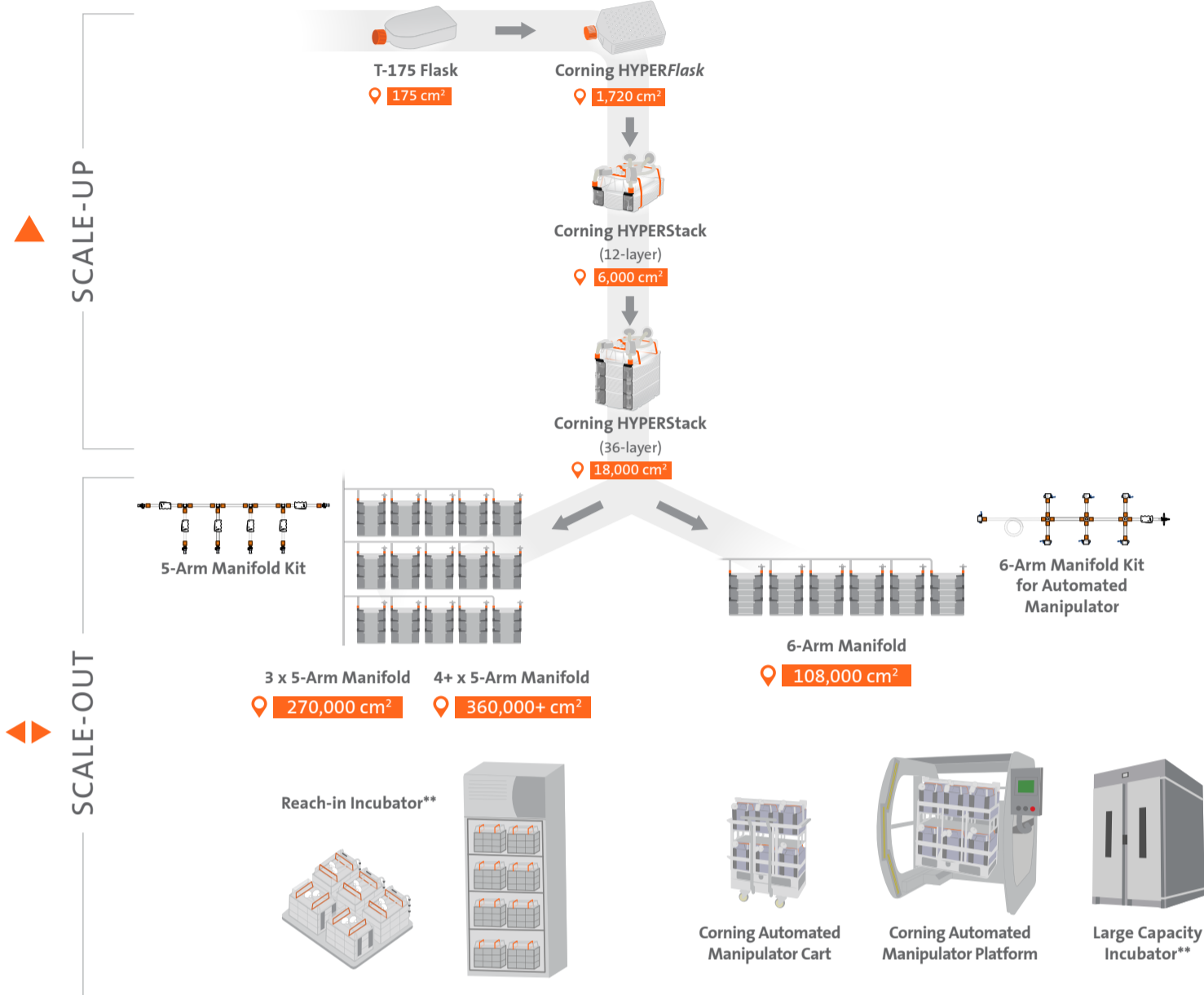


# Scaling Adherent Cell Culture with Corning® HYPER Technology

Whether your goal is adherent cell expansion for cell or gene therapy workflows or biopharmaceutical production, Corning HYPER technology enables you to scale from 1,720 cm<sup>2</sup> to hundreds of thousands of cm<sup>2</sup> of growth surface area. Using an ultra-thin gas-permeable film, HYPER technology is able to provide up to 10X the growth surface area of a traditional cell culture vessel of comparable footprint. Single-use manifolds, laboratory-standard reach-in incubators, and the Corning Automated Manipulator Platform support your scale-out.

## The Road to 300,000 cm<sup>2</sup> and Beyond



## Supporting Your Workflow

<p><b>Filling and Addition of Components</b></p> <p>Inoculation Containers    Manifold Kits    Closed System Accessory Solutions</p>	<p><b>Expansion and Processing</b></p> <p>Automated Manipulator    SUT Bags    Large Capacity Incubator**</p>	<p><b>Harvest and Cryopreservation</b></p> <p>Collection Containers    Customizable Processing Tools    Cryo-preservation Solutions</p>
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\*\* Products not sold by Corning

## Technical Information

<p><b>THE PRINCIPLE</b></p> <p>Gas exchange across gas-permeable film enables up to 10X gain in cell growth surface area versus vessels of comparable footprint.</p> <p>Traditional (stacked) Cell Culture</p> <ul style="list-style-type: none"> <li>Rigid polystyrene layer</li> <li>Headspace</li> <li>Rigid Polystyrene layer</li> </ul> <p>HYPER Technology</p> <ul style="list-style-type: none"> <li>Rigid polystyrene layer</li> <li>Ultra-thin gas permeable film</li> <li>Space between layers</li> </ul>	<p><b>THE PROPERTIES</b></p> <p><b>HYPERStack 12-layer</b></p> <ul style="list-style-type: none"> <li>Surface: 6,000 cm<sup>2</sup></li> <li>Volume: 1.31L</li> <li>Filled weight (approx.): 2.2 kg</li> <li>Dimensions (L x W): 13.42 x 8.15 in. (342 x 207 mm)</li> <li>Vessel Height: 2.8 in. (71 mm)</li> <li>Height with Accessory Tray: 5.5 in. (140 mm)</li> </ul> <p><b>HYPERStack 36-layer</b></p> <ul style="list-style-type: none"> <li>Surface: 18,000 cm<sup>2</sup></li> <li>Volume: 3.92L</li> <li>Filled weight (approx.): 6.6 kg</li> <li>Dimensions (L x W): 13.42 x 8.15 in. (342 x 207 mm)</li> <li>Height with Accessory Tray: 10.97 in. (278 mm)</li> </ul>	<p><b>THE APPLICATIONS</b></p> <p><b>Viral Vector and Vaccine Production</b></p> <p>Amplifying Adenoviral Particles in the Corning HYPERStack Cell Culture Vessel</p> <p><a href="#">Download</a></p> <p>Generating Lentiviral Particles in the Corning HYPERStack Cell Culture Vessel</p> <p><a href="#">Download</a></p> <p><b>Stem Cell Manufacturing</b></p> <p>Large Scale Expansion of Human Mesenchymal Stem Cells using Corning stemgro® hMSC Medium and Corning CellBIND® Surface HYPERStack Cell Culture Vessels</p> <p><a href="#">Download</a></p>
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## Ordering Information

### Corning HYPERFlask® Vessels

Cat. No.	Description	Qty/Pk	Qty/Cs
10020	HYPERFlask M vessel, Corning CellBIND surface, bar coded, sterile	4	4
10034	HYPERFlask M vessel, Corning CellBIND surface, bar coded, sterile	4	24

### Corning HYPERStack® Vessels

Cat. No.	Description	Growth Area (cm <sup>2</sup> )	Qty/Pk	Qty/Cs
20012	HYPERStack 12-layer cell culture vessel, Corning CellBIND surface	6,000	1	4
20036	HYPERStack 36-layer cell culture vessel, Corning CellBIND surface	18,000	1	2

For more specific information on claims, visit [www.corning.com/certificates](http://www.corning.com/certificates).

**Warranty/Disclaimer:** Unless otherwise specified, all products are for research use or general laboratory use only. \* Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. These products are not intended to mitigate the presence of microorganisms on surfaces or in the environment, where such organisms can be deleterious to humans or the environment. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications. \*NOTE: The following products and their sterile accessories are considered US class I medical devices: Tissue culture plates, flasks and dishes (area >100 cm<sup>2</sup>), multilayer flasks, spinner flasks, Erlenmeyer flasks, Corning HYPERFlask and HYPERStack vessels, Corning CellSTACK chambers, centrifuge tubes, cell culture tubes, cryogenic vials, roller bottles, polystyrene microcarrier beads. Falcon IVF products are US class II and CE marked per the EU medical device directive 93/42/EEC.

### Corning Automated Manipulator Platform

Cat. No.	Description
6650	Corning Automated Manipulator platform, 180-254V, standard power supply
6651	Corning Automated Manipulator platform, 380-440V, standard power supply
6652	Corning Automated Manipulator cart
6655	Corning Automated Manipulator rack for Corning HYPERStack-36, holds six HYPERStack-36 vessels, compatible with Manipulator cart (Cat. No. 6652)

### Corning HYPERStack Manifold Kits (coming in 2021)

Cat. No.	Description	Qty/Pk	Qty/Cs
11796	HYPERStack manifold, 5-arm, long, MPC, sterile	1	2
11786	HYPERStack manifold, 5-arm, short, MPC, sterile	1	2
11798	HYPERStack manifold, 6-arm, MPC, sterile, for Automated Manipulator Platform	1	2

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