

Evolution® Utility Integration Solutions

Design overview:

Evolution vertical support columns play a key role in integrating utilities within the bench and delivering services at user or facility levels. Columns provide four basic functions:

1. Columns can serve as vertical utility chases, carrying tubing, cables, connectors, J-boxes, etc.
2. Columns can support overhead horizontal utility chases with vertical travel thru the column. The column design also allows utility access from the floor 'up'.
3. Outlets, panels, valves, pass-thrus etc., may be attached to the column face at user-determined locations, both above and below the work surface.
4. Alternate horizontal 'backsplashes' may be specified, containing outlets, ports and/or other fixtures, cabling, tubing, etc. They connect between columns, span the width of the bench and may be 'daisy chained' via column pass-thru panels.

Column design:

Each column consists of two sections of aluminum extrusion connected by heavy-duty U-brackets. The interior column width (front to back dimension) is offered in varying sizes to accommodate multiple utility lines, tubing, etc. The interior column chase depth (side-to-side) is fixed at 1.25" and supports the bend radius for "0-0" elbows and Ts. Slots in the columns accommodate exterior trim panels which serve two purposes: The first is aesthetic, hiding the interior. The second is as a mounting surface for valves, electrical & data panels and other components. Trim panels are heavy gauge metal to support fixtures and can be cut in the field to allow contractors to install and properly position utility panels, boxes and fixtures.

Available extension kits are available in order to position the top of columns above drop ceilings, allowing connections to be made out of sight within the interstitial space. Utility lines may originate from ceiling drops and chase into column extensions or into the tops of shorter columns via WIPs or a horizontal utility chase.



Overhead utility chase and tubing drops into top of column. Use of quick disconnects allows trim panels to be removed for modifications & additions to installed components.



Column with trim panels removed, dbl-sided bench



Column extension



Overhead utility chase on wide column bench row



Vertical and horizontal utility run thru columns



Gas valve and power outlets in wide column



Electrical & 'convenience' panel punched for future



Utility run under worksurface, thru columns



Enclosed utility chase under worksurface