PQS
PRACTICAL QUALITY SYSTEMS
Fast Custom Manufacturing - Nationwide Installation Services

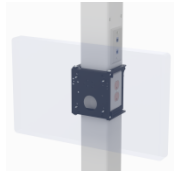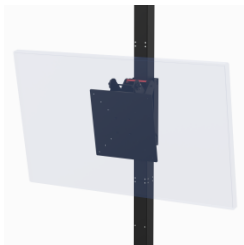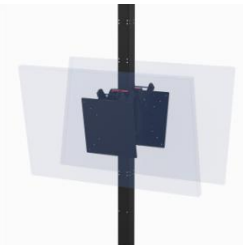|		
PN 81564_4X4 Clamp on Mount + Adjustable 8" Arm + VESA Pan and Tilt Head	PN 81566_4X4 Clamp on Mount + Adjustable 8" Arm + POS Printer Tray	PN 81567_4X4 Clamp on Mount + Fixed Stainless POS Printer Tray + Storage compartment
PN 81569_4X4 Clamp on Mount + Fully Articulated Arm + POS Printer Tray	PN 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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ALL PRODUCTS PATENT PENDING

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ALL PRODUCTS PATENT PENDING

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 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.
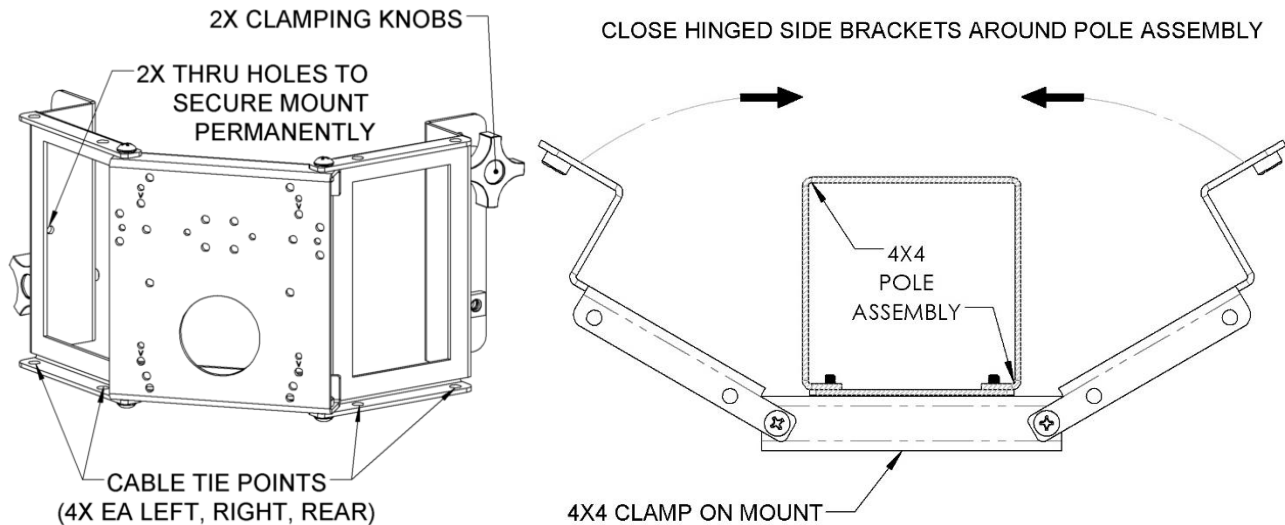
4X4 Clamp on Mounts Overview

- Each of these products includes a versatile "clamp on" assembly that allows it to 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/

CHANNEL SECTION

MOUNTING PLATE

MOUNTS TO ANY 4X4
POLE ASSEMBLY:

ARM SWINGS AROUND
CHANNEL SECTION
AND IS SECURED USING
TWO HAND KNOBS.

THRU HOLES TO
SECURE MOUNT
PERMANENTLY

EACH ARM HAS
MULTIPLE CABLE
TIE POINTS

CUT OUT SECTION ON
BOTH SIDES ALLOWS
MOUNT TO BE LOCATED
OVER SINGLE GANG
OUTLETS

CLAMPS TO ANY
4X4 POLE ASSEMBLY

MOUNTING PLATE

STANDARD 50-100 VESA
PAN AND TILT HEAD
(INCLUDES 4X
M4X10 SCREWS)

STANDOFF BRACKET

8" ARM

PN 81564 4X4 Clamp On Mount 8" with Adjustable Straight Arm + Standard VESA Pan Tilt Head (Part 1)

• 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 supports any 75 or 100mm VESA compatible screen on a pan and tilt head assembly attached to an adjustable 8" long arm that places the back of the screen approximately 12.5" out from the surface of the vertical 4X4 pole assembly when positioned straight out.

• The mount Includes 4 EA M4 X 10mm L Phillips head screws to attach the screen to the VESA Tilting mount. 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 hinged side brackets 80000to 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.

• The Standard 75-100mm VESA compatible screen pan and tilt head assembly supports most screens up to 23" W. The Tilt position can be adjusted from +90 degrees to -10 degrees and the pan and tilt head can be rotated up to 270 degrees around the end of the arm depending on the width of the screen.

• The Side to side pan position is adjusted with a 5 point hand knob located under the end of the arm assembly. The screen up and down Tilt position is adjusted with two 4 point hand knobs on either side of the pan and tilt head assembly.

• The side to side position of the arm can be adjusted within 160 degrees with a 5 point hand knob located on the top of the standoff bracket. The knobs work with rubber washers to provide variable clutching resistance.

• Screws located on the top of standoff bracket and on the tilt and pan planes on the head assembly can be tightened to permanently lock the side to side position of the arm mounting plate and screen tilt and pan positions.

 For installation instructions; refer to sections:

 Attaching a VESA Pan and Tilt Head to the Back of a Screen.
Installing a screen with an attached VESA Pan and Tilt Head on the end of an Arm.
Attaching a 4X4 Clamp On Mount to a Pole assembly
PN 21240 8" Straight Adjustable Arm Assembly with Standard 75-100mm VESA Pan and Tilt (part 1)
PN 21240 8" Straight Adjustable Arm Assembly with Standard 75-100mm VESA Pan and Tilt (part 2)

ALL PRODUCTS PATENT PENDING

CHANNEL SECTION

MOUNTING PLATE

MOUNTS TO ANY
4X4 POLE ASSEMBLY

MOUNTING PLATE

1" DIA CABLE
PASSAGE HOLE

MOUNTS TO ANY 4X4
POLE ASSEMBLY:

ARM SWINGS AROUND
CHANNEL SECTION
AND IS SECURED USING
TWO HAND KNOBS.

THRU HOLES TO
SECURE MOUNT
PERMANENTLY

EACH ARM HAS
MULTIPLE CABLE
TIE POINTS

CUT OUT SECTION ON
BOTH SIDES ALLOWS
MOUNT TO BE LOCATED
OVER SINGLE GANG
OUTLETS

PRINTER AND
PERIPHERAL TRAY

STANDOFF BRACKET

8in ARM

PN 81566 4X4 Clamp On Mount Adjustable Arm with Printer Tray Part 1

• 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.

• 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 and Cut out sections on each of the clamping sides allow the mount to be installed over a standard single gang outlet.

• The POS printer or Peripheral Equipment Tray measures 6½" W X 10¼"L X 1" D and supports a POS printer, one or more EMV and QR/ Barcode readers, or other small equipment up to 10 pounds.

• The side to side position of the arm on the mounting plate is adjusted with a 5 point hand knob located on the top of the standoff bracket. The knobs work with rubber washers that are used in the assembly to provide a variable clutching resistance.

• The tray be rotated 360 degrees around the end of the arm. The side to side pan position of the tray is adjusted with a 5 point hand knob located under the end of the arm. The knob works with a rubber washer that is used in the assembly to provide a variable clutching resistance. A Philips head screw located on the pan plane in the middle of the tray can be tightened to permanently lock the side to side position of the Tray arm on the end of the arm.

• The tray includes a 1" diameter cable path hole and multiple pairs of small holes to feed cable ties through.

• For installation instructions; refer to sections: **Attaching a 4X4 Clamp On Mount to a Pole assembly**
PN 21241 8" Straight Adjustable Arm Assembly with POS Printer or Peripheral Equipment Tray

ALL PRODUCTS PATENT PENDING
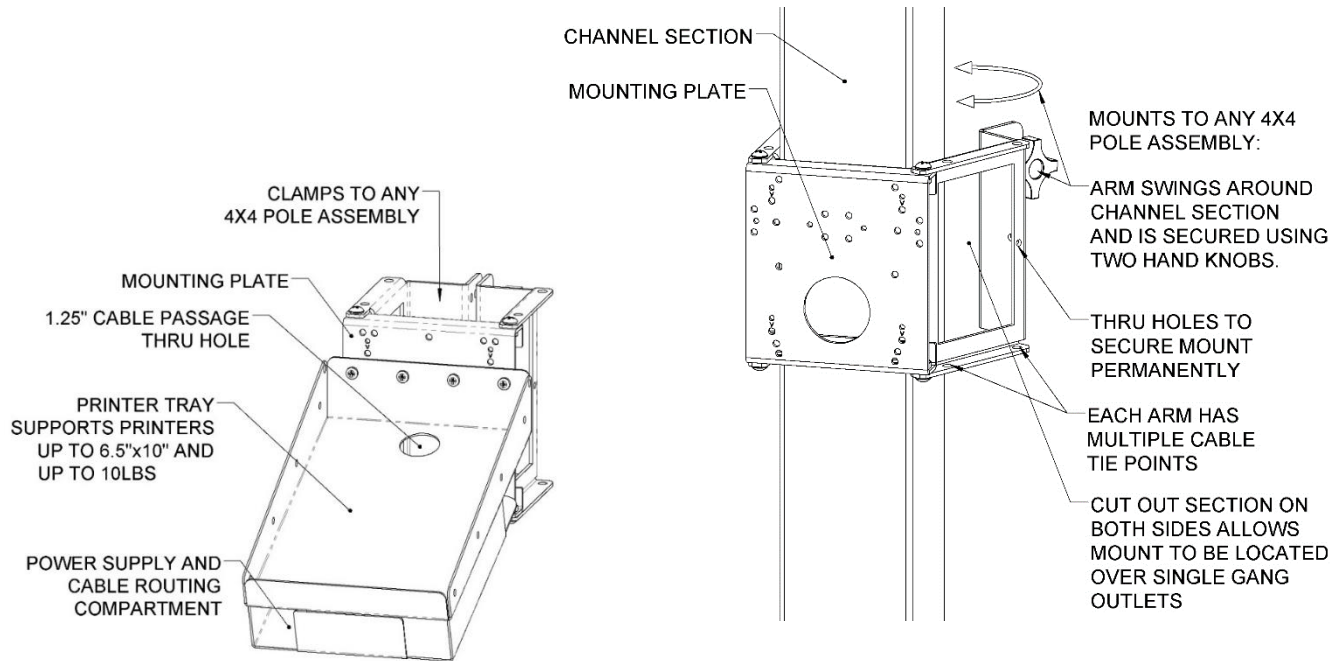
PN 81567 4X4 Clamp On Printer Tray with Power Supply Storage Compartment

• 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.

• 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.

• Supports printers up to 6.5" wide X 10" long and up to 10 lbs.

• The printer Tray assembly includes a generous sized lower compartment for storing a power supply and any excess cabling' the dimensions of the storage compartment are approximately 5 "H X 6.75"W X 8.88" D (REVISE)

• 1.25" diameter holes is the rear of the tray and in the compartment allow easy cable passage. The rear of the tray elevated at a fixed 20 degree angled to improve access to the paper feed slot on the top of the printer. When used with most standard length printers there is enough room behind the printer to store an extra roll of printer paper.

• Tray includes cable tie points at both rear corners and the rear corners are tack welded to provide additional reinforcement and prevent deformation under load.

• The printer tray is made entirely of 16 gauge brushed stainless steel to resist harsh environments.

• For installation instructions; refer to sections: **Attaching a 4X4 Clamp On Mount to a Pole assembly**

81561, 81562, 81564, 81566, 81567, 81569, 81571, 81573, 81575, 81576, 81577, 81579, 81580, 81581, 81583 8
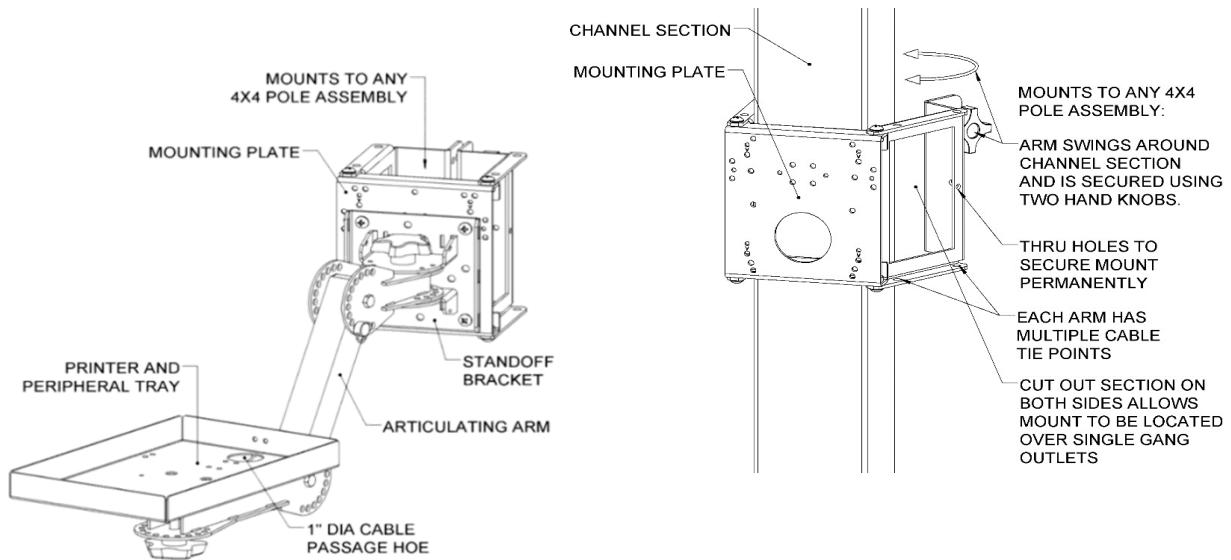
PN 81569 Fully Articulated Arm + POS Printer Tray 4X4 Clamp on Mount

- 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.
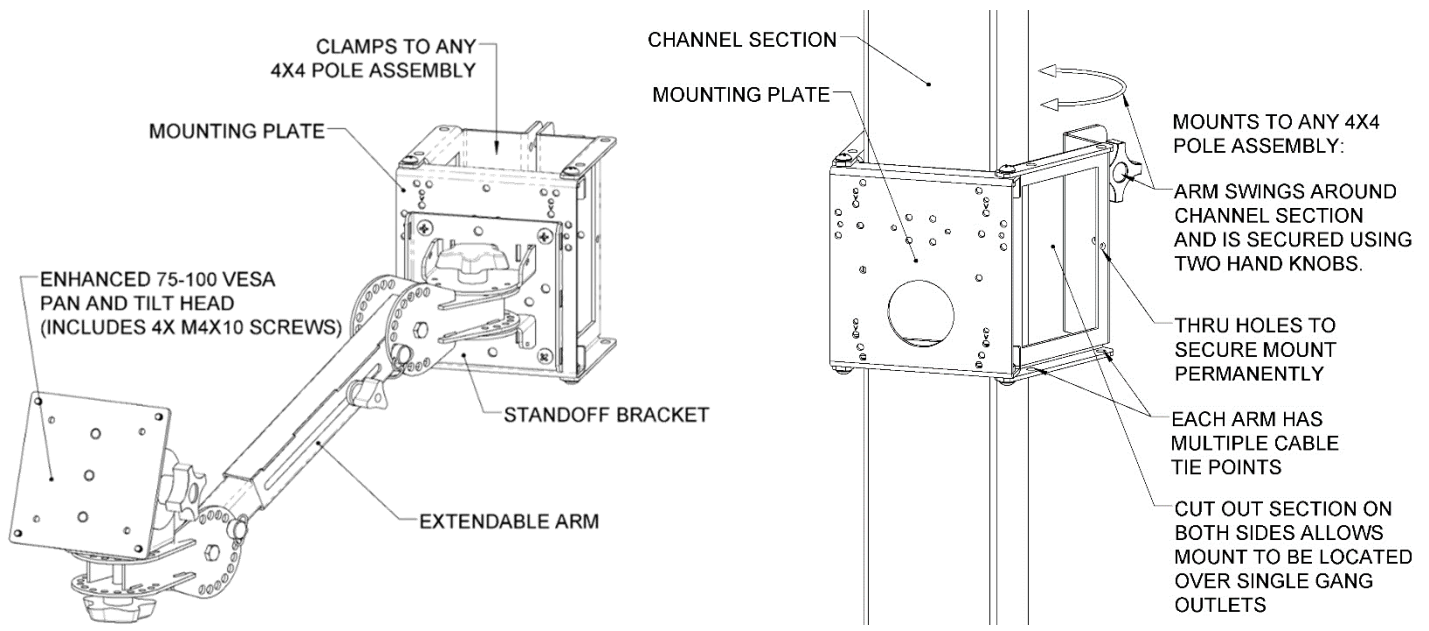- This assembly supports a POS printer or Peripheral Equipment Tray that measures 6½" W X 10¼"L X 1" D and supports a POS printer or one or more EMV and QR/ Barcode readers or other small equipment up to 10 pounds.
- The tray is attached to the end of the last arm segment in the three segment arm assembly and can be rotated 360 degrees around the end of the arm. The side to side pan position of the tray is adjusted with a 5 point hand knob located under the end of the last arm segment. The knob works with a rubber washer that is used in the assembly to provide a variable clutching resistance. A Philips head screw located on the pan plane in the middle of the tray can be tightened to permanently lock the side to side position of the Tray.
- 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.
- The Fully Articulating Arm includes 3 arm segments and is attached to the standoff bracket of the 4X4 clamp on mount assembly.
- This arm has 200 degrees of side to side, horizontal position adjustment and is adjusted with a 5 point hand knob on the upper standoff bracket. The knob works with a pair of rubber washers that are used in the assembly to provide a variable clutching resistance. A Phillips head screw located on the upper standoff bracket can be tightened to permanently lock the side to side position of the arm.
- The angles of upper and lower arm segments or "offset brackets" adjust to allow the middle arm section to be extended down and outward a selectable distance out from the channel assembly. Each of the offset brackets has 13 adjustable positions in18 degree increments using lynch pins with spring clip retainers.
- The tray includes a 1" diameter cable path hole and multiple pairs of small holes to feed cable ties through.
- For installation instructions; refer to sections: **Attaching a 4X4 Clamp On Mount to a Pole assembly, PN 21246 Fully Articulating Arm Assembly with POS Printer or Peripheral Equipment Tray**

CLAMPS TO ANY
4X4 POLE ASSEMBLY

CHANNEL SECTION

MOUNTING PLATE

MOUNTING PLATE

MOUNTS TO ANY 4X4
POLE ASSEMBLY:

ARM SWINGS AROUND
CHANNEL SECTION
AND IS SECURED USING
TWO HAND KNOBS.

ENHANCED 75-100 VESA
PAN AND TILT HEAD
(INCLUDES 4X M4X10 SCREWS)

THRU HOLES TO
SECURE MOUNT
PERMANENTLY

STANDOFF BRACKET

EACH ARM HAS
MULTIPLE CABLE
TIE POINTS

EXTENDABLE ARM

CUT OUT SECTION ON
BOTH SIDES ALLOWS
MOUNT TO BE LOCATED
OVER SINGLE GANG
OUTLETS

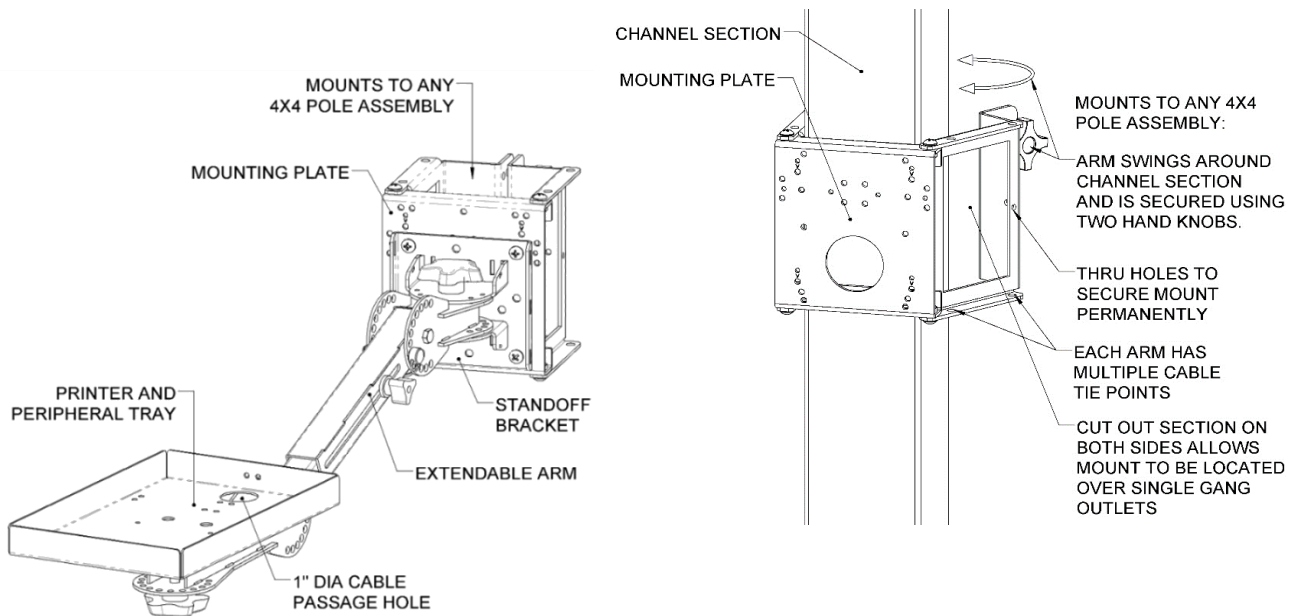**PN 81571 4X4 Clamp On Fully Articulating Extendable Arm with Enhanced VESA Pan Tilt Head**

• 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 supports any 75 or 100mm VESA compatible screen on a pan and tilt head assembly attached to fully articulating arm that locate the back of the screen an adjustable distance and angle 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 VESA Pan and Tilt head assembly.

• 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 and self- tapping screws can also be installed into the pole through holes in either of the hinged 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.

• The Fully Articulating Extendable Offset arm includes three arm segments with the upper most section attached to the four standoff brackets on the mounting plate of the 4x4 clamp on mount. This arm has 200 degrees of side to side, horizontal position adjustment on the standoff bracket.

• The side to side position of the arm can be adjusted within 160 degrees with a 5 point hand knob located on the top of the standoff bracket. The knobs work with rubber washers to provide variable clutching resistance.

• The angles of upper and lower arm segments or "offset brackets" adjust to allow the middle arm segment to be extended down and outward a selectable distance out from the channel assembly.

• The middle arm segment of this arm is telescopic and can be extended outward up to 6 inches. The extended position of the arm is adjusted with a 3 point knob on the side of the arm.

• For installation instructions; refer to sections: **Attaching a 4X4 Clamp On Mount to a Pole assembly, PN 21249 (Parts 1+2) Fully Articulating Extendable Arm Assembly with Enhanced 75-100mm VESA Pan and Tilt Head, Attaching a VESA Pan and Tilt Head to the Back of a Screen**

CHANNEL SECTION

MOUNTING PLATE

MOUNTS TO ANY
4X4 POLE ASSEMBLY

MOUNTING PLATE

MOUNTS TO ANY 4X4
POLE ASSEMBLY:

ARM SWINGS AROUND
CHANNEL SECTION
AND IS SECURED USING
TWO HAND KNOBS.

THRU HOLES TO
SECURE MOUNT
PERMANENTLY

EACH ARM HAS
MULTIPLE CABLE
TIE POINTS

CUT OUT SECTION ON
BOTH SIDES ALLOWS
MOUNT TO BE LOCATED
OVER SINGLE GANG
OUTLETS

PRINTER AND
PERIPHERAL TRAY

STANDOFF
BRACKET

EXTENDABLE ARM

1" DIA CABLE
PASSAGE HOLE

PN 81573 4X4 Clamp On Mount with Fully Articulating Extendable Arm and Printer Tray

• 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.

• 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 and Cut out sections on each of the clamping sides allow the mount to be installed over a standard single gang outlet.

• This assembly supports a POS printer or Peripheral Equipment Tray that measures 6½" W X 10¼"L X 1" D and supports a POS printer or one or more EMV and QR/ Barcode readers or other small equipment up to 10 pounds. The tray is attached to the end of the last arm segment in the three segment arm assembly and can be rotated 360 degrees around the end of the arm. The side to side pan position of the tray is adjusted with a 5 point hand knob located under the end of the last arm segment. The knob works with a rubber washer that is used in the assembly to provide a variable clutching resistance. A Philips head screw located on the pan plane in the middle of the tray can be tightened to permanently lock the side to side position of the Tray arm on the end of the arm.

• The Fully Articulating Extendable Offset arm includes 3 arm segments and can be attached to any of the 4 standoff brackets on the Arm Collar assembly. This arm has 200 degrees of side to side, horizontal position adjustment with the position being adjusted with a 5 point hand knob on the upper standoff bracket. The knob works with a rubber washer that is used in the assembly to provide a variable clutching resistance. A Phillips head screw located on the upper standoff bracket can be tightened to permanently lock the side to side position of the arm.

• The angles of upper and lower arm segments or "offset brackets" adjust to allow the middle arm segment to be extended down and outward a selectable distance out from the channel assembly. Each of the offset brackets has 13 adjustable positions in18 degree increments using lynch pins with spring clip retainers.

• The middle arm segment of this arm is telescopic and can be extended outward up to 6 inches. The extended position of the arm is adjusted with a 3 point knob on the side of the arm.

• For installation instructions; refer to sections: **Attaching a 4X4 Clamp On Mount to a Pole assembly PN 21252 Fully Articulating Extendable Arm Assembly, POS Printer or Peripheral Equipment Tray**
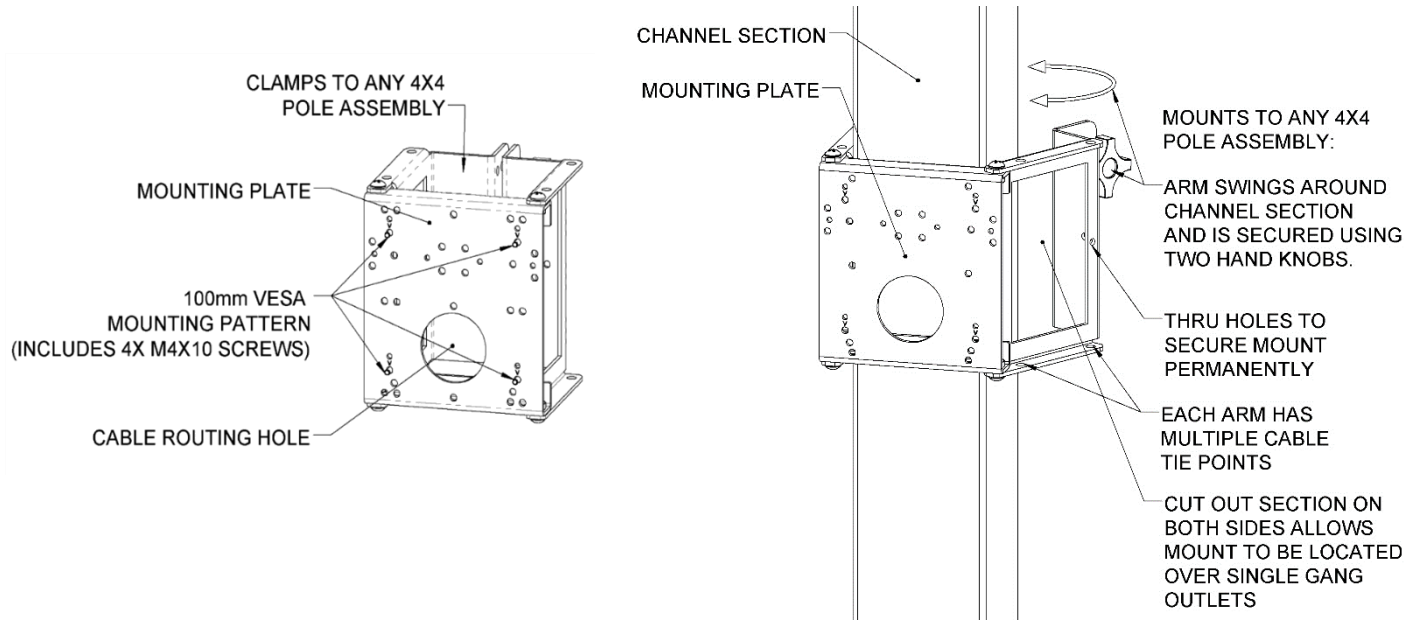
CLAMPS TO ANY 4X4
POLE ASSEMBLY

MOUNTING PLATE

100mm VESA
MOUNTING PATTERN
(INCLUDES 4X M4X10 SCREWS)

CABLE ROUTING HOLE

CHANNEL SECTION

MOUNTING PLATE

MOUNTS TO ANY 4X4
POLE ASSEMBLY:

ARM SWINGS AROUND
CHANNEL SECTION
AND IS SECURED USING
TWO HAND KNOBS.

THRU HOLES TO
SECURE MOUNT
PERMANENTLY

EACH ARM HAS
MULTIPLE CABLE
TIE POINTS

CUT OUT SECTION ON
BOTH SIDES ALLOWS
MOUNT TO BE LOCATED
OVER SINGLE GANG
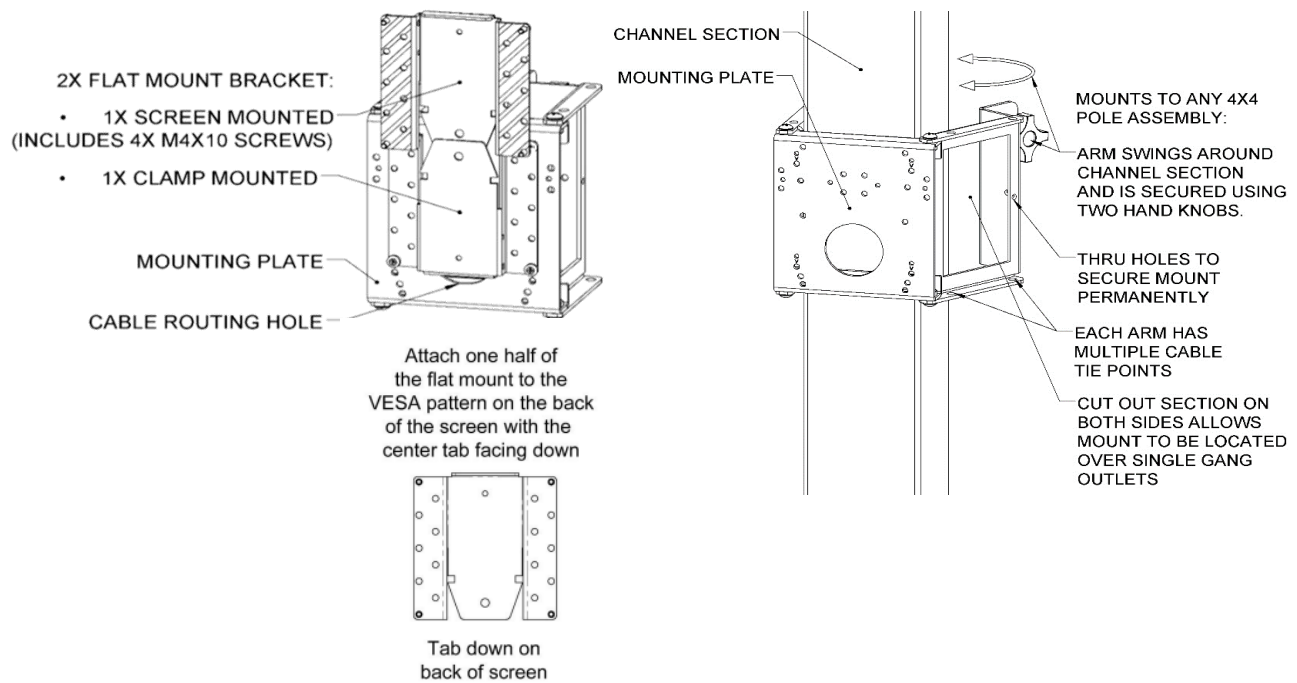OUTLETS

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**

2X FLAT MOUNT BRACKET:
- **1X SCREEN MOUNTED** (INCLUDES 4X M4X10 SCREWS)
- **1X CLAMP MOUNTED**

MOUNTING PLATE

CABLE ROUTING HOLE

Attach one half of the flat mount to the VESA pattern on the back of the screen with the center tab facing down

Tab down on back of screen

CHANNEL SECTION

MOUNTING PLATE

MOUNTS TO ANY 4X4 POLE ASSEMBLY:

ARM SWINGS AROUND CHANNEL SECTION AND IS SECURED USING TWO HAND KNOBS.

THRU HOLES TO SECURE MOUNT PERMANENTLY

EACH ARM HAS MULTIPLE CABLE TIE POINTS

CUT OUT SECTION ON BOTH SIDES ALLOWS MOUNT TO BE LOCATED OVER SINGLE GANG OUTLETS

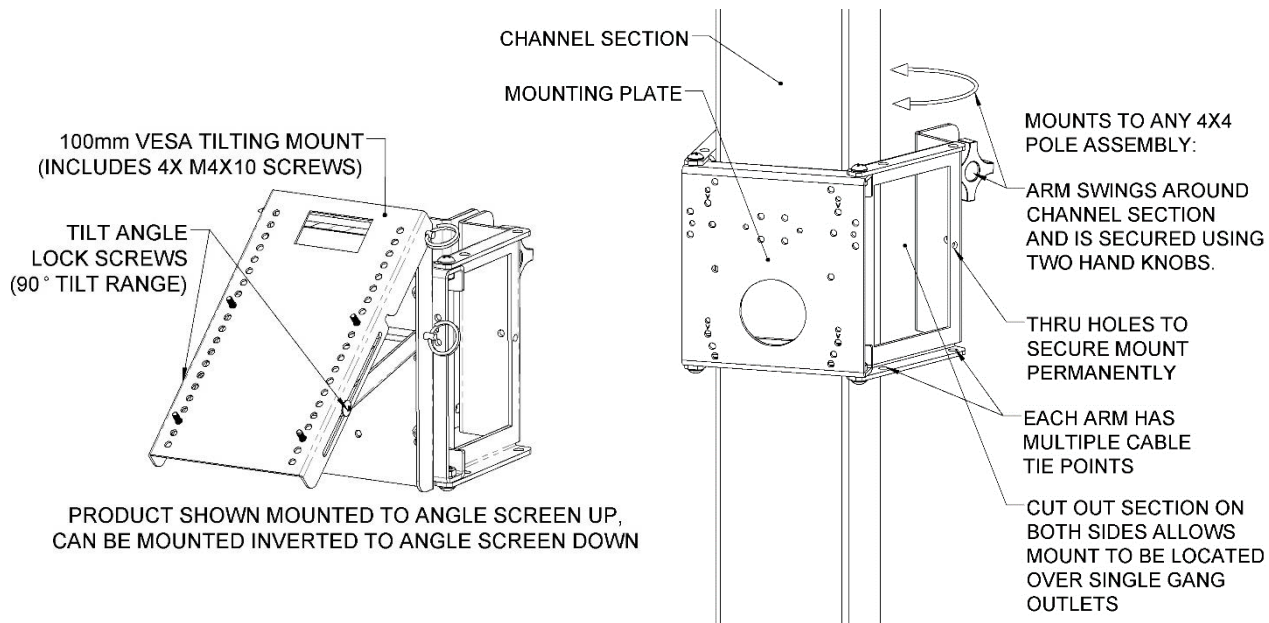**PN 81575 4X4 Clamp on Flat Quick Connect 100mm VESA Mount**

- 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 raised approximately 2" inches out from the surface of the vertical 4x4 pole assembly when equipped with the quick connect VESA plates.
- The mount Includes 4 EA M4 X 10mm L Phillips head screws to attach the quick connect VESA mounting plate to the back of the screen.
- One quick connect VESA plate is attached to the square pattern of four tapped hole on the back of the screen with the mating tab facing downward; the other quick connect VESA plate is attached to the mounting plate with the mating facing upward. When the tabs are aligned correctly with the upper tab slightly above and inside of the lower tab; they can be brought together to interlock.
- A Phillips head lock screw on the side of the quick connect plates can be tightened to secure the two halves of the mount together semi permanently which prevents the screen from being lifted and removed.
- 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.
- Refer to sections: **Attaching a 4X4 Clamp On Mount to a Pole assembly.**

CHANNEL SECTION

MOUNTING PLATE

100mm VESA TILTING MOUNT
(INCLUDES 4X M4X10 SCREWS)

TILT ANGLE
LOCK SCREWS
(90° TILT RANGE)

MOUNTS TO ANY 4X4
POLE ASSEMBLY:

ARM SWINGS AROUND
CHANNEL SECTION
AND IS SECURED USING
TWO HAND KNOBS.

THRU HOLES TO
SECURE MOUNT
PERMANENTLY

EACH ARM HAS
MULTIPLE CABLE
TIE POINTS

CUT OUT SECTION ON
BOTH SIDES ALLOWS
MOUNT TO BE LOCATED
OVER SINGLE GANG
OUTLETS

PRODUCT SHOWN MOUNTED TO ANGLE SCREEN UP,
CAN BE MOUNTED INVERTED TO ANGLE SCREEN DOWN
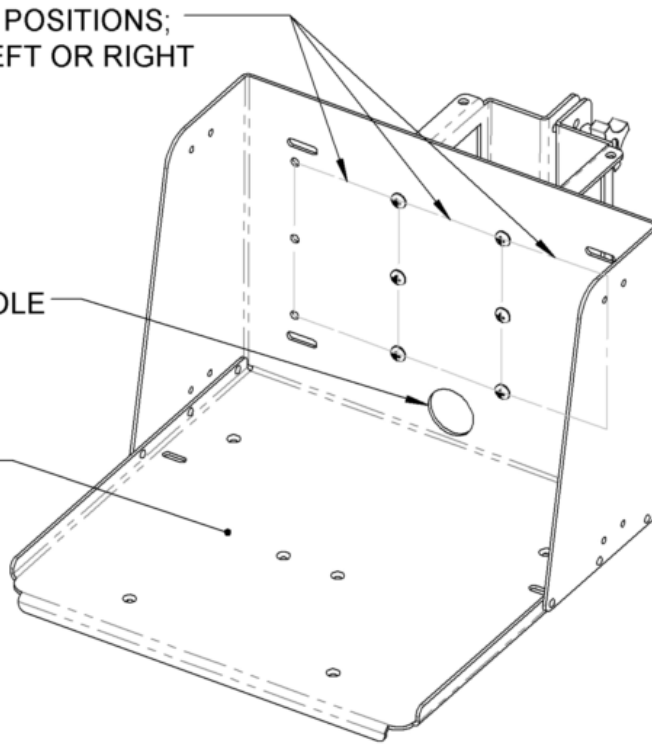
PN 81577 4X4 Clamp on Tilting 100mm VESA Mount

• 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 then 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 desire 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**

SUPPORTS THREE MOUNTING POSITIONS; CENTERED AND OFFSET 3.5" LEFT OR RIGHT

CABLE PASSAGE HOLE

SIDE SHELF USABLE AREA: 13.5" W X 13" D X 10" H

81580 4X4 Clamp on Mount+ Side Shelf for Mini Cash Drawer or other peripherals

- This versatile mounting system clamps securely at any point along a vertical 4"W X 4"D pole assembly with the mounting base oriented parallel to any of the four sides of a pole without tools.
- When the Clamp on Side Shelf is attached to the 4X4 pole; the rear surface of the Shelf it is located approximately 2" out from the surface of the vertical pole assembly.
- 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.
- The Clamp on Side Shelf mounting plate has three positions that allow the Shelf holder to be installed in the center of the plate or to be offset 3.5" to either the right or left sides.

T-SHIRT STYLE BAG HOLDER:
12" W X 12" D X 16" H

FITS STADARD BAGS
11.5" W x 6" D x 21" H
(NOT INLC)

MULTIPLE SLOTS ALLOW D-CLAMPS
TO SECURE BAG HOLDER ONTO
SHELF WITH 1/4" SCREWS

SIDE SHELF USABLE AREA:
13.5" W X 13" D X 10" H

SUPPORTS THREE MOUNTING POSITIONS;
CENTERED AND OFFSET 3.5" LEFT OR RIGHT
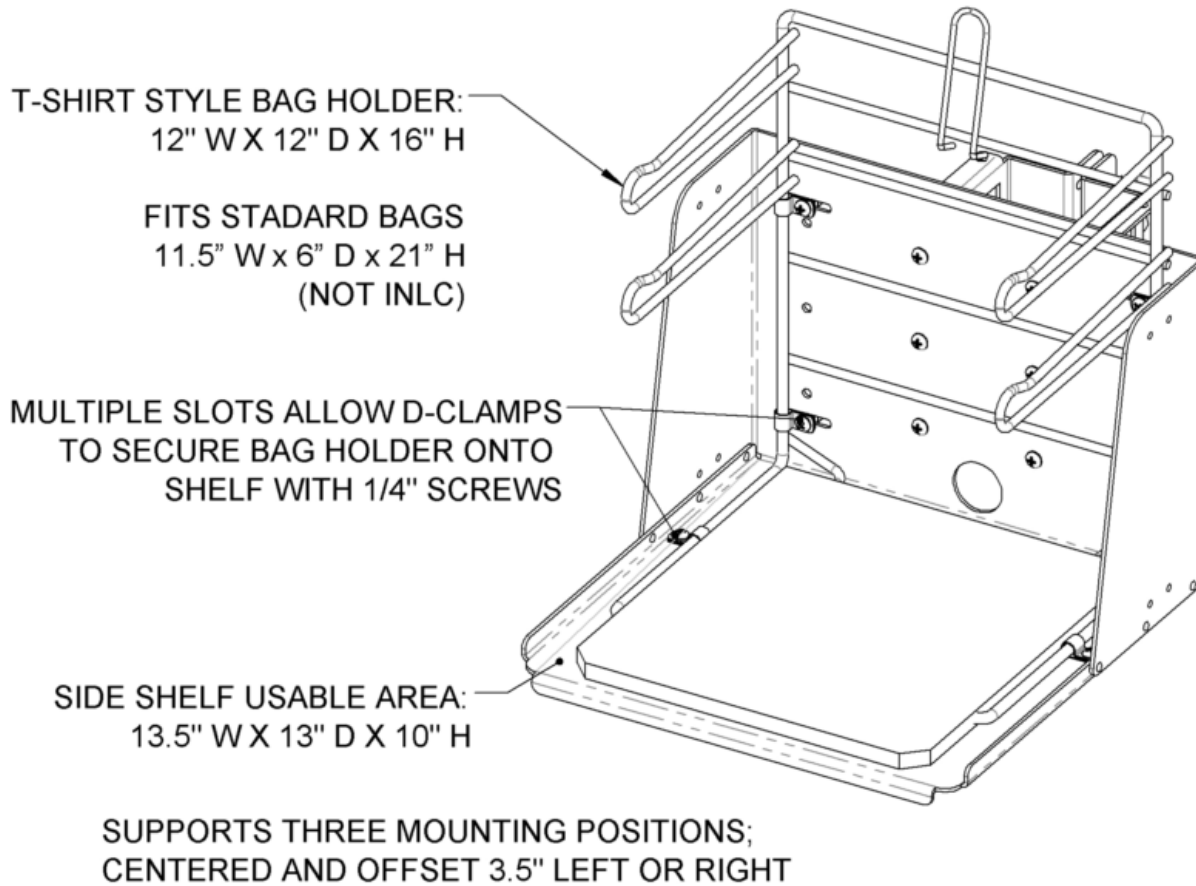
PN 81579 4X4 Clamp on Mount Side Shelf with Bag Holder

- This versatile mounting system clamps securely at any point along a vertical 4"W X 4"D pole assembly with the mounting base oriented parallel to any of the four sides of a pole without tools.
- When the Clamp on Side Shelf with Bag Holder is attached to the 4X4 pole; the rear surface of the Shelf it is located approximately 2" out from the surface of the vertical pole assembly.
- 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.
- The Side Shelf mounting plate has three positions that allow the Side Shelf with bag holder to be installed in the center of the plate or to be offset 3.5" to either the right or left sides.
- The T Shirt Bag Holder overall dimensions are 12" Wide x 12" Deep x 16" High. The bag holder stand is made of chromed steel rod with a 1/2" thick White PVC Plastic Sheet Base. Fits standard, 11 ½" Wide x 6" Deep x 21" High Bags. Holds medium-sized bags open for easy filling and can accommodate a large supply of bags. Smaller bags can fit on side hooks. Bags sold separately.

CLAMPS TO ANY
4X4 POLE ASSEMBLY

STAINLESS STEEL TABLE
12"D X 24"W

.70"

HEAVY DUTY SUPPORT BRACKET
WITH MULTIPLE CABLE PASSAGE HOLES
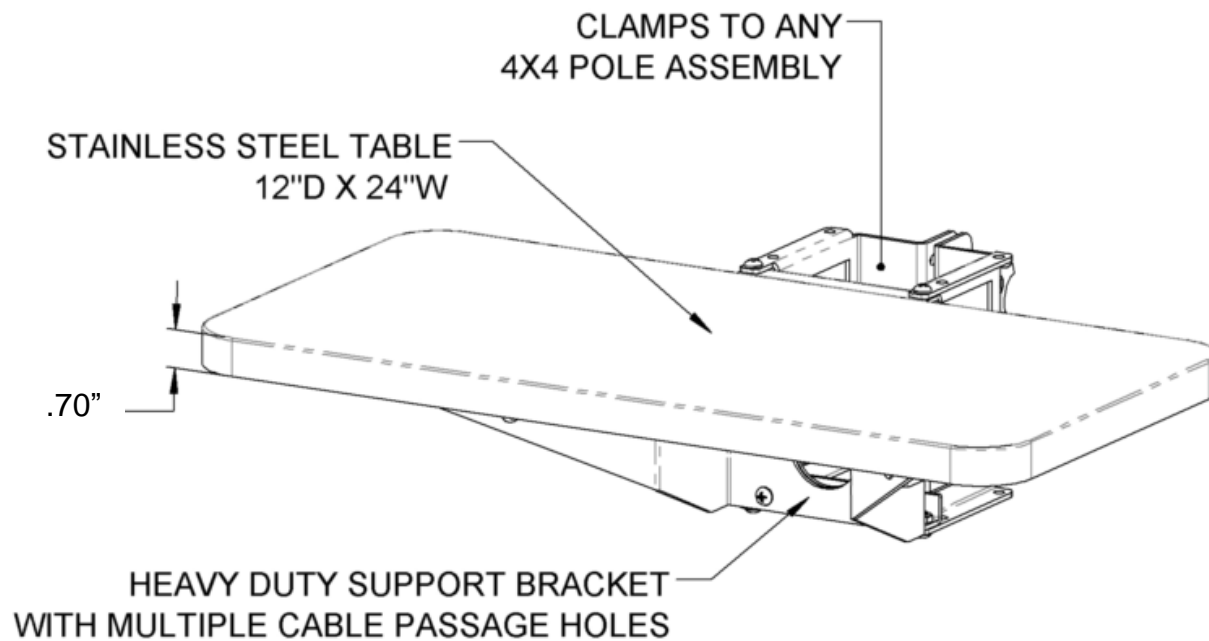
TABLES CAN BE STACKED VERTICALLY
WITH A MINIMUM SPACING OF 6"
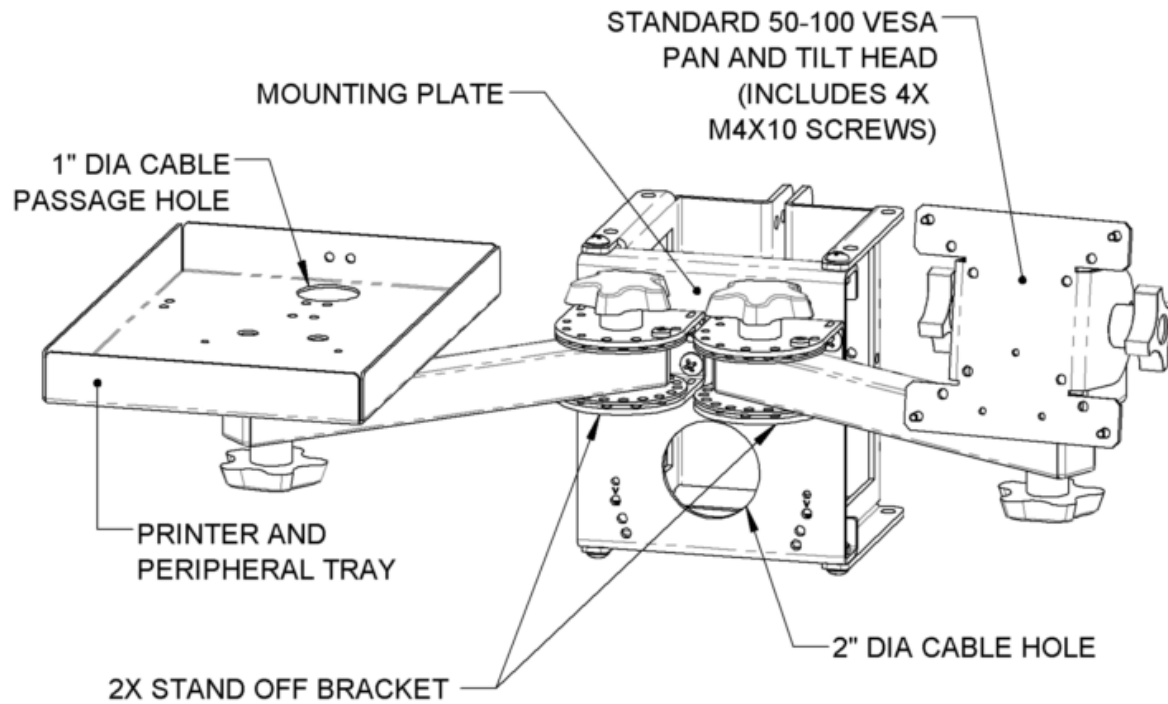
PN 81581 12"D X 24"W Side table +4X4 Clamp On Mount

- This versatile mounting system clamps securely at any point along a vertical 4"W X 4"D pole assembly with the 24"L side of the table top oriented parallel to any of the four sides of a pole without tools.
- The stainless steel table top includes four, smooth, rounded corners is supported by a heavy duty, galvanized, support bracket that attaches to the underside of the table top and to the mounting plate of the 4x4 Clamp On mount.
- Multiple tables can be installed one above the other, on opposite sides of the pole or offset at 90 degrees to either side to create a sturdy, self-supporting shelving system with a minimum spacing of 6 inches between shelves.
- 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.

PN 81583 4X4 Clamp on Mount with 2 adjustable 8" Arms + a POS Printer Tray+ a VESA Pan and Tilt Head

- This versatile mounting system clamps securely at any point along a vertical 4"W X 4"D pole assembly and includes two adjustable arms that support a VESA Pan and Tilt Head and a Printer Tray-peripherals tray.
- 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.
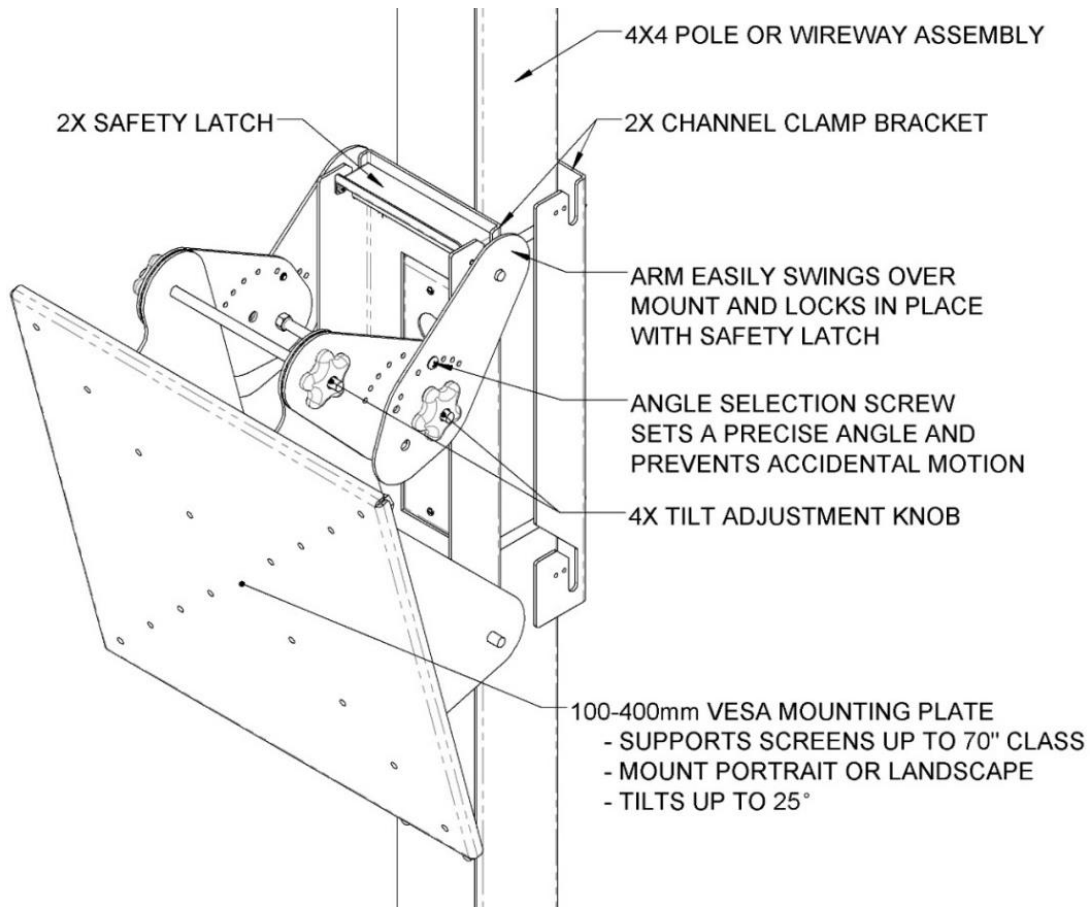
Refer to sections:

PN 21240 8" Straight Adjustable Arm Assembly with Standard 75-100mm VESA Pan- Tilt Head.

Installing a screen with an attached VESA Pan and Tilt Head on the end of an Arm.

Attaching a POS Printer or Peripheral Equipment Tray to the end of an Arm.

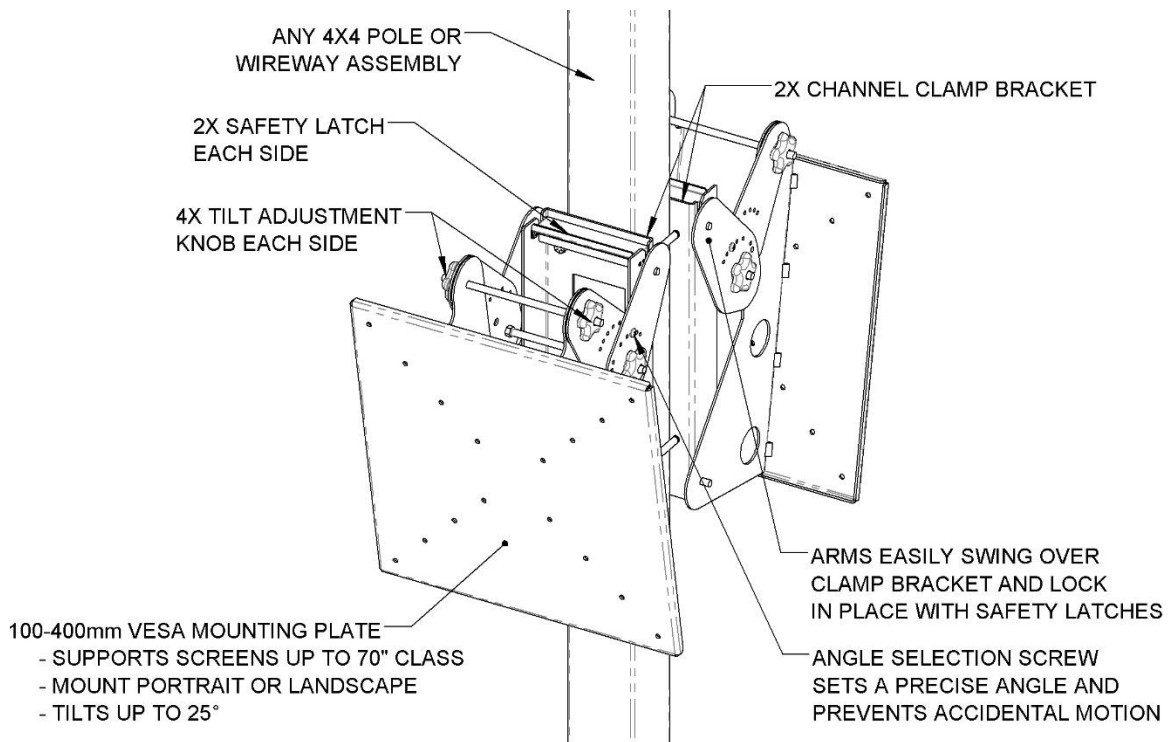**Attaching a VESA Pan and Tilt Head to the Back of a Screen.**

PN 81561 Clamp On 100-400mm VESA Tilting Mount

• The 100-400mm VESA Clamp on mount allows screens up to 70" class to be mounted in either portrait or landscape orientation and tilted forward up to 25 degrees.

• Includes VESA mounting patterns for 100mm, 200mm, 300mm, 400mm or any height and width combination of these mounting standards.

• The Tilt Mount securely clamps to any 4"x4" vertical Pole or Wireway Assembly.

• The screen tilt position is adjustable from 0 degrees flat to 25 degrees forward and is secured with four 5-point hand knobs located behind the back of the screen, allowing easy adjustment without tools.

• Two Phillips head screws on the inner ends of the tilt link plates can be tightened into angle selection holes to more permanently lock the tilt position in increments of 5 degrees.

• Both of the channel clamping sections include cut out areas that allow the mount to be installed over two standard single gang outlets.

• Dual safety latches secure the tilt assembly to the channel clamp.

• Both of the channel clamping sections include through holes to allow self-drilling screws to be installed into the pole for a more permanent method of securing the mount.

• The clamping channel sections include a cut out section that allows two single gang power and /or data outlets to be installed behind the screen.

• Also available in a double configuration (PN 81562) with two screens oriented "back to back" on opposite sides of the pole assembly.

• **For More information and installation instructions, refer to the separate product information sheet for PN 81561 and PN 81562**

https://www.practicalqualitysystems.com/single-large-screen-100-400mm-vesa-4x4-clamp-on-mount.html
https://www.practicalqualitysystems.com/double-large-screen-100-400mm-vesa-4x4-clamp-on-mount.html

info@practicalqualitysystems.com   WWW.PRACTICALQUALITYSYSTEMS.COM   (818) 993-1022

ALL PRODUCTS PATENT PENDING

ANY 4X4 POLE OR
WIREWAY ASSEMBLY

2X CHANNEL CLAMP BRACKET

2X SAFETY LATCH
EACH SIDE

4X TILT ADJUSTMENT
KNOB EACH SIDE

ARMS EASILY SWING OVER
CLAMP BRACKET AND LOCK
IN PLACE WITH SAFETY LATCHES

ANGLE SELECTION SCREW
SETS A PRECISE ANGLE AND
PREVENTS ACCIDENTAL MOTION

100-400mm VESA MOUNTING PLATE
- SUPPORTS SCREENS UP TO 70" CLASS
- MOUNT PORTRAIT OR LANDSCAPE
- TILTS UP TO 25°

PN 81562 4X4 Clamp On Double Large Screen 100-400mm VESA Tilting Mount

- The 100-400mm VESA Clamp on mount allows two screens up to 70" class to be mounted in a back to back configuration in either portrait or landscape orientation and tilted forward up to 25 degrees.
- Includes VESA mounting patterns for 100mm, 200mm, 300mm, 400mm or any height and width combination of these mounting standards.
- The Tilt Mount securely clamps to any 4"x4" vertical Pole or Stainless wireway assembly.
- [Click for more info on compatible Stainless steel wireway assemblies.](#)
- The screen tilt position is adjustable from 0 degrees flat to 25 degrees forward and is secured with four 5-point hand knobs located behind the back of the screen, allowing easy adjustment without tools.
- Two Phillips head screws on the inner ends of the tilt link plates can be tightened into angle selection holes to more permanently lock the tilt position in increments of 5 degrees.
- Both of the channel clamping sections include cut out areas that allow the mount to be installed over two standard single gang outlets.
- Dual safety latches secure the tilt assembly to the channel clamp.
- Both of the channel clamping sections include through holes to allow self-drilling screws to be installed into the pole for a more permanent method of securing the mount.
- The clamping channel sections include a cut out section that allows two single gang power and /or data outlets to be installed behind the screen.
- Also available in a double configuration (PN 81562) with two screens oriented "back to back" on opposite sides of the pole assembly.
- **For More information and installation instructions, refer to the separate product information sheet for PN 81561 and PN 81562**

https://www.practicalqualitysystems.com/single-large-screen-100-400mm-vesa-4x4-clamp-on-mount.html
https://www.practicalqualitysystems.com/double-large-screen-100-400mm-vesa-4x4-clamp-on-mount.html

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ALL PRODUCTS PATENT PENDING

Basic Installation Instructions

1.1 Important Notes
These instructions include sections which are necessary to understand the installation of multiple types of 4X4 vertical pole assemblies; so not all sections will be applicable to the particular assembly that you are using. However; we strongly recommend that you read the entire content of these installation instructions BEFORE proceeding with the design of the system, the ordering of assemblies or parts and before performing any installation work.

1.2 The installation of these systems should only be performed by qualified persons such as Journeyman Electricians and/ or Professional Riggers.

1.3 Using this document
You will be prompted at various points throughout these instructions to reference sections which will include additional details on the various installation procedures. There are many notes, recommendations and tips included in the text of the various sections of the installation instructions; these are included as helpful suggestions only; DO NOT substitute them for your own best practices or established safety procedures.

1.4 **Nomenclature**:
The terms "Extension Section Assembly", "Pole Assembly", "Channel Assembly" and Wireway are used interchangeably throughout this document.

1.5 **Definitions**
Channel Extension Sections and Wireways have Cover Plates that are attached to the "Open side" of the channel.

2.1 Important notes

2.2 Note; if you are installing power or data cabling outlets or faceplates with cable passage openings adjacent to the location of the clamp on mount; complete this work BEFORE installing the clamp on mount onto the channel.

2.3 Note; if your mount includes a VESA pan and tilt head or Quick Disconnect VESA mount; refer to the separate sections dedicated to those sub- assemblies for instructions on how to install the screen.

CLOSE HINGED SIDE BRACKETS AROUND POLE ASSEMBLY

INSERT AND TIGHTEN KNOBS

4X4 POLE ASSEMBLY
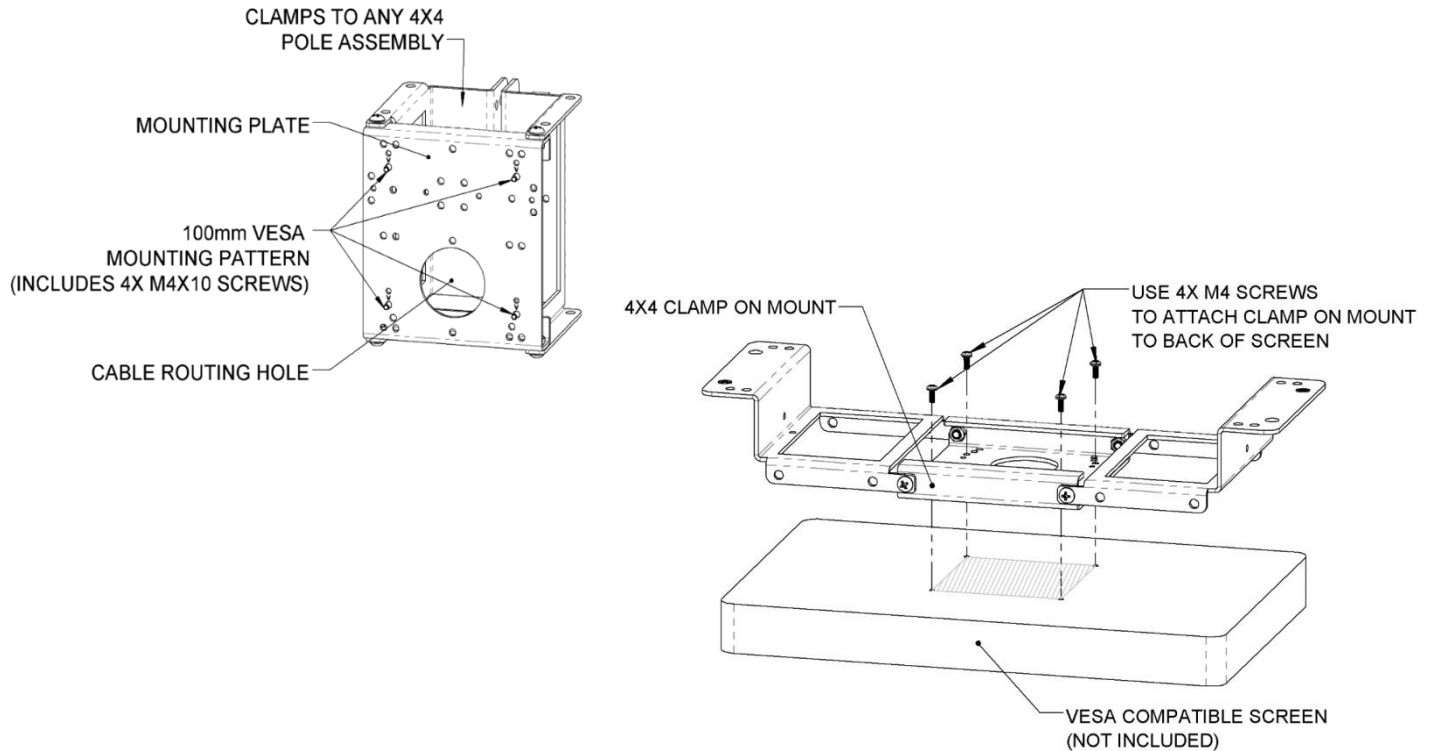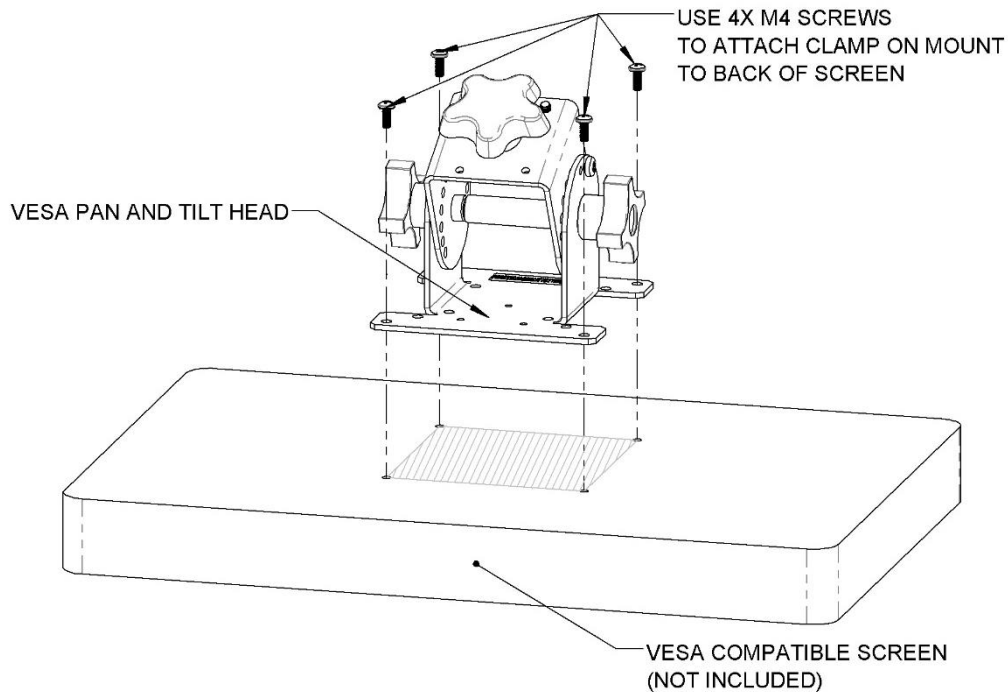
4X4 POLE ASSEMBLY

4X4 CLAMP ON MOUNT

4X4 POLE ASSEMBLY

MULTIPLE CABLE TIE POINTS EACH SIDE

HOLES FOR SELF TAPPING SCREWS EACH SIDE
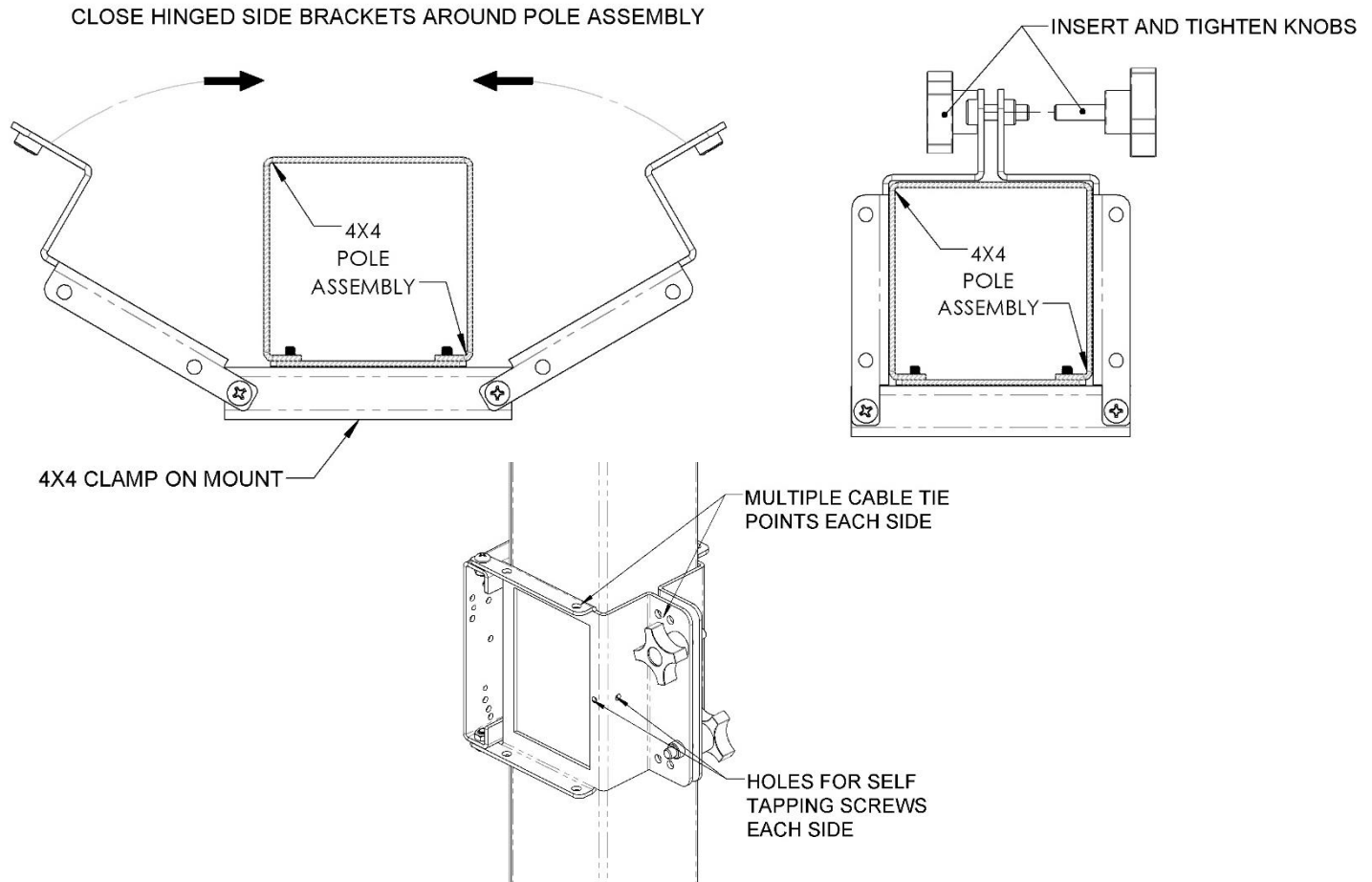
Attaching a 4X4 Clamp On Mount to a Pole assembly

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.

ALL PRODUCTS PATENT PENDING

CLAMPS TO ANY 4X4 POLE ASSEMBLY

MOUNTING PLATE

100mm VESA MOUNTING PATTERN (INCLUDES 4X M4X10 SCREWS)

CABLE ROUTING HOLE

4X4 CLAMP ON MOUNT

USE 4X M4 SCREWS TO ATTACH CLAMP ON MOUNT TO BACK OF SCREEN

VESA COMPATIBLE SCREEN (NOT INCLUDED)

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 though 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.

USE 4X M4 SCREWS
TO ATTACH CLAMP ON MOUNT
TO BACK OF SCREEN

VESA PAN AND TILT HEAD

VESA COMPATIBLE SCREEN
(NOT INCLUDED)

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.
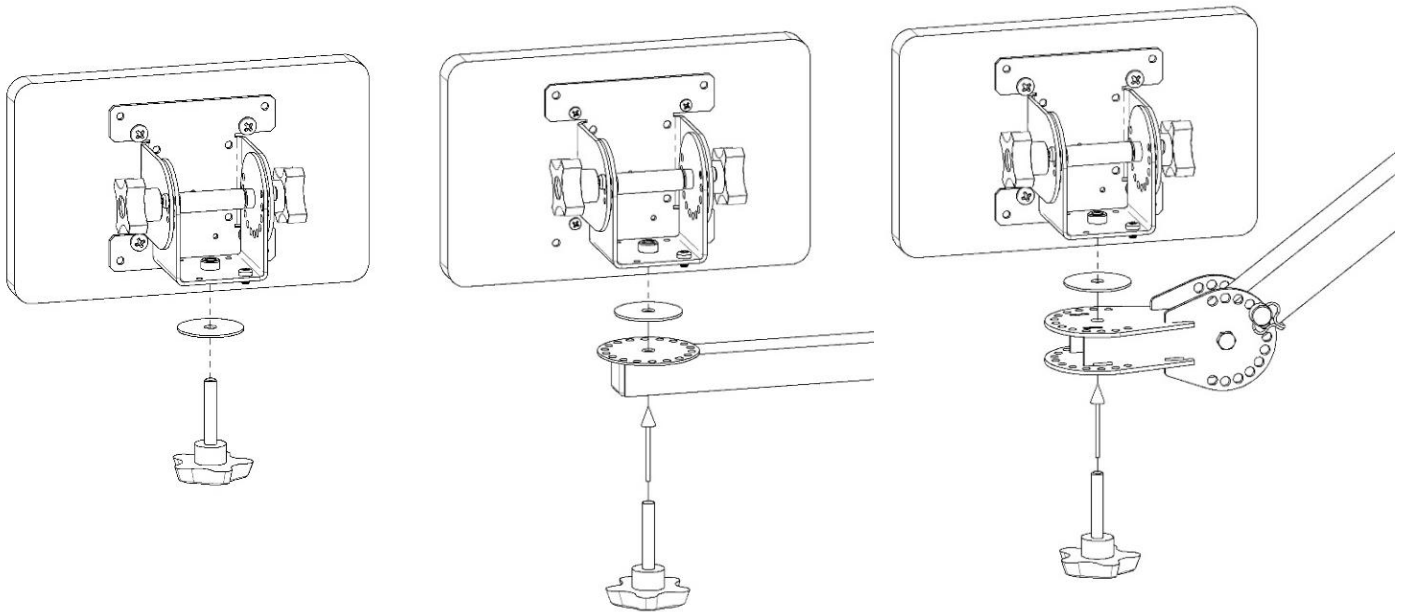
Installing a screen with an attached VESA Pan and Tilt Head on the end of an Arm
(Note; shown with a standard pan and tilt head; however the procedure is the same for all pan and tilt head types)

1. As shipped; arm assemblies will require that the VESA pan and tilt heads be removed from the end of the arm, have the pan and tilt head attached to the back of the screen and then the screen with the pan and tilt head installed onto the end of the arm.
Refer to the section "**Attaching a VESA Pan and Tilt Head to the Back of a Screen** "
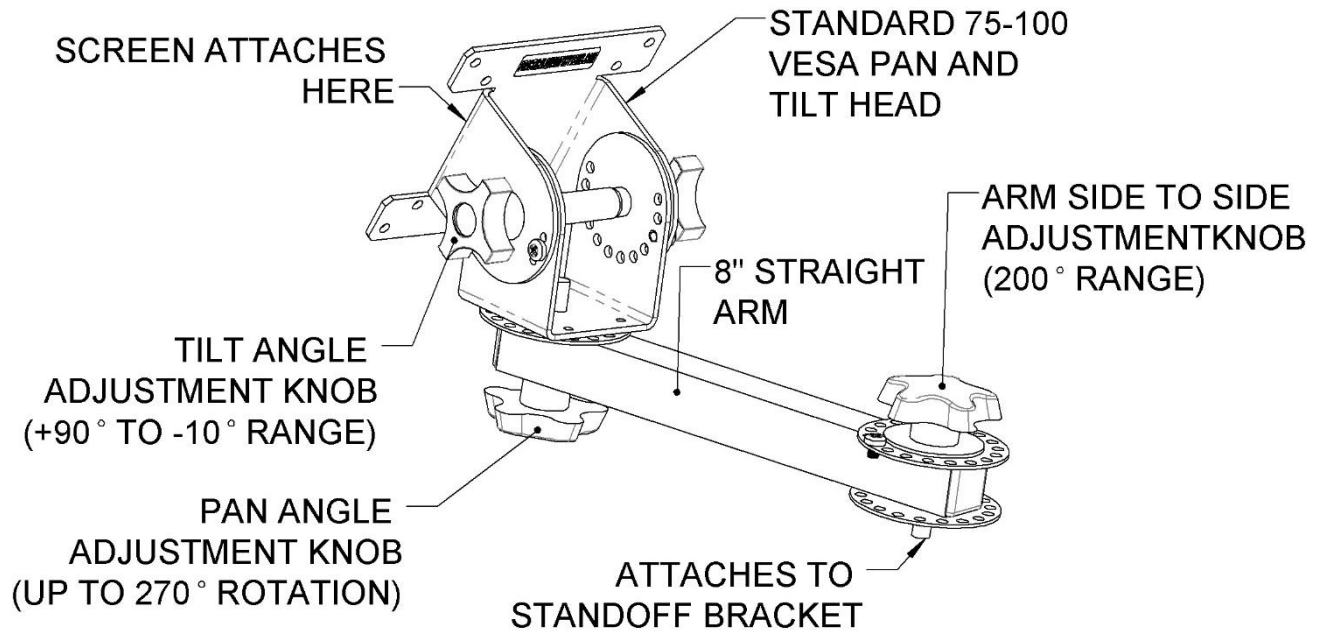
2. To install the screen with the attached pan and tilt head onto the end of an arm; remove the five- point knob and the rubber clutch washer from the pan bracket of the VESA Pan and Tilt Head assembly. Place the rubber clutch washer on the top of the end of the arm and align the hole in the center of the washer with the hole on the end of the arm.

3. Carefully lift the Screen with the attached VESA Pan and Tilt Head assembly, align the tapped hole in the panning base of the pan and tilt head with hole in the rubber clutch washer on the top of the end of the arm, install the shaft of the five-point hand knob up through the underside of the arm, through the rubber clutch washer and then carefully thread it into the panning base of the pan and tilt head.
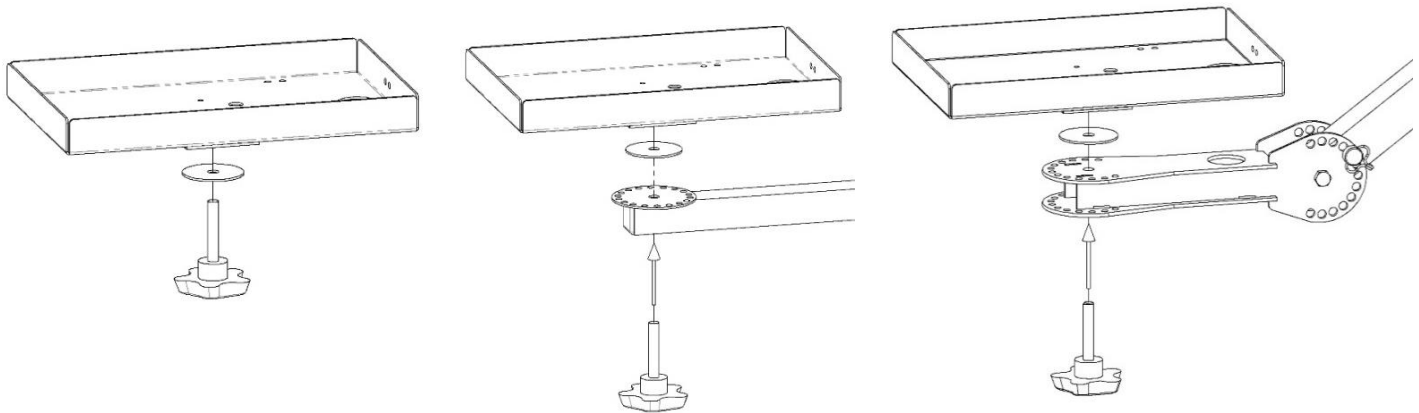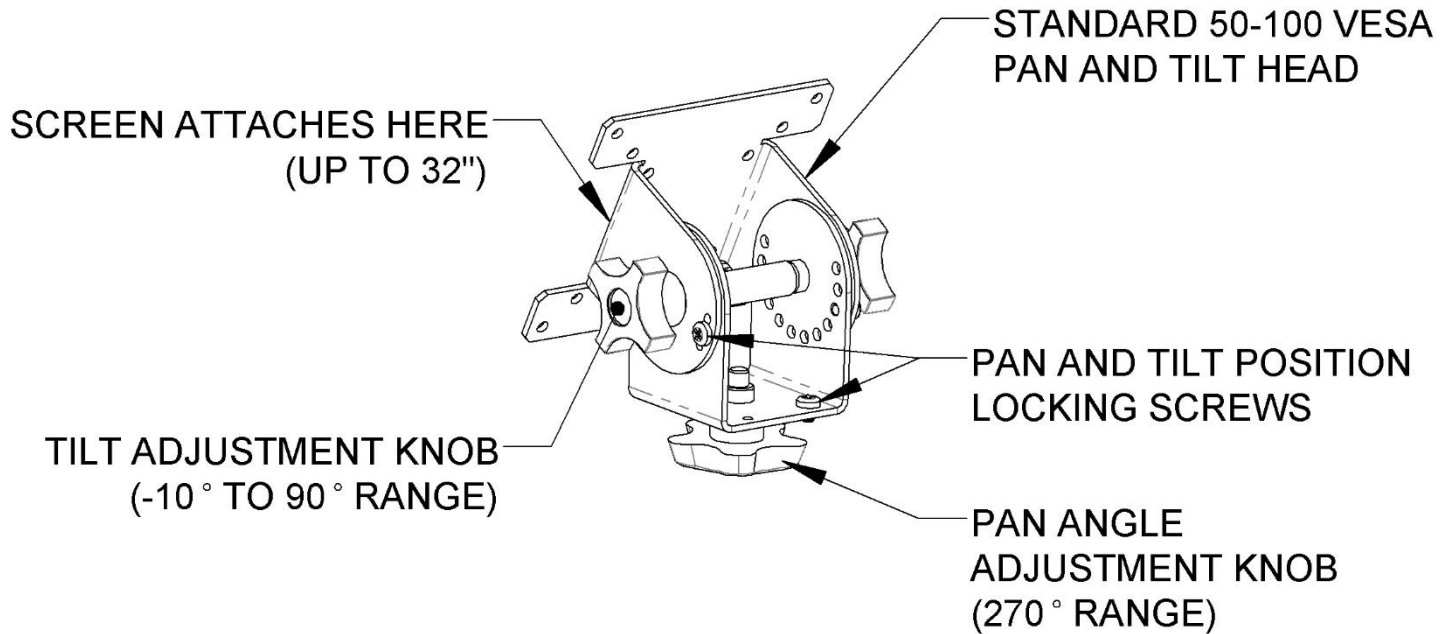
Attaching a POS Printer or Peripheral Equipment Tray to the end of an Arm

1. As shipped; some arm assemblies will require that the tray be installed onto the end of the arm.

2. To install the printer tray; remove the five- point knob and the rubber clutch washer from the base of the printer tray. Place the rubber clutch washer on the top of the end of the arm and align the hole in the center of the washer with the hole on the end of the arm.

3. Carefully lift the printer tray and align the tapped hole in the base of the tray on top of the rubber clutch washer on the top of the end of the arm, install the shaft of the five-point hand knob up through the underside of the arm, through the rubber clutch washer and then carefully thread it into the base of the printer tray.
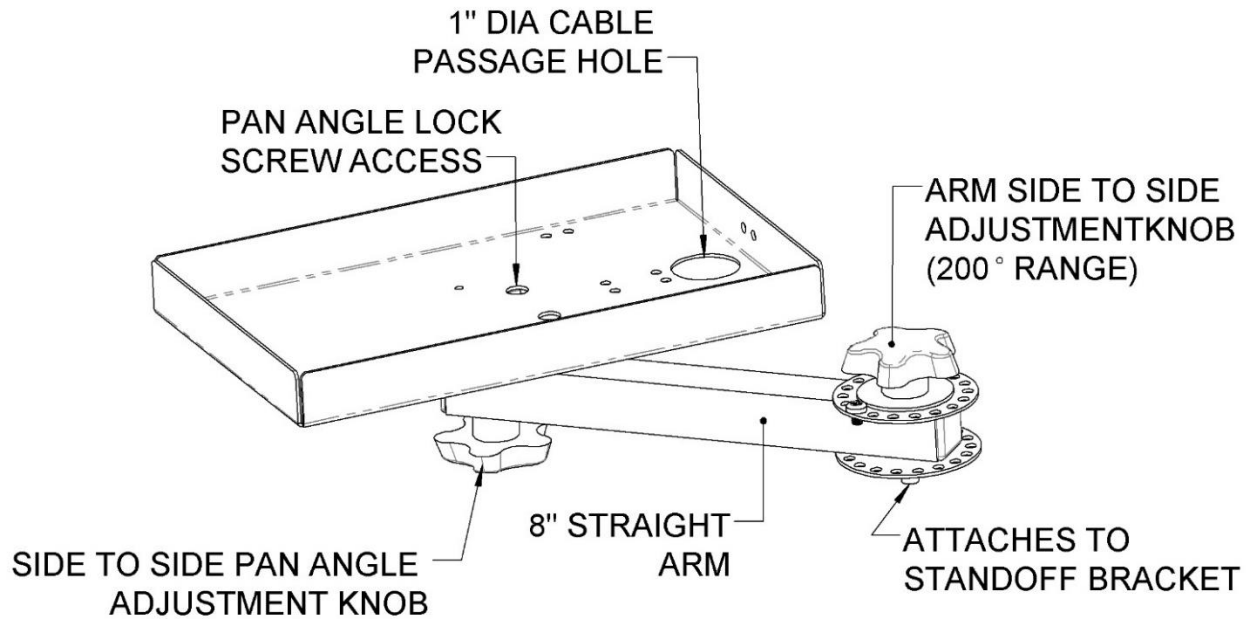
SCREEN ATTACHES HERE

STANDARD 75-100 VESA PAN AND TILT HEAD

TILT ANGLE ADJUSTMENT KNOB (+90° TO -10° RANGE)

8" STRAIGHT ARM

ARM SIDE TO SIDE ADJUSTMENTKNOB (200° RANGE)

PAN ANGLE ADJUSTMENT KNOB (UP TO 270° ROTATION)

ATTACHES TO STANDOFF BRACKET

PN 21240 8" Straight Adjustable Arm Assembly with Standard 75-100mm VESA Pan- Tilt Head

• The 8" straight adjustable arm can be attached to any of the four standoff brackets on the Arm Collar assembly or to a 4X4 Clamp on mount.

• These arms have 200 degrees of side to side, horizontal position adjustment on the standoff brackets of the arm Collar Assembly.

• The horizontal, side to side position of the arm is adjusted with a 5 point hand knob on the upper standoff bracket. The knob works with a pair of rubber washers that are used in the assembly to provide a variable clutching resistance.

• A Phillips head screws that is also located on the upper standoff bracket can be tightened to permanently lock the side to side position of the arm.

• Refer to the section: **Installing a screen with an attached VESA Pan and Tilt Head on the end of an Arm.**

STANDARD 50-100 VESA PAN AND TILT HEAD

SCREEN ATTACHES HERE (UP TO 32")

PAN AND TILT POSITION LOCKING SCREWS

TILT ADJUSTMENT KNOB (-10° TO 90° RANGE)

PAN ANGLE ADJUSTMENT KNOB (270° RANGE)

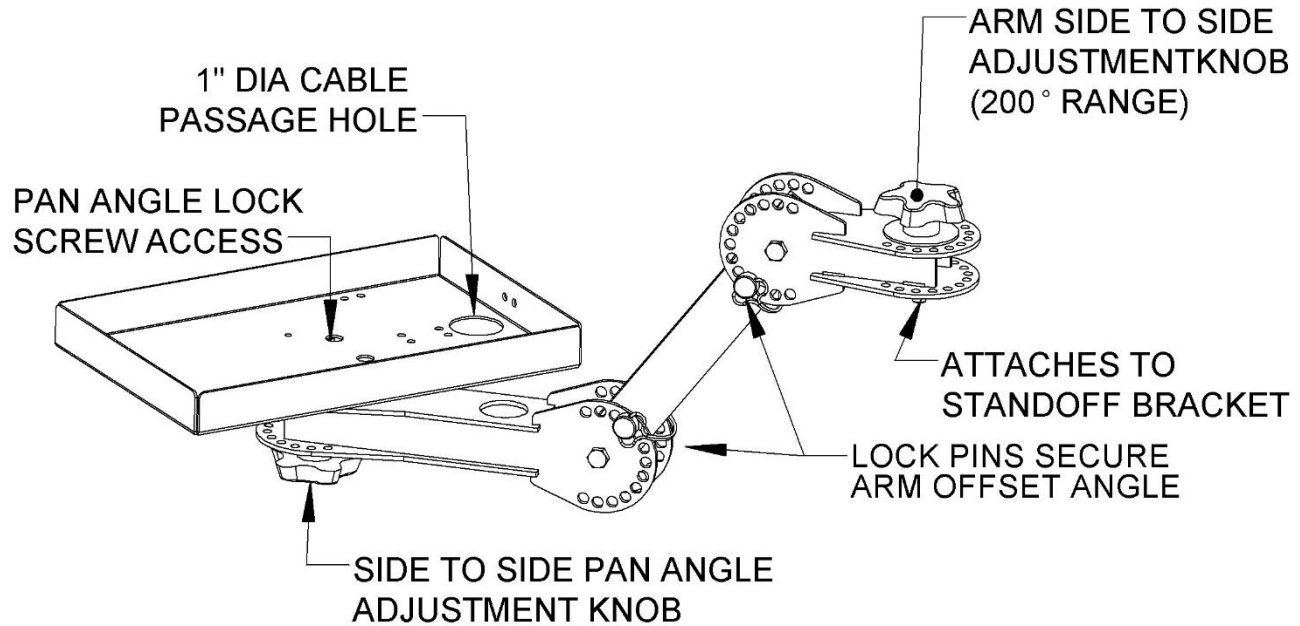**PN 21240 (part 2) 8" Straight Adjustable Arm Assembly with Standard 75-100mm VESA Pan- Tilt Head**

• The Standard 50, 75,100mm VESA Pan and Tilt Head Assembly supports most screens up to 32" class and attaches to the end of any arm assembly without tools.

• Screen up and down tilt position can be adjusted from +90º to -10º and secured using two 4-point hand knobs.

• Screen side-to-side pan position can be adjusted up to 270º, dependent on screen size, and secured using a 5-point hand knob.

• The knobs work with rubber washers in the pan and tilt head assembly to provider variable clutching resistance.

• Screws located on the Pan Base and Tilt Bracket can be tightened to permanently secure the screen up and down tilt and side-to-side pan positions.

• Includes a 4EA M4X 10mm long VESA screws.

• Includes a cable tie point at the rear of the VESA mounting plate.

• All arm collar assemblies and all 4X4 Clamp on mounts will require that the VESA pan and tilt heads be attached to the ends of the arms.

• Refer to the section: "**Attaching a VESA Pan and Tilt Head to the Back of a Screen.**

1" DIA CABLE
PASSAGE HOLE

PAN ANGLE LOCK
SCREW ACCESS

ARM SIDE TO SIDE
ADJUSTMENTKNOB
(200° RANGE)

SIDE TO SIDE PAN ANGLE
ADJUSTMENT KNOB

8" STRAIGHT
ARM

ATTACHES TO
STANDOFF BRACKET

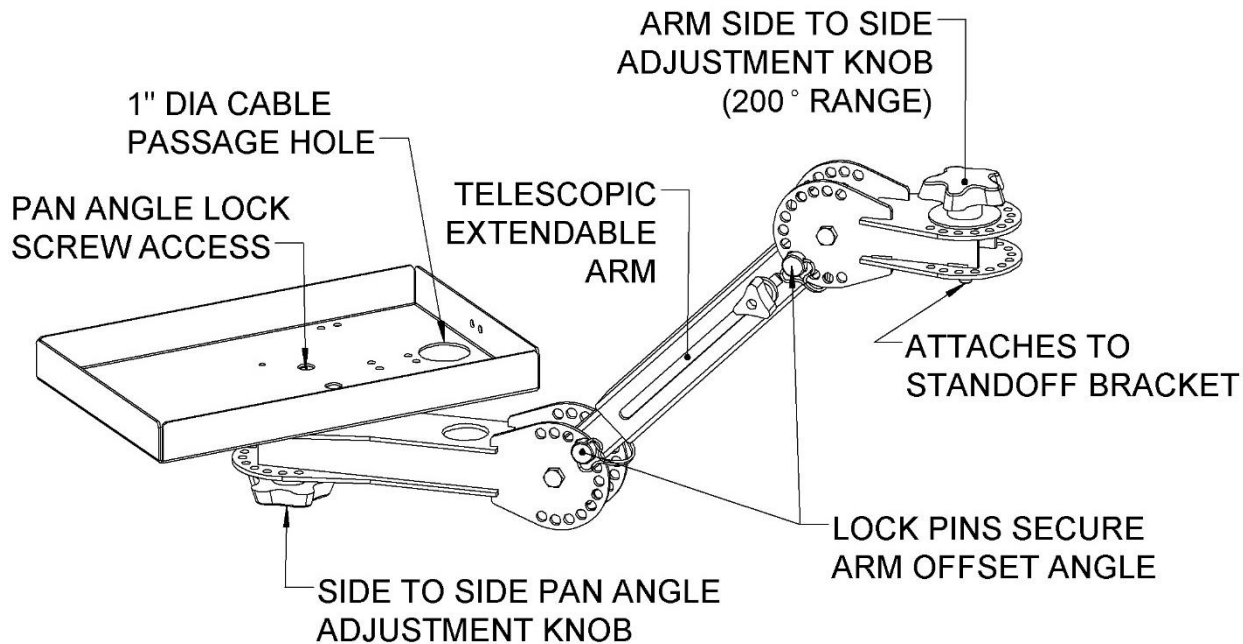**PN 21241 8" Straight Adjustable Arm Assembly with POS Printer or Peripheral Equipment Tray**

• The 8" straight adjustable arm can be attached to any of the four standoff brackets on the Arm Collar assembly.

• These arms have 200 degrees of side to side, horizontal position adjustment on the standoff brackets of the arm Collar Assembly.

• The horizontal, side to side position of the arm is adjusted with a 5 point hand knob on the upper standoff bracket. The knob works with a pair of rubber washers that are used in the assembly to provide a variable clutching resistance.

• The 6½" W X 10¼"L X 1" D tray assembly supports a POS printer or one or more EMV and QR/ Barcode readers or other small equipment.

• The tray can be attached to the end of any of the four arm assemblies and can be rotated 360 degrees.

• The side to side pan position of the tray is adjusted with a 5 point hand knob located under the end of the last arm segment. The knob works with a rubber washer that is used in the assembly to provide a variable clutching resistance.

• A Philips head screws located on the pan plane in the middle of the tray can be tightened to permanently lock the side to side position of the Tray arm on the end of the arm.

• The tray includes a 1" diameter cable path hole and multiple pairs of small holes to feed cable ties through.

• Some assemblies may be shipped with the printer tray removed from the end of the arm; refer to section:
Attaching a POS Printer or Peripheral Equipment Tray to the end of an Arm.
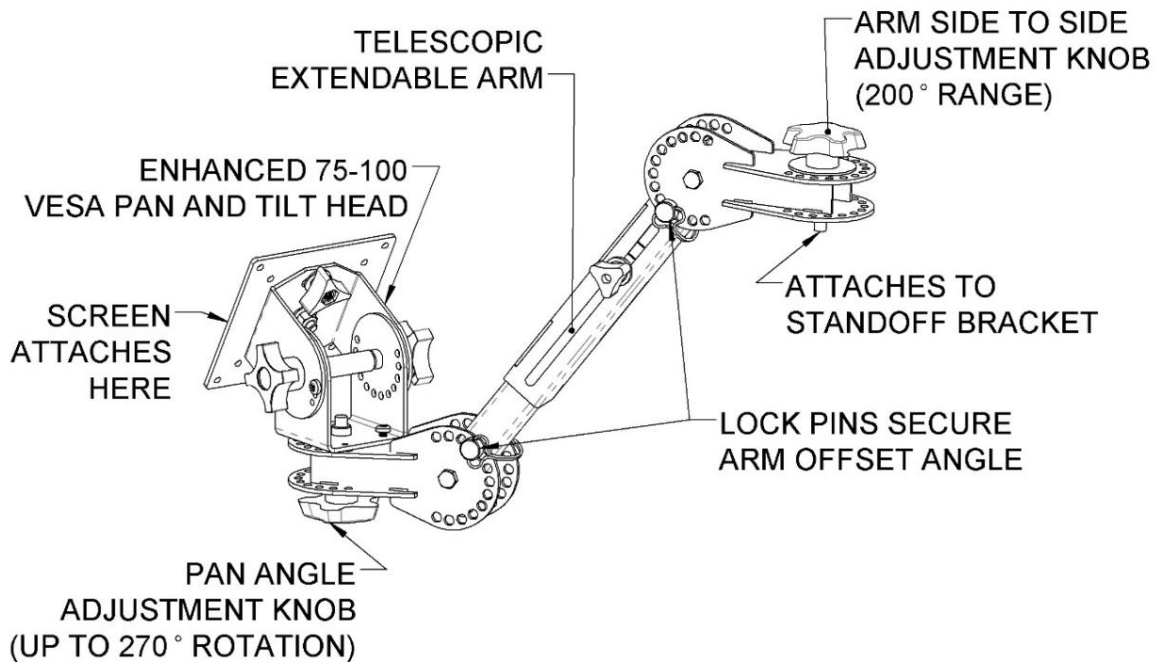
ARM SIDE TO SIDE
ADJUSTMENTKNOB
(200° RANGE)

1" DIA CABLE
PASSAGE HOLE

PAN ANGLE LOCK
SCREW ACCESS

ATTACHES TO
STANDOFF BRACKET

LOCK PINS SECURE
ARM OFFSET ANGLE

SIDE TO SIDE PAN ANGLE
ADJUSTMENT KNOB

PN 21246 Fully Articulating Arm Assembly with POS Printer or Peripheral Equipment Tray

• The Fully Articulating Arm includes three arm segments and can be attached to any of the four standoff brackets on the Arm Collar assembly.

• This arm has 200 degrees of side to side, horizontal position adjustment on the standoff bracket of the arm Collar Assembly.

• The horizontal, side to side position of the arm is adjusted with a 5 point hand knob on the upper standoff bracket. The knob works with a pair of rubber washers that are used in the assembly to provide a variable clutching resistance.

• A Phillips head screw that is also located on the upper standoff bracket can be tightened to permanently lock the side to side position of the arm.

• The angles of upper and lower arm segments or "offset brackets" adjust to allow the middle arm section to be extended down and outward a selectable distance out from the channel assembly.

• Each of the offset brackets has 13 different adjustable positions in 18 degree increments using lynch pins with spring clip retainers.

• The 6½" W X 10¼"L X 1" D tray assembly supports a POS printer or one or more EMV and QR/ Barcode readers or other small equipment.

• The tray can be attached to the end of any of the four arm assemblies and can be rotated 360 degrees.

• The side to side pan position of the tray is adjusted with a 5 point hand knob located under the end of the last arm segment. The knob works with a rubber washer that is used in the assembly to provide a variable clutching resistance.

• A Philips head screws located on the pan plane in the middle of the tray can be tightened to permanently lock the side to side position of the Tray arm on the end of the arm.

• The tray includes a 1" diameter cable path hole and multiple pairs of small holes to feed cable ties through.

• Some assemblies may be shipped with the printer tray removed from the end of the arm; refer to section:
Attaching a POS Printer or Peripheral Equipment Tray to the end of an Arm.
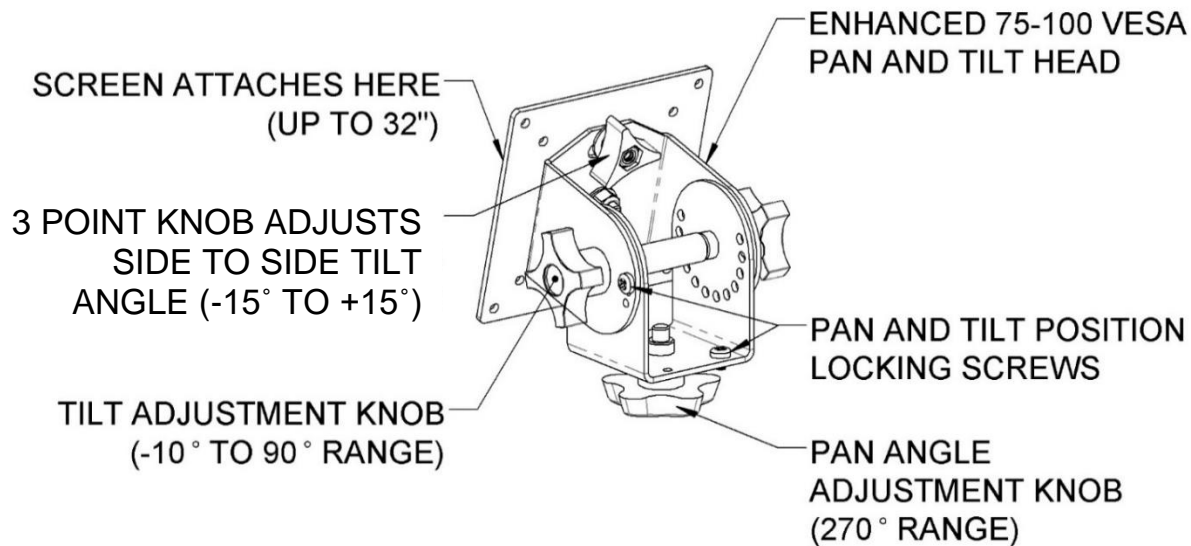
**PN 21252 Fully Articulating Extendable Arm Assembly with POS Printer or Peripheral Equipment Tray**

• The Fully Articulating Extendable Arm includes three arm segments and can be attached to any of the four standoff brackets on the Arm Collar assembly.

• This arm has 200 degrees of side to side, horizontal position adjustment on the standoff bracket of the arm Collar Assembly.

• The horizontal, side to side position of the arm is adjusted with a 5 point hand knob on the upper standoff bracket. The knob works with a pair of rubber washers that are used in the assembly to provide a variable clutching resistance.

• A Phillips head screw that is also located on the upper standoff bracket can be tightened to permanently lock the side to side position of the arm.

• The angles of upper and lower arm segments or "offset brackets" adjust to allow the middle arm segment to be extended down and outward a selectable distance out from the channel assembly.

• Each of the offset brackets has 13 different adjustable positions in 18 degree increments using lynch pins with spring clip retainers.

• The middle arm segment of this arm is telescopic and can be extended outward up to 6 inches. The extended position of the arm is adjusted with a 3 point knob on the side of the arm.

• The 6½" W X 10¼"L X 1" D tray assembly supports a POS printer or one or more EMV and QR/ Barcode readers or other small equipment.

• The tray can be attached to the end of any of the four arm assemblies and can be rotated 360 degrees.

• The side to side pan position of the tray is adjusted with a 5 point hand knob located under the end of the last arm segment. The knob works with a rubber washer that is used in the assembly to provide a variable clutching resistance.

• A Philips head screws located on the pan plane in the middle of the tray can be tightened to permanently lock the side to side position of the Tray arm on the end of the arm.

• The tray includes a 1" diameter cable path hole and multiple pairs of small holes to feed cable ties through.

• Some assemblies may be shipped with the printer tray removed from the end of the arm; refer to section:
Attaching a POS Printer or Peripheral Equipment Tray to the end of an Arm.

TELESCOPIC
EXTENDABLE ARM

ARM SIDE TO SIDE
ADJUSTMENT KNOB
(200° RANGE)

ENHANCED 75-100
VESA PAN AND TILT HEAD

SCREEN
ATTACHES
HERE

ATTACHES TO
STANDOFF BRACKET

LOCK PINS SECURE
ARM OFFSET ANGLE

PAN ANGLE
ADJUSTMENT KNOB
(UP TO 270° ROTATION)

PN 21249 Fully Articulating Extendable Arm Assembly with Enhanced 75-100mm VESA Pan and Tilt Head

• The Fully Articulating Extendable Arm includes three arm segments and can be attached to any of the four standoff brackets on the Arm Collar assembly.

• This arm has 200 degrees of side to side, horizontal position adjustment on the standoff bracket of the arm Collar Assembly.

• The horizontal, side to side position of the arm is adjusted with a 5 point hand knob on the upper standoff bracket. The knob works with a pair of rubber washers that are used in the assembly to provide a variable clutching resistance.

• A Phillips head screw that is also located on the upper standoff bracket can be tightened to permanently lock the side to side position of the arm.

• The angles of upper and lower arm segments or "offset brackets" adjust to allow the middle arm segment to be extended down and outward a selectable distance out from the channel assembly.

• Each of the offset brackets has 13 different adjustable positions in 18 degree increments using lynch pins with spring clip retainers.

• The middle arm segment of this arm is telescopic and can be extended outward up to 6 inches. The extended position of the arm is adjusted with a 3 point knob on the side of the arm.

• Arm assemblies typically have 200 degrees of side to side, horizontal position that is adjusted by a 5 point knob on the top of the standoff bracket.

• Refer to the section: "**Attaching a VESA Pan and Tilt Head with a Screen to the end of an arm.**

ENHANCED 75-100 VESA PAN AND TILT HEAD

SCREEN ATTACHES HERE (UP TO 32")

3 POINT KNOB ADJUSTS SIDE TO SIDE TILT ANGLE (-15˚ TO +15˚)

TILT ADJUSTMENT KNOB (-10˚ TO 90˚ RANGE)

PAN AND TILT POSITION LOCKING SCREWS

PAN ANGLE ADJUSTMENT KNOB (270˚ RANGE)

PN 21249 (part 2) Fully Articulating Extendable Arm Assembly with Enhanced 75-100mm VESA Pan and Tilt Head

• The Enhanced 75-100mm VESA Pan and Tilt Head Assembly supports most screens up to 32" class and attaches to the end of any arm assembly without tools.

• Tilt position can be adjusted from +90° to -10° and secured using two 4-point hand knobs.

• Pan side-to-side position can be adjusted up to 270°, dependent on screen size, and secured using a 5-point hand knob.

• Side to Side tilt angle can be adjusted from -15° to +15° by a 3-point knob on the back of the VESA mounting plate.

• The knobs work with rubber washers in the pan and tilt head assembly to provider variable clutching resistance.

• Screws located on the Pan Base and Tilt Bracket can be tightened to permanently secure the screen up and down tilt and side-to-side pan positions.

• Includes a 4EA M4X 10mm long VESA screws.

• Includes a cable tie point at the rear of the VESA mounting plate.

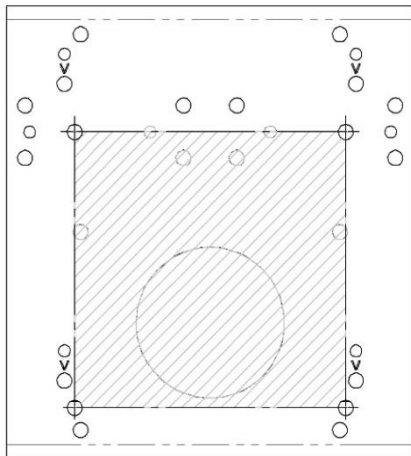• Refer to the section: "**Attaching a VESA Pan and Tilt Head to the Back of a Screen.**

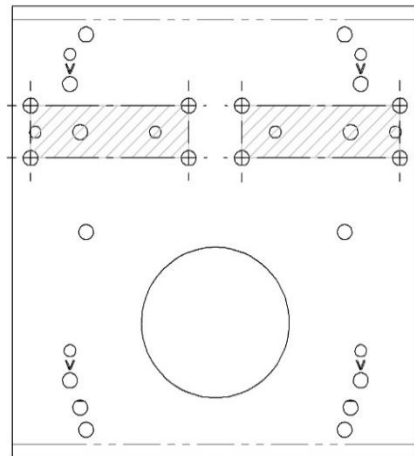**Legend to the hole patterns on 4X4 Clamp On Mounting plate**
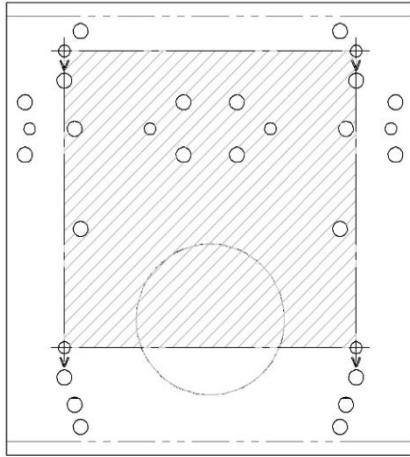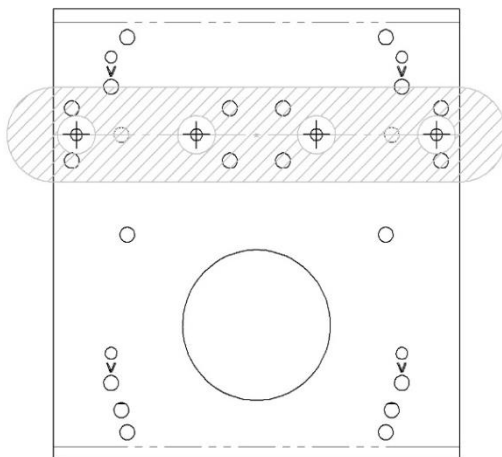
100MM VESA MOUNTING PATTERN
(4X #10 TAPPED HOLES)
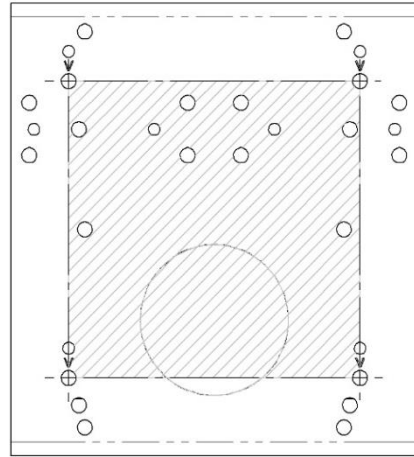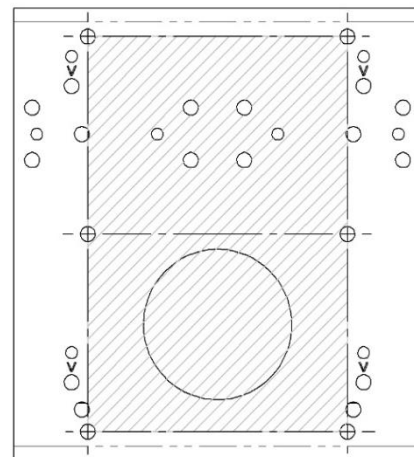
100MM VESA MOUNTING PATTERN
(4X #10 CLEARANCE HOLES)

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)

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ALL PRODUCTS PATENT PENDING

Introduction to the 4X4 Pole Systems Product Sub Groups - Page 1
For more information; click on the images or descriptions to visit the individual product sub group pages on our website.
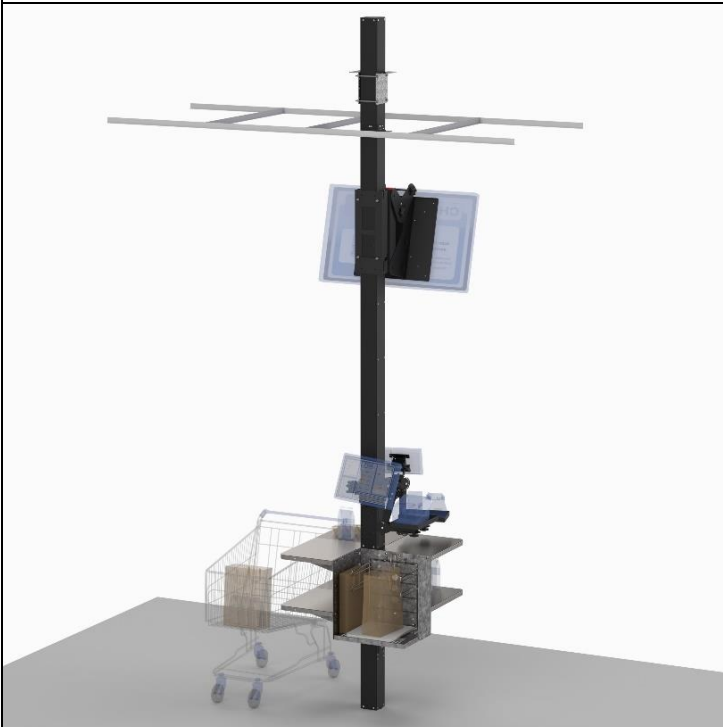

Movable Countertop Point of Sale Stands – Very stable; but easily relocated on any horizontal surface.
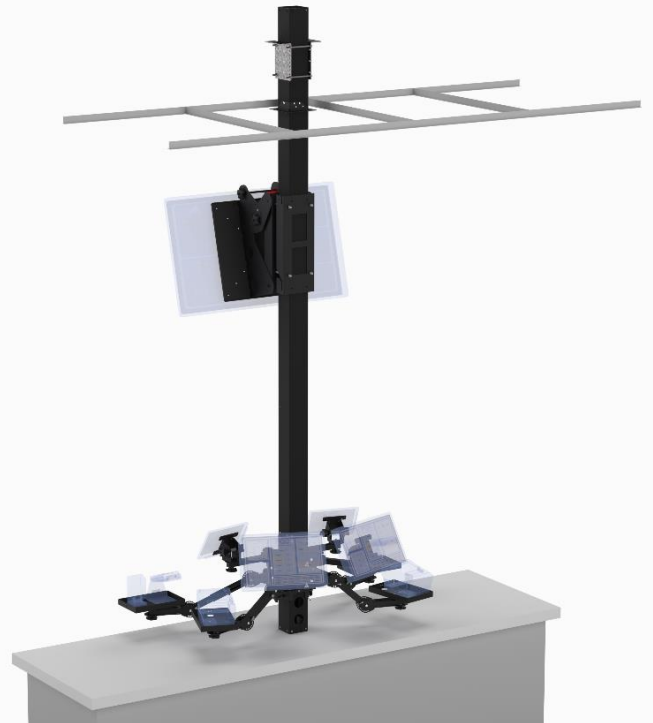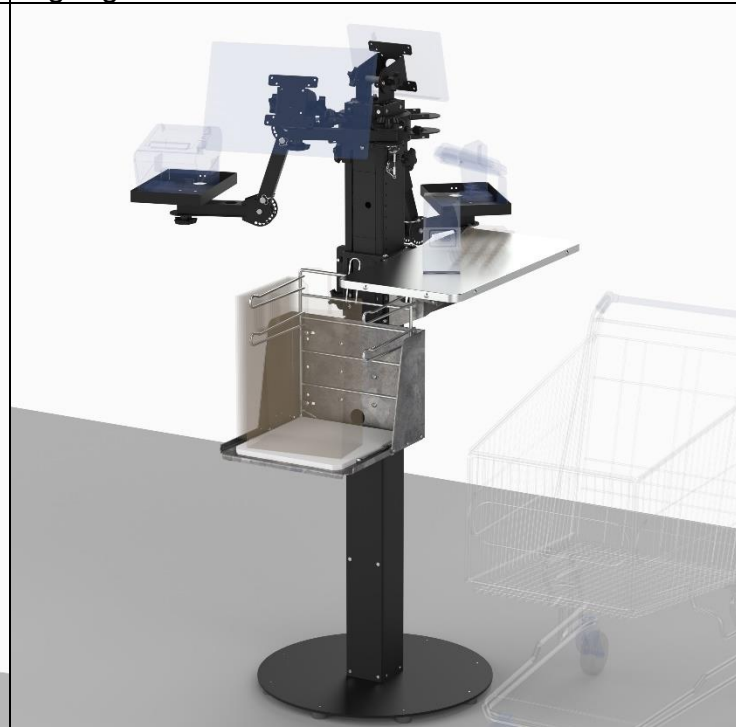

Direct Mount Countertop Point of Sale Stands- Attach directly to countertops, some configurations span to ceiling, optional digital signage.

Point of Sale Cashier Pole Stands- Attach to floor and span to ceiling, with or without cabinet, optional digital signage.

Point of Sale Cashier Floor Stands- Available in movable configurations.

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ALL PRODUCTS PATENT PENDING

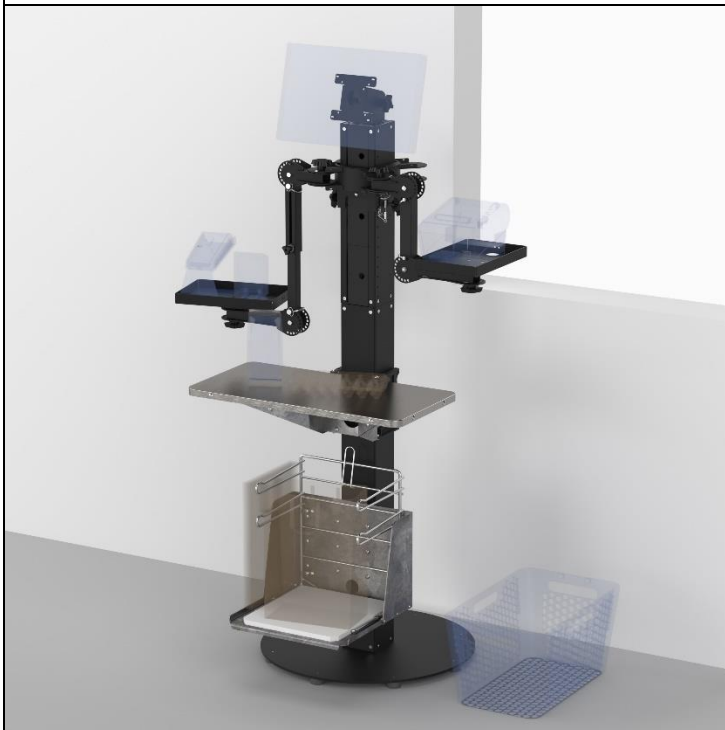**Introduction to the 4X4 Pole Systems Product Sub Groups - Page 2**
For more information; click on the images or descriptions to visit the individual product sub group pages on our website.

New Product Coming Q3 2023

New Product Coming Q3 2023

Mobile Cashier Stands - With fold up side tables and extendable wheels.

Point of Sale Self-Check Out Kiosk Pole Stands- Attach to floor and span to ceiling with or without cabinet, optional digital signage.

New Product Coming Q3 2023

Point of Sale Self-Check Out Kiosk Floor Stands-Available in movable configurations.

Mobile Self- Check Out Kiosks- With fold up side tables and extendable wheels.

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ALL PRODUCTS PATENT PENDING

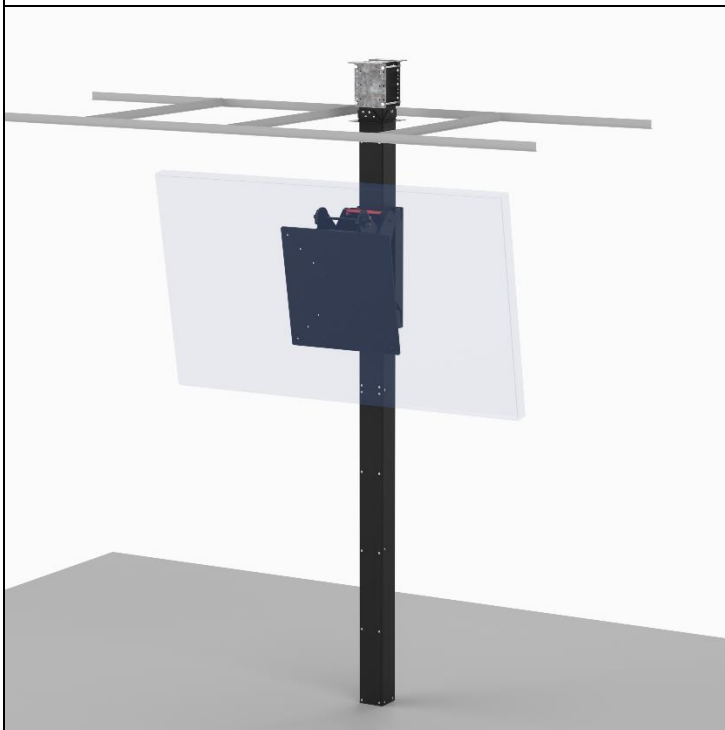**Introduction to the 4X4 Pole Systems Product Sub Groups - Page 3**
For more information; click on the images or descriptions to visit the individual product sub group pages on our website.

Take Out Pickup Pole Stands- Attach directly to floor and span to ceiling, optional digital signage.

**Take Out Pickup Floor Stands-** Available in movable configurations.

Digital Signage Pole Stands- Attach directly to floor or countertop and span to ceiling.

Information Kiosk Floor Stands- Available in movable configurations.

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ALL PRODUCTS PATENT PENDING

Introduction to the 4X4 Pole Systems Product Sub Groups - Page 4
For more information; click on the images or descriptions to visit the individual product sub group pages on our website.
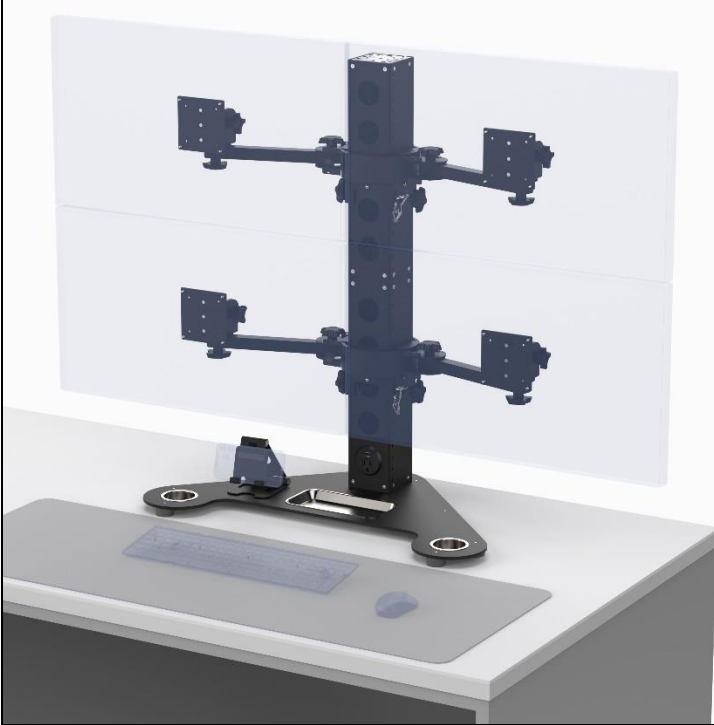
Desk Top Multi-Screen Pedestal Stands
Available in 2 or 4 screen movable configurations.

4X4 Pole Clamp on Mounts- These attach to any 4" X 4" square channel assembly without tools and support many different types or equipment.

New Product Coming Q3 2023

PQS
PRACTICAL QUALITY SYSTEMS
Fast Custom Manufacturing - Nationwide Installation Services

4X4 Accessories - A wide range of accessories that work with all 4X4 product sub groups

Link to Practical Quality Systems Home Page

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ALL PRODUCTS PATENT PENDING