

# 4-post, 19-inch open rack

Steel frame with square holes

NPO-4P42UBA






ProfessionalSeries

IMPORTANT SAFETY INFORMATION

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN LEAD TO  
SERIOUS INJURY, DEATH, OR DAMAGE TO YOUR EQUIPMENT




Carefully read and follow the safety  
instructions included in this manual before  
assembling and using the unit.

-  **Caution:** this product is heavy, at least two qualified people should perform the assembly procedure. Care must also be taken while moving or positioning the equipment.
-  Do not exceed the recommended load capacity per shelf, and the maximum weight supported by the rack, as specified by the manufacturer's specifications. Failure to comply will void the warranty of this product.
-  Safety measures must be practiced at all times during the assembly of this product.
-  **Caution:** use the recommend tools to avoid damaging the parts.
-  **RACK TIPPING HAZARD:** ensure that the rack is properly anchored to the floor before equipment is installed.



All parts of the unit must be properly grounded to the frame of the rack and connected to the Common Bonding Network (CBN) of your facility.

-  Nexxt solutions does not warrant against damage caused by the use of any Nexxt Solutions enclosures for any purposes other than those for which it was designed or damage caused by unauthorized attachments or modifications, and is not responsible for any damages, claims, demands, suits, actions or causes of action of whatever kind resulting from, arising out of or in any manner relating to any such use, attachments or modifications.

*\*Bolt holes require user-supplied fasteners for fixed position installation.*

1 . Introduction

Thank you for purchasing the four-post open rack from Nexxt Solutions. Available with 42 rack spaces, these units are constructed of heavy-duty steel, allowing the safe integration of networking equipment and additional accessories in environments or areas that do not require a lockable rack solution. Designed for easy deployment in high-load and high-density infrastructures, this 42U rack supports adjustable depths, ideal for housing diverse IT equipment and other voice/data devices where space is at a premium. Easy to install and to assemble, our open racks offer a cost-effective solution for applications requiring increased flexibility, accessibility and cable management capabilities.

Main features

- 4-post open frame rack
- Supports stationary loads of up to 771lb (350kg)
- Adjustable mounting depths (from 22 to 40 inches)
- Provides unobstructed airflow and easy access to installed equipment and cabling
- Front and rear equipment installation for larger networking systems
- Numbered square-hole mounting positions for faster attachment of 19-inch components
- Powder coat finish prevents damage caused by rust and other external factors

For support and to find out more about our complete line of products and solutions, we invite you to visit us at [nexxtsolutions.com](https://nexxtsolutions.com).

2.Preliminary steps



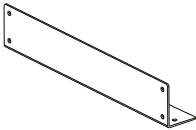
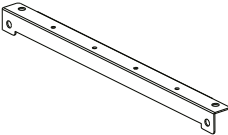
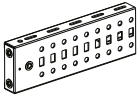
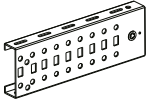
- Prior to installing this product, you must read all instructions thoroughly.
- Keep these instructions handy in an easily accessible location for future reference.
- A clean, flat, level, protected floor area should be provided for rack assembly to prevent damage to parts.
- The installers may need to have the following items and tools available to assemble and install the rack. They are not included in the box.

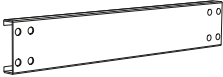
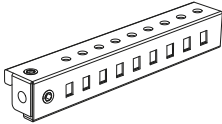
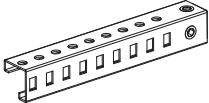
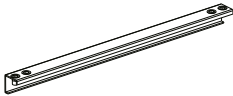
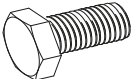





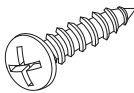



1. Phillips screwdriver
2. Power drill with the following bits:  
MB hexagonal-head tip
3. M8 hex to square socket adaptor
4. Pair of gloves
5. Long nose pliers
6. Cleaning towel
7. 3mx2m mat or padded surface

3. Product overview and components

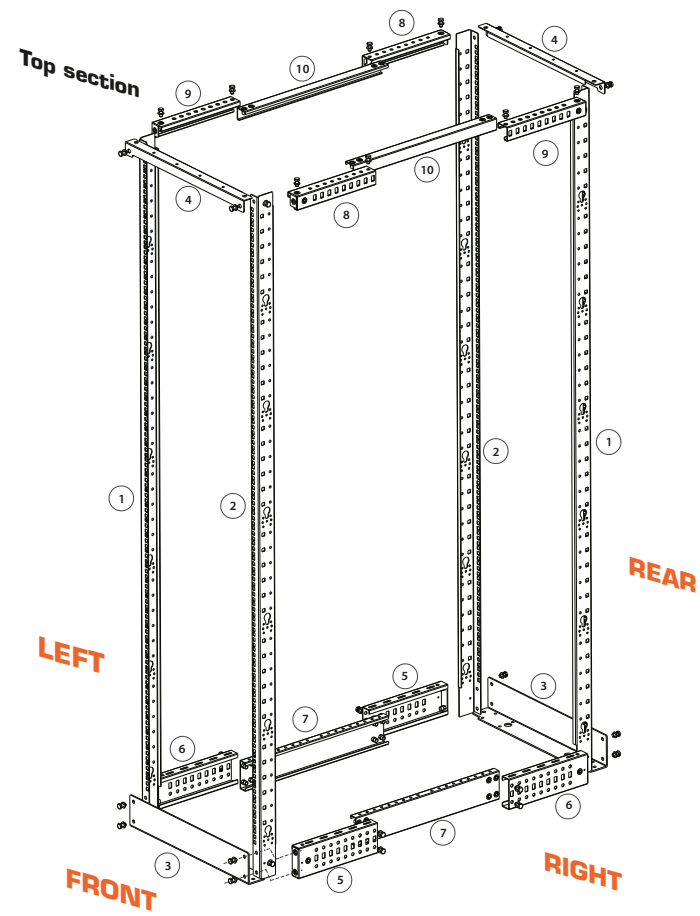
Upon opening the box, make sure to inspect and account that all the items listed below are included:

| Part ID | Item                                       | Quantity | Image   |
|---------|--|----------|---|
|         | Rack assembly components                   |          |   |
| 1       | Left vertical rail                         | 2        |    |
| 2       | Right vertical rail                        | 2        |   |
| 3       | Bottom base bracket for the front and rear | 2        |  |
| 4       | Top bracket for the front and rear         | 2        |  |
| 5       | Left bottom corner mounting rail           | 2        |  |
| 6       | Right bottom corner mounting rail          | 2        |  |

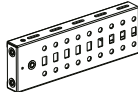

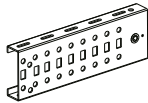
|    |   |    |   |
|----|---|----|---|
| 7  | Bottom center beam for the left and right sides | 2  |    |
| 8  | Left top corner mounting rail                   | 2  |    |
| 9  | Right top corner mounting rail                  | 2  |    |
| 10 | Top center beam for the left and right sides    | 2  |    |
|    | Rack assembly hardware                          |    |   |
| 11 | M8x16mm hexagon bolt                            | 48 |    |
| 12 | M8 metal washers                                | 48 |    |
| 13 | Combination wrench #13                          | 1  |   |
|    | Equipment mounting hardware                     |    |   |
| 14 | M6 cage nut                                     | 40 |  |
| 15 | M6 plastic flanged washer                       | 40 |  |
| 16 | M6x12mm phillips-head screw                     | 40 |  |
| 17 | M4 phillips self-tapping screw                  | 24 |  |
| 18 | Cable management hook                           | 24 |  |
|    | Installation guide                              | 1  |   |

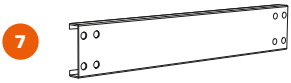
4. Assembly procedure (recommended)

Upon opening the box, inspect the contents to ensure that all the items listed below are included:

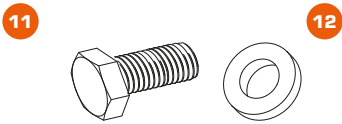


- The illustration provides a view of all the rack components you are about to put together.
- Open the boxes and verify that all parts, hardware and accessories are included in the package.
- Inspect the rack components and identify each individual part to ensure proper assembly of the unit.

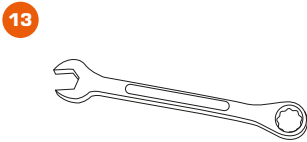
| Phase | Required parts   | Step  |
|-------|--|---|
| 1     | <div><div>5</div><div></div><div>Left bottom corner mounting rails (2)</div></div>  | <div><b>Bottom left rail subassembly</b></div> <div>1. Align the center beam with the corner bottom rails at each end.</div> <div>2. Slide the corner rails over the center beam and then proceed to adjust the mounting depth by aligning the numbers on the center beam with the first rectangular cutout on the corner rails.</div> <div><div><div>6</div><div>7</div><div>5</div></div><div></div><div>Aligning the rectangular cutouts</div></div> |
|       | <div><div>6</div><div></div><div>Right bottom corner mounting rails (2)</div></div> |   |



Bottom center beam  
for the left and right sides (2)



M8x16mm hex bolts and washers (16)



Combination wrench #13

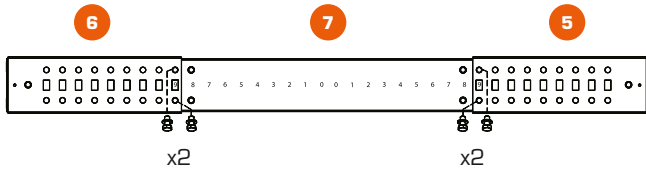
3. Refer to the chart below for depth selection details.

| Mounting depth | Numbers | Mounting depth | Numbers |
|----------------|---------|----------------|---------|
| 22in*          | 0 and 0 | 32in           | 5 and 5 |
| 23in           | 0 and 1 | 33in           | 5 and 6 |
| 24in           | 1 and 1 | 34in           | 6 and 6 |
| 25in           | 1 and 2 | 35in           | 6 and 7 |
| 26in           | 2 and 2 | 36in           | 7 and 7 |
| 27in           | 2 and 3 | 37in           | 7 and 8 |
| 28in           | 3 and 3 | 38in           | 8 and 8 |
| 29in           | 3 and 4 | 39in           | 8 and 9 |
| 30in           | 4 and 4 | 40in*          | 9 and 9 |
| 31in           | 4 and 5 |                |         |

**Note:** the depth from 22 to 40 inches is adjustable in 1-inch increments.

\*For min (22in) and max (40in) depths, only a single set of bolts can be used. For all other settings, you can use a double set of bolts for reinforcement and stability.

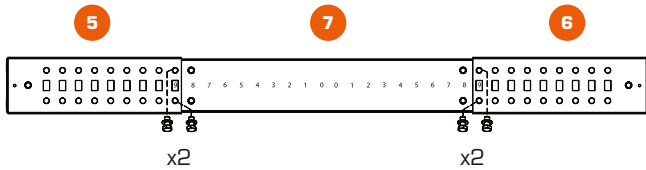
4. Next, insert M8 hex bolts and washers through the corner rails and into the center beam.

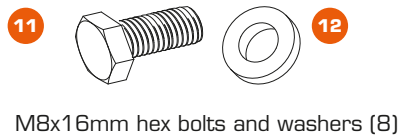
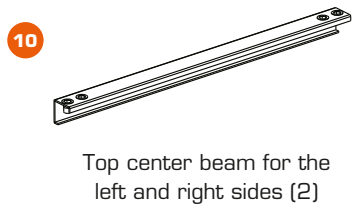
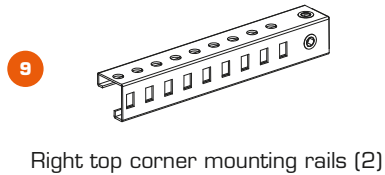
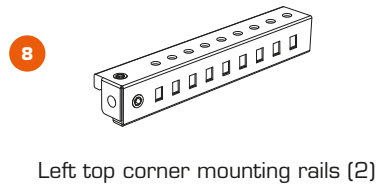


5. Use the wrench included to tighten the M8 bolts, being careful not to over-tighten.

**Bottom right rail subassembly**

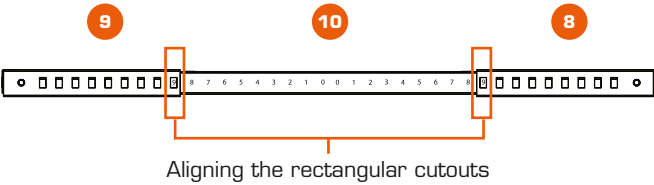
6. Repeat steps 1 through 4 to complete the bottom rail subassembly for the right side.



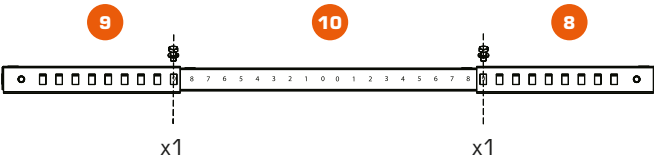


Top left rail subassembly

1. Align the center beam with the corner top rails at each end.
2. Slide the corner rails over the center beam and then proceed to adjust the mounting depth by aligning the numbers on the center beam with the first rectangular cutout on the corner rails.



**Note:** the mounting depth of the top assembly must be the same as the bottom for proper alignment. For min (22in) and max (40in) depths, only a single bolt can be used. For all other settings, you can use double bolts for reinforcement and stability.

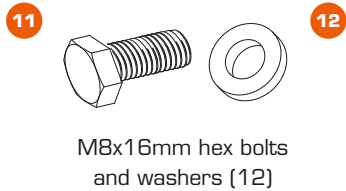
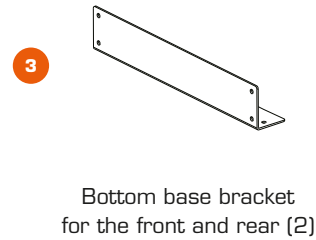
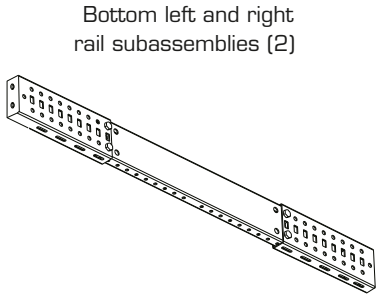
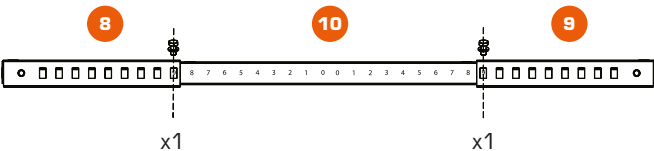


3. Next, insert M8 hex bolts and washers through the corner rails and into the center beam. Refer to illustration above.

4. Use the wrench included to tighten the M8 bolts, being careful not to over-tighten.

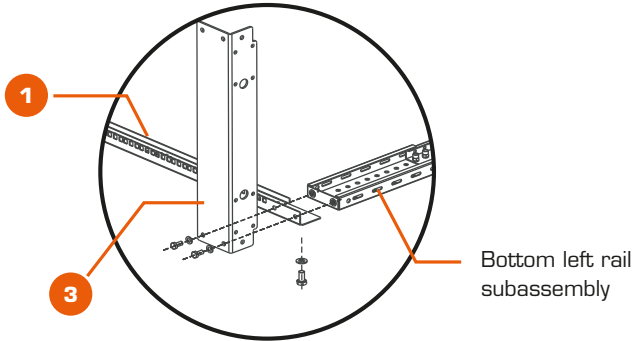
Top right rail subassembly

5. Repeat steps 1 through 4 to complete the top rail subassembly for the right side.



Attaching the vertical rails to the bottom left (front and rear) assembly

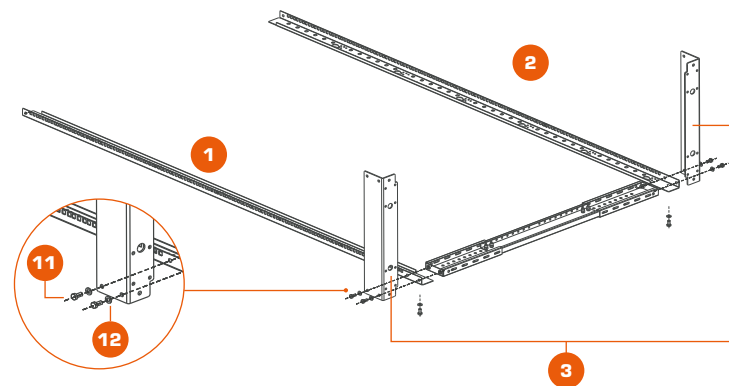
1. Place the bottom left rail subassembly on the mat.
2. Match the mounting holes on the left rail subassembly with the ones on the vertical rail. Then line up the front base bracket in such a way that the mounting holes of all 3 components are perfectly aligned into position. Refer to image below for details.



3. Insert two M8 bolts and washers through the end screw hole on the front bracket, left vertical rail and into the bottom left rail subassembly to fasten all parts together. Refer to the previous image.

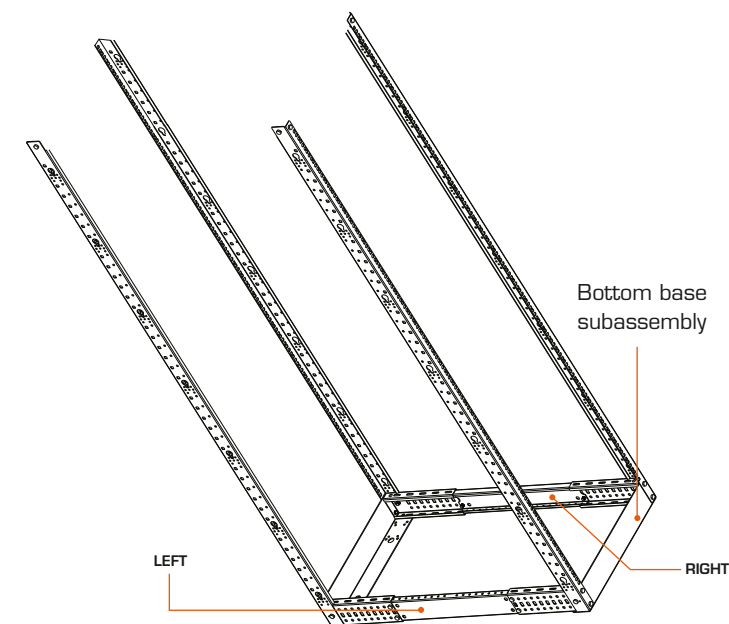
**Note:** make sure not to fully-tighten the first bolt (front and rear sections) until the second bolt on the vertical rail has been inserted.

4. Repeat steps 1 through 3 to assemble the left rear section of the base.



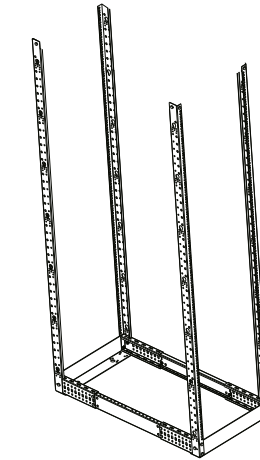
#### Attaching the vertical rails to the bottom rigth (front and rear) assembly

5. Once you have the left side assembled (front and rear sections), turn the assembly over and execute steps 1 through 4 to complete the other side of the rack.



6. Now that the base assembly is complete, firmly tighten all the screws to properly secure, align and square off the unit.

#### Bottom base subassembly



#### Top left rail subassembly

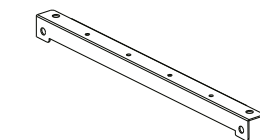


#### Top right rail subassembly



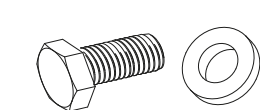
4

4



#### Front/rear top bracket

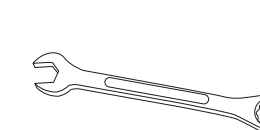
11



#### M8x16mm hexex bolts and washers (8)

12

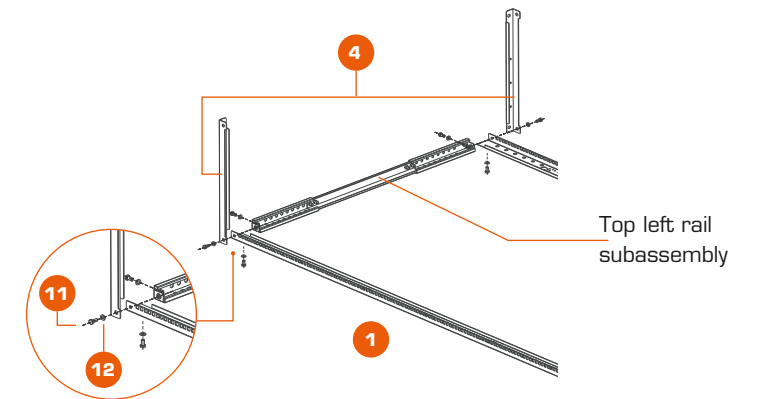
13



#### Combination wrench #13

#### Top left (front and rear) frame assembly

1. Place the top left rail subassembly on the mat.
2. Match the mounting holes on the left rail subassembly with the ones on the vertical rail. Then line up the front top bracket in such a way that the mounting holes of all 3 components are perfectly aligned into position.



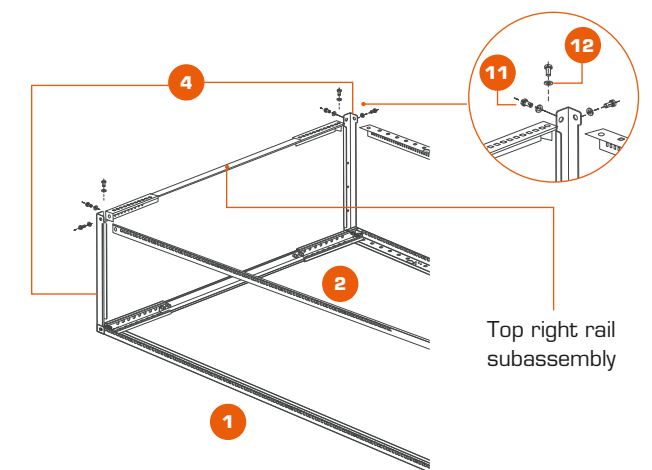
3. Insert one M8 bolt and washer through the top and front screw holes on the front bracket, left vertical rail and into the top left rail subassembly to fasten all parts together. Refer to image in step 4 above.

**Note:** make sure not to fully-tighen bolts (front and rear sections) until the all bolts has been inserted.

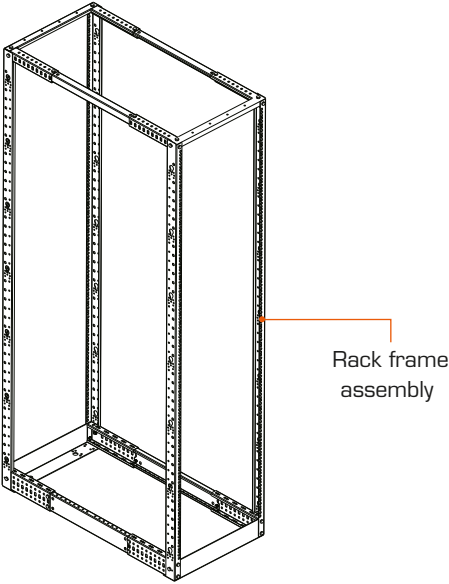
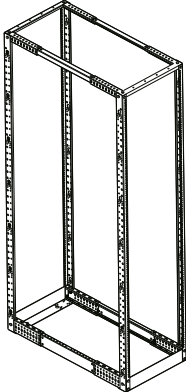
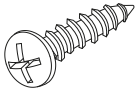

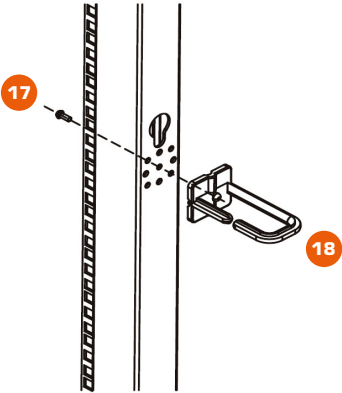
4. Repeat steps 1 through 3 to assemble the left top rear section of the frame.

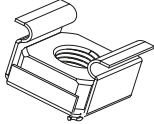


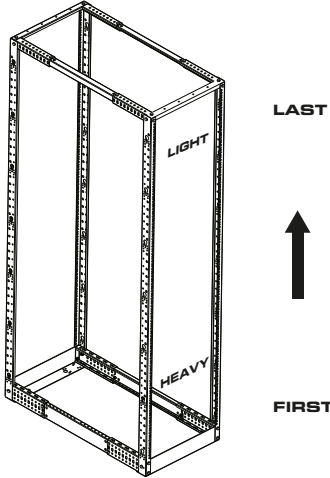
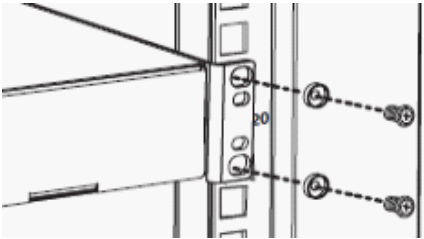
#### Top right (front and rear) frame assembly

5. To attach the top right (front and rear) assembly, turn the rack over very carefully and execute steps 1 through 4 as in the previous section.





|   |   |   |
|---|---|---|
|   |   | <p>6. Firmly tighten all the bolts to properly secure, align and square off the unit.</p>  <p>7. This concludes the rack frame assembly.</p>  |
| 5 |  <p>Rack frame assembly</p> <p>17</p>  <p>M4 phillips self-tapping screws (24)</p> <p>18</p>  <p>Cable management hooks</p> | <p><b>Installation of the cable management hooks</b></p> <p>1. At this point, place the rack in the upright position.</p> <p><b>Note:</b> at least two people are required for lifting up the rack.</p> <p>2. Align the <b>cable management hooks</b> with the <b>cable management screw holes</b> along the rear of the rack in the preset mounting locations, keeping the hook openings pointing sideways. Refer to the image below.</p>  <p>3. Use the self-tapping screws to fasten the hooks to the rails.</p> |

|   |  |   |
|---|--|---|
| 6 | <p>14</p>  <p>M6 cage nuts (40)</p> <p>15</p>  <p>M6 plastic flanged washers (40)</p> <p>16</p>  <p>M6x12mm phillips-head screws (40)</p> | <p><b>Equipment installation</b></p> <p>The rack is now assembled and ready for equipment installation. If required, it can be secured to the floor with user-supplied anchoring bolts.</p> <p>1. Do not install any equipment until you have stabilized the structure.</p> <p>2. Always load the heavier items at the bottom first, followed by the lighter equipment at the top of the rack, for safety reasons.</p>  <p>3. On the already installed vertical rails, count up the second and third square holes from the front (left and right) and rear (left and right) ends and insert an M6 cage nut in each square hole, with the tabs facing inward.</p> <p>4. Repeat this procedure until all M6 cage nuts are installed in the square holes of the front and back rails.</p> <p>5. Align the equipment or component that will be mounted on the square location where the cage nut has been inserted.</p> <p>6. Proceed to insert the M6xL12 phillips-head screws and plastic flange washers from the inside through the vertical mounting rails and into the nuts you installed in the previous step.</p> <p>7. Tighten the screws to secure the equipment to the vertical rails.</p>  <p><b>Note:</b> the square holes on the vertical rails are numbered to easily identify each mounting location.</p> <p>8. Run your cables through the hooks to keep them accessible and organized.</p> |
|---|--|---|

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