration or deceleration range) |
| Required power supply | 3 phase AC 200-230V, 50/60Hz, 7kVA (AC380-440V option available) |
| Mountable vessels | Corning® CellSTACK®: Three 40-layer vessels Corning CellSTACK: Six 10-layer vessels Corning HYPERStack®: Six 36-layer vessels |
| Installation environment | Temperature 0°C to 30°C Humidity: 35°C to 85°C relative humidity or less (no condensation) Air cleanliness: Grade B recommended Floor: Withstand load 1000 kg/m ² , no slope recommended |
| Surface Material | Type 304 stainless steel |
| System meets applicable FCC, CE, UL and CSA Electrical Safety and EMC standards | |

Ordering Information

| Cat. No. | Description |
|----------|--|
| 6650 | Corning Automated Manipulator platform, 180-254V, standard power supply |
| 6651 | Corning Automated Manipulator platform, 380-440V, industrial power supply |
| 6652 | Corning Automated Manipulator cart |
| 6653 | Corning Automated Manipulator rack for Corning CellSTACK-10, holds six CellSTACK-10 vessels, compatible with Manipulator cart (Cat. No. 6652) |
| 6654 | Corning Automated Manipulator rack for Corning CellSTACK-40, holds three CellSTACK-40 vessels, compatible with Manipulator cart (Cat. No. 6652) |
| 6655 | Corning Automated Manipulator rack for Corning HYPERStack-36, holds six HYPERStack-36 vessels, compatible with Manipulator cart (Cat. No. 6652) |
| 6656 | Attachment for Automated Manipulator cart (Cat. No. 6652). Enables the use of Corning Automated Manipulator carts with Thermo Scientific™ Nunc™ Cell Factory™ incubators |

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Corning Incorporated
Life Sciences

www.corning.com/lifesciences

NORTH AMERICA
t 800.492.1110
t 978.442.2200

ASIA/PACIFIC
Australia/New Zealand
t 61 427286832
Chinese Mainland
t 86 21 3338 4338

India
t 91 124 4604000
Japan
t 81 3-3586 1996
Korea
t 82 2-796-9500
Singapore
t 65 6572-9740
Taiwan
t 886 2-2716-0338

EUROPE
CEurope@corning.com
France
t 0800 916 882
Germany
t 0800 101 1153
The Netherlands
t 020 655 79 28
United Kingdom
t 0800 376 8660

All Other European Countries
t +31 (0) 206 59 60 51

LATIN AMERICA
grupoLA@corning.com
Brazil
t 55 (11) 3089-7400
Mexico
t (52-81) 8158-8400