

PQS

PRACTICAL QUALITY SYSTEMS
Fast Custom Manufacturing - Nationwide Installation Services



PN 81500 Shown

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An Overview of the 4X4 Pole System Product Groups; Totally Modular, Totally Customizable!

Note; for images, descriptions and links to webpages for all of the various 4X4 Pole Systems Product Groups; review the last four pages of this document.

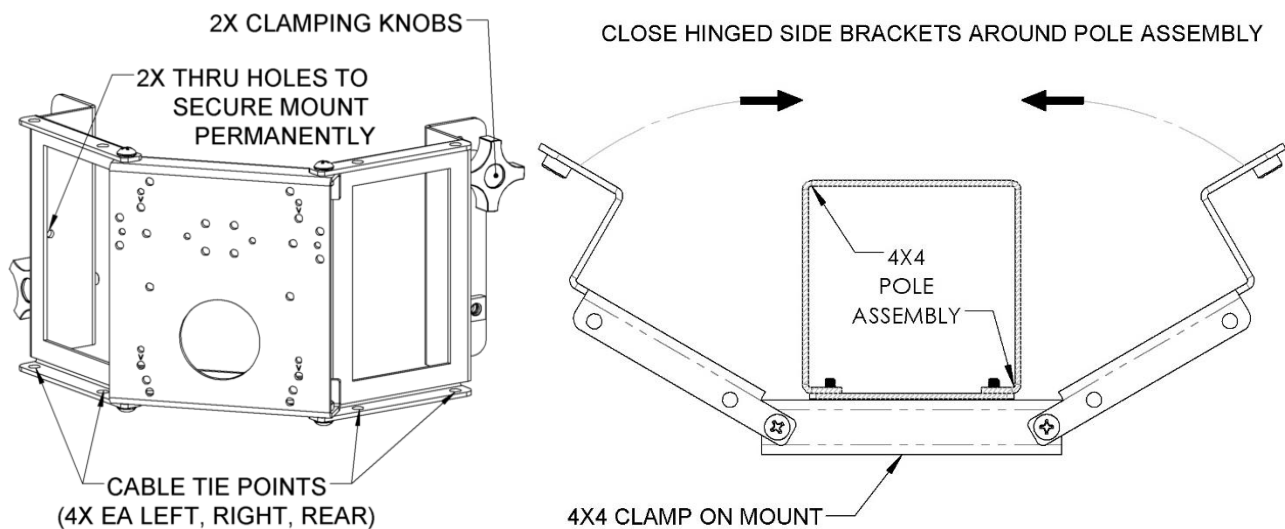
- These product groups consist of modular, industrial grade, multi-arm pole or pedestal channel systems designed to support multiple VESA compatible touch computers, monitors, large screen displays and a wide range of peripheral devices with a variety of accessories such as stainless steel work tables, shelving systems, bag holders, integrated power and data outlets, and more.
- The 4" X 4" square channel assemblies aka "pole sections" and some of the sub-assemblies in this product group are made of heavy gauge, cold rolled steel and are finished with an ultra-durable, black, low gloss; micro wrinkle powder coating that resists chipping, scratching, fading, corrosion and staining. All other components are made of galvanized and stainless steel.
- Refer to the pages entitled "Introduction to the 4X4 Pole Systems Product Groups" for a list of the various types of preconfigured systems.
- All individual components are modular and interchangeable allowing a great variety of configuration options and ensuring the ability to easily reconfigure systems in the future. These systems are made for the most demanding environments.
- We've created many preconfigured product assemblies as examples of how the components can be used in various applications. However, if you have special requirements; know that we can quickly create a custom assembly by starting with a preconfigured assembly and then adding or removing individual system components as needed to render a perfect fit for your application.

What makes these systems different?

- No engineering degree required to understand how the individual components fit together.
- The modular design allows total system flexibility for simplified customization.
- Designing a system doesn't require hiring an architect.
- There's no lost time waiting for custom millwork or fixtures having to be made to fit your space.
- No need to cut and trench concrete floors; these systems can feed power and data down from the ceiling.
- You don't need to deal with multiple contractors; these systems can be installed by any competent electrician.
- The systems are modular and can easily be reconfigured if your needs change.
- There are NO molded plastic structural parts to break or wear out, no springs or pneumatic cylinders to fail and NO special tools required for position adjustment.
- Easy to access concealed internal storage and cable routing on all channel sections.
- The side to side and up and down positioning of support arms, VESA compatible pan and tilt heads, peripheral trays, etc. can be adjusted easily without tools.
- Add power or data outlets at any location along the entire length of channel extension sections.
- We also have vertical and horizontal 4X4 wireway -pole systems that are made entirely of stainless steel.

Need something special?

- Our in house design team offers fast turnaround on custom parts. If you wish to order a quantity of custom products, we will create a new assembly specifically pre-configured for your application.



4X4 Clamp on Mounts Overview

- Each of these products includes a versatile “clamp on” assembly that allows it to be attached securely at any point along a vertical 4”W X 4”D channel assembly or Vertical Wireway without tools.
- All of these mounting systems are compatible with any length of 4X4- Extension section or 4X4 Vertical Stainless Steel Wireways.
- These products consist of modular, industrial grade, clamp on mounts that are designed to support screens, POS printers, POS peripheral devices, stainless side tables, bag holders and more.
- These versatile and adaptable systems are available as complete, preconfigured, turnkey kits or can be custom configured to your specifications.
- All individual components are modular and interchangeable; these features allow a great variety of configuration options and future system reconfiguration possibilities.
- Know that we also make many, many other mounting systems that unlike the 4X4 pole clamp on mounts described in this document; those systems can be attached directly to walls, shelves, countertops, under counter, poles, ceiling etc.
See these and much more on our website ; practicalqualitysystems.com/



PN 81500 Information Kiosk Floor Stand + 48”H EXT+22” Round Base +00mm VESA Flush Clamp on Mount		
PN	QTY	DESCRIPTION
21277	1	22” Round Base Assembly
21261	1	Channel Extension Base Mounting Bracket Kit
51066	1	48” Channel Extension Section
21294	1	36” Channel Extension Blank Cover Plate Kit
21298	1	12” Channel Ext. Cover Plate +1 faceplate blank black + 1 faceplate black 1 1/4” hole Kit
21254	1	Top Cap for Pedestal Channel and Extension Section Kit
81576	1	100mm VESA Flat 4X4 Clamp on Mount

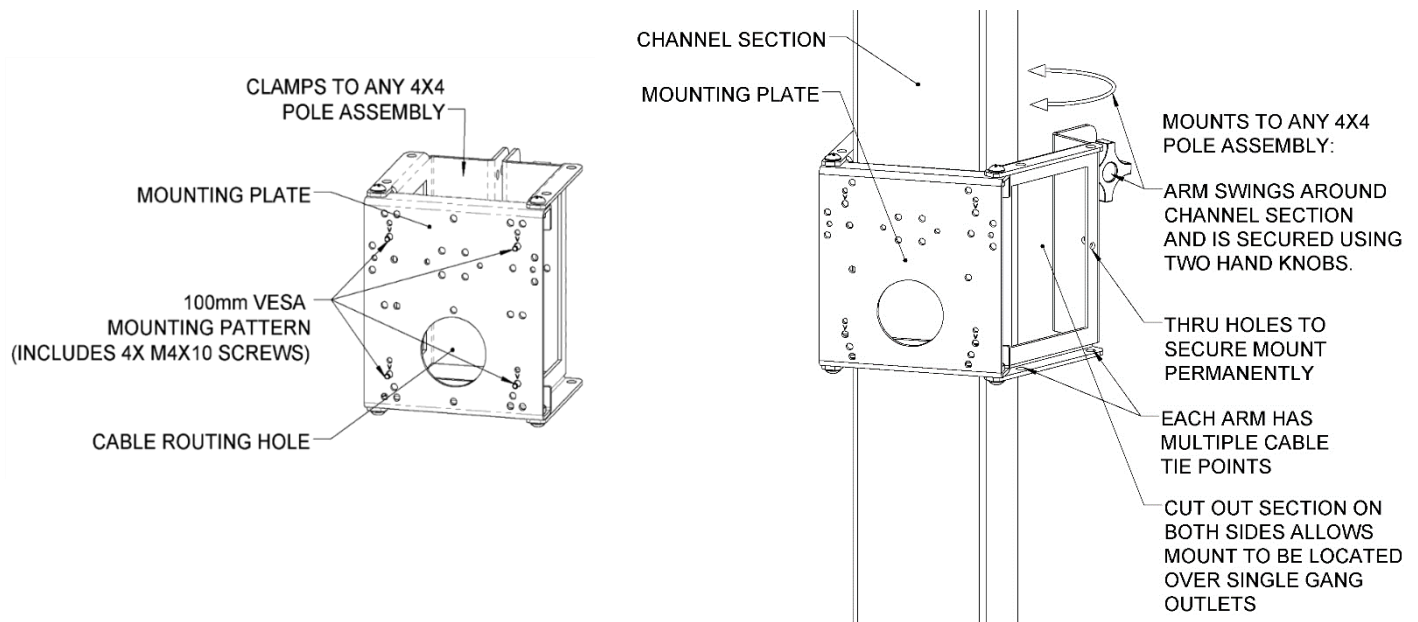


PN 81501 Information Kiosk Floor Stand Information Kiosk Floor Stand + 48”H EXT+22” Round Base +00mm VESA Tilting Clamp on Mount		
PN	QTY	DESCRIPTION
21277	1	22” Round Base Assembly
21261	1	Channel Extension Base Mounting Bracket Kit
51066	1	48” Channel Extension Section
21294	1	36” Channel Extension Blank Cover Plate Kit
21298	1	12” Channel Ext. Cover Plate +1 faceplate blank black + 1 faceplate black 1 1/4” hole Kit
21254	1	Top Cap for Pedestal Channel and Extension Section Kit
81577	1	100mm VESA Tilting 4X4 Clamp on Mount



PN 81503 Information Kiosk Floor Stand Information Kiosk Floor Stand + 48”H EXT+22” Round Base Top Mount 100mm EXT VESA Pan - Tilt Head

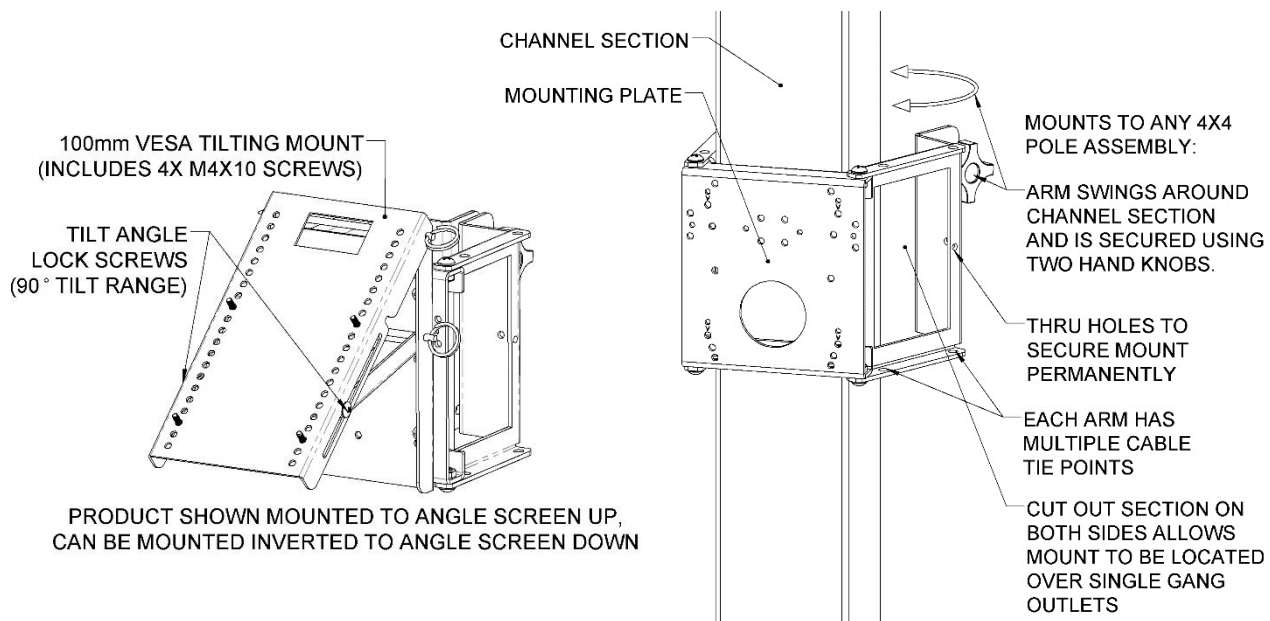
PN	QTY	DESCRIPTION
21277	1	22” Round Base Assembly
21261	1	Channel Extension Base Mounting Bracket Kit
51066	1	48” Channel Extension Section
21294	1	36” Channel Extension Blank Cover Plate Kit
21298	1	12” Channel Ext. Cover Plate +1 faceplate blank black + 1 faceplate black 1 1/4” hole Kit
21256	1	Top Cap for Ped Channel and Extension Section with Extended VESA Pan and Tilt Head Kit



PN 81576 4X4 Clamp on Flat 100mm VESA Mount

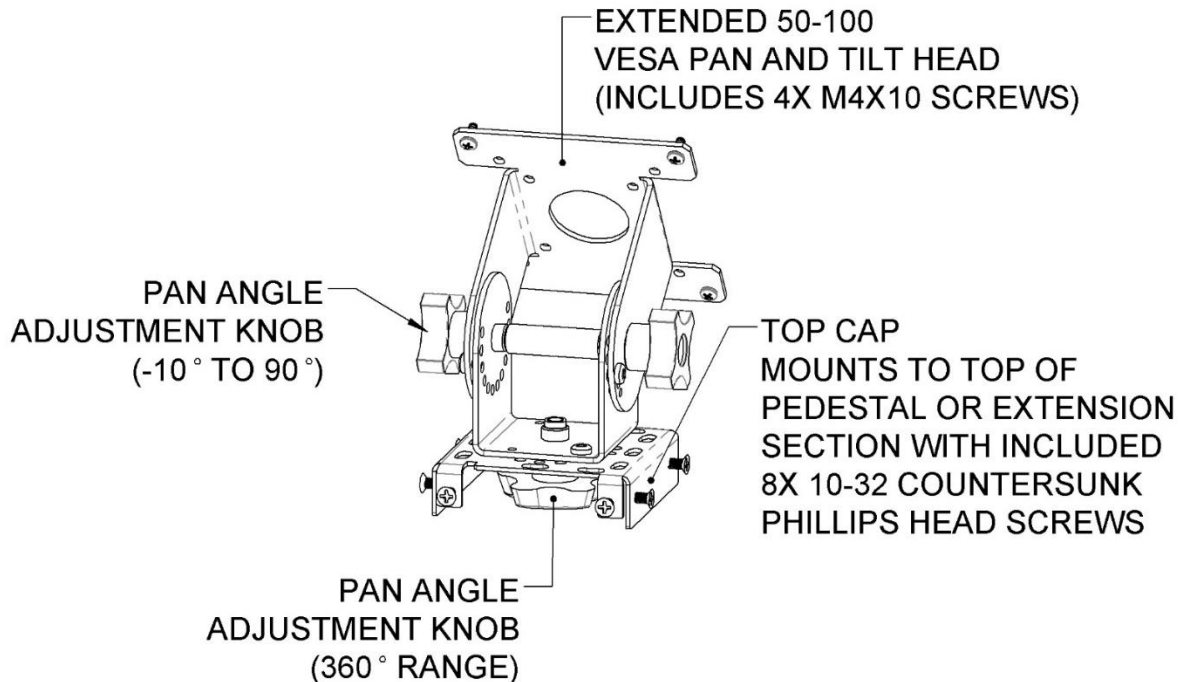
- This versatile mounting system clamps securely without tools at any point along a vertical 4" square pole with the mounting plate oriented parallel to any of the four sides of a pole.
- This assembly allows any 100mm VESA compatible screen to be attached flush to the mounting plate which is raised 1" inch out from the surface of the vertical 4x4 pole assembly.
- The mount includes 4 EA M4 X 10mm L Phillips head screws to attach the screen to the mounting plate.
- The side brackets of the pole clamping system are hinged at the mounting plate and close around the 4x4 pole; two four point hand knobs are inserted through the rear flanges and tightened to provide the clamping action. The knobs can be replaced with 5/16" X 1" L hex or security head bolts if desired.
- Cut out sections on each of the clamping sides allow the mount to be installed over a standard single gang outlet.
- Self-tapping screws can also be installed into the pole through holes in either of the hinging side brackets to secure the mount permanently.

For installation instructions; refer to sections: **Attaching PN 81576 4X4 Clamp on Flat 100mm VESA Mount directly to the back of a 100mm VESA screen, attaching a 4X4 Clamp On Mount to a Pole assembly**



PN 81577 4X4 Clamp on Tilting 100mm VESA Mount

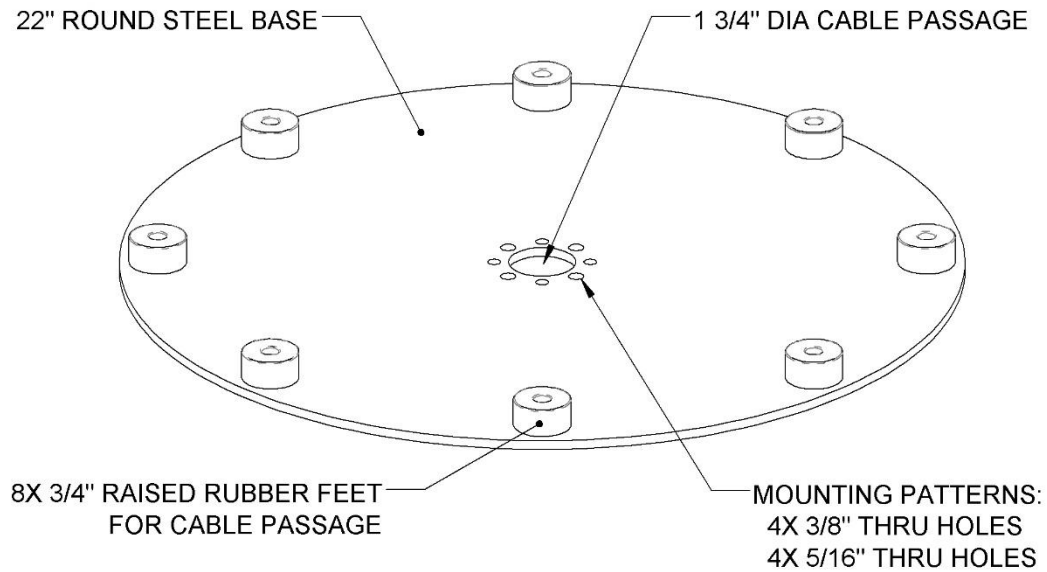
- This versatile mounting system clamps securely without tools at any point along a vertical 4" square pole with the mounting plate oriented parallel to any of the four sides of a pole.
- This assembly allows any 100mm VESA compatible screen to be attached semi flush to the mounting plate which is 2" inches out from the surface of the vertical 4x4 pole assembly when equipped with the Tilting mount. The mount includes 4 EA M4 X 10mm L Phillips head screws to attach the screen to the VESA Tilting mount.
- The Tilting mount is made in two halves that are secured together with long push pins; once one half is attached to the back of the screen; and then aligned correctly with the other half that is attached to the mounting plate; the two pins can be inserted through holes in both plates to secure them together.
- The VESA Tilting mount can be attached to the mounting plate to allow either the top or bottom of the screen to be raised outward from the mounting surface up to 90 degrees.
- Once the desired orientation and tilt angle are determined; two Phillips head screws on the sides VESA Tilting mount can be tightened to secure the tilt angle permanently.
- The side brackets of the pole clamping system are hinged at the mounting plate and close around the 4x4 pole; two four point hand knobs are inserted through the rear flanges and tightened to provide the clamping action. The knobs can be replaced with 5/16" X 1" L hex or security head bolts if desired.
- Self-tapping screws can also be installed into the pole through holes in either of the hinging side brackets to secure the mount permanently.
- Cut out sections on each of the clamping sides allow the mount to be installed over a standard single gang outlet.
- For installation instructions; refer to sections: **Attaching a 4X4 Clamp On Mount to a Pole assembly**



Pedestal or Extension Channel Top Cap with Extended 50-100mm VESA Pan and Tilt Head

- Supports any 50, 75 or 100mm VESA compatible screen.
- Attaches to the top of a Pedestal or Extension Channel with 8 EA 10-32 counter sunk Phillips head screws.
- The top cap includes an array of slots in its top surface that permit a wide variety of signage or other items to be attached with common fasteners.
- Tilt position can be adjusted from +90° to -10° and secured using two 4-point hand knobs.
- Pan side-to-side position can be rotated 360° around a Pedestal Channel Assembly, and secured using a 5-point hand knob located inside at the top of the Pedestal Channel.
- Pan side-to-side position can be rotated up to 270° on an Arm Assembly, dependent on screen size, and secured using a 5-point hand knob.
- Includes 4 EA M4X 10mm L screws to secure any VESA compatible screen.
- Screws located on the Pan Base and Tilt Bracket can be tightened into angle selection holes in the Stand Off Bracket after mounting to lock the selected positions.
- Includes a 1 ½" diameter center cable passage hole on the VESA attachment plate.
- For installation instructions refer to the section:

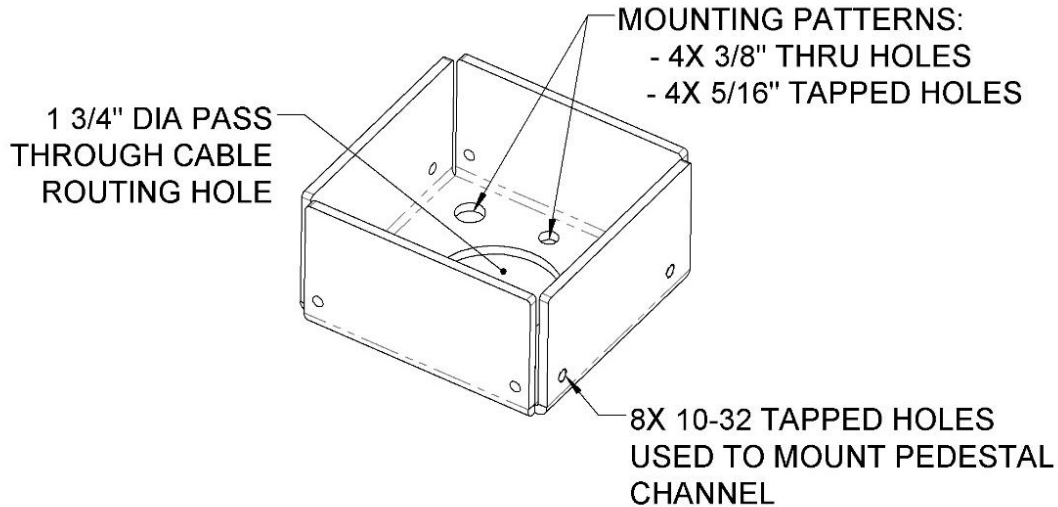
Attaching an Extended 50-100mm VESA Pan and Tilt Head to a Top Cap of a Channel Assembly"



(PRODUCT SHOWN INVERTED)

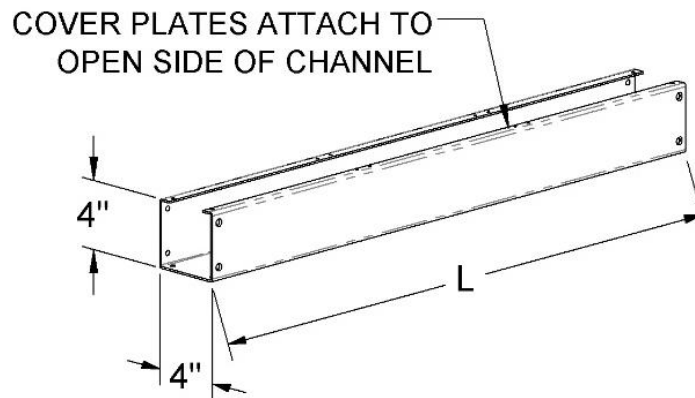
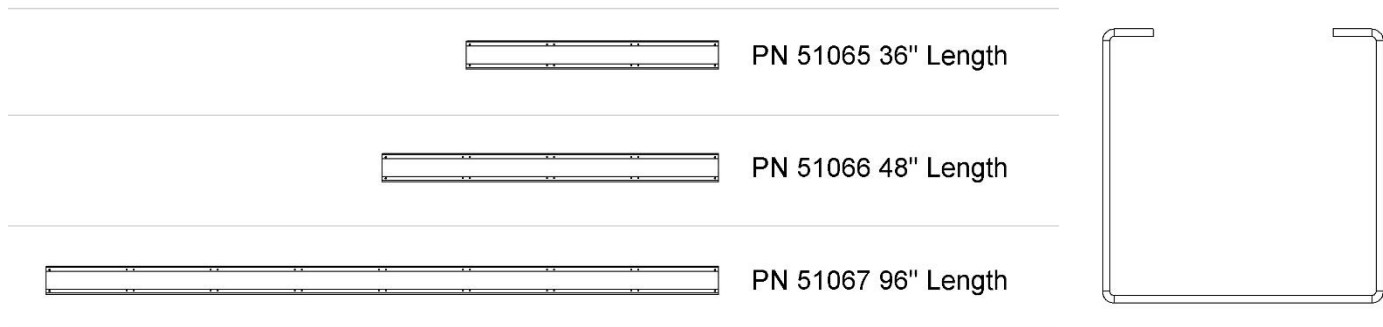
PN 21277 22" Round Movable Pedestal Mounting Base Assembly

- The 22" Round Pedestal Mounting Base is a thick and heavy steel plate with 8 large raised feet.
- Includes a 1 3/4" DIA center cable passage hole that allows the associated cabling to be routed out of the bottom of the pedestal channel or channel extension where the 3/4" tall raised feet allow the cables to be completely concealed beneath the Base Plate.
- The 22" Round Base plate can be used to support a 48" H Channel Extension in movable floor stand configurations. It can also support a 54" H assembly made up of an 18" H Pedestal Channel combined with a 36" H Channel Extension in floor stand configurations.
- Includes a pattern of four 5/16" through holes at the center for attaching a Pedestal and/or Channel extension assembly to the base plate.



PN 51064 Channel Extension Pass Through Mounting Bracket

- This bracket attaches to a Channel Extension section and can be used to mount the channel to a Base Plate or directly to a floor, countertop or any other solid, horizontal surface.
- This bracket has a 1 3/4" diameter hole in the center to allow a number of conduits, armored cables or other cabling to be routed through as needed.
- This bracket is a heavy duty, internal structural member that is made of thick galvanized steel to resist corrosion.
- The mounting bracket includes arrays of through and tapped holes for attaching the bracket to the mounting surface.
- The mounting bracket attaches to a Channel Extension section with #10-32 X 1/2" L Countersunk Phillips Head Stainless steel screws.
- To understand the difference between the two types of channels; know that pedestal channels have a series of 6" tall doors installed on the "Open side" of the channel; while Channel Extension sections have Cover Plates installed on the on the "Open side" of the channel.




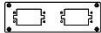



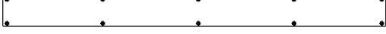
Channel Extension Sections: 36" PN 51065, 48" PN 51066, 96" PN 51067

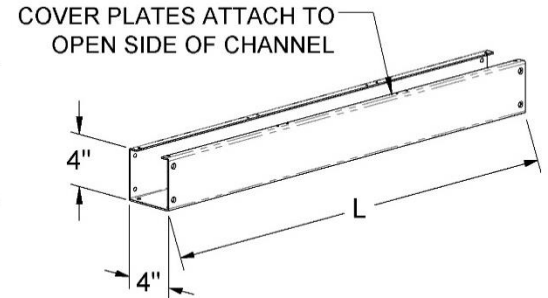
- Channel Extension Sections are 4"x4" square, steel, "C shaped" channel assemblies with three solid sides and one "open" side.
- Channel Extension Sections are available in 36", 48", and 96" lengths.
- Channel extensions may be cut to size in-field for applications where necessary.
- The "Open side" of Channel extension section is closed with Cover Plates available in two basic types with multiple lengths:

Blank Cover Plates - available in 12", 24", 36", 48" lengths.

Cover Plates with Outlet Cut outs - available in 12" and 24" lengths.

- Any Channel Extension Section can be joined to another Channel Extension Section or to a Pedestal Channel Sections via an internal coupler.
- All Channel Extension Sections can be attached to Couplers, Base Mounting Brackets, and Cover Plates with #10-32 countersunk Phillips head screws.
- A wide variety of optional "4X4 Clamp on" mounting systems are available; a stainless steel table top or shelf, several types of VESA compatible screen mounts from 50mm to 400mm, POS Printer and Peripheral mounts, a single shelf unit for a cash drawer, a scale or a T-shirt bag holder and more. These versatile systems can be mounted at any point along the channel and easily adjusted. For more information see the Product Category: **"4X4 Clamp On Mounts"**.
- To understand the difference between the two types of channels; know that pedestal channels have a series of 6" tall doors installed on the "Open side" of the channel; while Channel Extension sections have Cover Plates installed on the on the "Open side" of the channel.

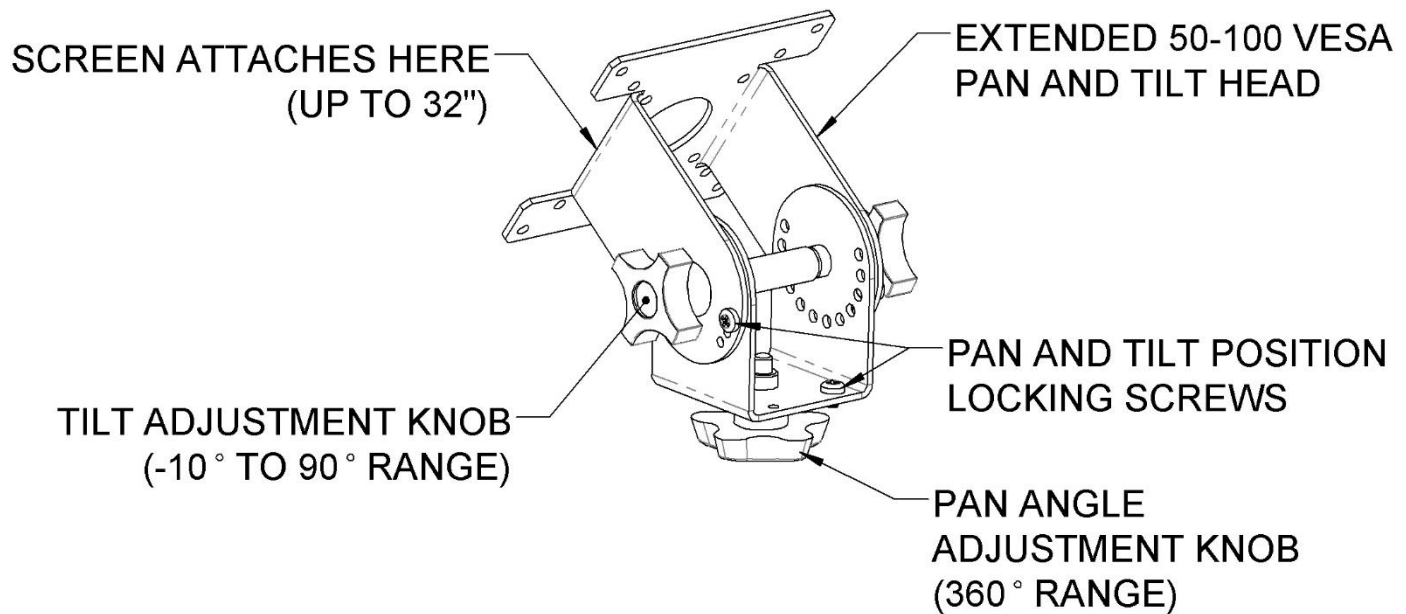
	PN 51075 - 12" BLANK
	PN 51075 - 12" 2 OUTLET
	PN 51071 - 24" BLANK
	PN 51071 - 24" 2 OUTLET
	PN 51070 - 36" BLANK
	PN 51069 - 48" BLANK



Channel Extension Cover Plates and Power/Data Outlet Kits

- Channel Extension Cover Plates are flat sheet metal panels used to cover the open side of Channel Extension sections. Cover Plates are available in two basic types and varying lengths; Blank plates and Plates with single-gang outlet cut-outs.
- Power Outlet kits include a 2 ½"D Single gang junction box equipped with a duplex receptacle and faceplate to create a power outlet. Note; deeper junction boxes and other types of receptacles can also be used.
- Data Outlet kits include a "NO J BOX" mounting kit, a 2 port Keystone faceplate and 2 EA CAT5e keystone data jacks. Note; a Single gang junction box can also be added if required.
- The locations of the power and data outlets are interchangeable on the outlet cutouts of the Cover Plate.
- Refer to the sections:

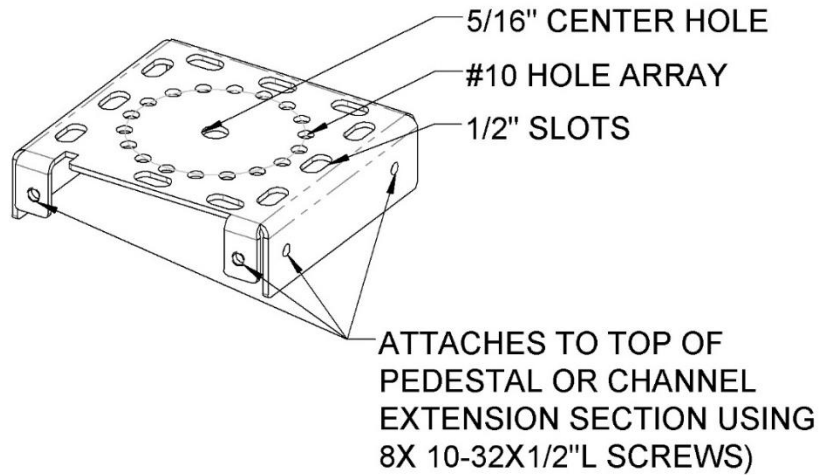
Installing Cover Plates on Channel Extension sections.



PN 67083 Extended, 50-100mm VESA Pan and Tilt Head Assembly

- The Extended 50, 75, 100mm VESA Pan and Tilt Head Assembly supports most screens up to 32" class and typically attaches to the Top Cap of a Pedestal Channel Assembly, but can also be mounted on any arm assembly without tools.
- Screen up and down tilt position can be adjusted from +90° to -10° and secured using two 4-point hand knobs.
- Screen side-to-side pan position can be adjusted up to 270°, dependent on screen size, and secured using a 5-point hand knob.
- Screws located around the center of pan base bracket and each side of the tilt bracket can be tightened to permanently secure the screen up and down tilt and side-to-side pan positions.
- The five point hand knob is used to secure the base of the Pan and Tilt Head to the 5/16" hole in the center of the top, horizontal surface of the Pedestal or Extension Channel Top Cap PN 51060
- Includes a 4 EA M4 X 10mm long VESA screws.
- Includes a cable tie point at the rear of the VESA mounting plate.

Refer to the sections: **“Attaching an Extended 50-100mm VESA Pan and Tilt Head to a Top Cap of a Channel Assembly”**, **“Attaching a VESA Pan and Tilt Head to the Back of a Screen.”**



Pedestal or Extension Channel Top Cap PN 51060

- The Top Cap attaches to the top of the Pedestal or extension channel with 8 PCS of 10-32 X 1/2" L countersunk screws.
- The top cap is installed with the cutout section oriented towards the "open side" of a channel section.
- The top, horizontal surface of the Top Cap includes a central 5/16" hole that is usually used to secure a PN 67083 Extended, 50-100mm VESA Pan and Tilt Head Assembly. The top also includes a central circular array of #10 holes which are used to permanently secure the pan position of the Pan and Tilt Head Assembly.
- The horizontal surface of the Top Cap also includes an array of 1/2" slots around the perimeter that permit a wide variety of signage or other items to be attached directly to the top cap with common fasteners.

Attaching other items to a Top Cap

- Items can be attached to the Top Cap with common fasteners using the array of #10 holes and slots in the horizontal surface of the Top Cap.
- Top Cap can also support a Printer and Peripheral Equipment Tray or an adjustable Arm Assembly that in can then support a VESA Pan and Tilt Head Assembly or Printer and Peripheral Equipment Tray.

Contact our design team if you need a custom mounting bracket to attach an item to the Top Cap.

Installation Instructions Introduction

Important Note 1: Not all sections of these instructions will be applicable to your particular product assembly; however we strongly recommend that you read the entire contents **BEFORE** proceeding with the design of the system, the ordering of assemblies or parts, and before performing any installation work.

Important Note 2: Know that the steps required to assemble these systems are generally listed in the order that they should be performed; however some steps may not be applicable to your particular assembly.

Qualified Installers:

The installation of these systems should only be performed by qualified persons such as journeyman electricians and/ or professional riggers.

Using this document:

You will be prompted at various points throughout these instructions to reference other sections for additional details on various installation procedures. Also included are notes, recommendations and tips intended as helpful suggestions only; DO NOT substitute these for your own best practices or established safety procedures.

Nomenclature:

The terms "Pedestal Channel", "Channel Assembly", and "Pole Assembly" may be used interchangeably throughout this document.

Understanding the difference between the two types of channels;

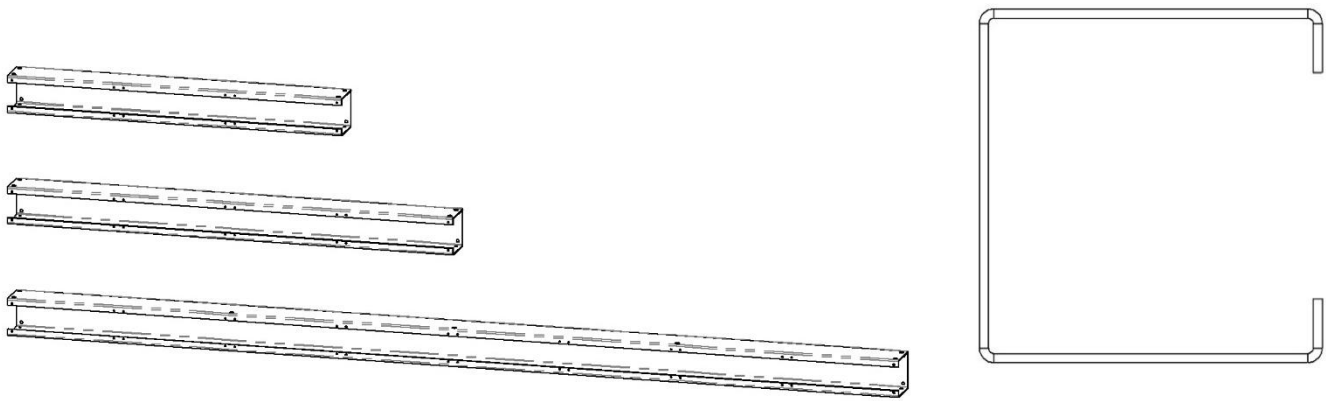
Know that pedestal channels have a series of 6" tall doors installed on the "Open side" of the channel; while Channel Extension sections have Cover Plates installed on the on the "Open side" of the channel.

Planning the Installation of the equipment and associated wiring on Floor Stand Assembly

1. Create some basic sketches of your Floor Stand Assembly in profile orientation that indicates the following heights:
2. Indicate the total height of the Pole Assembly above the mounting surface.
3. Indicate the heights of the ends of the various arms that will support the various pieces of equipment above the mounting surface.
4. The location of the power and data or other outlets that will be connected to the Floor Stand Assembly
5. Refer to your sketches to address the following considerations and then adjust the design of your system as needed to answer the following questions and consider the following installation notes:
6. If your design includes equipment that must be seen and/ or touched by the system users; is the equipment located at the optimum heights and side to side locations for optimum access by all users?

Making final connections for power, data or other associated cables to outlets, screens, printers and other equipment

1. If your assembly has a Pedestal Channel with arms that support screens or other equipment; move each arm and each piece of attached equipment to discover the desired full range movement; tie off the cabling and then feed any excess cabling back into the Pedestal Channel or channel extension section if a feed through faceplate is present .
2. When all of the cables have been connected, perform power up and operational tests on all of the installed equipment.
3. When you are satisfied that all of the equipment is operating correctly; secure all of the cabling inside of the Pedestal Channel or channel extension section using the two sets of hook and loop straps which are located on two opposite sides of the channel interior. We recommend that all high voltage power cabling be kept in one bundle on one side of the pedestal channel and all low voltage cabling be kept in a separate bundle on the other side.

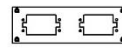


Understanding the Basic Functions of Channel Extension Sections

- Channel Assemblies consist of modular Channel Extension Sections 4"x4" square C channels with three solid sides and one "open" side made of heavy duty steel. Available in 36", 48", and 96" lengths. Channel extensions may be cut to size in-field for applications where necessary.
- Channel Extension Sections can be used alone or in combination with Pedestal Channel Sections via internal coupler sections to create modular, vertical pole assemblies from 36" to 144" H.
- Channel Extension sections can be mounted to a Movable Base, directly to a horizontal surface, or directly to the floor spanning to the ceiling using the Above Ceiling Mount Kit and Trim Ring.
- After installation the channel is enclosed by using Cover Plates to close the open side.
- Cover Plates available in two basic types with multiple lengths:
 - Blank Cover Plates - available in 12", 24", 36", 48" lengths
 - Cover Plates with two outlet Cut Outs- available in 12" and 24" lengths.
- The positions of Cover Plates are interchangeable along the entire length of the open side of a Channel Extension Section. All cover plate kits include 10-32 X 3/8" Phillips countersunk head mounting screws.
- Custom Channel Extension Section Cover Plates can also be ordered with custom cut-outs, custom lengths and in brushed stainless steel finish or a variety of powder coat options. Contact our applications and design team for more information.
- Channel Assemblies are available in multiple configurations:
 - 36" Channel Extension Sections can be used with an 32" Contoured Movable Base for countertop or desktop applications, supporting up to four 32" class screens.
 - 48" Channel Extension Sections can be used with a 22" Round Movable Base and 4X4 clamp On Assemblies for floor stand applications to support any variety of equipment.
 - Channel Extension Sections can be used alone or in combination with Pedestal Channel Sections to create vertical pole assemblies up to 144" total height. The lower end is attached directly to the floor or countertop and the upper end attached to the overhead ceiling structure.
 - To understand the difference between the two types of channels; know that pedestal channels have a series of 6" tall doors installed on the "Open side" of the channel; while Channel Extension sections have Cover Plates installed on the on the "Open side" of the channel.



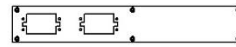
PN 51075 - 12" BLANK



PN 51075 - 12" 2 OUTLET



PN 51071 - 24" BLANK



PN 51071 - 24" 2 OUTLET



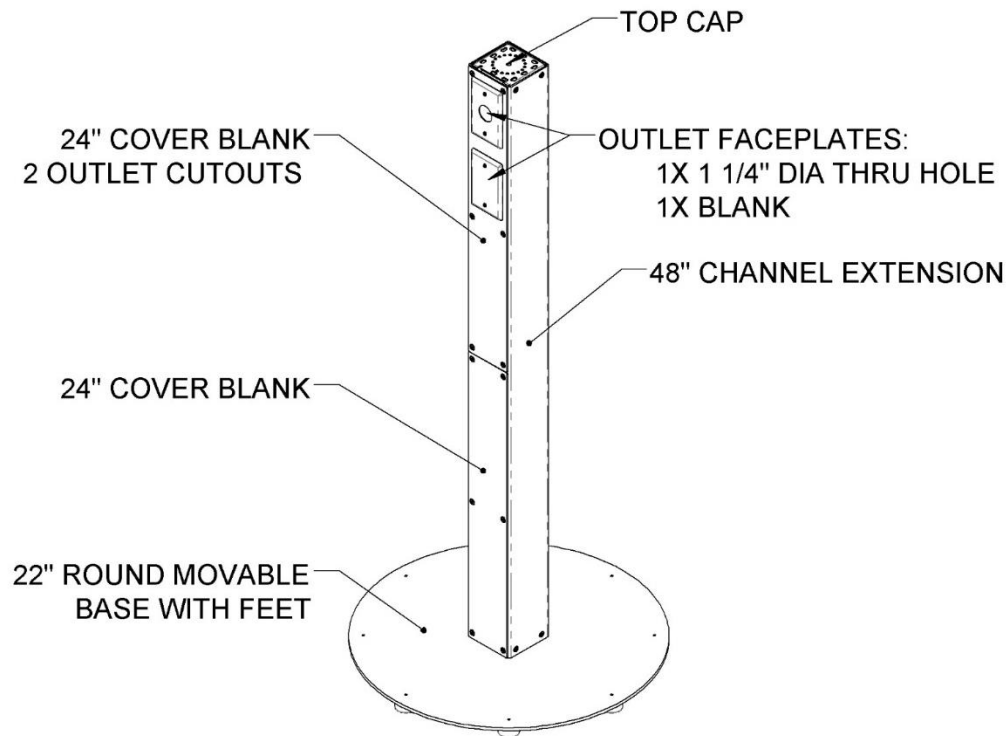
PN 51070 - 36" BLANK



PN 51069 - 48" BLANK

Understanding Channel Extension Cover Plates

- Channel Extension Cover Plates are flat sheet metal panels used to cover the open side of Channel Extension sections. Cover Plates are available in two basic types and varying lengths.
- One type of Channel Extension Cover Plates are smooth, solid blanks with no cut-outs and are available in 12", 24", 36" and 48" lengths.
- One type of Channel Extension Cover Plates has multiple single-gang outlet cut-outs and are available in 12" and 24" lengths, and can be used with or without electrical junction boxes to create power, data or other types of outlets.
- Cover Plates are attached to the Channel Extension sections using #10-32 X 3/8" L Countersunk Phillips Head Stainless steel screws. All Cover Plate kits include mounting screws
- Cover Plate positions are interchangeable along the entire length of the Channel Extension section.
- Channel Extension cover plates have black powder coat finish.
- Custom Channel Extension Cover Plates can also be ordered with custom cut-outs, lengths, and finishes such as brushed stainless steel or a variety of powder coat options. Contact our applications and design team for more information.



The 48" Floor Stand Pole Assembly

- The 48" Floor Stand Pole Assembly consists of a 48" Channel Extension mounted on a 22" Round Movable Base. One 24" 2 Outlet Cover Plate is installed at the upper position with one 1 1/4" DIA feed through faceplate and one blank faceplate. A 24" Blank Cover Plate is installed at the lower position.
- Refer to the following sections for more information on the various included sub-assemblies:

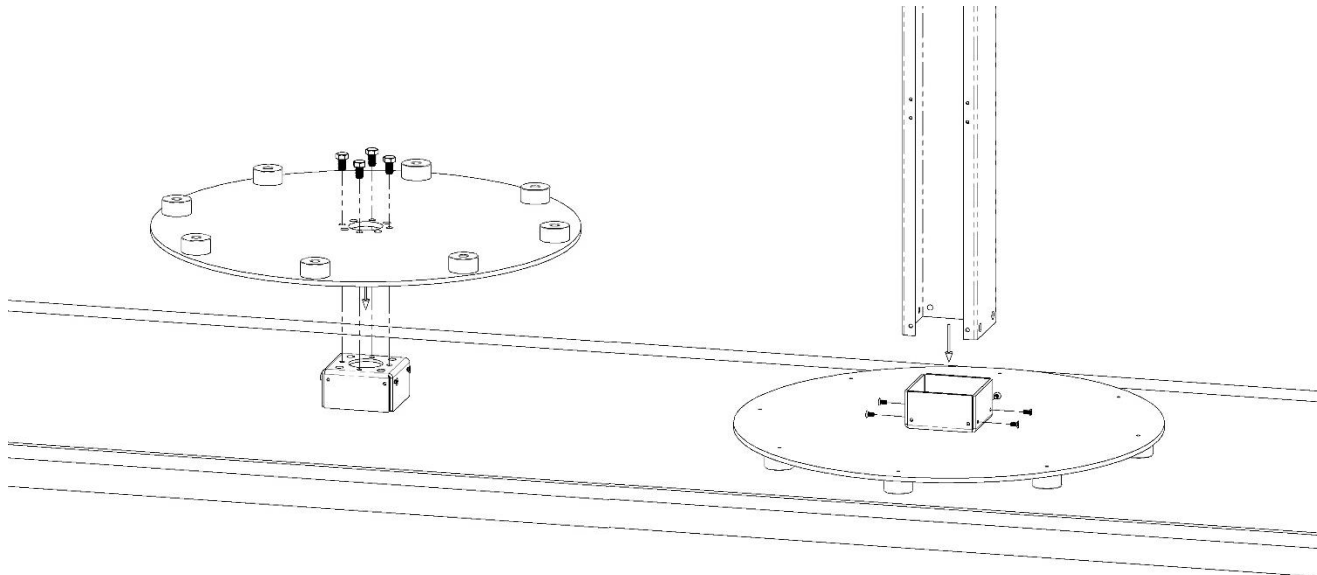
48" Channel Extension Section PN 51066

Understanding the Basic Functions of Channel Assemblies

Channel Extension Cover Plates

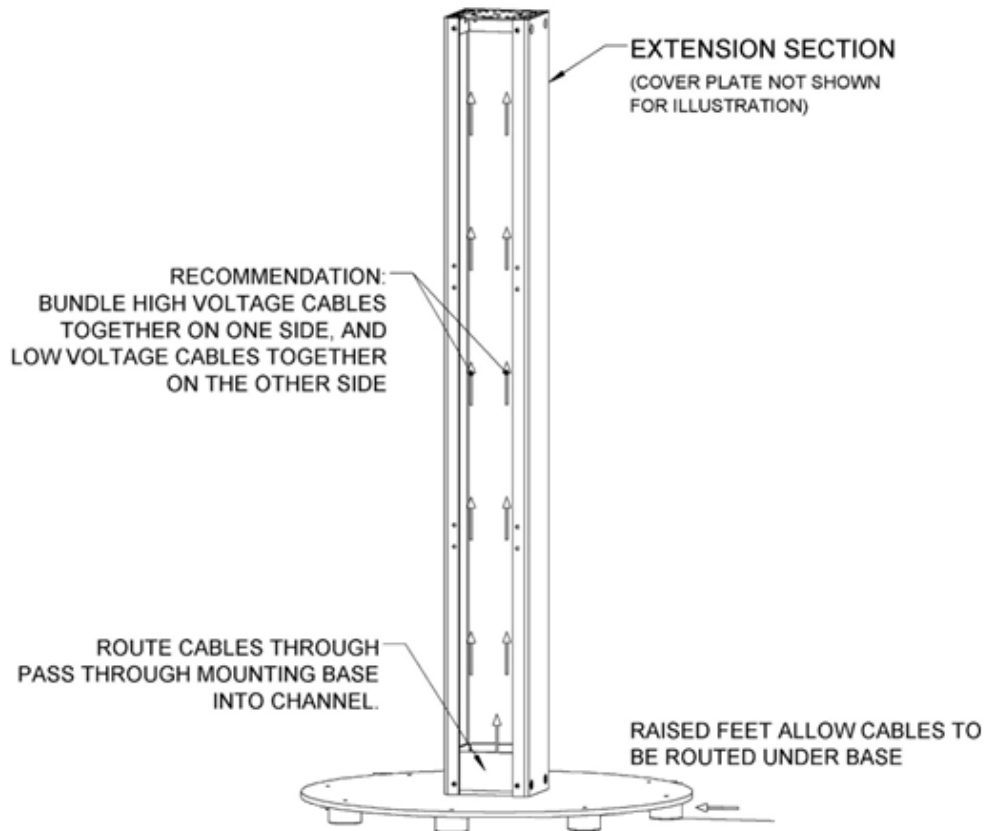
22" Round Movable Pedestal Mounting Base Assembly PN 21277

- To understand the difference between the two types of channels; know that pedestal channels have a series of 6" tall doors installed on the "Open side" of the channel; while Channel Extension sections have Cover Plates installed on the on the "Open side" of the channel.



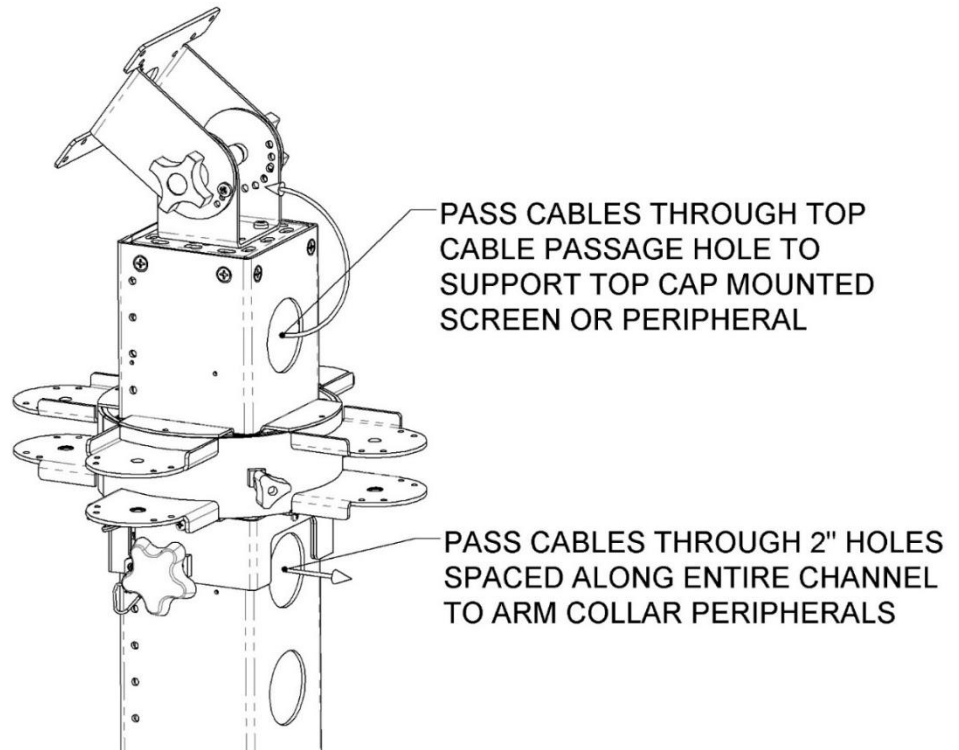
Attaching a 48" or 52" L Channel assembly to a 22" Round Movable Base Plate

1. Locate the Mounting Base Plate, the Channel Extension Pass Through Mounting Base Bracket, 4 EA 5/16"-18 X 3/4" L hex head bolts and 4 EA 5/16"-18 hex nuts. Cover a table or a section of countertop with a flat section cardboard that extends completely across the surface and then secure the cardboard to the work surface with sections of painters tape.
2. Lay the mounting base plate onto the cardboard covered work surface with the 8 feet facing down; then place the Mounting Base Bracket with the four flanges facing up onto the base plate and align the large center hole in the bracket with the large center in the base plate. Rotate the bracket until the four 5/16" tapped holes in the bracket align with the four 5/16" thought holes in the mounting base plate. Apply sections of painters tape to secure the bracket to the plate.
3. Lift the base plate and carefully turn it over so that the feet are pointing up and then set the plate so that it is balancing on top of the bracket on the work surface below the plate. Keep one hand on the outer edge of the plate so that it cannot tip over and then insert the bolts through the holes in the base plate and thread them loosely into the tapped holes on base bracket. When all four bolts are have been installed; return and fully tighten each of the bolts.
4. With all four bolts installed; carefully lift the base plate with the attached bracket, turn it over and place it with the feet down back onto the work surface. Carefully lift the base plate with the attached bracket and place it on the floor.
5. Locate the 8 EA 10-32 X 1/2" L Phillips Countersunk head screws and the Channel extension Section. Carefully lift the extension, align the open end of the extension with the four sides of the mounting base bracket and then carefully lower the extension down over the base plate. While still holding the channel with one hand; loosely install the 8 countersunk screws through the 8 holes in the sides of the bottom of the channel and into the tapped holes in the mounting base bracket. Note that you may need to shake the channel extension slightly to align some of the holes. Once all of the screws have been fully installed; return to each screw and tighten them securely.



Installing and routing the power and other associated cables inside of a Channel Extension Section on a 22" round base.

- All components have been designed to ease the installation of any associated wiring within the assemblies:
- All Channel Extension Sections and Couplers have an internal vertical cable pathway that is approximately 3 $\frac{3}{4}$ " W X 3 $\frac{3}{4}$ " D square.
- All Channel Extension Sections include removable Cover Plates to allow easy access to the interior of the channel with a Phillips screwdriver.
- Pedestal Channel sections include two separate sets of cable management tie points located at 6" intervals attached on opposite sides of the channel interior, Images list
- both equipped with hook and loop straps.
- **Recommendation:** Route and bundle all high voltage power cabling on one side of the channel and all low voltage cabling in a separate bundle on the other side.
- The Extension Section mounting base includes a 1.75" diameter round hole in the center for cable passage.
- All types of VESA Pan and Tilt head assemblies include a cross spacer behind the head assembly where cable ties can be looped over to secure cabling.
- Printer and Peripherals Tray include a 1" diameter cable path hole and multiple pairs of small holes to feed cable ties through.
- Move each piece of equipment to discover the desired full range movement; tie off the cabling and then feed any excess cabling back into the Pedestal Channel.
- When all of the cables have been connected, perform power up and operational tests on all of the installed equipment. When you are satisfied that all of the equipment is operating correctly; secure all of the cabling inside of the Pedestal Channel using the two sets of hook and loop straps which are located on two opposite sides of the channel interior.



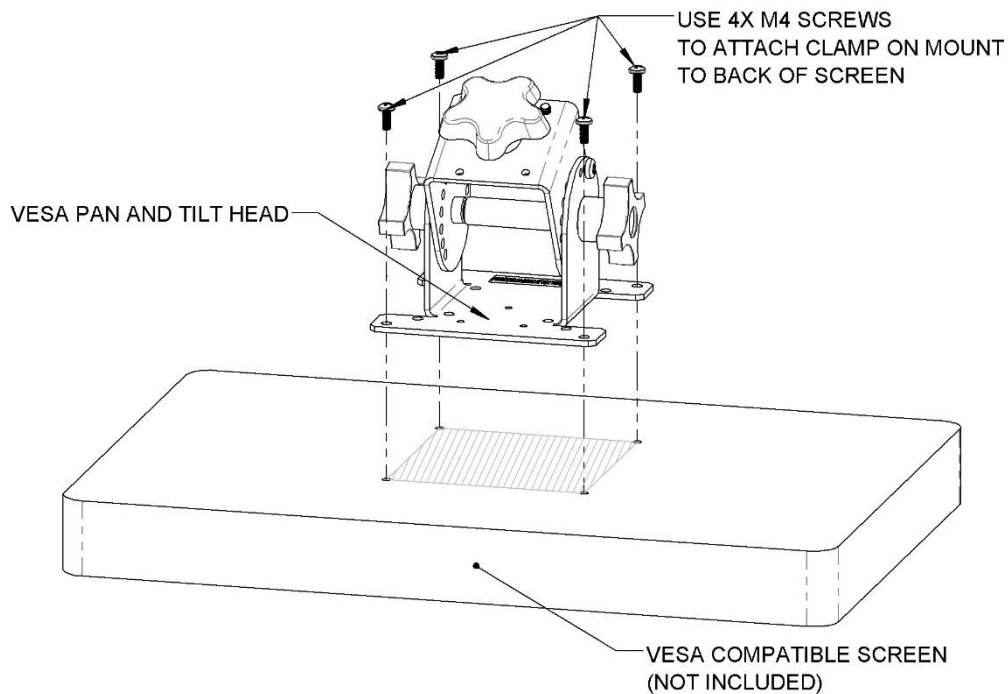
Installing and routing cabling from inside a Pedestal Channel to the Arms on an arm collar or to a Top Cap mounted Pan and Tilt head

1. Install the arm collar assembly on the pedestal channel and move it to its final height position.
2. Install the equipment onto the ends of the arms and the top cap.
3. Route the associated cabling up into pedestal channel and out through of the series of 2" diameter holes to the equipment onto the ends of the arms and the top cap. Be sure to leave enough slack cable so that the equipment on the ends of the arms can be adjusted without binding on the cables.

- All Channel Extension Sections and Couplers have an internal vertical cable pathway that is approximately 3 $\frac{3}{4}$ " W X 3 $\frac{3}{4}$ " D square.
- Pedestal Channel sections include two separate sets of cable management tie points located at 6" intervals on opposite sides of the channel interior for securing the cabling with the included hook and loop strapping.

Recommendation: Route and bundle all high voltage power cabling on one side of the channel and all low voltage cabling in a separate bundle on the other side.

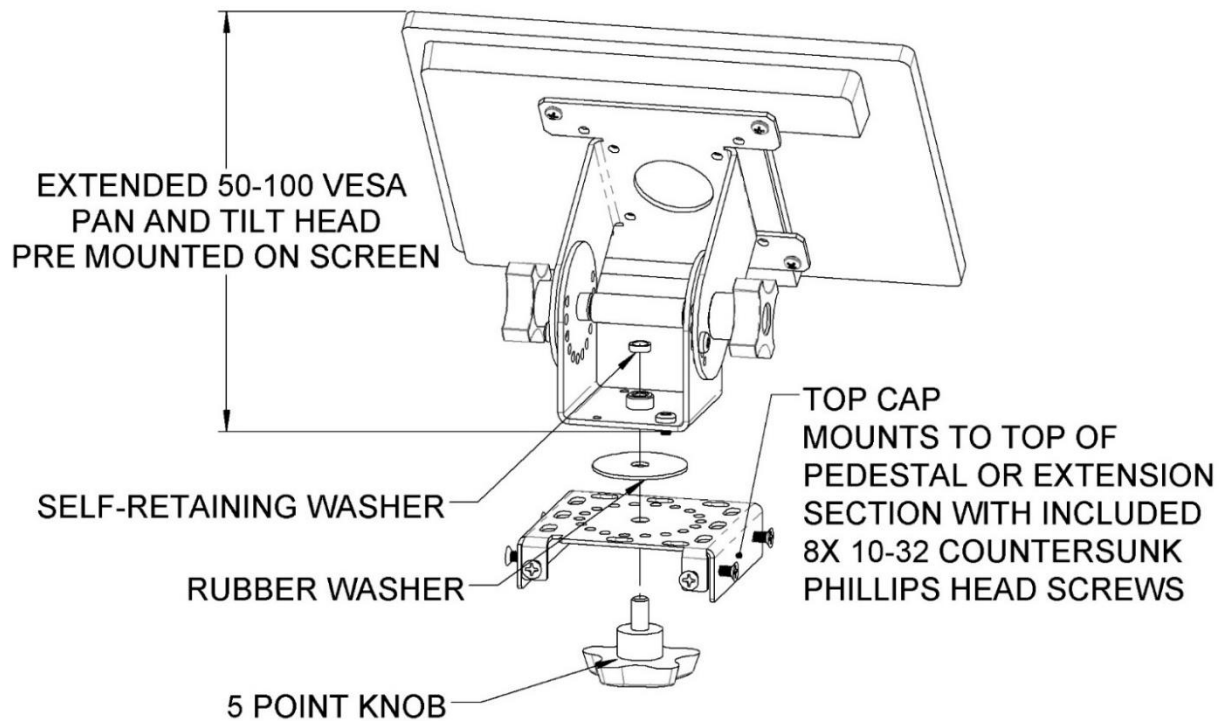
- Use the materials included in the PN 21284 Pedestal Channel Cable Management Kit to protect and secure the cabling.
- Move each piece of equipment to discover the desired full range movement; tie off the cabling and then feed any excess cabling back into the Pedestal Channel.
- When all of the cables have been connected, perform power up and operational tests on all of the installed equipment. When you are satisfied that all of the equipment is operating correctly; secure all of the cabling inside of the Pedestal Channel using the two sets of hook and loop straps which are located on two opposite sides of the channel interior. We recommend that all high voltage power cabling be kept in one bundle on one side of the pedestal channel and all low voltage cabling be kept in a separate bundle on the other side.



Attaching a VESA Pan and Tilt Head to the Back of a Screen

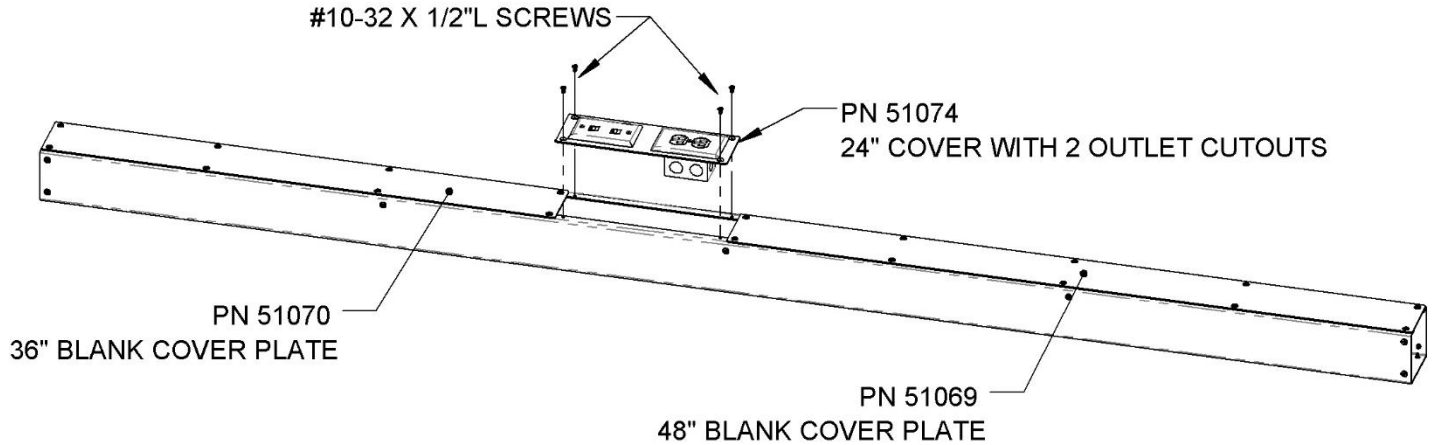
(Note; shown with a standard pan and tilt head; however the procedure is the same for all pan and tilt head types)

1. As shipped; all assemblies with VESA pan and tilt heads will need to be first attached to the back of the screens, then to the ends of the arms or a top cap. Install the arm collar or 4x4 clamp on assembly onto the pedestal or pole before reattaching the VESA pan and tilt heads.
2. If the pan and tilt heads are attached to the assemblies upon receipt; you will need to remove them by unscrewing and removing the five point knob from below panning base and then removing the rubber clutch. Place the rubber washer back onto the shaft of the knob and then temporarily screw the knob into the panning base.
3. Lay the screen face down on a flat, smooth surface, then lay the VESA Pan and Tilt Head assembly with the VESA mounting plate facing down on the back of the screen.
4. Align the square pattern of either 75mm or 100mm spaced holes in the VESA mounting plate with the pattern of four tapped holes on the back of the screen.
5. Use a Philips screw driver to carefully install the four supplied M4 screws through the holes in the VESA mounting plate and into the tapped holes on the back of the screen.



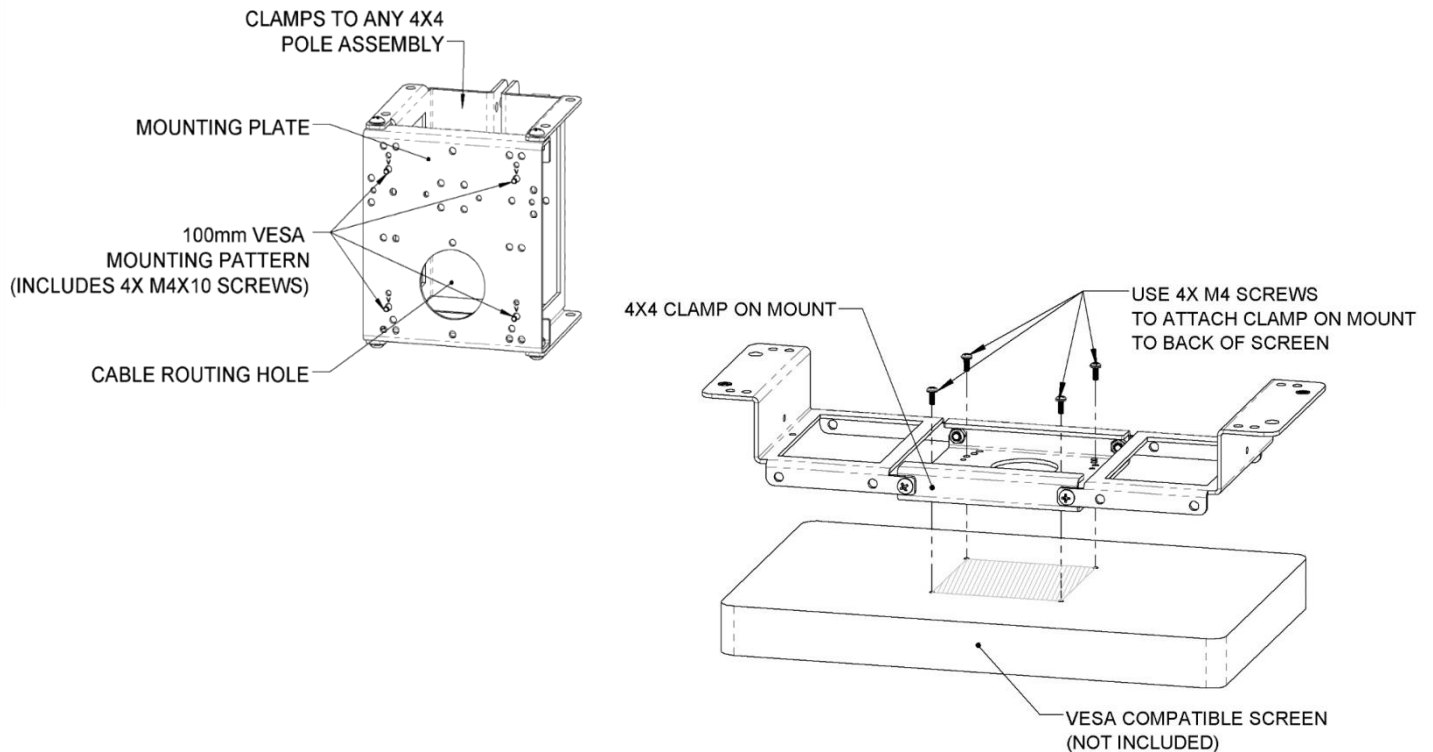
Attaching an Extended 50-100mm VESA Pan and Tilt Head to a Top Cap of a Channel Assembly

1. All Channel assemblies that include an Extended VESA pan and tilt head on a Top Cap will ship with the pan and tilt head assembly uninstalled. If your assembly includes an arm collar assembly, install the arm collar assembly onto the channel assembly before attaching the Extended VESA pan and tilt head to a Top Cap.
2. Attach the Extended VESA pan and tilt head to the back of the screen, refer to the section “**Attaching a VESA Pan and Tilt Head to the back of a screen**”.
3. With the VESA Pan and Tilt Head attached to the back of the screen; open the upper most door of the Pedestal Channel or remove the upper most cover from the channel extension section.
4. Remove the five-point knob and the rubber clutch washer from the pan bracket of the VESA Pan and Tilt Head assembly. Place the rubber clutch washer on the top cap and align the hole in the center of the washer with the hole in the center of the top cap.
4. Carefully lift the Screen with the attached VESA Pan and Tilt Head assembly, align the tapped hole in the base of the pan and tilt head with the hole in the rubber clutch washer on the top cap.
5. Reach into the channel and insert the five-point knob up through the center hole of the Top Cap, up through the rubber washer and carefully thread the shaft of the knob into the tapped hole on the pan bracket.
6. Thread the plastic retaining washer onto the end of the shaft of the five-point knob.
7. To lock the side-to-side pan position permanently; tighten the 10-32 Phillips head screw in the middle of the Pan Bracket so that it aligns with one of the holes in the Top Cap.



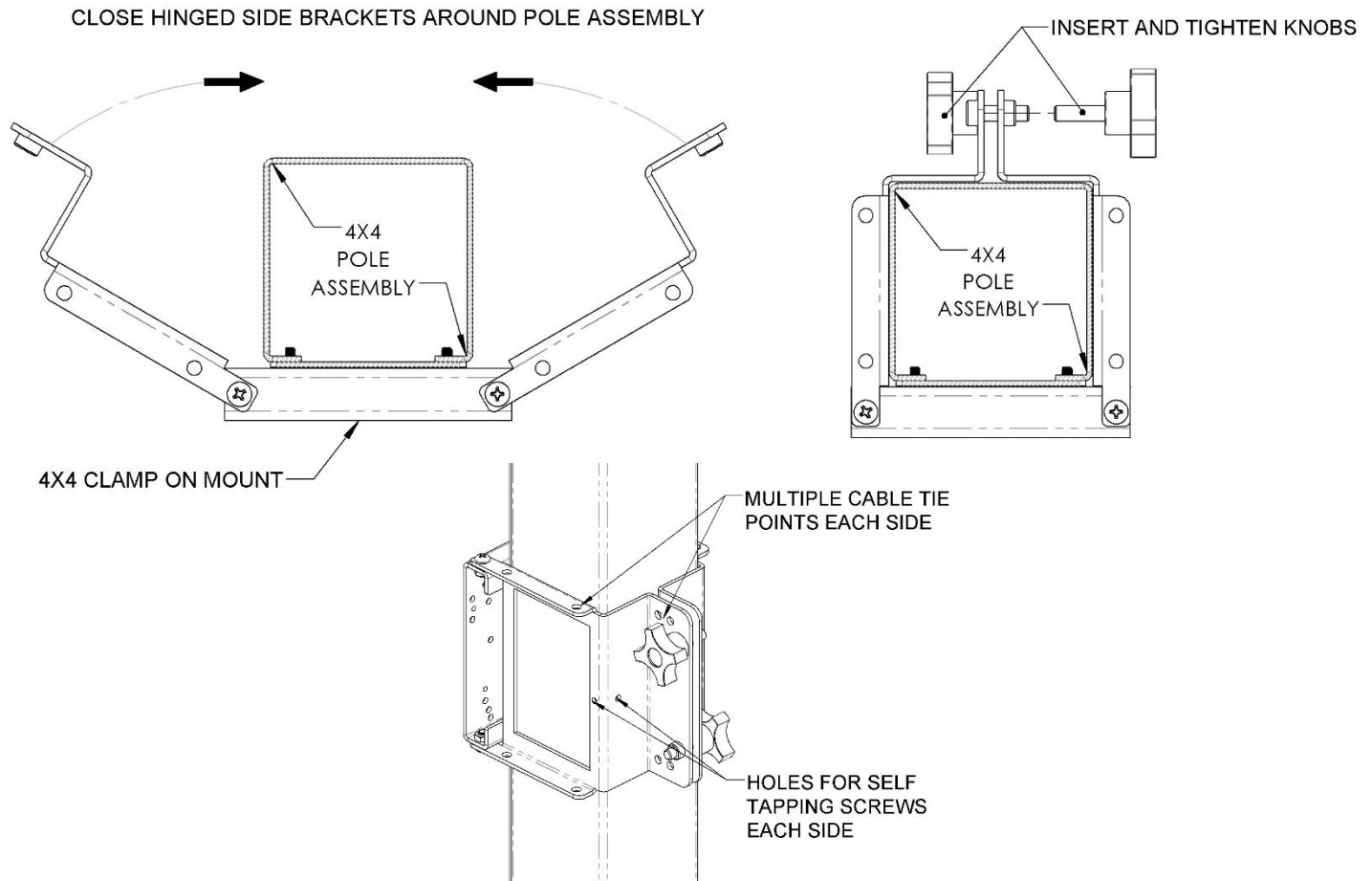
Installing Cover Plates on Channel Extension sections

1. Installing the cover plates should be the last step in assembling your Channel Extension assembly.
2. Locate the 10-32 X 1/2" long Phillips Countersunk screws in the hardware kit.
3. Align the holes in the cover plates with the tapped holes in the open side of the extension sections and then install one screw loosely through each of the holes in the cover plates and into the tapped holes extension sections.
4. Once all of the screws have been installed, verify that the alignment of all cover plates is correct, adjust the position of any covers plates as needed, then return to each screw and tighten them securely.



Attaching PN 81576 4X4 Clamp on Flat 100mm VESA Mount directly to the back of a Screen

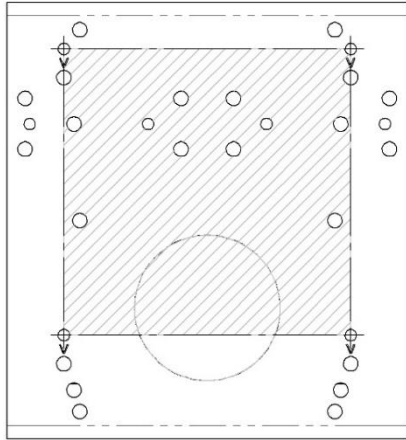
1. There are several different patterns of through and tapped holes on the 4x4 Clamp on mount mounting plate. Refer to the 4x4 Clamp on Mount Mounting Plate holes Legend drawing to identify the pattern of four through holes that work with 100mm compatible screens. Locate the pack of four M4 X 10mm L Phillips head screws that are included with PN 81576 4X4 Clamp on Flat 100mm VESA Mount.
2. Decide what height you want the center of the screen to be located at and what side of the pole you want the screen to be facing; then place a short section of painter's tape 3 ½" above that location on one side of the pole assembly.
3. Lay your screen face down on a flat, clean surface, whether you are using in landscape or portrait orientation; understand that the both of the hinging side brackets must be aligned parallel with the SIDES of the screen; then align the four 100mm VESA through holes in the mounting plate with the four tapped holes near the center of the back of the screen.
4. Install the M4 screws loosely until all four screws are started; then tighten each screw securely.
5. Note the location of the tape height indicator on the side of the pole; lift the screen with the attached Clamp on Mount, align the back of the mounting plate with the side of the pole and that you want the screen to face.
6. Verify that the top of the mounting plate is level with the height locator tape; then close both of the hinging side brackets around the pole and install the two four point knobs through the holes on the rear flanges of the side brackets; verify that the screen has the correct orientation, is at on the correct side of the pole and is located at the correct height and then tighten the two knobs securely.
7. Know that the knobs can be replaced with 5/16"-18 X 1" Hex or security head bolts for a more permanent installation if desired.



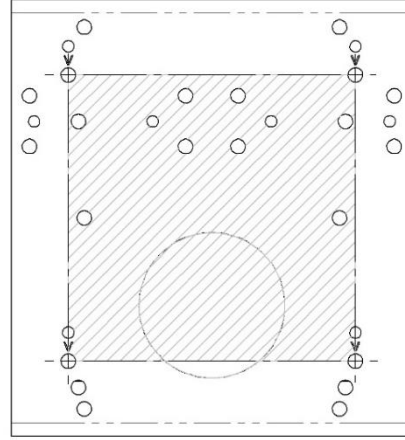
Attaching a 4X4 Clamp On Mount to a Pole assembly

1. Decide the height and side that you want the Clamp on mount to be located at and then place a short section of painter's tape 3 ½" above that location on one side of the pole assembly.
2. Note the location of the tape height indicator on the side of the pole; lift the screen with the attached Clamp on Mount, align the back of the mounting plate with the side of the pole and that you want the screen to face.
3. Verify that the top of the mounting plate is level with the height locator tape; then close both of the hinging side brackets around the pole and install the two four point knobs through the holes on the rear flanges of the side brackets; verify that the screen has the correct orientation, is at on the correct side of the pole and is located at the correct height and then tighten the two knobs securely.
4. Know that the knobs can be replaced with 5/16"-18 X 1" Hex or security head bolts for a more permanent installation if desired.
5. Cut out sections on each of the clamping sides allows the mount to be installed over a standard single gang outlet.
6. Included Self- tapping screws can also be installed into the pole through holes in either of the hinging side brackets to secure the mount permanently.

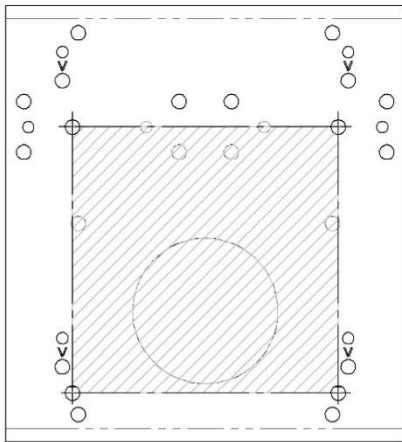
Legend to the hole patterns on 4X4 Clamp On Mounting plate



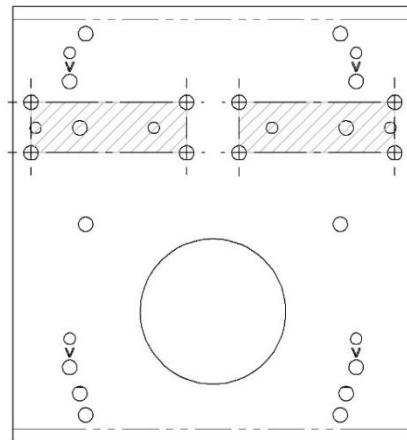
100MM VESA MOUNTING PATTERN
(4X #10 TAPPED HOLES)



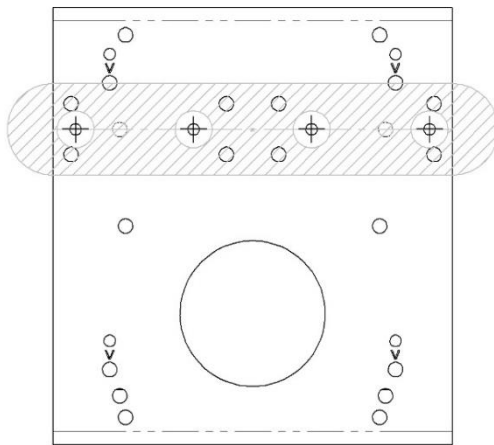
100MM VESA MOUNTING PATTERN
(4X #10 CLEARANCE HOLES)



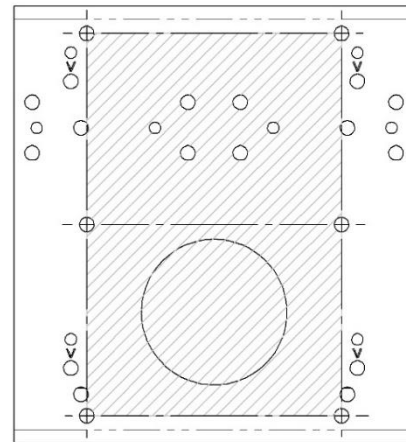
WALL MOUNT BRACKET MOUNTING PATTERN
(4X 1/4-20 TAPPED HOLES)



STANDOFF BRACKET MOUNTING PATTERN
(8X 1/4-20 TAPPED HOLES)



PRINTER TRAY MOUNTING HOLES - 50313, 80313
(4X #10-32 TAPPED HOLES)



SIDE SHELF/ BAG HOLDER MOUNTING PATTERN
(6X 1/4-20 TAPPED HOLES)

Interactive Catalog of Product Sub Groups

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[PN 81564 4X4 Clamp on Mount + Adjustable 8" Arm + VESA Pan and Tilt Head](#)



[PN 81566 4X4 Clamp on Mount + Adjustable 8" Arm + POS Printer Tray](#)



[PN 81567 4X4 Clamp on Mount + Fixed Stainless POS Printer Tray + Storage compartment](#)



[PN 81569 4X4 Clamp on Mount + Fully Articulated Arm + POS Printer Tray](#)



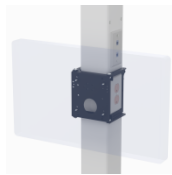
[PN 81571 4X4 Clamp on Mount + Fully Articulated, Extendable arm + Enhanced VESA Pan + Tilt Head](#)



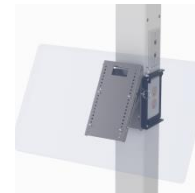
[PN 81573 4X4 Clamp on Mount + Fully Art. Extend. Arm + POS Printer or Peripherals Tray](#)



[PN 81575 4X4 Clamp on Mount + 100mm VESA Flat Quick Disconnect](#)



[PN 81576 4X4 Clamp on Mount + 100mm VESA Flat](#)



[PN 81577 4X4 Clamp on Mount + 100mm VESA Tilting](#)



[PN 81579 4X4 Clamp on Mount + Side Shelf and Bag Holder](#)



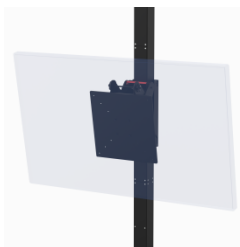
[PN 81580 4X4 Clamp on Mount + Side Shelf for Mini Cash Drawer or other peripherals](#)



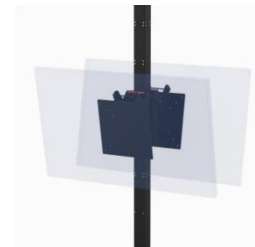
[PN 81581 4X4 Clamp On Mount + 12" X 24" Stainless table](#)



[PN 81583 4X4 Clamp on Mount + 2 adjustable 8" Arms + POS Printer Tray+ VESA Pan-Tilt Head](#)



[PN 81561 4X4 Clamp On Mount 100-400mm VESA Tilting Mount, for a screen up to 70" class.](#)



[PN 81562 4X4 Clamp On Mount 100-400mm Two screen VESA Tilting Mount, for two screens up to 70" class.](#)

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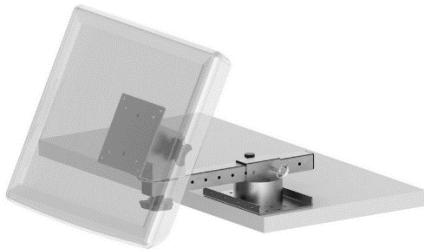
[Wall Mounts for Screens](#)



[Wall Mounts for POS Printers](#)



[Wall Mounts for Screens and POS Printers](#)



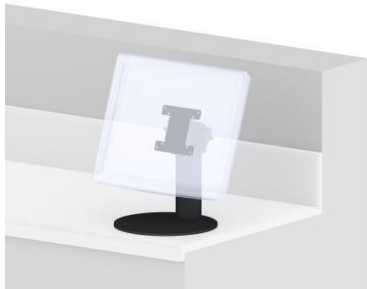
[Shelf Edge Mounts for Screens](#)



[Shelf Edge Mounts for POS Printers](#)



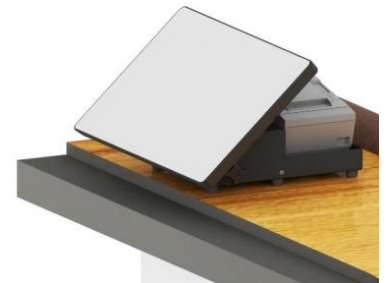
[Shelf Edge Mounts for Screens and POS Printers](#)



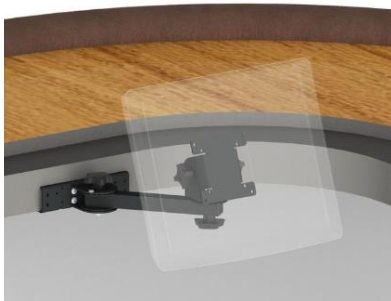
[Counter Top Mounts for Screens](#)



[Counter Top Mounts for POS Printers](#)



[Counter Top Mounts for Screens and POS Printers](#)



[Under Counter Mounts for Screens](#)



[Under Counter Mounts for POS Printers](#)



[Under Counter Mounts for Screens and POS Printers](#)

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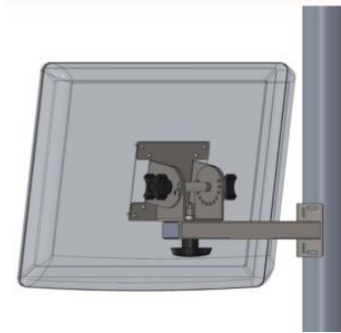
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[Pole Mounts for Screens](#)



[Pole Mounts for POS Printers](#)



[Ceiling Mounts for Screens](#)



[Oracle MICROS Mounting Systems](#)



[NCR Aloha KDS Mounting Solutions](#)



[QSR KDS Mounting Solutions](#)



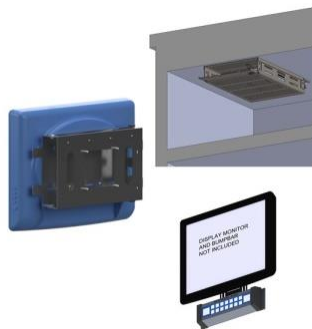
[Logic Controls Bematech KDS Mounting Solutions](#)



[Universal Kitchen Display System Mounting Packages](#)



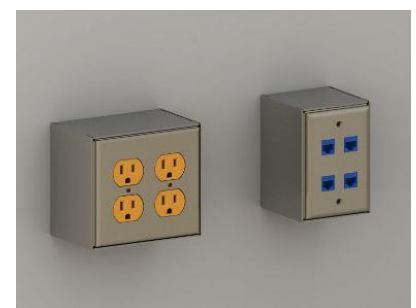
[Enclosures for Touchscreen, Monitors and Thin Clients](#)



[Back Of Screen VESA Mounts for Controllers, Thin Clients, Bump Bars, Tap+ Touch + EMV Readers](#)



[Stainless Steel Wireways](#)



[Stainless Steel Power and Data Outlet Monuments](#)

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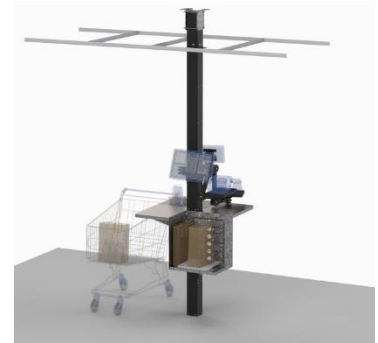
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[Movable Countertop POS Stands](#)



[Direct Mount Countertop POS Stands](#)



[POS Cashier Pole Stands](#)

New Product
Coming Q3
2023

[POS Cashier Floor Stands](#)



[POS Self-Check Out Kiosk Floor Stands](#)

New Product
Coming Q3
2023

[POS Self-Check Out Kiosk Pole Stands](#)



[Take Out Pickup Pole Stands](#)



[Take Out Pickup Floor Stands](#)



[Information Kiosk Floor Stands](#)

New Product
Coming Q3
2023

[Desktop Multi-Screen Pedestal Stands](#)



[4X4 Pole Clamp on Mounts](#)

New Product
Coming Q3
2023

[Mobile Cashier Stands](#)

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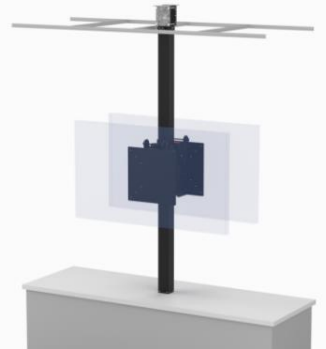
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New Product
Coming Q3
2023



[Digital Signage Pole Stands](#)

New Product
Coming Q3
2023

Stationary Podiums

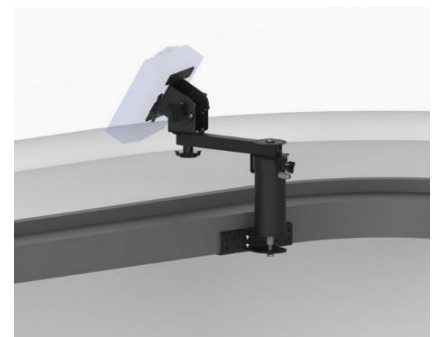
New Product
Coming Q3
2023

Mobile Self-Check Out Stands

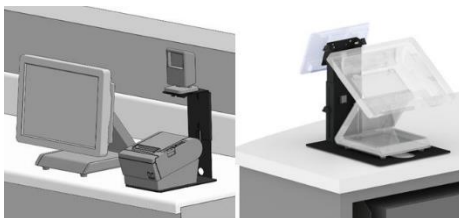
New Product
Coming Q3
2023

Stationary Podiums with Ceiling Feed Pole

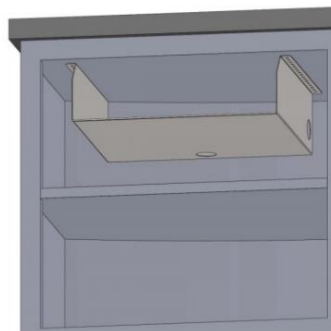
Mobile Podiums



[Ingenico Lane Reader Mounting Systems](#)



[Other Counter Top Mounts](#)



[Cash Drawer Mounting Solutions](#)

We believe in ethical SEO relevancy; the following sections were included to assist the all-knowing Algorithms in locating this page; however some humans like it too.

Compatible POS Systems : Lightspeed, logic controls, NCR, elotouch, posiflex, Poster POS, ehopper, Beetronics, Tyso, favpng, Touch Dynamic, FastSpring, CAKE, Erply, Sapaad, Upserve, Salesforce Commerce Cloud, Block, Miva Merchant, Epos Now, QuickBooks POS, Shopify, VEND, Revel, Clover, CovaPOS, Oracle NETSUITE, GoDaddy, Helcim, Epos Now, Upserve POS, Elo, CardConnect, NCR, ALOHA, SQUARE, Posnation, KORONA POS, BEMETECH, toast, Touchbistro, LAVU, Partnertech, MICROS ORACLE and frankly any system with a 50mm, 75mm or 100mm VESA compatible mounting standard.

Partial List of compatible printers that fit the interior dimensions of our Printer Trays:

6½” W X 10¼” L X 1” D : Anser U2, Brother QL 800, Brother PTP700, Citizen CT-E351, Clover P500, Clover Mini, Custom America CT-E351, Dymo LabelWriter 450, Dymo LabelWriter Wireless, Dymo LabelManager PnP, Epson TM-T88V/VI, Epson TM-T20II, Epson TM-U220 Type B & D, POS-X Evo HiSpeed, Rollo Printer, Sato FX3-LX, Sato WS2, Square Terminal, Star Micronics mC-Print3.

Movable Countertop Point of Sale Stands, Direct Mount Countertop Point of Sale Stands

Point of Sale countertop kiosk, POS terminal Display Stand with arms, Countertop Point of sale support system, Cashier countertop stand with arms, VESA POS Mounting Solution with arms for printer and Pin pad holder, Cashier countertop stand for POS terminal, printer, customer display, Rear marketing display and Pin pad or payment terminal. Through countertop POS Cashier mount with arms.

Cashier Pole Stands, Cashier Floor Stands, Mobile Cashier Stands: Point of Sale floor stand kiosk, POS terminal Display floor stand with arms, Floor stand Point of sale support system, Cashier floor stand with arms, VESA POS Mounting Solution with arms for printer and Pin pad holder, Cashier floor stand for POS terminal, printer, customer display, Rear marketing display and Pin pad or payment terminal.

Self-Check Out Kiosk Pole Stands, Self-Check Out Kiosk Floor Stands, Mobile Self- Check Out Kiosks:

Point of Sale Self-service floor stand kiosk, Self-service POS terminal Display floor stand with arms, Floor stand Point of sale Self-Check Out support system, Self-service floor stand with arms, VESA Self-service POS Mounting Solution with arms for printer and Pin pad holder, Self-service floor stand for POS terminal, printer, customer display, Rear marketing display and Pin pad or payment terminal, SCO solution, Interactive Kiosk, Self-Ordering, Self-Checkout, Self Service, Service Point Kiosk, Ticketing solutions.

Take Out Pickup Pole Stands, Take Out Pickup Floor Stands: Food Delivery Pickup Stand, Food Delivery Pickup Stand Screen, Mobile Order Pick up Stand, Mobile Order Pick up shelves with screen. Pick up orders station, Pick up orders station screen, Online Order Pickup stand, Online Order Pickup shelves with screen, Digital Order Pickup stand, Digital Order Pickup Stand with Shelves and screen, To Go Order Pickup stand, To Go Order Pickup stand with Shelves and Screen, Food Delivery Pickup Stand Shelving, Food Delivery Pickup Stand with Shelves and Screen, Mobile Order Pick up Stand Shelving, Mobile Order Pick up Stand with Shelves and Screen.

Digital Signage Pole Stands, Information Kiosk Floor Stands: Information directory stand, Information directory Kiosk, Information Kiosk Floor Stand, Information touchscreen stand, Self-service touchscreen stand, digital media player stand, Freestanding touch screen stand. Digital signage floor stand, Universal Kiosk Floor Stand, Touchscreen Kiosk, Interactive Kiosk, Digital Kiosk, Interactive Information Kiosk, Touch screen stand, Promotional Interactive Kiosk, Digital Signage floor stand, Freestanding Kiosk, Digital Signage Pole stand.

Desk Top Multi-Screen Pedestal Stands; These are super heavy duty systems that support up to four 32” screens with not one; but TWO cup holders, a nifty organizer tray and dual USB changing ports, whoa!